

Clinton Water & Sewer East Plant

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



Environmental Services Company, Inc.

Corporate Office

13715 West Markham

Little Rock, Arkansas 72211

501-221-2565 (p)

501-221-1341 (f)

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Carlsbad, New Mexico

575-887-7372 (7ESC)

Albuquerque, New Mexico

888-372-3477

Springdale, Arkansas

479-750-1170

Clinton Water and Sewer Department
Clinton, AR
East WWTP - AR0048836
Irrigation Water
Calendar Year 2021

Parameter	Annual Concentration (mg/L)	2021 Application Data				Total Application Since 2003 Pounds/Acre
		Million Gallons/Year	Number of Acres	Gallons per Acre-Year	Pounds per Acre	
Total Kjeldahl Nitrogen	9.7250	68.112	2283.19	29,831.9	2.421	643.17
Ammonia Nitrogen	3.8400	68.112	2283.19	29,831.9	0.956	154.38
Nitrate + Nitrite Nitrogen	3.4650	68.112	2283.19	29,831.9	0.863	111.54
BOD-5	12.1750	68.112	2283.19	29,831.9	3.031	1,053.82
Arsenic	< 0.0075	68.112	2283.19	29,831.9	0.002	0.49
Cadmium	< 0.0150	68.112	2283.19	29,831.9	0.004	0.23
Copper	< 0.0150	68.112	2283.19	29,831.9	0.004	0.28
Lead	< 0.0075	68.112	2283.19	29,831.9	0.002	0.60
Mercury	< 0.0025	68.112	2283.19	29,831.9	0.001	0.09
Selenium	< 0.0113	68.112	2283.19	29,831.9	0.003	0.70
Zinc	< 0.0375	68.112	2283.19	29,831.9	0.009	4.44
Conductivity, minimum (mhos/cm)*	138.00					
Conductivity, maximum (mhos/cm)*	188.00					
pH, minimum (SU)*	7.30					
pH, maximum (SU)*	8.40					
Nitrogen Application Rate (lbs N/acre/year)	3.28					

*Current year values

Crop Grown: Bermuda Hay

**Clinton Water and Sewer Department
Clinton, AR
East WWTP - AR0048836
Soil
Calendar Year 2021**

Sample ID	Clinton East 40.24 LA PB 3							
Control Number	2103010415							
Parameter	1st Quarter		2nd Quarter		3rd Quarter		4th Quarter	
	Sample Date	Analytical Results (mg/Kg)	Sample Date	Analytical Results (mg/Kg)	Sample Date	Analytical Results (mg/Kg)	Sample Date	Analytical 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						
Nickel	03/19/21	18.889						
Zinc	03/19/21	7.359						
Conductivity (mhos/cm)	03/19/21	213.6459						
pH (SU)	03/19/21	6.40						

**Clinton Water and Sewer Department
Clinton, AR
East WWTP - AR0048836
Soil
Calendar Year 2021**

Sample ID	Clinton East 40.24 LA PB 30							
Control Number	2103010416							
Parameter	1st Quarter		2nd Quarter		3rd Quarter		4th Quarter	
	Sample Date	Analytical Results (mg/Kg)	Sample Date	Analytical Results (mg/Kg)	Sample Date	Analytical Results (mg/Kg)	Sample Date	Analytical 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						
Nickel	03/19/21	31.567						
Zinc	03/19/21	114.311						
Conductivity (mhos/cm)	03/19/21	299.7150						
pH (SU)	03/19/21	6.90						

Clinton Water and Sewer Department
Clinton, AR
East WWTP - AR0048836
Soil
Calendar Year 2021

Sample ID	Clinton East 55.57 LA PB 10							
Control Number	2103010417							
Parameter	1st Quarter		2nd Quarter		3rd Quarter		4th Quarter	
	Sample Date	Analytical Results (mg/Kg)	Sample Date	Analytical Results (mg/Kg)	Sample Date	Analytical Results (mg/Kg)	Sample Date	Analytical 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						
Nickel	03/19/21	9.919						
Zinc	03/19/21	28.706						
Conductivity (mhos/cm)	03/19/21	221.7245						
pH (SU)	03/19/21	6.80						

**Clinton Water and Sewer Department
Clinton, AR
East WWTP - AR0048836
Soil
Calendar Year 2021**

Sample ID	Clinton East 55.57 LA PB 3							
Control Number	2103010418							
Parameter	1st Quarter		2nd Quarter		3rd Quarter		4th Quarter	
	Sample Date	Analytical Results (mg/Kg)	Sample Date	Analytical Results (mg/Kg)	Sample Date	Analytical Results (mg/Kg)	Sample Date	Analytical Results (mg/Kg)
Nitrate Nitrogen	03/19/21	202.960						
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						
Nickel	03/19/21	13.158						
Zinc	03/19/21	39.203						
Conductivity (mhos/cm)	03/19/21	199.6038						
pH (SU)	03/19/21	6.90						

**Clinton Water and Sewer Department
Clinton, AR
East WWTP - AR0048836
Soil
Calendar Year 2021**

Sample ID	Clinton East 55.57 LA PB 30							
Control Number	2103010419							
Parameter	1st Quarter		2nd Quarter		3rd Quarter		4th Quarter	
	Sample Date	Analytical Results (mg/Kg)	Sample Date	Analytical Results (mg/Kg)	Sample Date	Analytical Results (mg/Kg)	Sample Date	Analytical 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						
Nickel	03/19/21	10.643						
Zinc	03/19/21	25.087						
Conductivity (mhos/cm)	03/19/21	245.5300						
pH (SU)	03/19/21	6.60						

**Clinton Water and Sewer Department
Clinton, AR
East WWTP - AR0048836
Soil
Calendar Year 2021**

Sample ID	Clinton East LA Airport 9							
Control Number	2103010420							
Parameter	1st Quarter		2nd Quarter		3rd Quarter		4th Quarter	
	Sample Date	Analytical Results (mg/Kg)	Sample Date	Analytical Results (mg/Kg)	Sample Date	Analytical Results (mg/Kg)	Sample Date	Analytical 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						
Nickel	03/19/21	8.489						
Zinc	03/19/21	16.986						
Conductivity (mhos/cm)	03/19/21	97.4922						
pH (SU)	03/19/21	7.10						

**Clinton Water and Sewer Department
Clinton, AR
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Soil
Calendar Year 2021**

Sample ID	Clinton East LA WD 13							
Control Number	2103010421							
Parameter	1st Quarter		2nd Quarter		3rd Quarter		4th Quarter	
	Sample Date	Analytical Results (mg/Kg)	Sample Date	Analytical Results (mg/Kg)	Sample Date	Analytical Results (mg/Kg)	Sample Date	Analytical 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						
Nickel	03/19/21	13.396						
Zinc	03/19/21	31.241						
Conductivity (mhos/cm)	03/19/21	402.1440						
pH (SU)	03/19/21	6.80						

Environmental Services Company, Inc.

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 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 : 04/08/21

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 :

<u>Laboratory Analysis</u>							<u>Quality Assurance</u>	
Analysis			Result	Notes	Quantity	Method	Precision	Accuracy
Date	Time	By					Parameter	% RPD
03/19	1644	EDA	BOD, 5-day	18.0 mg/L		SM 2011 5210 B	14.97	106.0 *
03/30	1023	AKA	Ammonia as N, (HACH/SM)	5.47 mg/L		SM 2011 4500-NH3-G	1.57	90.3 *
03/25	1017	AKA	Total Kjeldahl Nitrogen	16.7 mg/L		02/2014 HACH 10242	8.01	115.0 *
03/19	1330	HMK	pH	8.4 S.U.		SM 2011 4500-H+B	0.00	N/A *
03/30	1508	KNM	Copper	< 0.0200 mg/L		EPA 200.8	0.41	101.5 *
03/30	1508	KNM	Zinc	< 0.0500 mg/L		EPA 200.8	4.07	102.0 *
03/30	1508	KNM	Arsenic	< 0.0100 mg/L		EPA 200.8	0.29	99.7 *
03/30	1508	KNM	Selenium	< 0.0150 mg/L		EPA 200.8	6.67	99.6 *
04/06	1433	BXW	Spec. Conductance @ 25 C	211.610 umho/c		EPA 120.1		
03/30	1508	KNM	Cadmium	< 0.0200 mg/L		EPA 200.8	1.05	105.6 *
03/26	1845	KNM	Mercury	0.0010 mg/L		EPA 245.1	0.56	111.4 *
03/30	1508	KNM	Lead	< 0.0100 mg/L		EPA 200.8	0.46	89.2 *
03/22	1331	BXW	Nitrate + Nitrite	6.53 mg/L		HACH 10206	0.80	103.0 *

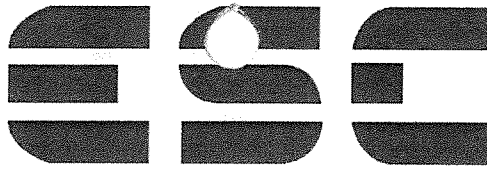
* QA data shown is from a different sample or standard on the same date.

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.

ML

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

CHAIN OF CUSTODY

Client Information						Project Information					Requested Parameters									
Client: Clinton, East IW						Permit/Project #: AR0048836					BOD(3)	NH3-N(15.A), NO3 + NO2(91)	TKN(16.C)	Metals (See Comments)						
Address: P.O. Box 277						Purchase Order #:														
Clinton, AR 72031						Work Order #:														
Phone: 501-745-4320						Sampler Name(s): Hayden Kelly														
Fax: 501-745-2164						and Signature(s):														
Contact: Mr. Phil Graham						ESC Client Number: 619														
Sample Identification			Sample Collection			Sample Containers														
Identification	ESC Control #	Date	Time	Type	Matrix	Type	Volume	Preservative	#											
Irrigation Water	2103010676	3/19/21	1330	Grab	Wwater	Plastic	1 Liter	Cool ≤ 6° C	1	X										
	⊥	⊥	⊥	Grab	Wwater	Plastic	8 oz	Cool ≤ 6° C, H2SO4 to pH <2	1		X	X								
				Grab	Wwater	Plastic	8 oz	HNO3 to pH <2	1				X							
Relinquished By: (Signature and Printed Name)		Date	Time	Received By: (Signature and Printed Name)			Date	Time	Custody Seals:		Used?	<input checked="" type="checkbox"/>	Intact?	<input type="checkbox"/>						
Relinquished By: (Signature and Printed Name)		Date	Time	Received By: (Signature and Printed Name)			Date	Time	Turnaround:		Regular	<input checked="" type="checkbox"/>	Special	<input type="checkbox"/>						
Relinquished By: (Signature and Printed Name)		Date	Time	Received for Lab By: (Signature and Printed Name)			Date	Time	Were samples properly preserved:		Yes	<input checked="" type="checkbox"/>	No	<input type="checkbox"/>						
Comments: Metals: Hg(50.15), Cu(29.HW), Zn(30.HW), As(33.HW), Se(34.HW)		Flow Data		Field Test		Time	Analyst	Result	Result	Units										
Cd(48.HW), Pb(82.HW), 00.MD						1330	HML	8.4	8.4	S.U.										
								-99	-99	UMHOS*										
* Conductivity re-analyzed in lab due to meter malfunction										This Document is Page 1 of 1										

BXW

KNM 4/12/21

Environmental Services Company, Inc.

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Northwest Arkansas Branch
 1107 Century Avenue
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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 :

Analysis			<u>Laboratory Analysis</u>				<u>Quality Assurance</u>		
<u>Date</u>	<u>Time</u>	<u>By</u>	<u>Parameter</u>	<u>Result</u>	<u>Notes</u>	<u>Quantity</u>	<u>Method</u>	<u>Precision</u>	<u>Accuracy</u>
								<u>% RPD</u>	<u>% Recovery</u>
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	pH	7.3 S.U.			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 umho/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

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

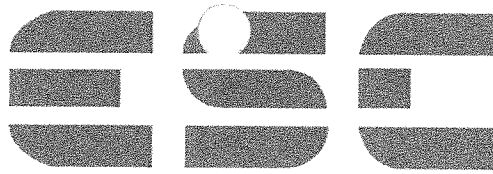
All equipment used is checked and/or calibrated daily. All NPDES testing is conducted in accordance with 40 CFR Part 136. A minimum of 10% spiked and duplicate samples is run on each parameter where applicable for Quality Assurance purposes. Quality Assurance Plan on file with Arkansas Department of 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.

NRL

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CHAIN OF CUSTODY

Client Information						Project Information					Requested Parameters									
Client:		Clinton, East IW				Permit/Project #:		AR0048836			BOD(3.)	NH3-N(15.A), NO3 + NO2(91.)	TKN(16.C)	Metals (See Comments)						
Address:		P.O. Box 277				Purchase Order #:														
		Clinton, AR 72031				Work Order #														
Phone:		501-745-4320				Sampler Name(s):		DAVID PIERCE												
Fax:		501-745-2164				and Signature(s):		David Pierce												
Contact:		Mr. Phil Graham				ESC Client Number:		619												
Sample Identification			Sample Collection			Sample Containers														
Identification	ESC Control #	Date	Time	Type	Matrix	Type	Volume	Preservative	#											
Irrigation Water	2107010259	07/24/21	1155	Grab	Wwater	Plastic	1 Liter	Cool ≤ 6° C	1	X										
	L	L	L	Grab	Wwater	Plastic	8 oz	Cool ≤ 6° C, H2SO4 to pH <2	1		X	X								
				Grab	Wwater	Plastic	8 oz	HNO3 to pH <2	1				X							
Relinquished By: (Signature and Printed Name)		Date	Time	Received By: (Signature and Printed Name)		Date	Time	Custody Seals:		Used?	<input checked="" type="checkbox"/>	Intact?	<input type="checkbox"/>							
Relinquished By: (Signature and Printed Name)		Date	Time	Received By: (Signature and Printed Name)		Date	Time	Turnaround:		Regular	<input checked="" type="checkbox"/>	Special	<input type="checkbox"/>							
Relinquished By: (Signature and Printed Name)		Date	Time	Received for Lab By: (Signature and Printed Name)		Date	Time	Were samples properly preserved:		Yes	<input checked="" type="checkbox"/>	No	<input type="checkbox"/>							
Comments: Metals: Hg(50.15), Cu(29.HW), Zn(30.HW), As(33.HW), Se(34.HW)		Flow Data		Field Test		Time	Analyst	Result	Result	Units										
Cd(48.HW), Pb(82.HW), 00.MD				Analyst:		pH:	7:51:20 DLP	7.3	7.5	S.U.										
				Time:		Conduct:	1620 DLP	144.9	144.9	U MHOS										
				Reading:				145.0												
				Units:																
													This Document is Page <u>1</u> of <u>1</u>							

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 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 :

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

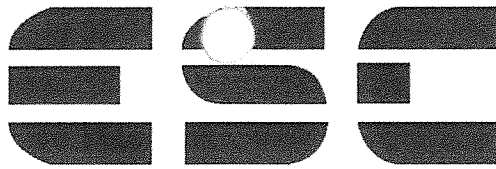
* QA data shown is from a different sample or standard on the same date.

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Signature 
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 website: www.esclabs.com



Springdale, Arkansas
 479-750-1170
 Carlsbad, New Mexico
 575-887-1ESC

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

CHAIN OF CUSTODY

Client Information				Project Information							Requested Parameters											
Client:	Clinton, East IW			Permit/Project #:	AR0048836							BOD(3.) NH3-N(15.A), NO3 + NO2(91.) TKN(16.C) Metals (See Comments)										
Address:	P.O. Box 277			Purchase Order #:																		
	Clinton, AR 72031			Work Order #:																		
Phone:	501-745-4320			Sampler Name(s):	J. Kromschick																	
Fax:	501-745-2164			and Signature(s):																		
Contact:	Mr. Phil Graham																					
ESC Client Number:	619																					
Sample Identification		Sample Collection				Sample Containers																
Identification	ESC Control #	Date	Time	Type	Matrix	Type	Volume	Preservative	#													
Irrigation Water	2111010390	11/15/21	1010	Grab	Wwater	Plastic	1 Liter	Cool ≤ 6° C	1	X												
		I	I	Grab	Wwater	Plastic	8 oz	Cool ≤ 8° C, H2SO4 to pH <2	1		X	X										
				Grab	Wwater	Plastic	8 oz	HNO3 to pH <2	1				X									
Relinquished By: (Signature and Printed Name)		Date	Time	Received By: (Signature and Printed Name)			Date	Time	Custody Seals:			Used?	Intact?									
Relinquished By: (Signature and Printed Name)		Date	Time	Received By: (Signature and Printed Name)			Date	Time	Turnaround:			Regular	Special									
Relinquished By: (Signature and Printed Name)		Date	Time	Received for Lab By: (Signature and Printed Name)			Date	Time	Were samples properly preserved:			Yes	No									
J. Kromschick		11/15/21	1600	Dan Dan Jones Thoms			11/15/21	1600														
Comments: Metals: Hg(50.15), Cu(29.HW), Zn(30.HW), As(33.HW), Se(34.HW) Cd(48.HW), Pb(82.HW), 00.MD		Flow Data		Field Test	Time	Analyst	Result	Result	Units													
				pH:	1015	JM	8.0	8.0	S.U.													
				Conductivity:	1015	JM	215	215	UMHOS													
				Reading:																		
				Units:																		
						1630		JMT		This Document is Page 1 of 1												

JM

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Control Number: 2103010415
 Customer Name : CLINTON, EAST 40.24 LA PB 3
 Customer Number : 3004
 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>Laboratory Analysis</u>							<u>Quality Assurance</u>	
<u>Analysis</u>			<u>Result</u>	<u>Notes</u>	<u>Quantity</u>	<u>Method</u>	<u>Precision</u>	<u>Accuracy</u>
<u>Date</u>	<u>Time</u>	<u>By</u>					<u>Parameter</u>	<u>% RPD</u>
04/14	1220	AKA	Ammonia Nitrogen	0.1800 mg/kg		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		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		SW-846 6020A	4.01	108.4 *
04/16	1121	KNM	Copper	7.359 mg/Kg		SW-846 6020A	3.04	109.8 *
04/16	1121	KNM	Zinc	44.201 mg/Kg		SW-846 6020A	3.11	96.8 *
04/24	0800	KNM	Nitrogen, Plant Available	13.10 mg/kg		33 MSA 2nd Ed		
04/16	1121	KNM	Arsenic	6.632 mg/Kg		SW-846 6020A	2.43	107.4 *
04/19	1550	ZWA	Specific Conductance	213.6459 umhos		EPA (MOD)9050A	7.20	N/A
04/16	1121	KNM	Cadmium	< 0.017 mg/Kg		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		SW-846 6020A	3.42	106.6 *

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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>Laboratory Analysis</u>							<u>Quality Assurance</u>	
<u>Analysis</u>			<u>Result</u>	<u>Notes</u>	<u>Quantity</u>	<u>Method</u>	<u>Precision</u>	<u>Accuracy</u>
<u>Date</u>	<u>Time</u>	<u>By</u>					<u>Parameter</u>	<u>% RPD</u>
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		33 MSA 2nd Ed		
04/16	1127	KNM	Arsenic	12.436 mg/Kg		SW-846 6020A	2.43	107.4 *
04/19	1550	ZWA	Specific Conductance	299.7150 umhos		EPA (MOD) 9050A	7.20	N/A *
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 *

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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 :

<u>Laboratory Analysis</u>							<u>Quality Assurance</u>	
<u>Analysis</u>			<u>Result</u>	<u>Notes</u>	<u>Quantity</u>	<u>Method</u>	<u>Precision</u>	<u>Accuracy</u>
<u>Date</u>	<u>Time</u>	<u>By</u>					<u>Parameter</u>	<u>% RPD</u>
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 6020A	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		33 MSA 2nd Ed		
04/16	1132	KNM	Arsenic	3.628 mg/Kg		SW-846 6020A	2.43	107.4 *
04/19	1550	ZWA	Specific Conductance	221.7245 umhos		EPA (MOD)9050A	7.20	N/A *
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 *

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BXL

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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 :


Laboratory Analysis

<u>Analysis</u>							<u>Quality Assurance</u>		
<u>Date</u>	<u>Time</u>	<u>By</u>	<u>Parameter</u>	<u>Result</u>	<u>Notes</u>	<u>Quantity</u>	<u>Method</u>	<u>Precision</u>	<u>Accuracy</u>
								<u>% RPD</u>	<u>% Recovery</u>
04/14	1220	AKA	Ammonia Nitrogen	0.6620 mg/kg			SM 1997 4500-NH3 C	7.21	96.3 *
04/07	1818	KNM	Mercury	< 0.0310 mg/Kg			SW846 7474 02/07	19.02	80.9 *
03/25	1345	EDA	Nitrate Nitrogen	202.960 mg/kg			SM 2000 4500-NO3 E	3.28	101.0 *
04/14	0745	KNM	Phosphorous, Total (as P)	2.3153 mg/kg			EPA 365.3	5.65	100.0 *
04/16	1207	KNM	Magnesium	752.59 mg/Kg			SW-846 6020A	6.29	110.8 *
04/16	1207	KNM	Potassium	526.50 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	1207	KNM	Nickel	13.158 mg/Kg			SW-846 6020A	4.01	108.4 *
04/16	1207	KNM	Copper	5.939 mg/Kg			SW-846 6020A	3.04	109.8 *
04/16	1207	KNM	Zinc	39.203 mg/Kg			SW-846 6020A	3.11	96.8 *
04/24	0800	KNM	Nitrogen, Plant Available	7.21 mg/kg			33 MSA 2nd Ed		
04/16	1207	KNM	Arsenic	4.459 mg/Kg			SW-846 6020A	2.43	107.4 *
04/19	1550	ZWA	Specific Conductance	199.6038 umhos			EPA (MOD)9050A	7.20	N/A *
04/16	1207	KNM	Cadmium	< 0.028 mg/Kg			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			SW-846 6020A	3.42	106.6 *

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Control Number: 2103010419
 Customer Name : CLINTON, EAST 55.57 LA PB 30
 Customer Number : 3001
 Report Date : 04/24/21

Sample Date : 03/19/21
 Sample Time : 1140
 Sample Type : GRAB SOIL
 Sample From : EAST LA 55.57 PB30


Collected By: HMK
 Delivery By : HMK
 Work Order :
 Purchase Order :

<u>Laboratory Analysis</u>							<u>Quality Assurance</u>	
<u>Analysis</u>			<u>Result</u>	<u>Notes</u>	<u>Quantity</u>	<u>Method</u>	<u>Precision</u>	<u>Accuracy</u>
<u>Date</u>	<u>Time</u>	<u>By</u>	<u>Parameter</u>				<u>% RPD</u>	<u>% Recovery</u>
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		33 MSA 2nd Ed		
04/16	1156	KNM	Arsenic	4.508 mg/Kg		SW-846 6020A	2.43	107.4 *
04/19	1550	ZWA	Specific Conductance	245.5300 umhos		EPA (MOD)9050A	7.20	N/A *
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 *

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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 :

<u>Laboratory Analysis</u>							<u>Quality Assurance</u>	
Analysis			Result	Notes	Quantity	Method	Precision % RPD	Accuracy % 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	Nitrate Nitrogen	323.640 mg/kg		SM 2000 4500-NO3 E	3.28	101.0
04/14	0745	KNM	Phosphorous, Total (as P)	< 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		33 MSA 2nd Ed		
04/16	1202	KNM	Arsenic	3.933 mg/Kg		SW-846 6020A	2.43	107.4 *
04/19	1550	ZWA	Specific Conductance	97.4922 umhos		EPA (MOD)9050A	7.20	N/A *
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	N/A *
04/16	1202	KNM	Lead	7.595 mg/Kg		SW-846 6020A	3.42	106.6 *

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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 :

<u>Laboratory Analysis</u>							<u>Quality Assurance</u>	
<u>Analysis</u>			<u>Result</u>	<u>Notes</u>	<u>Quantity</u>	<u>Method</u>	<u>Precision</u>	<u>Accuracy</u>
<u>Date</u>	<u>Time</u>	<u>By</u>	<u>Parameter</u>				<u>% RPD</u>	<u>% Recovery</u>
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 *
03/23	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		33 MSA 2nd Ed		
04/16	1213	KNM	Arsenic	5.415 mg/Kg		SW-846 6020A	2.93	107.4 *
04/19	1550	ZWA	Specific Conductance	402.1440 umhos		EPA (MOD)9050A	7.20	N/A *
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 *

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

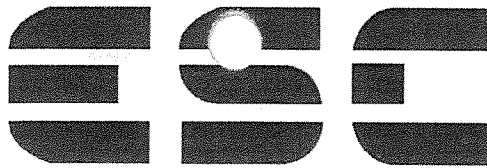
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Signature _____



Environmental Services Co., Inc.

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 13715 West Markham P.O. Box 55146
 Little Rock, AR 72211 Little Rock, AR 72215
 website: www.esclabs.com



Springdale, Arkansas
 479-750-1170

Carlsbad, New Mexico
 575-887-1ESC

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

CHAIN OF CUSTODY

Client Information						Project Information					Requested Parameters									
Client:		Clinton, City of (East Land App)				Permit/Project #:					Metals (See Comments)	Nitrate Nitrogen(01.3), Phos(01.9)	Soil pH(23.S), Spec Cond(35.M)	Ammonia(01.1), PAN(33.AN)						
Address:		P.O. Box 277				Purchase Order #:														
		Clinton, AR 72031				Work Order #														
Phone:		501-745-4320				Sampler Name(s):		Hayden Kelly												
Fax:		Mr. Phil Graham				and Signature(s):														
Contact:		501-745-2164																		
ESC Client Number:		Various																		
Sample Identification			Sample Collection			Sample Containers														
Identification	ESC Control #	Date	Time	Type	Matrix	Type	Volume	Preservative	#											
East LA 40.24 PB3 (3004)	2103010415	3/19/21	1155	Grab	Soil	Glass	1 Liter	Cool ≤ 6° C	1	X	X	X	X							
East LA 40.24 PB30 (3003)	2103010416		1210	Grab	Soil	Glass	1 Liter	Cool ≤ 6° C	1	X	X	X	X							
East LA 55.57 PB10 (511)	2103010417		1115	Grab	Soil	Glass	1 Liter	Cool ≤ 6° C	1	X	X	X	X							
East LA 55.57 PB3 (3002)	2103010418		1125	Grab	Soil	Glass	1 Liter	Cool ≤ 6° C	1	X	X	X	X							
East LA 55.57 PB30 (3001)	2103010419		1140	Grab	Soil	Glass	1 Liter	Cool ≤ 6° C	1	X	X	X	X							
East LA Airport9 (2959)	2103010420		1250	Grab	Soil	Glass	1 Liter	Cool ≤ 6° C	1	X	X	X	X							
East LA WD13 (2960)	2103010421		1320	Grab	Soil	Glass	1 Liter	Cool ≤ 6° C	1	X	X	X	X							
Relinquished By: (Signature and Printed Name)		Date	Time	Received By: (Signature and Printed Name)		Date	Time	Custody Seals:		Used? <input checked="" type="checkbox"/>		Intact? <input type="checkbox"/>								
Relinquished By: (Signature and Printed Name)		Date	Time	Received By: (Signature and Printed Name)		Date	Time	Turnaround:		Regular <input checked="" type="checkbox"/>		Special <input type="checkbox"/>								
Relinquished By: (Signature and Printed Name)		Date	Time	Received for Lab By: (Signature and Printed Name)		Date	Time	Were samples properly preserved:		Yes <input checked="" type="checkbox"/>		No <input type="checkbox"/>								
Comments:		Flow Data		Field Test		Time	Analyst	Result	Result	Units										
Hg(01.14), Mn(12.HS), K(19.HS), Ni(28.HS), Cu(29.HS), Zn(30.HS)																				
As(33.HS), Cd(48.HS), Pb(82.HS), 00.MS																				
Analyst:																				
Time:																				
Reading:																				
Units:																				
										This Document is Page 1 of 1										

BXW

Environmental Services Company, Inc.

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Northwest Arkansas Branch
 1107 Century Avenue
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 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 :

Laboratory Analysis

Analysis			Laboratory Analysis				Quality Assurance		
Date	Time	By	Parameter	Result	Notes	Quantity	Method	Precision % RPD	Accuracy % 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	pH	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 umho/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 Feet				N/A	N/A
03/19	1100	HMK	Depth to Water	9.75 Feet				N/A	N/A

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Signature _____



Environmental Services Co., Inc.

CNA

Environmental Services Company, Inc.

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Northwest Arkansas Branch
 1107 Century Avenue
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 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

Analysis						Quality Assurance			
Date	Time	By	Parameter	Result	Notes	Quantity	Method	Precision	Accuracy
								% RPD	% Recovery
03/23	1330	EDA	Chloride (as Cl)	< 0.5 mg/L			SM 2011 4500 Cl C	0.00	89.9 *
03/19	1045	HMK	pH	5.9 S.U.			SM 2011 4500-H+B	0.00	N/A *
03/30	1542	BXW	Solids, Total Dissolved	164.0 mg/L			SM 2011 2540 C	0.60	N/A *
03/19	1045	HMK	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

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Signature _____

Environmental Services Co., Inc.

KWA

Environmental Services Company, Inc.

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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 :

Laboratory Analysis

Analysis						Quality Assurance			
Date	Time	By	Parameter	Result	Notes	Quantity	Method	Precision	Accuracy
								% 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	pH	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				N/A	N/A
03/19	1015	HMK	Depth to Water	11.83 Feet				N/A	N/A

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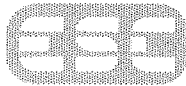
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Signature _____



Environmental Services Co., Inc.

KMM



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

Sampler Name(s): Hayden Kelly
and Signature: [Signature]

Sample Date: 3/19/21

Sample Identification (Customer #)	Laboratory Control Number	Sample Time:	Depth To Water	Total Well Depth	pH				Specific Conductance				Temperature Degrees C				Cl, TDS (1L Plastic ≤ 6 Deg C)	NO3+N O2 (8 oz Plastic H2SO4)
					#1	#2	#3	Time	#1	#2	#3	Time	#1	#2	#3	Time		
Clinton Wells					#1	#2	#3	Time	#1	#2	#3	Time	#1	#2	#3	Time		
#13 (507)	2103010411	1100	9'9"	15'4"	6.5	6.5	6.4	1100	13	13	13	1100	12.7	13.4	12.9	1100	X	X
#14 (508)	2103010412	1045	9'4"	13'1"	5.9	5.9	5.9	1045	23	30	29	1045	11.9	12.3	12.0	1045	X	X
#16 (509)	2103010413	NO FLOW		14'0"	<hr/>				<hr/>				<hr/>				X	X
#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	X	X

Relinquished by: Hayden Kelly Time: 3/19/21 Received By Lab: [Signature] Date: 3/19/21 Time: 1750
Comments:

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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 :

<u>Laboratory Analysis</u>							<u>Quality Assurance</u>	
<u>Analysis</u>			<u>Result</u>	<u>Notes</u>	<u>Quantity</u>	<u>Method</u>	<u>Precision</u>	<u>Accuracy</u>
<u>Date</u>	<u>Time</u>	<u>By</u>	<u>Parameter</u>				<u>% RPD</u>	<u>% Recovery</u>
06/28	1035	BXW	Chloride (as Cl)	4.9 mg/L		SM 2011 4500 Cl C	0.00	100.0 *
06/24	0855	WGW	pH	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

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Signature *Krist Mullis*
 Environmental Services Co., Inc.

BXW

Environmental Services Company, Inc.

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 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 :

<u>Laboratory Analysis</u>							<u>Quality Assurance</u>	
<u>Analysis</u>			<u>Result</u>	<u>Notes</u>	<u>Quantity</u>	<u>Method</u>	<u>Precision</u>	<u>Accuracy</u>
<u>Date</u>	<u>Time</u>	<u>By</u>	<u>Parameter</u>				<u>% RPD</u>	<u>% Recovery</u>
06/28	1035	BXW	Chloride (as Cl)	< 0.5 mg/L		SM 2011 4500 Cl C	0.00	100.0 *
06/24	0915	WGW	pH	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

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Signature *Krist Mullis*
 Environmental Services Co., Inc.

3XW

Environmental Services Company, Inc.

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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			Parameter	Result	Notes	Quantity	Method
Date	Time	By					
06/24	0900	WGW	Dry Well	1.00			

Quality Assurance	
Precision	Accuracy
% RPD	% Recovery
N/A	N/A

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Signature 
 Environmental Services Co., Inc.

B&W

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Northwest Arkansas Branch
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 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 :

Laboratory Analysis

Analysis						Quality Assurance			
Date	Time	By	Parameter	Result	Notes	Quantity	Method	Precision	Accuracy
								% 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	pH	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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Signature 
 Environmental Services Co., Inc.



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

Sample Identification (Customer #)	Laboratory Control Number	Sample Time:	Depth To Water	Total Well Depth	pH				Specific Conductance				Temperature Degrees C				Cl, TDS (LL Plastic 1/6 Deg C)	NO3-N O2 (8 oz Plastic 1/250A)
					#1	#2	#3	Time	#1	#2	#3	Time	#1	#2	#3	Time		
Clinton East Wells					#1	#2	#3	Time	#1	#2	#3	Time	#1	#2	#3	Time		
#13 (507)	2106010566	0850	13' 5"	15' 4"	7.2	7.2	7.2	0855	107.7	107.6	107.4	0855	25	25	25	0855	X	X
#14 (508)	2106010907	0910	11' 1"	13' 1"	7.2	7.2	7.2	0915	101	101.6	100.2	0915	25	25	20	0915	X	X
#16 (509)	2106010568	No Flow	⁽⁰⁸⁴⁾ 14' 0"														X	X
#17 (649)	2106010569	0830	12' 6"	17' 6"	7.1	7.1	7.1	0835	69.2	69.2	69.0	0835	25	25	25	0835	X	X

Relinquished by: William Willoughby Time: 1333 Received By Lab: [Signature] Date: 6/24/21 Time: 1333
 Comments:

BXV

Environmental Services Company, Inc.

Corporate Office
 13715 West Markham
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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

Analysis			Laboratory Analysis				Quality Assurance		
Date	Time	By	Parameter	Result	Notes	Quantity	Method	Precision % RPD	Accuracy % 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	pH	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

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Signature _____


 Environmental Services Co., Inc.

BXW

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 website: www.esclabs.com

Environmental Services Company, Inc.
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 1107 Century
 Springdale, AR 72764

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

CHAIN OF CUSTODY

Phone 479-750-1170 Fax 479-750-1172

Client Information				Project Information						Requested Parameters									
Company Name: Clinton, East GW13				Permit/Project #: AR0048836						TDS(27.), Chloride(7.) NO2 + NO3(91.)									
Address: P.O. Box 277				Purchase Order #:															
Clinton, AR 72031				Work Order #:															
Telephone: 501-745-4320				Sampler Name(s): DAVID PIERCE															
Contact: Mr. Phil Graham				and Signature(s): David Pierce															
FAX: 501-745-2164																			
ESC Client Number: 507																			
Sample Identification		Sample Collection				Sample Containers													
	ESC Control #	Date	Time	Type	Matrix	Type	Volume	Preservative	#										
Well #13	2107010261	07/26/21	1410	Grab	Water	Plastic	1 Liter	≤ 6 Deg C	1	X									
	I	I	I	Grab	Water	Plastic	1 Liter	H2SO4	1		X								
Relinquished By: (Signature and Printed Name)		Date	Time	Received By: (Signature and Printed Name)		Date	Time	Custody Seals:											
Relinquished By: (Signature and Printed Name)		Date	Time	Received By: (Signature and Printed Name)		Date	Time	Used? <input checked="" type="checkbox"/> Intact? <input type="checkbox"/>											
Relinquished By: (Signature and Printed Name)		Date	Time	Received for Lab By: (Signature and Printed Name)		Date	Time	Turnaround:											
David Pierce DAVID PIERCE		07/26/21	1640	[Signature]		7/26/21	1340	Regular <input checked="" type="checkbox"/> Special <input type="checkbox"/>											
Cool all samples to ≤ 6 degrees C with ice.								Were samples properly preserved:											
								Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>											
Comments:				Flow Data		Field/Test		Time		Analyst		Result		Result		Units			
						pH:		1415		DMP		6.3		6.7		S.U.			
						Sp Cond:		1625		DMP		167.0		167.0		U NHOS			
						Reading:													
						Units:													
Total Depth-99.10:		15 ft 4 in																	
H2O Depth - 99.9:		8 ft 1 in																	
						Chlorinated? Y N		Fecal Start:										This Document is Page 1 of 1	

Environmental Services Company, Inc.

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
 Customer/Permit No. : 508 / AR0048836 001
 Report Date : 07/30/21

Sample Date : 07/26/21
 Sample Time : 1330
 Sample Type : GRAB WATER
 Sample From : WELL#14

Collected By: DMP
 Delivery By : DMP
 Work Order :
 Purchase Order :

Laboratory Analysis

<u>Analysis</u>							<u>Quality Assurance</u>		
<u>Date</u>	<u>Time</u>	<u>By</u>	<u>Parameter</u>	<u>Result</u>	<u>Notes</u>	<u>Quantity</u>	<u>Method</u>	<u>Precision</u>	<u>Accuracy</u>
								<u>% RPD</u>	<u>% Recovery</u>
07/30	1410	EJD	Chloride (as Cl)	10.0 mg/L			SM 2011 4500 Cl C	18.18	101.0 *
07/26	1335	DMP	pH	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 umho/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 Feet				N/A	N/A
07/26	1330	DMP	Depth to Water	9.45 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.

Environmental Services Company, Inc.
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Environmental Services Company, Inc.
 Northwest Branch
 1107 Century
 Springdale, AR 72764

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

CHAIN OF CUSTODY

Phone 479-750-1170 Fax 479-750-1172

Client Information				Project Information						Requested Parameters									
Company Name: Clinton, East GW14				Permit/Project #: AR0048836						TDS(27.), Chloride(7.) NO2 + NO3(91.)									
Address: P.O. Box 277				Purchase Order #:															
Clinton, AR 72031				Work Order #:															
Telephone: 501-745-4320				Sampler Name(s): DAVID PIERCE															
Contact: Mr. Todd Burgess				and Signature(s): David Pierce															
FAX: 501-745-2164																			
ESC Client Number: 508																			
Sample Identification		Sample Collection				Sample Containers													
	ESC Control #	Date	Time	Type	Matrix	Type	Volume	Preservative	#										
Well # 14	2107010262	07/26/21	1330	Grab	Water	Plastic	1 Liter	≤ 6 Deg C	1	X									
	↓	↓	↓	Grab	Water	Plastic	1 Liter	H2SO4	1	X									
Relinquished By: (Signature and Printed Name)		Date	Time	Received By: (Signature and Printed Name)			Date	Time	Custody Seals:										
Relinquished By: (Signature and Printed Name)		Date	Time	Received By: (Signature and Printed Name)			Date	Time	Used? <input checked="" type="checkbox"/> Intact? <input type="checkbox"/>										
Relinquished By: (Signature and Printed Name)		Date	Time	Received for Lab By: (Signature and Printed Name)			Date	Time	Turnaround: Regular <input checked="" type="checkbox"/> Special <input type="checkbox"/>										
Cool all samples to ≤ 6 degrees C with ice.		Date	Time	Flow Data			Field Test	Time	Analyst	Result	Result	Units	Were samples properly preserved: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>						
Comments:					Analyst:			pH:	1335 DMP	6.0	6.0	S.U.							
					Time:			Sp Cond:	1630 DMP	103.3	103.3	UMHOS							
					Reading:														
					Units:														
Total Depth-99.10:		13ft 2in			Chlorinated? Y N			Fecal Start:			This Document is Page 1 1								
H2O Depth - 99.9:		9ft 4.5in																	

BXV

Environmental Services Company, Inc.

Corporate Office
 13715 West Markham
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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 :

Laboratory Analysis

Analysis			<u>Laboratory Analysis</u>				
<u>Date</u>	<u>Time</u>	<u>By</u>	<u>Parameter</u>	<u>Result</u>	<u>Notes</u>	<u>Quantity</u>	<u>Method</u>
07/26	1250	DMP	Dry Well	0.00			

<u>Quality Assurance</u>	
<u>Precision</u>	<u>Accuracy</u>
<u>% RPD</u>	<u>% Recovery</u>
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.

Environmental Services Company, Inc.
 Corporate Office
 13715 West Markham P.O. Box 55146
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Environmental Services Company, Inc.
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 1107 Century
 Springdale, AR 72764

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

CHAIN OF CUSTODY

Phone 479-750-1170 Fax 479-750-1172

Client Information				Project Information						Requested Parameters						
Company Name: Clinton, East GW16				Permit/Project #: AR0048836						TDS(27.), Chloride(7.) NO2 +NO3(91.)						
Address: P.O. Box 277 Clinton, AR 72031				Purchase Order #:												
Telephone: 501-745-4320				Work Order #												
Contact: Mr. Todd Burgess				Sampler Name(s): DAVID PIERCE												
FAX: 501-745-2164				and Signature(s): <i>David Pierce</i>												
ESC Client Number: 509																
Sample Identification		Sample Collection			Sample Containers											
	ESC Control #	Date	Time	Type	Matrix	Type	Volume	Preservative	#							
Well #16	2107019263	07/26/21		Grab	Water	Plastic	1 Liter	≤ 6 Deg C	1	X						
	↓	↓		Grab	Water	Plastic	1 Liter	H2SO4	1	X						
Relinquished By: (Signature and Printed Name)		Date	Time	Received By: (Signature and Printed Name)			Date	Time	Custody Seals: Used? <input checked="" type="checkbox"/> Intact? <input type="checkbox"/>							
Relinquished By: (Signature and Printed Name)		Date	Time	Received By: (Signature and Printed Name)			Date	Time	Turnaround: Regular <input checked="" type="checkbox"/> Special <input type="checkbox"/>							
Relinquished By: (Signature and Printed Name) <i>David Pierce DAVID PIERCE</i>		Date 07/26/21	Time	Received for Lab By: (Signature and Printed Name)			Date	Time	Were samples properly preserved: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>							
Cool all samples to ≤ 6 degrees C with ice.				Flow Data		Field Test	Time	Analyst	Result	Result	Units					
Comments: <i>Dry well</i>				Analyst:		pH:										
				Time:		Sp Cond:										
				Reading:												
				Units:												
Total Depth-99.10:		<i>14ft</i>														
H2O Depth - 99.9:						Chlorinated? Y N	Fecal Start:				This Document is Page <u>1</u> of <u>1</u>					

BXLW

Environmental Services Company, Inc.

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 13715 West Markham
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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 :

Laboratory Analysis

<u>Analysis</u>							<u>Quality Assurance</u>		
<u>Date</u>	<u>Time</u>	<u>By</u>	<u>Parameter</u>	<u>Result</u>	<u>Notes</u>	<u>Quantity</u>	<u>Method</u>	<u>Precision</u>	<u>Accuracy</u>
								<u>% RPD</u>	<u>% Recovery</u>
07/30	1410	EJD	Chloride (as Cl)	10.0 mg/L			SM 2011 4500 Cl C	18.18	101.0 *
07/26	1225	DMP	pH	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

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

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Signature


 Environmental Services Co., Inc.

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Environmental Services Company, Inc.
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 1107 Century
 Springdale, AR 72764

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

CHAIN OF CUSTODY

Phone 479-750-1170 Fax 479-750-1172

Client Information				Project Information						Requested Parameters										
Company Name: Clinton, East GW17				Permit/Project #: AR0048747						TDS(27.), Chloride(7.) NO2 + NO3(91.)										
Address: P.O. Box 277				Purchase Order #:																
Clinton, AR 72031				Work Order #:																
Telephone: 501-745-4320				Sampler Name(s): DAVID PIERRE																
Contact: Mr. Todd Burgess				and Signature(s): <i>David Pierre</i>																
FAX: 501-745-2164																				
ESC Client Number: 649																				
Sample Identification		Sample Collection				Sample Containers														
	ESC Control #	Date	Time	Type	Matrix	Type	Volume	Preservative	#											
Vell # 17	2107010264	07/26/21	1220	Grab	Water	Plastic	1 Liter	≤ 6 Deg C	1	X										
	L	L	L	Grab	Water	Plastic	1 Liter	H2SO4	1	X										
Relinquished By: (Signature and Printed Name)		Date	Time	Received By: (Signature and Printed Name)			Date	Time	Custody Seals:											
Relinquished By: (Signature and Printed Name)		Date	Time	Received By: (Signature and Printed Name)			Date	Time	Used? <input checked="" type="checkbox"/> Intact? <input type="checkbox"/>											
Relinquished By: (Signature and Printed Name)		Date	Time	Received By: (Signature and Printed Name)			Date	Time	Turnaround: Regular <input checked="" type="checkbox"/> Special <input type="checkbox"/>											
Relinquished By: (Signature and Printed Name)		Date	Time	Received for Lab By: (Signature and Printed Name)			Date	Time	Were samples properly preserved: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>											
Cool all samples to < 6 degrees C with ice.				Flow Data		Field Test		Time	Analyst	Result	Result	Units								
Comments:				Analyst:		pH:		1225	DMP	5.5	5.5	3.0								
				Time:		Sp Cond:		1635	DMP	65.2	65.2	UMHOS								
				Reading:		Units:														
Total Depth-99.10:		17ft 6in																		
H2O Depth - 99.9:		11ft 8in																		
				Chlorinated? Y N		Fecal Start:		This Document is Page <u>L</u> / 1												

Environmental Services Company, Inc.

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 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 Analysis

Analysis			Laboratory Analysis				Quality Assurance		
Date	Time	By	Parameter	Result	Notes	Quantity	Method	Precision % RPD	Accuracy % 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	pH	6.1 S.U.			SM 2011 4500-H+B	0.00	N/A *
12/20	0550	NTR	Solids, Total Dissolved	180.0 mg/L			SM 2011 2540 C	2.26	N/A *
12/13	0920	JGK	Spec. Conductance @ 25 C	168.200 umho/c			EPA 120.1	0.12	N/A
12/13	0920	JGK	Temperature	9.80 °C			SM 2000 2550 B	0.00	N/A
12/13	1000	NTR	Nitrate + Nitrite	0.89 mg/L			HACH 10206	4.21	101.8 *
12/13	0920	JGK	Well Depth, Total	15.25 Feet				N/A	N/A
12/13	0920	JGK	Depth to Water	9.66 Feet				N/A	N/A

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Signature


 Environmental Services Co., Inc.

RAH

Environmental Services Company, Inc.

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

Analysis			Laboratory Analysis				Quality Assurance		
Date	Time	By	Parameter	Result	Notes	Quantity	Method	Precision	Accuracy
								% RPD	% Recovery
12/15	0940	DWC	Chloride (as Cl)	10.0 mg/L			SM 2011 4500 Cl C	0.00	98.0 *
12/13	0910	JGK	pH	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				N/A	N/A
12/13	0910	JGK	Depth to Water	10.25 Feet				N/A	N/A

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Signature



Environmental Services Co., Inc.

2/1

Environmental Services Company, Inc.

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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 From : #16 (509)

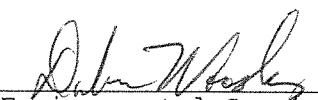
Collected By: JGK
 Delivery By : JGK
 Work Order :
 Purchase Order :

Laboratory Analysis

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

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Signature 
 Environmental Services Co., Inc.

B/E

Environmental Services Company, Inc.

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: 2112010373
 Customer Name : CLINTON, EAST GW17
 Customer/Permit No. : 649 / AR0048747 001
 Report Date : 01/04/22

Sample Date : 12/13/21
 Sample Time : 0900
 Sample Type : GRAB WELL WATER
 Sample From : #17 (649)

Collected By: JGK
 Delivery By : JGK
 Work Order :
 Purchase Order :

Laboratory Analysis

Analysis			<u>Laboratory Analysis</u>				<u>Quality Assurance</u>		
<u>Date</u>	<u>Time</u>	<u>By</u>	<u>Parameter</u>	<u>Result</u>	<u>Notes</u>	<u>Quantity</u>	<u>Method</u>	<u>Precision</u>	<u>Accuracy</u>
								<u>% RPD</u>	<u>% Recovery</u>
12/15	0940	DWC	Chloride (as Cl)	10.0 mg/L			SM 2011 4500 Cl C	0.00	98.0 *
12/13	0900	JGK	pH	5.1 S.U.			SM 2011 4500-H+B	0.00	N/A *
12/20	0550	NTR	Solids, Total Dissolved	60.0 mg/L			SM 2011 2540 C	2.26	N/A *
12/13	0900	JGK	Spec. Conductance @ 25 C	69.000 umho/c			EPA 120.1	0.12	N/A *
12/13	0900	JGK	Temperature	17.10 °C			SM 2000 2550 B	0.00	N/A *
12/13	1000	NTR	Nitrate + Nitrite	5.06 mg/L			HACH 10206	4.21	101.8 *
12/13	0900	JGK	Well Depth, Total	17.50 Feet				N/A	N/A
12/13	0900	JGK	Depth to Water	14.25 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.





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

Sampler Name(s): J. Kwernski
 and Signature: _____

Sample Date: 12/13/21

Sample Identification (Customer #)	Laboratory Control Number	Sample Time:	Depth To Water	Total Well Depth	pH				Specific Conductance				Temperature Degrees C				Cl, TDS (1L Plastic V6 Deg C)	NO3-N O2 (8 oz Plastic H2SO4)
					#1	#2	#3	Time	#1	#2	#3	Time	#1	#2	#3	Time		
Clinton Wells					#1	#2	#3	Time	#1	#2	#3	Time	#1	#2	#3	Time		
#13 (507)	2112010370	0920	9'8"	15'4"	6.1	6.0	6.0	0920	168.2	168.0	168.2	0920	9.8	9.8	9.8	0920	X	X
#14 (508)	2112010371	0910	10'3"	13'1"	5.7	5.8	5.7	0910	108.2	108.0	108.2	0910	13.7	13.5	13.7	0910	X	X
#16 (509)	2112010372	0945	Dry	14'0"	Dry well			0945	Dry well			0945	Dry well			0945	X	X
#17 (649)	2112010373	0900	14'3"	17'6"	5.1	5.0	5.1	0900	69.0	69.4	69.4	0900	17.1	17.3	17.1	0900	X	X

Relinquished by: _____ Time: 1607 Received By Lab: Amelia Atkinson Date: 12/13/21 Time: 1607

Comments: _____

Handwritten mark

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

FAX#: 501-221-1341

FROM: Clinton Water & Sewer

PAGES INCLUDING COVER PAGE: 1

MESSAGE: Yearly Report 2021

East Plant: 68,112 mg, 193.5 Inches, 2283.19 Acres

West Plant: No Discharge

Crops Grown: Bermuda Hay

East side Land Owners: Steve Bone & Will Dawson

West side Land Owners: Danny Boone & Ray Grey Jennings

IF ALL PAGES ARE NOT RECEIVED PLEASE NOTIFY AT ONCE!