## Clinton Water & Sewer East Plant

Annual Report
Permit AR0048836 & 5130-WR-2 January
2021 – December 2021

Report Revision Date: August 16, 2022



### Environmental Services Company, Inc.

Corporate Office
13715 West Markham

Little Rock, Arkansas 72211

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Carlsbad, New Mexico

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Albuquerque, New Mexico

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Springdale, Arkansas

479-750-1170

# Clinton Water and Sewer Department Clinton, AR East WWTP 5130-WR-2 Irrigation Water Calendar Year 2021

			2021 Appl	ication Data		Total
	Annual	Million	Number	Gallons	Pounds	Application
Parameter	Concentration	Gallons/	of	per	per	Since 2003
	(mg/L)	Year	Acres	Acre-Year	Acre	Pounds/Acre
CBOD	< 2.0000	68.112	86.00	792,000.0	13.219	**
Sodium Absorption Ratio	51.7228	68.112	86.00	792,000.0	341.865	**
Fecal Coliform	< 1.0000	68.112	86.00	792,000.0	6.610	**
Total Suspended Solids	2.5000	68.112	86.00	792,000.0	16.524	**
Potassium	4.6100	68.112	86.00	792,000.0	30.470	**
Total Phosphorus	0.7170	68.112	86.00	792,000.0	4.739	**
Total Kjeldahl Nitrogen	12.9667	68.112	86.00	792,000.0	85.704	871.40
Ammonia Nitrogen	5.1200	68.112	86.00	792,000.0	33.841	241.80
Nitrate + Nitrite Nitrogen	4.6200	68.112	86.00	792,000.0	30.536	163.63
BOD-5	16.2333	68.112	86.00	792,000.0	107.295	1,473.32
Arsenic	< 0.0100	68.112	86.00	792,000.0	0.066	0.70
Cadmium	< 0.0200	68.112	86.00	792,000.0	0.132	0.44
Copper	< 0.0200	68.112	86.00	792,000.0	0.132	0.50
Lead	< 0.0100	68.112	86.00	792,000.0	0.066	0.84
Mercury	< 0.0033	68.112	86.00	792,000.0	0.022	0.13
Selenium	< 0.0150	68.112	86.00	792,000.0	0.099	0.96
Zinc	< 0.0500	68.112	86.00	792,000.0	0.330	5.96
Conductivity, minimum (mhos/cm)*	144.90					
Conductivity, maximum (mhos/cm)*	215.00					
pH, minimum (SU)*	7.30					
pH, maximum (SU)*	8.40					
Nitrogen Application Rate (lbs N/acre/year)	62.97					

<sup>\*</sup> Current year values

\*\* See sample results from July 25, 2022

(2207010292, page 52 of this report) as requested by ADEQ

**Crop Grown:** Bermuda Hay

### Clinton East 40.24 LA PB 3

Control Number 2103010415

Sample ID

	1s	t Quarter	2n	d Quarter	3r	d Quarter	4tl	h Quarter
	Sample	Analytical	Sample	Analytical	Sample	Analytical	Sample	Analytical
Parameter	Date	Results (mg/Kg)	Date	Results (mg/Kg)	Date	Results (mg/Kg)	Date	Results (mg/Kg)
Nitrate Nitrogen	03/19/21	718.350						
Ammonia Nitrogen	03/19/21	0.1800						
PAN	03/19/21	13.10						
Phosphorous	03/19/21	1.9745						
Potassium	03/19/21	743.67						
Arsenic	03/19/21	6.632						
Cadmium	03/19/21	< 0.017						
Copper	03/19/21	7.359						
Lead	03/19/21	15.942						
Magnesium	03/19/21	799.24						
Mercury	03/19/21	0.0800						
Molybdenum	03/19/21	1.320						
Nickel	03/19/21	18.889						
Selenium	03/19/21	1.274						
Zinc	03/19/21	7.359						
Cation Exchange Capacity (meq)	03/19/21	14.2506						
Conductivity (umhos/cm)	03/19/21	213.6459						
Sodium Absorption Ratio	03/19/21	0.1777						
pH (SU)	03/19/21	6.40						

Sample ID	Clinton East 40.24 LA PB 30
Control Number	2103010416

	1s	t Quarter	2n	d Quarter	3re	d Quarter	4th	n Quarter
	Sample	Analytical	Sample	Analytical	Sample	Analytical	Sample	Analytical
Parameter	Date	Results (mg/Kg)	Date	Results (mg/Kg)	Date	Results (mg/Kg)	Date	Results (mg/Kg)
Nitrate Nitrogen	03/19/21	75.810						
Ammonia Nitrogen	03/19/21	0.3120						
PAN	03/19/21	23.80						
Phosphorous	03/19/21	1.1125						
Potassium	03/19/21	1146.90						
Arsenic	03/19/21	12.436						
Cadmium	03/19/21	< 0.047						
Copper	03/19/21	20.893						
Lead	03/19/21	24.773						
Magnesium	03/19/21	1745.20						
Mercury	03/19/21	0.1530						
Molybdenum	03/19/21	3.628						
Nickel	03/19/21	31.567						
Selenium	03/19/21	3.439						
Zinc	03/19/21	114.311						
Cation Exchange Capacity (meq)	03/19/21	32.4005						
Conductivity (umhos/cm)	03/19/21	299.7150						
Sodium Absorption Ratio	03/19/21	0.4248						
pH (SU)	03/19/21	6.90						

Sample ID Control Number	Clinton East 2103010417	55.57 LA PB 10						
	1st	Quarter	2nc	d Quarter	3rd	Quarter	4th	Quarter
	Sample	Analytical	Sample	Analytical	Sample	Analytical	Sample	Analytical

	1s	t Quarter	2n	d Quarter	3re	d Quarter	4tl	h Quarter
	Sample	Analytical	Sample	Analytical	Sample	Analytical	Sample	Analytical
Parameter	Date	Results (mg/Kg)	Date	Results (mg/Kg)	Date	Results (mg/Kg)	Date	Results (mg/Kg)
Nitrate Nitrogen	03/19/21	176.080						
Ammonia Nitrogen	03/19/21	0.4100						
PAN	03/19/21	8.11						
Phosphorous	03/19/21	0.5872						
Potassium	03/19/21	458.23						
Arsenic	03/19/21	3.628						
Cadmium	03/19/21	< 0.024						
Copper	03/19/21	5.095						
Lead	03/19/21	9.206						
Magnesium	03/19/21	589.61						
Mercury	03/19/21	< 0.0450						
Molybdenum	03/19/21	1.677						
Nickel	03/19/21	9.919						
Selenium	03/19/21	1.781						
Zinc	03/19/21	28.706						
Cation Exchange Capacity (meq)	03/19/21	10.3785						
Conductivity (umhos/cm)	03/19/21	221.7245						
Sodium Absorption Ratio	03/19/21	0.2123						
pH (SU)	03/19/21	6.80						

### Calendar Year 2021

Sample ID	Clinton East	55.57 LA PB 3						
Control Number	2103010418							
	1st Quarter		2n	2nd Quarter		d Quarter	Δtl	n Quarter
	Sample Analytical		Sample Analytical		Sample Analytical		Sample Analytical	
Parameter	Date	Results (mg/Kg)						
Nitrate Nitrogen	03/19/21	202.960		, 6		, 0 0,		, ,
Ammonia Nitrogen	03/19/21	0.6620						
PAN	03/19/21	7.21						
Phosphorous	03/19/21	2.3153						
Potassium	03/19/21	526.50						
Arsenic	03/19/21	4.459						
Cadmium	03/19/21	< 0.028						
Copper	03/19/21	5.939						
Lead	03/19/21	9.530						
Magnesium	03/19/21	752.59						
Mercury	03/19/21	< 0.0310						
Molybdenum	03/19/21	1.950						
Nickel	03/19/21	13.158						
Selenium	03/19/21	2.218						
Zinc	03/19/21	39.203						
Cation Exchange Capacity (meq)	03/19/21	12.7056						
Conductivity (umhos/cm)	03/19/21	199.6038						
Sodium Absorption Ratio	03/19/21	0.3140						
pH (SU)	03/19/21	6.90						

Sample ID	Clinton East	55.57 LA PB 30						
Control Number	2103010419							
	1s	t Quarter	2nd Quarter		3rc	3rd Quarter		n Quarter
	Sample	Analytical	Sample	Analytical	Sample	Analytical	Sample	Analytical
Parameter	Date	Results (mg/Kg)	Date	Results (mg/Kg)	Date	Results (mg/Kg)	Date	Results (mg/Kg)
Nitrate Nitrogen	03/19/21	291.360						
Ammonia Nitrogen	03/19/21	0.1960						
PAN	03/19/21	8.56						
Phosphorous	03/19/21	1.4577						
Potassium	03/19/21	693.62						
Arsenic	03/19/21	4.508						
Cadmium	03/19/21	< 0.028						
Copper	03/19/21	3.656						
Lead	03/19/21	10.051						
Magnesium	03/19/21	612.17						
Mercury	03/19/21	< 0.0440						
Molybdenum	03/19/21	1.977						
Nickel	03/19/21	10.643						
Selenium	03/19/21	2.247						
Zinc	03/19/21	25.087						
Cation Exchange Capacity (meq)	03/19/21	55.6369						
Conductivity (umhos/cm)	03/19/21	245.5300						
Sodium Absorption Ratio	03/19/21	0.0676						
pH (SU)	03/19/21	6.60						

Sample ID Control Number	Clinton East 2103010420	LA Airport 9						
	1st	Quarter	2nd	d Quarter	3rc	l Quarter	4th	n Quarter
	Sample	Analytical	Sample	Analytical	Sample	Analytical	Sample	Analyti

	1s	t Quarter	2n	d Quarter	3r	d Quarter	4t	h Quarter
	Sample	Analytical	Sample	Analytical	Sample	Analytical	Sample	Analytical
Parameter	Date	Results (mg/Kg)	Date	Results (mg/Kg)	Date	Results (mg/Kg)	Date	Results (mg/Kg)
Nitrate Nitrogen	03/19/21	323.640						
Ammonia Nitrogen	03/19/21	4.2550						
PAN	03/19/21	6.12						
Phosphorous	03/19/21	< 0.2567						
Potassium	03/19/21	375.01						
Arsenic	03/19/21	3.933						
Cadmium	03/19/21	< 0.021						
Copper	03/19/21	3.528						
Lead	03/19/21	7.595						
Magnesium	03/19/21	396.40						
Mercury	03/19/21	< 0.0440						
Molybdenum	03/19/21	1.473						
Nickel	03/19/21	8.489						
Selenium	03/19/21	1.682						
Zinc	03/19/21	16.986						
Cation Exchange Capacity (meq)	03/19/21	9.2592						
Conductivity (umhos/cm)	03/19/21	97.4922						
Sodium Absorption Ratio	03/19/21	0.1891						
pH (SU)	03/19/21	7.10						

#### Calendar Year 2021

Sample ID	Clinton East	LA WD 13						
Control Number	2103010421							
	T 1-	4 O	2	10	2	1.0	441	0
		t Quarter		2nd Quarter		3rd Quarter		Quarter
	Sample	Analytical	Sample	Analytical	Sample	Analytical	Sample	Analytical
Parameter	Date	Results (mg/Kg)	Date	Results (mg/Kg)	Date	Results (mg/Kg)	Date	Results (mg/Kg)
Nitrate Nitrogen	03/19/21	6.564						
Ammonia Nitrogen	03/19/21	0.0290						
PAN	03/19/21	5.37						
Phosphorous	03/19/21	0.1101						
Potassium	03/19/21	674.19						
Arsenic	03/19/21	5.415						
Cadmium	03/19/21	< 0.038						
Copper	03/19/21	4.988						
Lead	03/19/21	9.896						
Magnesium	03/19/21	735.81						
Mercury	03/19/21	0.0560						
Molybdenum	03/19/21	2.538						
Nickel	03/19/21	13.396						
Selenium	03/19/21	2.699						
Zinc	03/19/21	31.241						
Cation Exchange Capacity (meq)	03/19/21	12.8939						
Conductivity (umhos/cm)	03/19/21	402.1440						
Sodium Absorption Ratio	03/19/21	0.2225						
pH (SU)	03/19/21	6.80						

Corporate Office 13715 West Markham Little Rock, AR 72211 Tel. (501)221-2565 Fax (501)221-1341

Northwest Arkansas Branch 1107 Century Avenue Springdale, AR 72762 Tel. (479)750-1170 Fax (479)750-1172

Control Number: 2103010676

Customer Name : CLINTON, EAST IW

Customer/Permit No. : 619 / AR0048836 001

Report Date : 08/02/22

Sample Date : 03/19/21 Sample Time : 1330

Sample Type : GRAB WWATER

Sample From : IRRIGATION WATER

Collected By: HMK Delivery By : HMK

Work Order : Purchase Order :

		Laboratory Anal	ysis			Quality A	Assurance
Analysis						Precision	Accuracy
<u>Date Time By</u>	<u>Parameter</u>	Result	Notes _	Quantity	Method	% RPD	% Recovery
03/19 1644 EDA	BOD, 5-day	18.0 m	ıg/L		SM 2011 5210 B	14.97	106.0 *
03/30 1023 AKA	Ammonia as N, (HACH/SM)	5.47 m	ıg/L		SM 2011 4500-NH3-G	1.57	90.3 *
03/25 1017 AKA	Total Kjeldahl Nitrogen	16.7 m	ıg/L		02/2014 HACH 10242	8.01	115.0 *
03/30 1508 KNM	Potassium	4.6100 m	ıg/L		EPA 200.8	5.34	111.2 *
03/19 1330 HMK	рН	8.4 S	.U.		SM 2011 4500-H+B	0.00	N/A *
03/30 1508 KNM	Copper	< 0.0200 m	ıg/L		EPA 200.8	0.41	101.5 *
03/30 1508 KNM	Zinc	< 0.0500 m	ıg/L		EPA 200.8	4.07	102.0 *
03/30 1508 KNM	Arsenic	< 0.0100 m	ıg/L		EPA 200.8	0.29	99.7 *
03/30 1508 KNM	Selenium	< 0.0150 m	g/L		EPA 200.8	6.67	99.6 *
04/06 1433 BXW	Spec. Conductance @ 25 C	211.610 u	mho/c		EPA 120.1		
03/30 1508 KNM	Cadmium	< 0.02000 m	g/L		EPA 200.8	1.05	105.6 *
03/26 1845 KNM	Mercury	0.0010 m	g/L		EPA 245.7	0.56	111.4 *
03/30 1508 KNM	Lead	< 0.01000 m	g/L		EPA 200.8	0.46	89.2 *
03/22 1331 BXW	Nitrate + Nitrite	6.53 m	g/L		HACH 10206	0.80	103.0 *
04/01 0800 KNM	Sodium Absorption Ratio	51.7228 R	atio		AGRN 724		

All equipment used is checked and/or calibrated daily. All NPDES testing is conducted in accordance with 40 CFR Part 136. A minimum of 10% spiked and duplicate samples is run on each parameter where applicable for Quality Assurance purposes. Quality Assurance Plan on file with Arkansas Department of Environmental Quality. Analysis time indicates the time of the start of the analytical batch in which the specific sample was included.

<sup>\*</sup> QA data shown is from a different sample or standard on the same date.

#### Environmental Services Company, Inc. Corporate Office

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Springdale, Arkansas 479-750-1170

Carlsbad, New Mexico 575-887-1ESC

### **CHAIN OF CUSTODY**

	C	Client Information				Pro	oject Inf	ormation	)			R	∍qu∈	ested	Parai	mete	ers
Client:		Clinton, East IW			Permit/Pro	ject #:		AR0048	836								
Address:		P.O. Box 277			Purchase	Order #:											
		Clinton, AR 72031			Work Orde	er#	_ •					91)					
Phone:		501-745-4320			Sampler N	lame(s):	Har.	Des- K	ells			202		s)			
Fax:		501-745-2164					1/	, ,	1			+		Comments)			
Contact:		Mr. Phil Graham			and Signat	ture(s):		<del>/</del>	***************************************	•		Š		omr			
ESC Client Nu	ımber:	619			1	, ,	4					(A)					
Sar	nple Iden	tification		Sample	Collection			Sample (	Containers	3		(S)   S	(16.0	ls (S			
Identifica	ation	ESC Control #	Date	Time	Туре	Matrix	Туре	Volume	Preserva	ative	#	BOD(3.) NH3-N(15.A). NO3 + NO2(91.)	TKN(16.C)	Metals (See			
Irrigati	on Water	2103010676	3/19/21	1330	Grab	Wwater	Plastic	1 Liter	Cool ≤ 6° C	:	1	x	十				
		1		1	Grab	Wwater	Plastic	8 oz	Cool < 6° C, H2SO4 to pH <2		1		( X	1		十	
		<u> </u>	-	1	Grab	Wwater	Plastic	8 oz	HNO3 to p	-l <2	1			X		$\top$	
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Relinquished By: (Signa	ature and Printed	Name)	Date	Time	Received By: (Sig	gnature and Printe	d Name)	<u> </u>	Date	Time		ustody sed?	Seals:		Intact?		_
Relinquished By: (Signa	ature and Printed	l Name)	Date	Time	Received By: (Sig	gnature and Printe	d Name)		Date	Time	- 1	urnarou legular	nd:		Special		_
Relinguished Blr: (Signa	ature and Printed	(Yarne)	3/9/2/	1643	Received for Lab	By: (Signature and	d Printed Nam	ie)	Date 3/19/21	Time 1642	v	-		property	preserve	d:	
1 ( )	70		271115			Flowr Da	ata/	Field Test	Time	Analys	t F	Result	Res		Ur	nits	
Comments:	Metals: Hg	(50.15), Cu(29.HW), 2 , Pb(82.HW), 00.MD	Zn(30.HW),	As(33.HW),	Se(34.HW)	Analystr. Time:		pH: Conduct:	1330	1141		8.4 -99		.4	S.U. U MHO		
		, . 5(52), 66				Reading:		Conduct.			1	77	一`	29	0 101110		
-						Units:							1_				
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BXW

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Northwest Arkansas Branch 1107 Century Avenue Springdale, AR 72762 Tel. (479)750-1170 Fax (479)750-1172

Control Number: 2107010259

Customer Name : CLINTON, EAST IW

Customer/Permit No. : 619 / AR0048836 001

Report Date : 08/02/21

Sample Date : 07/26/21

Sample Time : 1155

Sample Type : GRAB WWATER
Sample From : IRRIGATION WATER

Collected By: DMP Delivery By : DMP

Work Order : Purchase Order :

		Laboratory Analys	sis			Ouality A	Assurance
Analysis					i de la companya de	Precision	Accuracy
<u>Date Time By</u>	Parameter	Result	Notes _	Quantity	Method	% RPD	% Recovery
07/28 0536 BXW	BOD, 5-day	7.9 mg/	'L		SM 2011 5210 B	16.95	96.0 *
07/28 1010 EJD	Ammonia as N, (HACH/SM)	1.66 mg/	'L		SM 2011 4500-NH3-G	0.78	97.9 *
07/28 1110 AKA	Total Kjeldahl Nitrogen	7.1 mg/	'L		02/2014 HACH 10242	0.00	105.0
07/26 1200 DMP	рН	7.3 S.T	J.		SM 2011 4500-H+B	0.00	N/A *
07/29 2311 NTR	Copper	< 0.0200 mg/	'L		EPA 200.8	6.34	122.0 *
07/29 2311 NTR	Zinc	< 0.0500 mg/	'L		EPA 200.8	5.99	109.7 *
07/29 2311 NTR	Arsenic	< 0.0100 mg/	L		EPA 200.8	9.89	115.1 *
07/29 2311 NTR	Selenium	< 0.0150 mg/	L		EPA 200.8	12.93	96.3 *
07/26 1620 DMP	Spec. Conductance @ 25 C	144.900 umh	10/c		EPA 120.1	0.07	N/A
07/29 2311 NTR	Cadmium	< 0.0200  mg/	L		EPA 200.8	8.32	92.0 *
07/27 1523 KNM	Mercury	< 0.0050 mg/	L		EPA 245.1	10.53	99.3
07/29 2311 NTR	Lead	< 0.0100  mg/	L		EPA 200.8	4.30	99.3 *
07/27 1155 EJD	Nitrate + Nitrite	3.22 mg/	L		HACH 10206	3.32	100.0
		<u>.</u>					
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\* QA data shown is from a different sample or standard on the same date.

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Signature



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### **CHAIN OF CUSTODY**

	С	lient Information		TO THE RESIDENCE AND ADDRESS OF THE PARTY OF		Pro	oject Inf	ormation		MATERIAL PROPERTY.			Req	lues	ted	Par	ame	eters	S
Client:		Clinton, East IW			Permit/Pro	ject #:		AR0048	836										
Address:		P.O. Box 277			Purchase	Order #:													
		Clinton, AR 72031	~~~		Work Orde	er#		CANAL STATE OF THE			-		1.)						
Phone:		501-745-4320			Sampler N	lame(s):	1/19	UID	PIG	? U.	,		02(8						
Fax:	·····	501-745-2164						- 1	,			ĺ	Z  +		ents				
Contact:		Mr. Phil Graham			and Signa	ture(s):	1/2	00	PIC				NO3		omn				
ESC Client Nur	mber:	619					-						5.A),		ee C				
Sam	iple Ideni	tification		Sample	Collection			Sample (	Containers	3		(3.)	-N(1	(16.C	ls (S				
Identificat	ion	ESC Control #	Date	Time	Туре	Matrix	Туре	Volume	Preserva	ative	#	BOD(3.)	NH3-N(15.A), NO3 + NO2(91.)	TKN(16.C)	Metals (See Comments)				
Irrigatio	n Water	2107010259	07/2421	1155	Grab	Wwater	Plastic	1 Liter	Cool ≤ 6° C	;	1	Х				$\Box$			
				1	Grab	Wwater	Plastic	8 oz	Cool ≤ 6° C, H2SO4 to pH <2		1		Х	Х		$\neg \uparrow$			
			4	<u>L.</u>	Grab	Wwater	Plastic	8 oz	HNO3 to pl	H <2	1				Х	$\neg \uparrow$			
										·									
																$\neg$	$\neg$		
																	$\neg$	$\neg \uparrow$	
																$\neg$	$\neg$	_	
											1					_	_	-	
Relinquished By: (Signati	ure and Printed I	Name)	Date	Time	Received By: (Sig	nature and Printed	Name)		Date	Time	е		ody Sea						
Relinquished By: (Signatu	ure and Printed I	Name)	Date	Time	Received By: (Sig	nature and Printed	Name)		Date	Time	e	Used? Turna	? around:	4		Intact	?		
Relinguished By: (Signate	ire and Printed I	Name)	. Datal	Time	Possived for Lab	Du (Cianalus and	District					Regul		Ú		Speci			
DallePR	-CEDA	Name) AND PIERCE	7/28/21	1640	Received for Lab By: (Signature and Printed Name)  Date  Time  1/126/12; 1640							sampl Yes	les pro	perly i		ved: Vo			
				(00 1 11 10 )		Fløw Da	ata <i>j</i>	Fjeld Test	7. Time	Analys	st	Resu	ult	Resu		Ĺ	Jnits		
Comments: N	d(48.HW),	50.15), Cu(29.HW), Z Pb(82.HW), 00.MD	n(30.HVV), A	(s(33.HW), 3	Se(34.HW)	Analyst: Time:		pH: Conduct:	1620	BA		744	厾	Z		S.U. UMH	<u>08</u>		
						Reading:			1 8) 4.0	1700				141		2 1411 1			$\exists$
	****		***************************************			Units:						TL:	$=$ $\Box$		$\coprod$			<del>_</del> +	$\Box$
- 4. 1					<del></del>						L	INIS	Doc	umer	IE IS I	-age	<u></u>	of <u>L</u>	

Corporate Office 13715 West Markham Little Rock, AR 72211 Tel. (501)221-2565 Fax (501)221-1341 Northwest Arkansas Branch 1107 Century Avenue Springdale, AR 72762

Tel. (479)750-1170 Fax (479)750-1172

Control Number: 2111010350 Customer Name : CLINTON, EAST IW

Customer/Permit No. : 619 / AR0048836 001

Report Date : 12/15/21

Sample Date : 11/15/21 Sample Time : 1010

Sample Type : GRAB WWATER
Sample From : IRRIGATION WATER

Collected By: JGK Delivery By : JGK

Work Order : Purchase Order :

		Laboratory Analysi	<u>.s</u>			Quality 1	Assurance
Analysis						Precision	Accuracy
<u>Date Time By</u>	<u>Parameter</u>	Result	Notes _	Quantity	Method	% RPD	% Recovery
11/17 0935 SLL	BOD, 5-day	22.8 mg/I	ı		SM 2011 5210 B	4.33	108.0 *
11/23 1104 SLL	Ammonia as N, (HACH/SM)	8.23 mg/I	ı		SM 2011 4500-NH3-G	0.00	103.0 *
11/29 0550 NTR	Total Kjeldahl Nitrogen	15.1 mg/I	ı		02/2014 HACH 10242	4.17	96.0 *
11/15 1015 JGK	рН	8.0 S.U.			SM 2011 4500-H+B	0.00	N/A *
11/18 0000 NTR	Copper	< 0.0200 mg/I	ı		EPA 200.8	0.44	96.6 *
11/18 0000 NTR	Zinc	< 0.0500 mg/I	1		EPA 200.8	0.96	90.0 *
11/18 0000 NTR	Arsenic	< 0.0100 mg/I	i		EPA 200.8	0.01	88.6 *
11/18 0000 NTR	Selenium	< 0.0150 mg/I	ı		EPA 200.8	1.70	89.7 *
11/15 1015 JGK	Electric Conductivity	215.00 umhc	/c		EPA 9050A(MOD)	0.00	100.0 *
11/18 0000 NTR	Cadmium	< 0.0200 mg/I	j.		EPA 200.8	0.44	87.0 *
12/14 1200 NTR	Mercury	< 0.0050 mg/I	J		EPA 245.1	4.45	81.6 *
11/18 0000 NTR	Lead	< 0.0100 mg/I	1		EPA 200.8	0.25	93.1 *
12/01 1000 NTR	Nitrate + Nitrite	4.11 mg/I	ı		HACH 10206	5.29	95.5

All equipment used is checked and/or calibrated daily. All NPDES testing is conducted in accordance with 40 CFR Part 136. A minimum of 10% spiked and duplicate samples is run on each parameter where applicable for Quality Assurance purposes. Quality Assurance Plan on file with Arkansas Department of Environmental Quality. Analysis time indicates the time of the start of the analytical batch in which the specific sample was included.

Signature



 $<sup>^{\</sup>star}$  QA data shown is from a different sample or standard on the same date.

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Springdale, Arkansas 479-750-1170

Carlsbad, New Mexico 575-887-1ESC

### **CHAIN OF CUSTODY**

	C	lient Information				Pi	roject Inf	ormation					Rec	ues	ted	Para	met	ers
Client:		Clinton, East IW			Permit/Pro	ject #:		AR00488	336									
Address:		P.O. Box 277			Purchase	Order #:												
		Clinton, AR 72031			Work Orde	er#							<u></u>					
Phone:		501-745-4320			Sampler N	ame(s):	TIME	mouns d	\`\.1	***************************************			02(6					
Fax:		501-745-2164			1	. ,			<u> </u>				Z   +		ents			
Contact:		Mr. Phil Graham			and Signa	ture(s):	$\overline{O}$						NO3		omn			
ESC Client Numb		619	***************************************		1		$\mathcal{T}$				$\neg$		ξ,		ee C			
		tification		Sample	Collection		ĺ	Sample (	Containers	<u> </u>	_	D(3.)	N (15)	16.C	S) SI			
Identification		ESC Control #	Date	Time	Туре	Matrix	Туре	Volume	T		#	BOD	NH3-N(15.A), NO3 + NO2(91.)	TKN(16.C)	Metals (See Comments)			
		2111010350	1415121	1010	Grab	Wwater	Plastic	1 Liter	Cool ≤ 6° C		1	X		<u> </u>	-		$\neg$	$\top$
irigation	vator	10111010 3-70	14(13112)	100	Grab	Wwater	Plastic	8 oz	Cool ≤ 6° C, H2SO4 to pH <2		1		Х	х			$\neg   $	
			十二		Grab	Wwater	Plastic	8 oz	HNO3 to p	H <2	1				Х	$\neg \dagger$	_	_
					- Orab	VVWater	1 183110	0 02	riivos to pi								$\dashv$	
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Relinquished By: (Signature	and Printed	Name)	Date	Time	Received By: (Si	gnature and Print	ed Name)	<u> </u>	Date	Tim	e	Custo	ody Se	als:				
	15:			Time	Received By: (Si				Date	Tim		Used	? around	NA		Intact		
Relinquished By: (Signature	and Printed	(Name)	Date	rime	Received By: (5)	gnature and Print	ed Name)		Date	Lim	- 1	Regu	1			Speci	al	7
Refinqu)shed By: (Signature			Date	Time	Received for Lab			e)	Date (1/1/2)	Tim 1600	е			les pr	operly	preser	grane	
J.10. J	' The	ench //	11(15/21	1601	Jun Um	Janus Telow I	Data	Field Test	Time	Analys	st	Resi	Yes ult	Resu	ılt		o Inits	
Comments: Met	tals: Hg	(50.15), Cu(29.HW),	Zn(30.HW),	As(33.HW),	Se(34.HW)	Analyst:		рН:	1015	TV	-	8-		8.0	0	S.U.		
Cd(	(48.HW)	, Pb(82.HW), 00.MD				Time: Reading:		Conduct356	1015	Di		21.	Σ	219	5	U MH	os	
						Units:												
									1633 Jari	SAT		This	Doc	ume	nt is	Page	70	of



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Northwest Arkansas Branch 1107 Century Avenue Springdale, AR 72762 Tel. (479)750-1170 Fax (479)750-1172

Control Number: 2103010321

Customer Name : CLINTON, EAST 001

Customer/Permit No. : 495 / AR0048836 001

Report Date : 03/25/21

Composite Date: 03/17/21 -03/18/21

Sample Time : 1000-1000/1350(03/18

Sample Type : COMP/GRAB WWATER Sample From : FINAL EFFLUENT

Collected By: PHIL GRAHAM/HMK

Delivery By : HMK

Work Order : Purchase Order :

Analysis		<u>Laboratory Analysis</u>				Assurance
Date Time By	Parameter	Result Notes	0	75 13 3	Precision	Accuracy
			Quantity	<u> Method</u>	% RPD	% Recovery
	Dissolved Oxygen	$9.30~{ m mg/L}$	86.80 #/day	HACH 10360 R1.2	0.11	N/A *
		1.38 mg/L	12.88 #/day	SM 2011 4500-NH3-G	0.78	101.0 *
03/18 1350 HMK	рH	8.2 S.U.	•	SM 2011 4500-H+B	0.00	N/A *
03/23 0940 ZWA	Solids, Total Suspended	< 2.50  mg/L	23.33 #/dav	SM 2011 2540 D	33.29	N/A *
03/18 1805 EDA	E. Coliforms	< 1.0 /100ml		06/2012 Colilert18		N/A
03/18 1805 EDA	Fecal Coliform	< 1.0 /100ml				,
		•		06/2012 Colilert18	0.00	N/A *
03/19 0917 EDA	BOD, Carbonaceous	< 2.0 mg/L	18.67 #/day	SM 2011 5210 B	14.63	127.0 *
				1		

Flow 1.120000 MGD

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<sup>\*</sup> QA data shown is from a different sample or standard on the same date.

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Springdale, Arkansas 479-750-1170

Carlsbad, New Mexico 575-887-1ESC

### **CHAIN OF CUSTODY**

	(	Client Information				Pr	oject Int	formatior	)		T	1	Req	ues	ted	Par	ame	eters	<del></del>
Client:		Clinton, East 001			Permit/Pro	ject #:		AR0048	836								$\Box$	T	
Address:		P.O. Box 277			Purchase (	Order #:								E)					
		Clinton, AR 72031			Work Orde	er#				***************************************				Coli(43.1E)					
Phone:		501-745-4320			Sampler N	ame(s):	Phil	brohan			$\dashv$			Щ					
Fax:		501-745-2164				. ,	Hay	don 11	allo	*****	$\neg$	<u></u>							
Contact:		Mr. Phil Graham			and Signati	ure(s):	00.	0 1			_	32(28		(43.					
ESC Client Nu	mber:	495 (3X per week)	······				1	The same	<u> </u>	***************************************		2	8	Coliform (43.1F)					
San	nple Iden			Samp	le Collection		T 1/4	Sample (	Containers			5	J(15.	Soli					
Identifica	tion	ESC Control #	Date	Time	Туре	Matrix	Туре	Volume	Ţ		#	CBOD(70.), TSS(28.)	ŅH3-N(15.A)	Fecal					
Final Efflo	uent	155,0105015	3-17-21	10 Am	24Hr. Comp	Wwater	Plastic	1/2 Gal	Cool < 6° C	-	-	X	Z			$\dashv$	$\dashv$		
7		1	3/10/01	10.AM	24Hr. Comp	Wwater	Plastic	<u> </u>	Cool ≤ 6* C, H2SO4 to pH <2	<u>_</u>	1	쉬	$\overline{}$	$\dashv$	$\dashv$	$\dashv$	$\dashv$	-	
			3/8/21	1360		Wwater	1	8 oz	<del> </del>		1	$\dashv$	X	$\exists$	$\dashv$	-+			
			1/2/01	100	Glab	vvwater	Plastic	100mls	Cool ≤ 6 °C	-  -	2	$\dashv$	$\dashv$	X	$\dashv$	$\dashv$	$\dashv$	_	
									<u> </u>		$\dashv$	<del> -</del>		$\dashv$	$\dashv$	$\dashv$	$\dashv$		
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												_	$\dashv$	<del>-</del>	_		_		
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Relinquished By: (Signat	un phil		3-17-21 Date	10 Am	Handler	- Kelly	, <i>H</i>	MP p classic	3/18/21	1354		sed?			-	Intact	? [		
		,	Date	Time	Received/By: (Sign	nature and Printed	Name)		Date	Time		urnar egula	round:	Ū⁄	/	Speci	- F		
Relinguished By. (8)gnat		11/	Date	Time	Received for Lab B				Date	Time			sample	es pro					
Hay de	· Kelly	#	3/18/21	[13:	Miller	/ Bey Du Flow Da		Field Test	3/18/74 Time	[75] Analyst		esul	Yes (	Result			lo Jnits	丄	_
Comments:				M		Analyst: I-W	ر آگ	Grab pH:	1369	Hul		الر.		8.1°		S.U.	mits		_
	·····	***************************************				Time: 1351 Reading: 1,1	2	Grab DO:	<u> </u>	T.		1.3		9.8					
						Units: MG1	<u>+</u> ()	E Coli Start	1805	EDA	+		+		+				_
								Fecal Start:	1805	EDA	T	his I	Docu	ımen	t is F	<sup>2</sup> age		<u></u>	

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Corporate Office 13715 West Markham Little Rock, AR 72211 Tel. (501)221-2565 Fax (501)221-1341

Northwest Arkansas Branch 1107 Century Avenue Springdale, AR 72762 Tel. (479)750-1170 Fax (479)750-1172

Control Number: 2101010237 Composite Date: 01/17/21 -01/18/21 Customer Name : CLINTON, EAST 001 Sample Time : 0900-0900/0900(01/18

Customer/Permit No. : 495 / AR0048836 001

Collected By: WGW Delivery By : WGW Work Order :

Report Date : 02/10/21

Sample Type : COMP/GRAB WWATER Sample From : FINAL EFFLUENT Purchase Order :

Analysis		Laboratory Analysis				Assurance
Analysis  Date Time By 01/18 0905 WGW 01/21 1100 AKA 01/18 0905 WGW 01/20 1020 AKA 01/19 0845 EDA 01/18 1653 BXW 01/18 1650 BXW 02/10 1247 KNM 01/20 0638 BXW	Phosphorus, Total (as P) Solids, Total Suspended E. Coliforms Fecal Coliform Cadmium		Ouantity 96.29 #/day 69.85 #/day 6.21 #/day 78.00 #/day 0.05 #/day 17.33 #/day	H/SM 11 10205/4500 SM 2011 4500-H+B HACH 10209	Precision     % RPD     0.00     3.44     0.00     1.25     22.39     0.00	Accuracy % Recovery N/A 97.2 * N/A 112.0 N/A * N/A N/A 109.1
01/19 1015 AKA	Nitrate + Nitrite	0.45 mg/L	3.90 #/day	HACH 10206	9.23	88.0 102.0 *

Flow 1.040000 MGD

N3 The sample detection is too low to permit accurate quantification, but estimated concentration is less than the laboratory PQL and greater than the laboratory method detection limit. \* QA data shown is from a different sample or standard on the same date.

- (b) Exceeds Permit Limits for Average Concentration
- (c) Exceeds Permit Limits for Average Quantity

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Phone: 501-221-2565 Fax: 501-221-1341



Springdale, Arkansas 479-750-1170

Carlsbad, New Mexico 575-887-1ESC

### **CHAIN OF CUSTODY**

	С	lient Information				Pro	oject Inf	ormation					Req	ues	ted	Paran	netei	rs
Client:		Clinton, East 001			Permit/Pro	ject #:		AR00488	836									
Address:		P.O. Box 277			Purchase (	Order #:								3.IE)				
-		Clinton, AR 72031			Work Orde	er#								Coli(43.IE)				
Phone:		501-745-4320			Sampler N	ame(s):	Willia	130/ 20	loughb	1				E.C				
Fax:		501-745-2164				, ,		ininklitid I	1 197			8.)		.IF),	<			
Contact:		Mr. Phil Graham		·	and Signat	ure(s):	101 Min	N: 10pm	Alu/	***************************************		SS(28.)		า (43	KNM			
ESC Client Nu		495 (3X per week)	***************************************	······································			W. C. C.	1 /2 47 · 3p	1/			0.), T	(A.	iforn	$\mathcal{Z}$			
San	nple Ident			Sample	Collection		l	Sample (	Container	S	_	7)(	N(15	Col	× 1			
Identifica		ESC Control #	Date	Time	Туре	Matrix	Туре	Volume	Preserva		#	CBO	NH3-N(15.A)	Fecal Coliform (43.1F),	7			
Final Effl	uent W	2101016250	1/17/21-1/18/21	0900-0960	24Hr. Comp	Wwater	Plastic	1/2 Gal	Cool ≤ 6° (		1	X					+	
1		401010237	" .L "	\1 L "	24Hr. Comp	Wwater	Plastic	8 oz	Cool < 6° C, H2SO4 to pH <2		1		х				1	
		1	1/18/21	0900	Grab	Wwater	Plastic	100mls	Cool <10° C. Na2S2O3		2		7.	Х			+	
		1	1.1	C400-E900	24 HRComp		l	80Z	HN03 F	1/2					$\overline{\mathbf{X}}$		1	
			711194	0.00 0.00	21 TRACTO	Worker	PATIC	802	HINOST	711-6	_						+	1
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Relinguished By: (Signa	ture and Printed	Name) Name)	\(18/21	Time 1626	Received for Lab E				Date	Time					operly	preserved		-
Who I was a	Toma	n Willoughor	TUDIE	11660	January 1	Benjam.		Field Test	1/18/21 Time	1626 Analys		Resu	Yes ilt	√ Resu	lt	No Uni	ts	$oldsymbol{\perp}$
Comments:					可尖尖面	Analyst:		Grab pH:	0905	WEW		8.0	)	8.0	}	S.U.		
<b></b>	***************************************					Time: Reading:		Grab DO:	0905	MOM		11.1	lacksquare	11.1		mg/L		
Metals	s aliau	oted from (	imposi-	12 P	77 <b>7</b> 13	Units:		E Coli Start	1653	BXU						<del></del>	······································	
ILNA	\							Fecal Start:	1650	BXW		This	Doc	ume	nt is	Page <u>1</u>	of l	



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Northwest Arkansas Branch 1107 Century Avenue Springdale, AR 72762 Tel. (479)750-1170 Fax (479)750-1172

Control Number: 2103010415

Customer Number: 3004

Customer Name: CLINTON, EAST 40.24 LA PB 3

Report Date : 04/24/21

Sample Date : 03/19/21

Sample Time: 1155

Sample Type : GRAB SOIL

Sample From : EAST LA 40.24 PB3

Collected By: HMK Delivery By : HMK

Work Order : Purchase Order:

	<u>L</u>	aboratory Analysi:	<u>s</u>			Quality 1	Assurance
Analysis						Precision	Accuracy
<u>Date Time By</u>	Parameter	Result	<u>Notes</u>	Quantity	<u> Method</u>	% RPD	% Recovery
04/14 1220 AKA	Ammonia Nitrogen	0.1800 mg/kg	g		SM 1997 4500-NH3 C	7.21	96.3 *
04/13 1809 KNM	Mercury	0.0800  mg/Kg			SW846 7474 02/07	15.92	97.4
03/25 1345 EDA	Nitrate Nitrogen	718.350 mg/kg			SM 2000 4500-NO3 E	3.28	101.0 *
04/14 0745 KNM	Phosphorous, Total (as P)	1.9745 mg/kg			EPA 365.3	5.65	100.0 *
04/16 1121 KNM	Magnesium	799.24 mg/Kg			SW-846 6020A	6.29	110.8 *
04/16 1121 KNM	Potassium	743.67 mg/Kg	g		SW-846 6020A	4.78	97.3 *
03/23 1550 ZWA	pH Soil	6.40 S.U.			SW846 9045C	3.08	N/A
04/16 1121 KNM	Nickel	18.889 mg/Kg	g '		SW-846 6020A	4.01	108.4 *
04/16 1121 KNM	Copper	7.359 mg/Kg	g		SW-846 6020A	3.04	109.8 *
04/16 1121 KNM	Zinc	44.201 mg/Kg	g		SW-846 6020A	3.11	96.8 *
04/24 0800 KNM	Nitrogen, Plant Available	13.10 mg/kg	3		SM1997 4500 N		
04/16 1121 KNM	Arsenic	6.632 mg/Kg	g		SW-846 6020A	2.43	107.4 *
04/16 1132 KNM	Selenium	1.274 mg/Kg	3		SW-846 6020A	2.98	103.8 *
04/19 1550 ZWA	Specific Conductance	213.6459 umhos	3		EPA (MOD) 9050A	7.20	87.5
04/16 1132 KNM	Molybdenum	1.320 mg/Kg	3		SW-846 6020A	1.18	108.3 *
04/16 1121 KNM	Cadmium	< 0.017 mg/Kg	ā -		SW-846 6020A	3.65	107.8 *
03/22 1124 ZWA	Solids, % Total	74.441 %			SM 1997 2540 G	0.44	N/A *
04/16 1121 KNM	Lead	15.942 mg/Kg	3		SW-846 6020A	3.42	106.6 *
04/17 0800 KNM	Cation Exchange Capacity	14.2506 meg			EPA 9081		
04/17 0800 KNM	Sodium Absorption Ratio	0.1777 Ratio	)		AGRN 724		
* QA data sho	wn is from a different sampl	e or standard on t	the same	date.			

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Signature

Corporate Office 13715 West Markham Little Rock, AR 72211 Tel. (501)221-2565 Fax (501)221-1341

Northwest Arkansas Branch 1107 Century Avenue Springdale, AR 72762 Tel. (479)750-1170 Fax (479)750-1172

Control Number: 2103010416

Customer Name : CLINTON, EAST 40.24 LA PB 30

Customer Number: 3003

Report Date: 04/24/21

Sample Date : 03/19/21 Sample Time : 1210

Sample Type : GRAB SOIL

Sample From : EAST LA 40.24 PB30

Collected By: HMK Delivery By : HMK

Work Order : Purchase Order :

	<u>L</u> ā	boratory Analysis				Quality 1	<u>Assurance</u>
Analysis						Precision	Accuracy
<u>Date Time By</u>	<u>Parameter</u>	Result	Notes _	Quantity	Method	% RPD	% Recovery
04/14 1220 AKA	Ammonia Nitrogen	0.3120 mg/kg			SM 1997 4500-NH3 C	7.21	96.3 *
04/13 1809 KNM	Mercury	0.1530 mg/Kg			SW846 7474 02/07	15.92	97.4 *
03/25 1345 EDA	Nitrate Nitrogen	75.810 mg/kg			SM 2000 4500-NO3 E	3.28	101.0 *
04/14 0745 KNM	Phosphorous, Total (as P)	1.1125 mg/kg			EPA 365.3	5.65	100.0 *
04/16 1127 KNM	Magnesium	1745.20 mg/Kg			SW-846 6020A	6.29	110.8 *
04/16 1127 KNM	Potassium	1146.90 mg/Kg			SW-846 6020A	4.78	97.3 *
03/23 1550 ZWA	pH Soil	6.90 S.U.			SW846 9045C	3.08	N/A *
04/16 1127 KNM	Nickel	31.567 mg/Kg			SW-846 6020A	4.01	108.4 *
04/16 1127 KNM	Copper	20.893 mg/Kg			SW-846 6020A	3.04	109.8 *
04/16 1127 KNM	Zinc	114.311 mg/Kg			SW-846 6020A	3.11	96.8 *
04/24 0800 KNM	Nitrogen, Plant Available	23.80 mg/kg			SM1997 4500 N		
04/16 1127 KNM	Arsenic	12.436 mg/Kg			SW-846 6020A	2.43	107.4 *
04/16 1132 KNM	Selenium	3.439 mg/Kg			SW-846 6020A	2.98	103.8 *
<b>04/19 1550 ZWA</b>	Specific Conductance	299.7150 umhos			EPA (MOD) 9050A	7.20	87.5 *
04/16 1132 KNM	Molybdenum	3.628 mg/Kg			SW-846 6020A	1.18	108.3 *
04/16 1127 KNM	Cadmium	< 0.047 mg/Kg			SW-846 6020A	3.65	107.8 *
03/22 1124 ZWA	Solids, % Total	28.816 %			SM 1997 2540 G	0.44	N/A *
04/16 1127 KNM	Lead	24.773 mg/Kg			SW-846 6020A	3.42	106.6 *
04/17 0800 KNM	Cation Exchange Capacity	32.4005 meg			EPA 9081		, , , , ,
04/17 0800 KNM	Sodium Absorption Ratio	0.4248 Ratio			AGRN 724		
* QA data sho	wn is from a different sample	or standard on the	ne same	date.			

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Signature

Corporate Office 13715 West Markham Little Rock, AR 72211 Tel. (501)221-2565 Fax (501)221-1341 Northwest Arkansas Branch 1107 Century Avenue Springdale, AR 72762 Tel. (479)750-1170 Fax (479)750-1172

Control Number: 2103010417

Customer Name: CLINTON, EAST 55.57 LA PB 10

Customer/Permit No. : 511 / AR0048836 001

Report Date : 04/24/21

Sample Date : 03/19/21

Sample Time: 1115

Sample Type : GRAB SOIL Sample From : EAST LA 55.57 PB10

Collected By: HMK Delivery By : HMK

Work Order : Purchase Order :

		Laboratory Analysis				Quality	Assurance
Analysis						Precision	Accuracy
<u>Date Time By</u>	<u>Parameter</u>	Result	Notes _	Quantity	Method	% RPD	% Recovery
04/14 1220 AKA	Ammonia Nitrogen	0.4100 mg/kg			SM 1997 4500-NH3 C	7.21	96.3 *
04/07 1818 KNM	Mercury	< 0.0450 mg/Kg			SW846 7474 02/07	19.02	80.9 *
03/25 1345 EDA	Nitrate Nitrogen	176.080 mg/kg			SM 2000 4500-NO3 E	3.28	101.0 *
04/14 0745 KNM	Phosphorous, Total (as P)	0.5872 mg/kg	•		EPA 365.3	5.65	100.0 *
04/16 1132 KNM	Magnesium	589.61 mg/Kg			SW-846 6020A	6.29	110.8 *
04/16 1132 KNM	Potassium	458.23 mg/Kg			SW-846 6020A	4.78	97.3 *
03/23 1550 ZWA	pH Soil	6.80 S.U.			SW846 9045C	3.08	N/A *
04/16 1132 KNM	Nickel	9.919 mg/Kg			SW-846 6J20A	4.01	108.4 *
04/16 1132 KNM	Copper	5.095 mg/Kg			SW-846 6020A	3.04	109.8 *
04/16 1132 KNM	Zinc	28.706 mg/Kg			SW-846 6020A	3.11	96.8 *
04/24 0800 KNM	Nitrogen, Plant Available	8.11 mg/kg			SM1997 4500 N		
04/16 1132 KNM	Arsenic	3.628 mg/Kg			SW-846 6020A	2.43	107.4 *
04/16 1132 NTR	Selenium	1.781 mg/Kg			SW-846 6020A	2.98	108.5 *
04/19 1550 ZWA	Specific Conductance	221.7245 umhos			EPA (MOD) 9050A	7.20	87.5 *
04/16 1132 KNM	Molybdenum	1.677 mg/Kg			SW-846 6020A	1.18	108.3 *
04/16 1132 KNM	Cadmium	< 0.024 mg/Kg			SW-846 6020A	3.65	107.8 *
03/22 1124 ZWA	Solids, % Total	72.108 %			SM 1997 2540 G	0.44	N/A *
04/16 1132 KNM	Lead	9.206 mg/Kg			SW-846 6020A	3.42	106.6 *
04/17 0800 KNM	Cation Exchange Capacity	10.3785 meg			EPA 9081		
04/17 0800 KNM	Sodium Absorption Ratio	0.2123 Ratio			AGRN 724		
* QA data sho	wn is from a different samp	le or standard on t	he same d	date.			

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Signature

Corporate Office 13715 West Markham Little Rock, AR 72211 Tel. (501)221-2565 Fax (501)221-1341 Northwest Arkansas Branch 1107 Century Avenue Springdale, AR 72762

Tel. (479)750-1170 Fax (479)750-1172

Control Number: 2103010418

Customer Name : CLINTON, EAST 55.57 LA PB 3

Customer Number: 3002 Report Date : 04/24/21

Sample Date : 03/19/21 Sample Time: 1125

Sample Type : GRAB SOIL

Sample From : EAST LA 55.57 PB3

Collected By: HMK Delivery By : HMK

Work Order : Purchase Order:

	<u>L</u> .	aboratory Analysis	<u>.</u>			Quality A	<u>Assurance</u>
Analysis						Precision	Accuracy
<u>Date Time By</u>	<u>Parameter</u>	Result	<u>Notes</u>	Quantity	Method	% RPD	% Recovery
04/14 1220 AKA	Ammonia Nitrogen	0.6620  mg/kg	ı		SM 1997 4500-NH3 C	7.21	96.3 *
04/07 1818 KNM	Mercury	< 0.0310 mg/Kg	ſ		SW846 7474 02/07	19.02	80.9 *
03/25 1345 EDA	Nitrate Nitrogen	202.960 mg/kg	ſ		SM 2000 4500-NO3 E	3.28	101.0 *
04/14 0745 KNM	Phosphorous, Total (as P)	2.3153 mg/kg	ſ		EPA 365.3	5.65	100.0 *
04/16 1207 KNM	Magnesium	752.59 mg/Kg	ſ		SW-846 6020A	6.29	110.8 *
04/16 1207 KNM	Potassium	526.50 mg/Kg	ſ		SW-846 6020A	4.78	97.3 *
03/23 1550 ZWA	pH Soil	6.90 S.U.			SW846 9045C	3.08	N/A *
04/16 1207 KNM	Nickel	13.158 mg/Kg	ſ		SW-846 6020A	4.01	108.4 *
04/16 1207 KNM	Copper	5.939 mg/Kg	ſ		SW-846 6020A	3.04	109.8 *
04/16 1207 KNM	Zinc	39.203 mg/Kg	ſ		SW-846 6020A	3.11	96.8 *
04/24 0800 KNM	Nitrogen, Plant Available	7.21 mg/kg	ſ		SM1997 4500 N		
04/16 1207 KNM	Arsenic	4.459 mg/Kg	Г		SW-846 6020A	2.43	107.4 *
04/16 1132 KNM	Selenium	2.218 mg/Kg	Г		SW-846 6020A	2.98	103.8 *
04/19 1550 ZWA	Specific Conductance	199.6038 umhos	1		EPA (MOD) 9050A	7.20	87.5 *
04/16 1132 KNM	Molybdenum	1.950 mg/Kg	ſ		SW-846 6020A	1.18	108.3 *
04/16 1207 KNM	Cadmium	< 0.028 mg/Kg	ſ		SW-846 6020A	3.65	107.8 *
03/22 1124 ZWA	Solids, % Total	76.030 %			SM 1997 2540 G	0.44	N/A *
04/16 1207 KNM	Lead	9.530 mg/Kg	ſ		SW-846 6020A	3.42	106.6 *
04/17 0800 KNM	Cation Exchange Capacity	12.7056 meg			EPA 9081		
04/17 0800 KNM	Sodium Absorption Ratio	0.3140 Ratio	1		AGRN 724		
* QA data sho	wn is from a different sample	e or standard on t	he same	date.			

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Sample Date : 03/19/21

Corporate Office 13715 West Markham Little Rock, AR 72211 Tel. (501)221-2565 Fax (501)221-1341

Northwest Arkansas Branch 1107 Century Avenue Springdale, AR 72762

Tel. (479)750-1170 Fax (479)750-1172

Control Number: 2103010419

Customer Name : CLINTON, EAST 55.57 LA PB 30

Customer Number: 3001

Report Date : 04/24/21

Sample Type : GRAB SOIL

Sample Time: 1140

Sample From : EAST LA 55.57 PB30

Collected By: HMK Delivery By : HMK

Work Order : Purchase Order:

		Laboratory Analysis	: :			Quality A	Assurance
Analysis						Precision	Accuracy
Date Time By	<u>Parameter</u>	Result	Notes	Quantity	Method	% RPD	% Recovery
04/14 1220 AKA	Ammonia Nitrogen	0.1960 mg/kg			SM 1997 4500-NH3 C	7.21	96.3 *
04/07 1818 KNM	Mercury	< 0.0440 mg/Kg			SW846 7474 02/07	20.56	80.9 *
03/25 1345 EDA	Nitrate Nitrogen	291.360 mg/kg			SM 2000 4500-NO3 E	3.28	101.0 *
04/14 0745 KNM	Phosphorous, Total (as P)	1.4577 mg/kg			EPA 365.3	5.65	100.0 *
04/16 1156 KNM	Magnesium	612.17 mg/Kg			SW-846 6020A	6.29	110.8 *
04/16 1156 KNM	Potassium	693.62 mg/Kg			SW-846 6020A	4.78	97.3 *
03/23 1550 ZWA	pH Soil	6.60 S.U.			SW846 9045C	3.08	N/A *
04/16 1156 KNM	Nickel	10.643 mg/Kg			SW-846 6020A	4.01	108.4 *
04/16 1156 KNM	Copper	3.656 mg/Kg			SW-846 6020A	3.04	109.8 *
04/16 1156 KNM	Zinc	25.087 mg/Kg			SW-846 6020A	3.11	96.8 *
04/24 0800 KNM	Nitrogen, Plant Available	8.56 mg/kg			SM1997 4500 N	•••	30.0
04/16 1156 KNM	Arsenic	4.508 mg/Kg			SW-846 6020A	2.43	107.4 *
04/16 1132 KNM	Selenium	2.247 mg/Kg			SW-846 6020A	2.98	103.8 *
04/19 1550 ZWA	Specific Conductance	245.5300 umhos			EPA (MOD) 9050A	7.20	87.5 *
04/16 1132 KNM	Molybdenum	1.977 mg/Kg			SW-846 6020A	1.19	108.2 *
04/16 1156 KNM	Cadmium	< 0.028 mg/Kg			SW-846 6020A	3.65	107.8 *
03/22 1124 ZWA	Solids, % Total	70.386 %			SM 1997 2540 G	0.44	N/A *
04/16 1156 KNM	Lead	10.051 mg/Kg			SW-846 6020A	3.42	106.6 *
04/17 0800 KNM	Cation Exchange Capacity	55.6369 meg			EPA 9081	J. 15	100.0
04/17 0800 KNM	Sodium Absorption Ratio	0.0676 Ratio			AGRN 724		
* QA data sho	wn is from a different samp	le or standard on th	he same da	ate.			

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Corporate Office 13715 West Markham Little Rock, AR 72211 Tel. (501)221-2565 Fax (501)221-1341

Northwest Arkansas Branch 1107 Century Avenue Springdale, AR 72762

Tel. (479)750-1170 Fax (479)750-1172

Control Number: 2103010420

Customer Name : CLINTON, EAST LA AIRPORT9

Customer Number : 2959

Report Date : 04/24/21

Sample Date : 03/19/21

Sample Time : 1250

Sample Type : GRAB SOIL

Sample From : EAST LA AIRPORT9

Collected By: HMK Delivery By : HMK

Work Order : Purchase Order :

_		Laboratory Analysis				Ouality	Assurance
Analysis						Precision	Accuracy
Date Time By	Parameter	Result	Notes	Quantity	Method	% RPD	% Recovery
04/14 1220 AKA	Ammonia Nitrogen	4.2550 mg/kg			SM 1997 4500-NH3 C	7.21	96.3 *
04/07 1818 KNM	Mercury	< 0.0440 mg/Kg			SW846 7474 02/07	20.56	80.9 *
03/25 1345 EDA		323.640 mg/kg			SM 2000 4500-NO3 E	3.28	101.0
04/14 0745 KNM		< 0.2567 mg/kg			EPA 365.3	5.65	100.0 *
04/16 1202 KNM	Magnesium	396.40 mg/Kg			SW-846 6020A	6.29	110.8 *
04/16 1202 KNM	Potassium	375.01 mg/Kg			SW-846 6020A	4.78	97.3 *
03/23 1550 ZWA	pH Soil	7.10 S.U.			SW846 9045C	3.08	N/A *
04/16 1202 KNM	Nickel	8.489 mg/Kg			SW-846 6020A	4.01	108.4 *
04/16 1202 KNM	Copper	3.528 mg/Kg			SW-846 6020A	3.04	109.8 *
04/16 1202 KNM	Zinc	16.986 mg/Kg			SW-846 6020A	3.11	96.8 *
04/24 0800 KNM	Nitrogen, Plant Available	6.12 mg/kg			SM1997 4500 N	3.11	90.0 "
04/16 1202 KNM	Arsenic	3.933 mg/Kg			SW-846 6020A	2.43	107.4 *
04/16 1132 KNM	Selenium	1.682 mg/Kg			SW-846 6020A	19.97	108.5
04/19 1550 ZWA	Specific Conductance	97.4922 umhos			EPA (MOD) 9050A	7.20	87.5 *
04/16 1132 KNM	Molybdenum	1.473 mg/Kg			SW-846 6020A	1.19	108.2 *
04/16 1202 KNM	Cadmium	< 0.021 mg/Kg			SW-846 6020A	3.65	107.8 *
03/22 1124 ZWA	Solids, % Total	77.862 %			SM 1997 2540 G	0.44	
04/16 1202 KNM	Lead	7.595 mg/Kg			SW-846 6020A	3.42	N/A *
04/17 0800 KNM	Cation Exchange Capacity	9.2592 meq			EPA 9081	3.42	106.6 *
04/17 0800 KNM	Sodium Absorption Ratio	0.1891 Ratio			AGRN 724		
		07.037 114010			AGM /24		
* QA data sho	wn is from a different samp	le or standard on th	ne same o	date.			

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Northwest Arkansas Branch 1107 Century Avenue Springdale, AR 72762

Tel. (479)750-1170 Fax (479)750-1172

Control Number: 2103010421

Customer Name : CLINTON, EAST LA WD13

Customer Number: 2960

Report Date : 04/24/21

Sample Date : 03/19/21

Sample Time: 1320

Sample Type : GRAB SOIL Sample From : EAST LA WD13

Collected By: HMK Delivery By : HMK

Work Order : Purchase Order:

		Laboratory Analysis				Quality A	Assurance
Analysis						Precision	Accuracy
<u>Date Time By</u>	Parameter	Result	Notes _	Quantity	Method	% RPD	% Recovery
04/14 1220 AKA	Ammonia Nitrogen	0.0290 mg/kg			SM 1997 4500-NH3 C	7.21	96.3 *
04/07 1818 KNM	Mercury	0.0560 mg/Kg			SW846 7474 02/07	19.02	80.9 *
03/24 1600 EDA	Nitrate Nitrogen	6.564 mg/kg			SM 2000 4500-NO3 E	0.54	100.0 *
04/14 0745 KNM	Phosphorous, Total (as P)	0.1101 mg/kg			EPA 365.3	4.67	100.0
04/16 1213 KNM	Magnesium	735.81 mg/Kg			SW-846 6020A	6.29	110.8 *
04/16 1213 KNM	Potassium	674.19 mg/Kg			SW-846 6020A	15.19	97.3 *
<b>0</b> 3/23 1550 ZWA	pH Soil	6.80 S.U.			SW846 9045C	3.08	N/A *
04/16 1213 KNM	Nickel	13.396 mg/Kg			SW-846 6020A	4.92	108.4 *
04/16 1213 KNM	Copper	4.988 mg/Kg			SW-846 6020A	3.61	109.8 *
04/16 1213 KNM	Zinc	31.241 mg/Kg			SW-846 6020A	5.01	96.8 *
04/24 0800 KNM	Nitrogen, Plant Available	5.37 mg/kg			SM1997 4500 N		
04/16 1213 KNM	Arsenic	5.415 mg/Kg			SW-846 6020A	2.93	107.4 *
04/16 1132 KNM	Selenium	2.699 mg/Kg			SW-846 6020A	19.97	108.5 *
<b>0</b> 4/19 1550 ZWA	Specific Conductance	402.1440 umhos			EPA (MOD) 9050A	7.20	87.5 *
04/16 1132 KNM	Molybdenum	2.538 mg/Kg			SW-846 6020A	1.19	108.2 *
04/16 1213 KNM	Cadmium	< 0.038 mg/Kg			SW-846 6020A	3.70	107.8 *
03/22 1124 ZWA	Solids, % Total	76.395 %			SM 1997 2540 G	0.44	N/A *
04/16 1213 KNM	Lead	9.896 mg/Kg			SW-846 6020A	4.02	106.6 *
04/17 0800 KNM	Cation Exchange Capacity	12.8939 meg			EPA 9081		
04/17 080 KNM	Sodium Absorption Ratio	0.2225 Ratio			AGRN 724		
				<i>2</i> 1			
* QA data sho	wn is from a different samp	le or standard on t	he same	date.	į		

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Signature

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mental Services Company, Inc. Corporate Office

13715 West Markham Little Rock, AR 72211 P.O. Box 55146

Little Rock, AR 72215

website: www.esclabs.com

Phone: 501-221-2565

Fax: 501-221-1341



Springdale, Arkansas 479-750-1170

Carlsbad, New Mexico 575-887-1ESC

### **CHAIN OF CUSTODY**

	(	Client Information				Project Information Requ							ues	ted	Par	ame	eters	IDECEDIO	
Client:		Clinton, City of (Ea	st Land Ap	p)	Permit/Pro	oject #:													
Address:		P.O. Box 277			Purchase	Order #:							6						
_		Clinton, AR 72031			Work Ord	er#			3.0	<del></del>		ts)	\$(01	35.M	ĝ				
Phone:		501-745-4320			Sampler N	Name(s):	Han	den Lally				ueu	Pho	nd(3	33.4				
Fax:		Mr. Phil Graham			1	` ,	1-16	CHE FRINT				Comments)	Nitrogen(01.3), Phos(01.9)	Ö	PAN(33.AN)				
Contact:		501-745-2164			and Signa	ture(s):	-n						n(0)	Spe					
ESC Client Nu	mber:	Various	······································	······································	1							(See	roge	3.S),	Ammonia(01.1),				
San	nple Ider	ntification		Sample	Collection	03147814844844444444444444444444444444444		Sample	Container	S		10	e Zi	H(2;	noni				
Identifica	tion	ESC Control #	Date	Time	Туре	Matrix	Туре	Volume	Preserva		#	Metals	Nitrate	Soil pH(23.S), Spec Cond(35.M)	Amr				
East LA 40.24 PB:	3 (3004)	2103010415	3/19/21	1155	Grab	Soil	Glass	1 Liter	Cool ≤ 6° (		1	<u>-</u>	X	X	Х				
East LA 40.24 PB:	30 (3003)	2103910416	į	1210	Grab	Soil	Glass	1 Liter	Cool ≤ 6° (		1	Х	Х	X	Х				
East LA 55.57 PB	10 (511)	2103010417		1115	Grab	Soil	Glass	1 Liter	Cool ≤ 6° (		1	Х	Х	X	X				******
East LA 55.57 PB3	3 (3002)	2103010418		1125	Grab	Soil	Glass	1 Liter	Cool ≤ 6° C		1	Х	х	х	X	$\neg \uparrow$			
East LA 55.57 PB3	30 (3001)	2103010419		1140	Grab	Soil	Glass	1 Liter	Cool ≤ 6° C		1	Х	Х	Х	X				
East LA Airport9 (2	2959)	2103010420		1250	Grab	Soil	Glass	1 Liter	Cool ≤ 6° C		1	Х	Х	Х	x				
East LA WD13 (29	60)	2103010471	ىلى	1320	Grab	Soil	Glass	1 Liter	Cool ≤ 6° C		1	X	Х	Х	X		$\neg$		
											T					$\neg$			
Relinquished By: (Signal	ture and Printed	d Name)	Date	Time	Received By: (Si	gnature and Printe	d Name)		Date	Time	ı	Custo Used	dy Se	als:		Intac	12 [		
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Relinquished By /Signat	ture and Primed	i Name)	3/19/2/	Time 1643		Received for Lab By: (Signature and Printed Name)  Date  Many 13ey 0min (vg 3/19/2)				Time				les pro	pérly		L		
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Comments: H	ig(01.14), M s(33.HS), C	In(12.HS), K(19.HS), Ni( 2d(48.HS), Pb(82.HS), 00	28.HS), Cu(29 0.MS	J.HS), Zn(30.1	HS)	Analyst: Time:					$\dashv$								
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Corporate Office 13715 West Markham Little Rock, AR 72211 Tel. (501)221-2565 Fax (501)221-1341

Northwest Arkansas Branch 1107 Century Avenue Springdale, AR 72762 Tel. (479)750-1170 Fax (479)750-1172

Control Number: 2103010411

Customer Name : CLINTON, EAST GW13

Customer/Permit No. : 507 / AR0048836 001

Report Date : 04/08/21

Sample Date : 03/19/21

Sample Time : 1100

Sample Type : GRAB WELL Sample From : CLINTON WELL #13 Collected By: HMK Delivery By: HMK

Work Order : Purchase Order :

	Quality Assurance						
Analysis						Precision	Accuracy
<u>Date Time By</u>	Parameter	Result	<u>Notes</u>	Quantity	Method	% RPD	% Recovery
03/23 1330 EDA	Chloride (as Cl)	9.9 mg/	L		SM 2011 4500 Cl C	0.00	89.9 *
03/19 1100 HMK	рН	6.5 S.U			SM 2011 4500-H+B	0.00	N/A
03/30 1542 BXW	Solids, Total Dissolved	249.0 mg/	L		SM 2011 2540 C	5.41	N/A *
03/19 1100 HMK	Spec. Conductance @ 25 C	213.000 umh	o/c		EPA 120.1	0.00	N/A
03/22 1331 BXW	Nitrate + Nitrite	0.55 mg/	L		HACH 10206	0.80	103.0
03/19 1100 HMK	Well Depth, Total	15.33 Fee	t			N/A	N/A
03/19 1100 HMK	Depth to Water	9.75 Fee	t			N/A	N/A
						,	21, 22

\* QA data shown is from a different sample or standard on the same date.

All equipment used is checked and/or calibrated daily. All NPDES testing is conducted in accordance with 40 CFR Part 136. A minimum of 10% spiked and duplicate samples is run on each parameter where applicable for Quality Assurance purposes. Quality Assurance Plan on file with Arkansas Department of Environmental Quality. Analysis time indicates the time of the start of the analytical batch in which the specific sample was included.

Signature

Environmental Services Co., Inc.

CNM

Corporate Office 13715 West Markham Little Rock, AR 72211 Tel. (501)221-2565 Fax (501)221-1341

Northwest Arkansas Branch 1107 Century Avenue Springdale, AR 72762

Tel. (479)750-1170 Fax (479)750-1172

Control Number: 2103010412

Customer Name : CLINTON. EAST GW14

Customer/Permit No. : 508 / AR0048836 001

Report Date : 04/08/21

Sample Date : 03/19/21

Sample Time : 1045

Sample Type : GRAB WELL

Sample From : CLINON WELL #14

Collected By: HMK Delivery By : HMK

Work Order : Purchase Order :

		Laboratory Analysis		Quality 1	Assurance
Analysis				Precision	Accuracy
<u>Date Time By</u>	Parameter	Result Notes Quantit	y Method	% RPD	% Recovery
	Chloride (as Cl)	< 0.5 mg/L	SM 2011 4500 Cl C	0.00	89.9 *
03/19 1045 HMK		5.9 S.U.	SM 2011 4500-H+B	0.00	N/A *
	Solids, Total Dissolved	164.0 mg/L	SM 2011 2540 C	0.60	N/A *
	Spec. Conductance @ 25 C	123.000 umho/c	EPA 120.1	0.00	N/A *
03/22 1331 BXW	Nitrate + Nitrite	7.73 mg/L	HACH 10206	0.80	103.0 *
03/19 1045 HMK	Well Depth, Total	13.08 Feet		N/A	N/A
03/19 1045 HMK	Depth to Water	9.33 Feet		N/A	N/A

All equipment used is checked and/or calibrated daily. All NPDES testing is conducted in accordance with 40 CFR Part 136. A minimum of 10% spiked and duplicate samples is run on each parameter where applicable for Quality Assurance purposes. Quality Assurance Plan on file with Arkansas Department of Environmental Quality. Analysis time indicates the time of the start of the analytical batch in which the specific sample was included.



<sup>\*</sup> QA data shown is from a different sample or standard on the same date.

Corporate Office 13715 West Markham Little Rock, AR 72211 Tel. (501)221-2565 Fax (501)221-1341 Northwest Arkansas Branch 1107 Century Avenue Springdale, AR 72762 Tel. (479)750-1170 Fax (479)750-1172

Control Number: 2103010413

Customer Name : CLINTON, EAST GW16

Customer/Permit No. : 509 / AR0048836 001

Report Date : 04/08/21

Sample Date : 03/19/21

Sample Time :

Sample Type : NO FLOW

Sample From :

Collected By: Delivery By:

Work Order : Purchase Order :

		Laboratory Analysi	<u>is</u>		Quality 1	<u>Assurance</u>
Analysis <u>Date</u> <u>Time</u> <u>By</u> 03/19	Parameter No Flow	Result 0	<u>Notes</u> <u>Quantity</u>	Method	Precision % RPD N/A	Accuracy <u>% Recovery</u> N/A

\* QA data shown is from a different sample or standard on the same date.

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Signature

Environmental Services Co., Inc

KNM

Corporate Office 13715 West Markham Little Rock, AR 72211 Tel. (501)221-2565 Fax (501)221-1341

Northwest Arkansas Branch 1107 Century Avenue Springdale, AR 72762

Tel. (479)750-1170 Fax (479)750-1172

Control Number: 2103010414

Customer Name : CLINTON. EAST GW17

Customer/Permit No. : 649 / AR0048747 001

Report Date : 04/08/21

Sample Date : 03/19/21

Sample Time : 1015

Sample Type : GRAB WELL

Sample From : CLINTON WELL #17

Collected By: HMK Delivery By : HMK

Work Order : Purchase Order :

	Quality Assurance					
Analysis					Precision	Accuracy
<u>Date Time By</u>	Parameter	<u>Result</u> <u>Note</u>	<u> Quantity</u>	Method	% RPD	% Recovery
03/23 1330 EDA	Chloride (as Cl)	< 0.5 mg/L		SM 2011 4500 Cl C	0.00	89.9 *
03/19 1015 HMK	рН	5.5 S.U.		SM 2011 4500-H+B	0.00	N/A *
03/30 1542 BXW	Solids, Total Dissolved	64.0 mg/L		SM 2011 2540 C	0.60	N/A *
03/19 1015 HMK	Spec. Conductance @ 25 C	109.000 umho/c		EPA 120.1	0.00	N/A *
03/22 1331 BXW	Nitrate + Nitrite	0.84 mg/L		HACH 10206	0.80	103.0 *
03/19 1015 HMK	Well Depth, Total	17.50 Feet		ļ	N/A	N/A
03/19 1015 HMK	Depth to Water	11.83 Feet			N/A	N/A

All equipment used is checked and/or calibrated daily. All NPDES testing is conducted in accordance with 40 CFR Part 136. A minimum of 10% spiked and duplicate samples is run on each parameter where applicable for Quality Assurance purposes. Quality Assurance Plan on file with Arkansas Department of Environmental Quality. Analysis time indicates the time of the start of the analytical batch in which the specific sample was included.

<sup>\*</sup> QA data shown is from a different sample or standard on the same date.



### Environmental Services Company Little Rock, AR 72211 Groundwater Monitoring Chain of Custody

Sampler Name(s): Haydenkelly and Signature:

Sample Date: 3/19/21

Sample Identification (Customer #)		Sample Time:	Depth To Water	Total Well Depth		F	ЭΗ		Sp	ecific C	onducta	nce			erature rees C		CI, TDS (1L Plastic \$ 6 Deg C)	NO3+N O2 (8 oz Plastic H2SO4)
Clinton W	·	-	·	<u></u>	#1	#2	#3	Time	#1	#2	#3	Time	#1	#2	#3	Time		
#13 (507)	2103010411	1100	9.9"	15′ 4″	65	6.5	6.4	[(@9	13	13	13	1100	12.7	13.4	129	1100	X	х
#14 (508)	2103010412	1045	9414	13′ 1″	5.9	5.9	5.9	126	23	30	29	(光)	11.9	123	120	1045	Х	х
#16 (509)	2103010413	NOFL	00	14′ 0″													x	х
#17 (649)	2103010414	1015	11'10"	17′ 6″	5.5	5.5	5.5	1015	49	49	49	1015	14,7	14.6	14.5	1015		х
															-			
										П								
Relinquished	by: Harden Le	that	Time:	19121	R	leceive	d By La	b: FM	WLF	1			Date	::3/19	9/21		ne: [7/	
Comments	: ' /	7							-1	,					<u> </u>		····· V	

NXW

Corporate Office 13715 West Markham Little Rock, AR 72211 Tel. (501)221-2565 Fax (501)221-1341 Northwest Arkansas Branch 1107 Century Avenue Springdale, AR 72762 Tel. (479)750-1170 Fax (479)750-1172

Control Number: 2106010566

Customer Name : CLINTON, EAST GW13

Customer/Permit No. : 507 / AR0048836 001

Report Date : 06/28/21

Sample Date : 06/24/21

Sample Time : 0850

Sample Type : GRAB WELL WATER Sample From : WELL#13

Collected By: WGW Delivery By: WGW

Work Order: Purchase Order:

		Laboratory Analysis	<u>s</u>			Quality A	Assurance
Analysis						Precision	Accuracy
<u>Date Time By</u>	<u>Parameter</u>	Result	Notes	Quantity	Method	% RPD	% Recovery
06/28 1035 BXW	Chloride (as Cl)	4.9 mg/L			SM 2011 4500 Cl C	0.00	100.0 *
06/24 0855 WGW	рН	7.2 S.U.			SM 2011 4500-H+B	0.00	N/A *
06/25 1020 AKA	Solids, Total Dissolved	56.7 mg/L			SM 2011 2540 C	6.14	N/A *
06/24 0855 WGW	Spec. Conductance @ 25 C	1027.000 umho,	/c		EPA 120.1	0.00	N/A *
06/28 0913 EJD	Nitrate + Nitrite	1.53 mg/L			HACH 10206	0.27	99.0 *
06/24 0855 WGW	Well Depth, Total	15.40 Feet				N/A	N/A
06/24 0855 WGW	Depth to Water	13.50 Feet				N/A	N/A

All equipment used is checked and/or calibrated daily. All NPDES testing is conducted in accordance with 40 CFR Part 136. A minimum of 10% spiked and duplicate samples is run on each parameter where applicable for Quality Assurance purposes. Quality Assurance Plan on file with Arkansas Department of Environmental Quality. Analysis time indicates the time of the start of the analytical batch in which the specific sample was included.

Signature

<sup>\*</sup> QA data shown is from a different sample or standard on the same date.

Corporate Office 13715 West Markham Little Rock, AR 72211 Tel. (501)221-2565 Fax (501)221-1341 Northwest Arkansas Branch 1107 Century Avenue Springdale, AR 72762

Tel. (479)750-1170 Fax (479)750-1172

Control Number: 2106010567

Customer Name : CLINTON, EAST GW14

Customer/Permit No. : 508 / AR0048836 001

Report Date : 06/28/21

Sample Date : 06/24/21

Sample Time : 0910

Sample Type : GRAB WELL WATER Sample From : WELL #14

Collected By: WGW Delivery By : WGW

Work Order : Purchase Order :

	Quality Assurance					
Analysis					Precision	Accuracy
<u>Date Time By</u>	Parameter	Result Notes	Quantity	Method	% RPD	% Recovery
06/28 1035 BXW	Chloride (as Cl)	< 0.5 mg/L		SM 2011 4500 Cl C	0.00	100.0 *
06/24 0915 WGW	рН	7.2 S.U.		SM 2011 4500-H+B	0.00	N/A *
06/25 1020 AKA	Solids, Total Dissolved	65.0 mg/L		SM 2011 2540 C	6.14	N/A *
06/24 0915 WGW	Spec. Conductance @ 25 C	101.000 umho/c		EPA 120.1	0.00	N/A *
06/28 0913 EJD	Nitrate + Nitrite	0.75 mg/L		HACH 10206	0.27	99.0 *
06/24 0915 WGW	Well Depth, Total	13.10 Feet			N/A	N/A
06/24 0915 WGW	Depth to Water	11.10 Feet			N/A	N/A

All equipment used is checked and/or calibrated daily. All NPDES testing is conducted in accordance with 40 CFR Part 136. A minimum of 10% spiked and duplicate samples is run on each parameter where applicable for Quality Assurance purposes. Quality Assurance Plan on file with Arkansas Department of Environmental Quality. Analysis time indicates the time of the start of the analytical batch in which the specific sample was included.

Signature

<sup>\*</sup> QA data shown is from a different sample or standard on the same date.

Corporate Office 13715 West Markham Little Rock, AR 72211 Tel. (501)221-2565 Fax (501)221-1341

Northwest Arkansas Branch 1107 Century Avenue Springdale, AR 72762 Tel. (479)750-1170 Fax (479)750-1172

Control Number: 2106010568

Customer Name : CLINTON, EAST GW16

Customer/Permit No. : 509 / AR0048836 001

Report Date : 07/01/21

Sample Date : 06/24/21

Sample Time : 0900 Sample Type : DRY WELL

Sample From :

Collected By: WGW

Delivery By :

Work Order : Purchase Order :

	Laboratory Analysis						
Analysis  Date Time By  06/24 0900 WGW	Parameter Dry Well	Result 1.00	<u>Notes</u>	Quantity	<u>Method</u>	Precision <u>% RPD</u> N/A	Accuracy % Recovery N/A

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Signature

Corporate Office 13715 West Markham Little Rock, AR 72211 Tel. (501)221-2565 Fax (501)221-1341

Northwest Arkansas Branch 1107 Century Avenue Springdale, AR 72762

Tel. (479)750-1170 Fax (479)750-1172

Control Number: 2106010569

Customer Name : CLINTON, EAST GW17

Customer/Permit No. : 649 / AR0048747 001

Report Date : 06/28/21

Sample Date : 06/24/21

Sample Time : 0830

Sample Type : GRAB WEEL WATER Sample From : WELL#17

Collected By: WGW Delivery By : WGW

Work Order : Purchase Order :

	Quality Assurance						
Analysis						Precision	Accuracy
<u>Date Time By</u>	<u>Parameter</u>	Result	Notes _	Quantity	Method	% RPD	% Recovery
06/28 1035 BXW	Chloride (as Cl)	< 0.5	mg/L		SM 2011 4500 Cl C	0.00	100.0 *
06/24 0835 WGW	рН	7.1	S.U.		SM 2011 4500-H+B	0.00	N/A *
06/25 1020 AKA	Solids, Total Dissolved	60.0	mg/L		SM 2011 2540 C	6.14	N/A *
06/24 0835 WGW	Spec. Conductance @ 25 C	69.200	umho/c		EPA 120.1	0.00	N/A *
06/28 0913 EJD	Nitrate + Nitrite	5.10	mg/L		HACH 10206	0.27	99.0 *
06/24 0835 WGW	Well Depth, Total	17.60	Feet			N/A	N/A
06/24 0835 WGW	Depth to Water	12.60	Feet			N/A	N/A

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<sup>\*</sup> QA data shown is from a different sample or standard on the same date.



## Environmental Services Company Little Rock, AR 72211 Groundwater Monitoring Chain of Custody

Sampler Name(s): William Willoughby and Signature: William Willoughby

Sample Date: 6/24/21

	Laboratory	T	Τ	T	T			Juill		te. vi	-1/01		T				1	
Sample Identification (Customer #	Control	Sample Time:	Depth To Water	Total Well Depth		p	Н		Sp	ecific Co	onducta	nce			erature ees C		CI, TDS (1L Plastic \$ 6 Deg C)	NO3+N O2 (8 oz Plastic H2SO4)
Clinton E			-		#1	#2	#3	Time	#1	#2	#3	Time	#1	#2	#3	Time		
#13 (507)	2104010566	6850	13:571	15′ 4″	7.2	7.2	7.2	0853	107.7	107.6	107.4	0895	25	25	25	0855	х	х
#14 (508)	2104010907	0910	1)'1"	13′ 1″	7.2	7.2		0915	1	1	ı	0915	1	25	20	0915	х	х
#16 (509)	2101001050	NoF	(094)	14′ 0′′													X	x
#17 (649)	210601050	0830	12'6"	17′ 6″	7.1	7.1	7.1	0835	69.2	69.2	69.0	6835	25	25	25	0835	X	X
										10 I.L	0.0						^_	
				<u></u>														
Relinquished	by: William Will	oughby	Time:	1333	> R	eceive	d By La	b: <i>[M</i>	my	ms	VP2	Dynu	Date	: 6/z	4/21	Tin	ne:13)3	7.50
Comments	•	1						/	11									

Corporate Office 13715 West Markham Little Rock, AR 72211 Tel. (501)221-2565 Fax (501)221-1341 Northwest Arkansas Branch 1107 Century Avenue Springdale, AR 72762

Tel. (479)750-1170 Fax (479)750-1172

Control Number: 2107010261

Customer Name : CLINTON, EAST GW13

Customer/Permit No. : 507 / AR0048836 001

Report Date : 07/30/21

Sample Date : 07/26/21

Sample Time : 1410

Sample Type : GRAB WATER Sample From : WELL#13

Collected By: DMP Delivery By : DMP

Work Order : Purchase Order :

		Laboratory Analysis		Quality A	<u>Assurance</u>
Analysis				Precision	Accuracy
Date Time By	Parameter	Result Notes Qu	antity Method	% RPD	% Recovery
07/30 1410 EJD	Chloride (as Cl)	10.0  mg/L	SM 2011 4500 Cl C	18.18	101.0
07/26 1415 DMP	На	6.3 S.U.	SM 2011 4500-H+B	0.00	N/A *
07/28 1125 AKA	Solids, Total Dissolved	106.7 mg/L	SM 2011 2540 C	3.05	N/A
07/26 1625 DMP	Spec. Conductance @ 25 C	167.000 umho/c	EPA 120.1	0.07	N/A *
07/27 1155 EJD	Nitrate + Nitrite	0.48 mg/L	HACH 10206	3.32	100.0 *
07/26 1410 DMP	Well Depth, Total	15.40 Feet		N/A	N/A
07/26 1410 DMP	Depth to Water	8.10 Feet		N/A	N/A

\* QA data shown is from a different sample or standard on the same date.

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Signature

Environmental Services Co., Inc

amental Services Company, Inc. Corporate Office

13715 West Markham

Company Name:

ESC Client Number:

Well #13

Relinquished By: (Signature and Printed Name)

Relinquished By: (Signature and Printed Name)

Cool all samples to < 6 degrees C with ice

Address:

Telephone:

Contact:

FAX:

P.O. Box 55146

Client Information

P.O. Box 277

501-745-4320

501-745-2164

Mr. Phil Graham

507

ESC Control #

210701026

Date

Date

Clinton, East GW13

Clinton, AR 72031

Little Rock, AR 72211

Little Rock, AR 72215

website: www.esclabs.com

Sample Identification

Phone: 501-221-2565 Fax: 501-221-1341

Environmental Services Com Northwest Branch 1107 Century Springdale, AR 72764

**CHAIN OF CUSTODY** 

Matrix

Water

Water

Analyst:

Reading: Units:

Chlorinated? Y N

Fecal Start:

Time:

Permit/Project #:

Purchase Order #:

Sampler Name(s):

and Signature(s):

Type

Grab

Grab

Sample Collection

Time

Time

Work Order #

Phone 479-750-1170 Fax 479-750-1172 Project Information Requested Parameters AR0048836 Chloride(7.) NO2 +NO3(91.) TDS(27.), Sample Containers # Type Volume Preservative Χ ≤ 6 Deg C **Plastic** 1 Liter Х Plastic H2SO4 1 Liter Received By: (Signature and Printed Name) Custody Seals: Used? Intact? Received By: (Signature and Printed Name) Date Time Turnaround Regular Special Received for Lab By: (Signature and Printed Name) Date Time Were samples properly preserved: my my Burn 176/21 1840 No Flow/ Data Field/Test Time Analyst Result Result Units pH: 5. V. DMP 167.0 167.0 U MHOS Sp Cond:

Total Depth-99.10: H20 Depth - 99.9:

Comments:

This Document is Page

Corporate Office 13715 West Markham Little Rock, AR 72211 Tel. (501)221-2565 Fax (501)221-1341 Northwest Arkansas Branch 1107 Century Avenue Springdale, AR 72762

Tel. (479)750-1170 Fax (479)750-1172

Control Number: 2107010262

Customer Name : CLINTON, EAST GW14

Sample Date : 07/26/21 Sample Time : 1330

Collected By: DMP

Customer/Permit No. : 508 / AR0048836 001

Delivery By : DMP

Sample Type : GRAB WATER

Work Order :

Report Date : 07/30/21

Sample From : WELL#14

Purchase Order:

		Laboratory Analy	<u>sis</u>			Quality A	Assurance
Analysis						Precision	Accuracy
<u>Date Time By</u>	Parameter	Result	Notes _	Quantity	Method	% RPD	% Recovery
07/30 1410 EJD	Chloride (as Cl)	10.0 mg	/L		SM 2011 4500 Cl C	18.18	101.0 *
07/26 1335 DMP	рН	6.0 S.	U.		SM 2011 4500-H+B	0.00	N/A *
07/28 1125 AKA	Solids, Total Dissolved	80.0 mg	/L		SM 2011 2540 C	3.05	N/A *
07/26 1630 DMP	Spec. Conductance @ 25 C	103.300 um	ho/c		EPA 120.1	0.07	N/A *
07/27 1155 EJD	Nitrate + Nitrite	0.78 mg	/L		HACH 10206	3.32	100.0 *
07/26 1330 DMP	Well Depth, Total	13.10 Fe	et			N/A	N/A
07/26 1330 DMP	Depth to Water	9.45 Fe	et			N/A	N/A

All equipment used is checked and/or calibrated daily. All NPDES testing is conducted in accordance with 40 CFR Part 136. A minimum of 10% spiked and duplicate samples is run on each parameter where applicable for Quality Assurance purposes. Quality Assurance Plan on file with Arkansas Department of Environmental Quality. Analysis time indicates the time of the start of the analytical batch in which the specific sample was included.

<sup>\*</sup> QA data shown is from a different sample or standard on the same date.

En mental Services Company, Inc. Corporate Office

13715 West Markham

P.O. Box 55146

Little Rock, AR 72211

Little Rock, AR 72215

website: www.esclabs.com

Environmental Services Com Northwest Branch 1107 Century Springdale, AR 72764

# CHAIN OF CUSTODY

Phone: 501-221-2565	Fax: 501-221-1341			IMIIA C	or co.	JIUI	IJĭ	F	Phone	479	-750	-117	0 Fa	x 479-7	750-11	72
	Client Information				Pro	oject Inf	ormation	Michigan de la companya de la compa	***************	***************************************		Rec	uestec	l Para	mete	rs
Company Name:	Clinton, East GW1	4		Permit/Pro	ject #:		AR00488	336								T
Address:	P.O. Box 277			Purchase	Order #:											
	Clinton, AR 72031			Work Orde	er#	~		***************************************	***************************************		ı					
Telephone:	501-745-4320			Sampler N	lame(s):	1 /AI	(20)	DIA	RI							
Contact:	Mr. Todd Burgess		***************************************		,	1/11	<i>J</i>	<u></u>			(7)					
FAX:	501-745-2164			and Signa	ture(s):	1720	G PI	ie-,	1/		Chloride(7.)	·				
ESC Client Number:	508			J	5(5).	100	1011				S	3(91				
Sample Id	lentification		Sample	Collection		T	Sample (	Container	S		(27.)	+NO3(91.)				
	ESC Control #	Date	Time	Туре	Matrix	Туре	Volume	·		#	TDS(27.),	NO2				
Well # 14	7/07010262	07/26/21	1330	<b>*</b>	Water	Plastic	1 Liter	≤ 6 Deg C		1	Х			+++	_	+
		1	1	Grab	Water	Plastic	1 Liter	H2SO4		╗		Х		1 +	_	+
										i				++		+
							<b> </b>							+++	_	1
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Relinquished By: (Signature and Pr	inted Name)	Date	Tíme	Received By: (Signature)	I gnature and Printed	Name)	<u>L</u>	Date	Tim	e (	Custo	dy Se	als:			
Relinquished By: (Signature and Pri	inted Name)	Date	Time	Received By: (Sid	gnature and Printed	Name)	W	Date	Tim		Used'	? iround	5	Intact?		1
						•				ı	Regul	lar	Ů	Specia		]
Relinquished By: (Signature and Pri	inted Name) PTERUE	07/26/2)	(640)	Received for Lab	By: (Signature and	Printed Name	n h	7 26/CI	Tim 164			sampl Yes	les properi	y preserv N	-	1
Cool all samples to ≤ 6 deg	grees C with ice.	-//	<u> </u>	1/	/Flow Da		Field/Test		Analys		Resu		Result		nits	<u></u>
Comments:					Analyst:		pH:	1335		B	6.0		6.0	5,		
					Time: Reading:		Sp Cond:	1630	DN	4	03	5.3	103.3	UM	HOS	<u> </u>
					Units:				<del>                                     </del>	$\dashv$		$\dashv$	***************************************	+	<del></del>	
Fotal Depth-99.10:	13+4 17n			de distribuit de la constitue												
120 Depth - 99.9:	9++4510				Chlorinated?	YN	Fecal Start			F	This	Doc	ument is	Page	7 1	

Corporate Office 13715 West Markham Little Rock, AR 72211 Tel. (501)221-2565 Fax (501)221-1341 Northwest Arkansas Branch 1107 Century Avenue Springdale, AR 72762

Tel. (479)750-1170 Fax (479)750-1172

Control Number: 2107010263

Customer Name : CLINTON, EAST GW16

Customer/Permit No. : 509 / AR0048836 001

Report Date : 07/30/21

Sample Date : 07/26/21

Sample Time : 1250 Sample Type : DRY WELL

Sample From :

Collected By: DMP

Delivery By : Work Order :

Purchase Order :

<u>Laboratory Analysis</u>							Assurance
Analysis						Precision	Accuracy
<u>Date Time By</u>	Parameter	Result	Notes _	Quantity	Method	% RPD	% Recovery
07/26 1250 DMP	Dry Well	0.00			·	N/A	N/A

\* QA data shown is from a different sample or standard on the same date.

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imental Services Company, Inc. Corporate Office

13715 West Markham

P.O. Box 55146

Little Rock, AR 72211

Little Rock, AR 72215

website: www.esclabs.com

Environmental Services Com-Northwest Branch 1107 Century Springdale, AR 72764

# CHAIN OF CUSTODY

Phone: 501-221-2565 Fax: 501-221-1341 Phone 479-750-1170 Fax 479-750-1172 Client Information Project Information Requested Parameters Company Name: Clinton, East GW16 Permit/Project #: AR0048836 Address: P.O. Box 277 Purchase Order #: Clinton, AR 72031 Work Order # Telephone: 501-745-4320 Sampler Name(s): Chloride(7.) Contact: Mr. Todd Burgess FAX: 501-745-2164 and Signature(s): NO2 +NO3(91.) ESC Client Number: 509 TDS(27.), Sample Identification Sample Collection Sample Containers ESC Control# Date. Time Type Volume | Preservative # Matrix Type 21070 19263 07/26/21 Well #16 Grab Water Plastic ≤ 6 Deg C Χ 1 Liter Grab Water Plastic 1 Liter H2SO4 Х Relinquished By: (Signature and Printed Name) Date Received By: (Signature and Printed Name) Custody Seals: Used? Intact? Relinquished By: (Signature and Printed Name) Date Time Received By: (Signature and Printed Name) Turnaround: Date Regular Special Received for Lab By: (Signature and Printed Name) Were samples properly preserved: Yes 77 No Cool all samples to  $\leq 6$  degrees C with ice Flow Data Field Test Time Analyst Result Result Units Comments: Analyst: :Ha Time: Sp Cond: Reading: Units: Total Depth-99.10: H20 Depth - 99.9: Chlorinated? Y N Fecal Start: This Document is Page

Corporate Office 13715 West Markham Little Rock, AR 72211 Tel. (501)221-2565 Fax (501)221-1341 Northwest Arkansas Branch 1107 Century Avenue Springdale, AR 72762

Tel. (479)750-1170 Fax (479)750-1172

Control Number: 2107010264

Customer Name : CLINTON, EAST GW17

Customer/Permit No. : 649 / AR0048747 001

Report Date : 07/30/21

Sample Date : 07/26/21

Sample Time : 1220

Sample Type : GRAB WATER Sample From : WELL#17

Collected By: DMP Delivery By: DMP

Work Order : Purchase Order :

	<u>Laboratory Analysis</u>							
Analysis				Precision	Accuracy			
<u>Date Time By</u>	Parameter	Result Notes Q	uantity Method	% RPD	% Recovery			
07/30 1410 EJD	Chloride (as Cl)	$10.0~{ m mg/L}$	SM 2011 4500 Cl C	18.18	101.0 *			
07/26 1225 DMP	рН	5.5 S.U.	SM 2011 4500-H+B	0.00	N/A *			
07/28 1125 AKA	Solids, Total Dissolved	63.3 mg/L	SM 2011 2540 C	3.05	N/A *			
07/26 1635 DMP	Spec. Conductance @ 25 C	65.200 umho/c	EPA 120.1	0.07	N/A *			
07/27 1155 EJD	Nitrate + Nitrite	5.50~mg/L	HACH 10206	3.32	100.0 *			
07/26 1220 DMP	Well Depth, Total	17.60 Feet		N/A	N/A			
07/26 1220 DMP	Depth to Water	11.80 Feet		N/A	N/A			

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Signature

Environmental Services Co., Inc

 $<sup>\ ^{\</sup>star}$  QA data shown is from a different sample or standard on the same date.

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Little Rock, AR 72215

website: www.esclabs.com

Phone: 501-221-2565

Environmental Services Comp Northwest Branch 1107 Century Springdale, AR 72764

# CHAIN OF CUSTODY

Fax: 501-221-1341 Phone 479-750-1170 Fax 479-750-1172 Client Information Project Information Requested Parameters Permit/Project #: Company Name: Clinton, East GW17 AR0048747 Address: P.O. Box 277 Purchase Order #: Clinton, AR 72031 Work Order # 501-745-4320 Sampler Name(s): Telephone: Mr. Todd Burgess Contact: FAX: and Signature(s): 501-745-2164 NO2 +NO3(91.) ESC Client Number: 649 TDS(27.), Sample Identification Sample Collection Sample Containers # ESC Control# Date Time Type Matrix Type Volume Preservative 2107010211 1220 Vell # 17 Grab Х < 6 Deg C Water Plastic 1 Liter X Grab Water Plastic 1 Liter H2SO4 Relinquished By: (Signature and Printed Name) Date Received By: (Signature and Printed Name) Custody Seals: Used? Intact? en Relinquished By: (Signature and Printed Name) Received By: (Signature and Printed Name) Date Turnaround Time Regular Special Reimmuished By: (Signature and Printed Name) Received for Lab By: (Signature and Printed Name) Date Time Were samples properly preserved: Thursd Bensing way 7126/21/1640 Cool all samples to < 6 degrees C with ice Flow Data/ Field Test Time Analyst Result Result Units 5.5 Comments: pH: 50 Analyst: Time: Sp Cond: 65.2 65.2 (1 MHQS Readina: Units: Total Depth-99.10: H20 Depth - 99.9: This Document is Page  $\,\it L$ Chlorinated? Y Fecal Start:

Corporate Office 13715 West Markham Little Rock, AR 72211 Tel. (501)221-2565 Fax (501)221-1341

Northwest Arkansas Branch 1107 Century Avenue Springdale, AR 72762

Tel. (479)750-1170 Fax (479)750-1172

Control Number: 2112010370

Customer Name : CLINTON, EAST GW13

Customer/Permit No. : 507 / AR0048836 001

Report Date : 01/04/22

Sample Date : 12/13/21

Sample Time : 0920

Sample Type : GRAB WELL WATER Sample From : #13 (507)

Collected By: JGK Delivery By : JGK

Work Order : Purchase Order :

		Laboratory Ana	<u>alysis</u>			Quality A	Assurance
Analysis						Precision	Accuracy
<u>Date Time By</u>	<u>Parameter</u>	Result	Notes	Quantity	Method	% RPD	% Recovery
12/15 0940 DWC	Chloride (as Cl)	20.0	mg/L		SM 2011 4500 Cl C	0.00	98.0 *
12/13 0920 JGK	рН		S.U.		SM 2011 4500-H+B	0.00	N/A *
12/20 0550 NTR	Solids, Total Dissolved	180.0	ma/L		SM 2011 2540 C	2.26	N/A *
	Spec. Conductance @ 25 C	168.200	•		EPA 120.1	0.12	N/A ^
12/13 0920 JGK		9.80			SM 2000 2550 B	0.12	· .
	Nitrate + Nitrite		mg/L		HACH 10206		N/A
	Well Depth, Total	15.25			HACH 10206	4.21	101.8 *
	Depth to Water		Feet			N/A	N/A
12, 13 0)20 00K	Depen to natel	9.00	reet			N/A	N/A

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Signature

Environmental Services Co., Inc.

RK

<sup>\*</sup> QA data shown is from a different sample or standard on the same date.

Corporate Office 13715 West Markham Little Rock, AR 72211 Tel. (501)221-2565 Fax (501)221-1341

Northwest Arkansas Branch 1107 Century Avenue Springdale, AR 72762

Tel. (479)750-1170 Fax (479)750-1172

Control Number: 2112010371

Customer Name : CLINTON, EAST GW14

Customer/Permit No. : 508 / AR0048836 001

Report Date : 01/04/22

Sample Date : 12/13/21

Sample Time : 0910

Sample Type : GRAB WELL WATER Sample From : #14 (508)

Collected By: JGK Delivery By : JGK

Work Order : Purchase Order :

		Laboratory Analysis			Quality I	Assurance
Analysis					Precision	Accuracy
<u>Date Time By</u>	Parameter	Result Notes	Quantity	Method	% RPD	% Recovery
	Chloride (as Cl)	10.0 mg/L		SM 2011 4500 Cl C	0.00	98.0 *
12/13 0910 JGK	рН	5.7 S.U.		SM 2011 4500-H+B	0.00	N/A *
12/20 0550 NTR	Solids, Total Dissolved	72.0 mg/L		SM 2011 2540 C	2.26	N/A *
12/13 0910 JGK	Spec. Conductance @ 25 C	108.200 umho/c		EPA 120.1	0.12	N/A *
12/13 0910 JGK	Temperature	13.70 °C		SM 2000 2550 B	0.00	N/A *
12/13 1000 NTR	Nitrate + Nitrite	0.81 mg/L		HACH 10206	4.21	101.8 *
12/13 0910 JGK	Well Depth, Total	13.08 Feet		111111111111111111111111111111111111111	N/A	N/A
12/13 0910 JGK		10.25 Feet			N/A	N/A N/A
•	•	3			N/A	N/A

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Signature

Environmental Services Co., Inc.

14

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Northwest Arkansas Branch 1107 Century Avenue Springdale, AR 72762

Tel. (479)750-1170 Fax (479)750-1172

Control Number: 2112010372

Customer Name : CLINTON, EAST GW16

Customer/Permit No. : 509 / AR0048836 001

Report Date : 01/04/22

Sample Date : 12/13/21 Sample Time : 0945

Sample Type : DRY WELL

Sample Type : DRY WELL Sample From : #16 (509)

Collected By: JGK Delivery By : JGK

Work Order :

Purchase Order :

Laboratory Analysis							Assurance
Analysis						Precision	Accuracy
<u>Date Time By</u>	Parameter	Result	Notes _	Quantity	Method	% RPD	% Recovery
12/13 0945 JGK	Dry Well	0.00				N/A	N/A
12/13 0945 JGK	Well Depth, Total	14.00 Feet			a Orania	N/A	N/A
					İ		•

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Northwest Arkansas Branch 1107 Century Avenue Springdale, AR 72762

Tel. (479)750-1170 Fax (479)750-1172

Control Number: 2112010373

Customer Name : CLINTON, EAST GW17

Sample Date : 12/13/21 Sample Time : 0900

Collected By: JGK

Customer/Permit No. : 649 / AR0048747 001

Delivery By : JGK

Report Date : 01/04/22

Sample Type : GRAB WELL WATER

Work Order :

Sample From : #17 (649)

Purchase Order:

		Laboratory Analysis		Ouality 1	Assurance
12/20 0550 NTR 12/13 0900 JGK 12/13 0900 JGK 12/13 1000 NTR 12/13 0900 JGK	Parameter Chloride (as Cl) pH Solids, Total Dissolved Spec. Conductance @ 25 C Temperature Nitrate + Nitrite Well Depth, Total Depth to Water	Result   Notes   Quant	Method  SM 2011 4500 Cl C  SM 2011 4500-H+B  SM 2011 2540 C  EPA 120.1  SM 2000 2550 B  HACH 10206	Quality A Precision % RPD 0.00 0.00 2.26 0.12 0.00 4.21 N/A N/A	Assurance  Accuracy  Recovery  98.0 *  N/A *  N/A *  N/A *  101.8 *  N/A  N/A

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Signature



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#### Environmental Services Company Little Rock, AR 72211 Groundwater Monitoring Chain of Custody

Sampler Name(s): I Know suit and Signature:

Sample Date: 12/13/21 Laboratory Sample Depth Total Control Temperature Identification Sample To Well pН Specific Conductance Number Degrees C (Customer #) Time: Water Depth **Clinton Wells** #1 #2 #3 #3 #1 #2 #2 #3 #1 Time Time Time 2112010370 9'8" 0920 15' 4" 6.0 #13 (507) 6.0 0920 1682 168.0 168.2 1920 9.8 9.8 9.8 0920 X X 10'3" 2112010371 13' 1" 5.7 #14 (508) 19910 58 57 09/10 108-2 108-0 108-2 0910 13-7 13-5 13-7 0910 X X 2112010372 Dry 0945 Dey La Dry Well #16 (509) 14' 0" 0945 0945 DIY Well 0945 X 2112010373 14/3" 0900 #17 (649) 17'6" 5.1 5.0 5-1 0900 69.0 69.4 69.4 6900 17.1 17.3 17.1 0900 X X Received By Lab: My Mrs ABULLAR Date: 12/13/21 Time: 1/407 Relinquished by: <u>Time: \(\(\eal}\)</u>

Comments:

Jos

# CITY OF CLINTON CLINTON WATER AND SEWER DEPARTMENT

P.O. BOX 277 CLINTON, AR 72031 TELEPHONE (501) 745-4320 FAX (501) 745-2164

	TO:	ESC	
,	ATTN:	JOYCE	NAMES OF THE STREET, S
	FAX#:	501-221-1341	Marini successor
	FROM: <i>C</i> /	linton Water + Sewer	•
	PAGES INCL	LUDING COVER PAGE:/	
MESSAGE:	Yearly Rep	port 2021	
East Plant	-: 68.112	2 mg, 193,5 Inches, 23	183.19 Acres
West Plant			
Grops 6	rown : Be	rmuda Hay	
•		: Steve Bone & Will Dawson	
		: Danny Boone + Ray Grey ]	

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Northwest Arkansas Branch 1107 Century Avenue Springdale, AR 72762 Tel. (479)750-1170 Fax (479)750-1172

Control Number: 2207010292

Customer Name : CLINTON, EAST IW

Customer/Permit No. : 619 / AR0048836 001

Report Date : 08/02/22

Sample Date : 07/25/22 Sample Time : 1222

Sample Type : GRAB/WWATER

Sample From : IRRIGATION WATER

Collected By: JTH Delivery By : JTH

Work Order : Purchase Order :

, ,		Laboratory Analysis				Quality A	Assurance
Analysis						Precision	Accuracy
Date Time By	Parameter	Result	Notes	Quantity	Method	% RPD	% Recovery
07/29 1800 JFT	Sodium	17.6321 mg/L			EPA 200.8	0.45	86.1 *
07/29 1800 JFT	Magnesium	2.0023 mg/L			EPA 200.8	0.25	115.2 *
07/28 1200 ACL	Ammonia as N, (HACH/SM)	< 0.01  mg/L			SM 2011 4500-NH3-G	1.51	
07/29 1100 AAC	Total Kjeldahl Nitrogen	6.2 mg/L			02/2014 HACH 10242		95.0 *
07/27 1440 ACL	Nitrate Nitrogen	1.6610 mg/L			HACH 10206	2.74	112.0
07/27 1440 ACL	Nitrite Nitrogen	0.1390 mg/L			EPA 354.1	0.00	102.0
07/29 1800 JFT	Potassium	6.6241 mg/L			EPA 200.8	1.80	102.0
07/29 1600 JFT	Calcium	5.6312 mg/L			EPA 200.8	1.64	109.5 *
07/26 0930 ACL	Oil & Grease, Total	< 5.00 mg/L			EPA 1664 B	0.81	107.0 *
07/25 1225 JTH	рН	9.0 S.U.			SM 2011 4500-H+B	0.76	98.0 *
07/26 1015 ACL	Phosphorus, Total (as P)	3.020 mg/L			EPA 365.1	1.65	N/A *
07/27 1018 AAC	Solids, Total Suspended	55.00 mg/L			l l	0.90	102.0 *
07/29 1800 JFT	Nickel	< 0.02000 mg/L			SM 2011 2540 D	0.00	N/A *
07/29 1800 JFT	Copper	< 0.0200 mg/L			EPA 200.8	0.62	100.0 *
07/29 1800 JFT	Zinc	0.0447 mg/L			EPA 200.8	1.40	100.6 *
07/29 1800 JFT	Arsenic	0.0109 mg/L			EPA 200.8	0.71	99.5 *
07/30 0600 NTR	Nitrogen, Plant Available	3.66 mg/L			EPA 200.8	0.46	106.3 *
07/29 1800 JFT	Selenium	< 0.0150 mg/L			33 MSA 2nd Ed		
07/26 1458 ACL	Electric Conductivity	1831.00 umho/c	~		EPA 200.8	0.81	98.5 *
07/29 1800 JFT	Molybdenum		<u>ن</u>		EPA 9050A(MOD)	0.44	99.0
07/25 1326 JFT	Fecal Coliform	< 0.0500 mg/L	1		EPA 200.8	0.60	104.6 *
,	1 COUL COLLICIM	1732.9 /100ml	L		06/2012 Colilert18	0.00	N/A *

<sup>\*</sup> QA data shown is from a different sample or standard on the same date.

Customer Name : CLINTON, EAST IW

Control Number: 2207010292

Page 2

Analysis	Laboratory Analysis							
<del>_</del>	<pre>&lt; 1.000 0.01458</pre>	mg/L mg/L % mg/L	Quantity	Method EPA 200.8 EPA 245.7 SM 2011 5210 B SM 1997 2540 G EPA 200.8 AGRN 724	Precision     % RPD     0.33     0.00     22.09     0.00     0.12     0.45	Accuracy % Recovery 99.9 82.0 101.0 N/A 96.5 86.1		

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Signature

Environmental Services Co., Inc.

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website: www.esclabs.com

Phone: 501-221-2565 Fax: 501-221-1341



Springdale, Arkansas 479-750-1170

Carlsbad, New Mexico 575-887-1ESC

# **CHAIN OF CUSTODY**

Client Information				Project Information					Requested Parameters								
Client:	Clinton, East IW			Permit/Project #: AR0048836					(25)								
Address:	P.O. Box 277			Purchase Order #:					<u> آ</u>	(70)	P (2)						
Clinton, AR 72031			Work Ord		Work Orde	der #				s) sn	otal						
Phone:	501-745-4320			Sampler Name(s): James Holden				3	spline	(A)							
Fax:	501-745-2164			- Chiver & Mico						e	(15.	Comments)		3.IF)			
Contact:	Mr. Phil Graham			and Signature(s):		a Malala	94			02/19)	13-N	omu	e (21)	Coliform (43.IF)			
ESC Client Number: 619					The same of the sa			1 '	17	Ż		Grease	liforr				
			Collection Sam		Sample	ample Containers				16.C	s (S	& Gr	S C				
Identification ESC Control #		Date	Time	Type Matrix		Туре	Volume	*****		#	NO3 (18) NO2/19)	TKN(16.C), NH3-N (15.A), Total P	Metals (See	8 8	(Fecal		
Irrigatio	on Water	2207010292	7-85-82	1222	Grab	Wwater	Plastic	1 Liter	Cool ≤ 6° C			_	x i	†			
		1	1	1	Grab	Wwater	Plastic	8 oz	Cool ≤ 6° C, H2SO4 to pH <2		1		X		T		
			1		Grab	Wwater	Plastic	8 oz	HNO3 to pl		1	$\top$	+	X	T		
					Grab	Wwater	Glass	250 mi	Cool < 6° C, H2SO4 to pH <2	·	1	$\top$	1	+	X		
			<b>工</b>		Grab	Wwater	Plastic	100 ml	Cool ≤ 6° C		1	$\dashv$	$\top$	1	Ħ	х	
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									<u> </u>		$\top$	$\top$	+	+		$\vdash$	
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Relinquished By: (Signature and Printed Name) Date		Time	Received By: (Sig	eceived By: (Signature and Printed Name) Date Time Custody S					y Seals:								
Relinquished By: (Signature and Printed Name) Date Time			Received By: (Signature and Printed Name)			Date	Time		ed?	187							
				····	····					gular	V	1_	Spe				
Relinquished By: (Signature and Printed Name)  Date Time  Time  Time  Time			Received for Lab By: (Signature and Printed Name)			7/25/2	Time			e samples properly preserved Yes 💢 No			-				
			Flow Data Field Tes		Field Test		Analyst		esult	t Result		Units					
Comments: Metals: Hg(50.15), Cu(29.HW), Zn(30.HW), As(33.HW), S Cd(48.HW), Pb(82.HW), Mo (42.Hw), Ni (28.HW) 00.MD, C				Se(34.HW)				12501530	174 9.		<u>.010</u>			30e			
K (19.HW), Na (11.HW), Mg (12.HW), 20.HW), SAR (99.					Reading:		7	2527 55		4	16.C	11.3	4. 9	O IVII	103		
Ca (20.HW)					Units:							工					
										TI	nis D	ocum	ent is	Page	<u>∍                                    </u>	of	

