Clinton Water & Sewer East Plant

Annual Report
Permit AR0048836 & 5130-WR-2
January 2019 – December 2019



Environmental Services Company, Inc.

Corporate Office
13715 West Markham

Little Rock, Arkansas 72211

501-221-2565 (p)

501-221-1341 (f)

www.esclabs.com

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 5130-WR-2 Irrigation Water Calendar Year 2019

			2019 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	72.864	86.00	847,255.8	14.141	
Sodium Absorption Ratio	38.2285	72.864	86.00	847,255.8	270.302	
Fecal Coliform	< 1.0000	72.864	86.00	847,255.8	7.071	
Total Suspended Solids	2.5000	72.864	86.00	847,255.8	17.677	
Potassium	2.7290	72.864	86.00	847,255.8	19.296	
Total Phosphorus	0.4400	72.864	86.00	847,255.8	3.111	
Total Kjeldahl Nitrogen	7.1500	72.864	86.00	847,255.8	50.555	736.75
Ammonia Nitrogen	1.7600	72.864	86.00	847,255.8	12.444	189.72
Nitrate + Nitrite Nitrogen	1.5575	72.864	86.00	847,255.8	11.013	124.62
BOD-5	18.9000	72.864	86.00	847,255.8	133.636	1,304.44
Arsenic	< 0.0093	72.864	86.00	847,255.8	0.065	0.61
Cadmium	< 0.0048	72.864	86.00	847,255.8	0.034	0.28
Copper	< 0.0065	72.864	86.00	847,255.8	0.046	0.34
Lead	< 0.0119	72.864	86.00	847,255.8	0.084	0.73
Mercury	< 0.0010	72.864	86.00	847,255.8	0.007	0.10
Selenium	< 0.0103	72.864	86.00	847,255.8	0.072	0.82
Zinc	0.0210	72.864	86.00	847,255.8	0.149	5.36
Conductivity, minimum (mhos/cm)*	138.00					
Conductivity, maximum (mhos/cm)*	188.00					
pH, minimum (SU)*	7.20					
pH, maximum (SU)*	9.40					
Nitrogen Application Rate (lbs N/acre/year)	28.65					

*Current year values

Crop Grown: Bermuda Hay

Sample ID	Clinton East	40.24 LA PB 3						
Control Number	1902010165							
	1s	t Quarter	2n	d Quarter	3rc	d Quarter	4tl	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	02/07/19	1.230						
Ammonia Nitrogen	02/07/19	.1130						
PAN	02/07/19	1.34						
Phosphorous	02/07/19	.6940						
Potassium	02/07/19	45390.98						
Arsenic	02/07/19	305.35						
Cadmium	02/07/19	30.28						
Copper	02/07/19	391.79						
Lead	02/07/19	532.92						
Magnesium	02/07/19	33327.32						
Mercury	02/07/19	<3.501						
Nickel	02/07/19	861.65						
Zinc	02/07/19	2542.81						
Conductivity (mhos/cm)	02/07/19	13.2						
pH (SU)	02/07/19	7.3						

Sample ID	Clinton East	40.24 LA PB 30						
Control Number	1902010166							
	1si	t Quarter	2n	d Quarter	3rc	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	02/07/19	2.778						
Ammonia Nitrogen	02/07/19	.4690						
PAN	02/07/19	2.24						
Phosphorous	02/07/19	1.26						
Potassium	02/07/19	123382.24						
Arsenic	02/07/19	908.87						
Cadmium	02/07/19	36.08						
Copper	02/07/19	859.09						
Lead	02/07/19	1298.08						
Magnesium	02/07/19	96210.25						
Mercury	02/07/19	<3.622						
Nickel	02/07/19	2227.46						
Zinc	02/07/19	5526.81						
Conductivity (mhos/cm)	02/07/19	7.6						
pH (SU)	02/07/19	7.3						

Sample ID	Clinton East	55.57 LA PB 10						
Control Number	1902010167							
								
	lst	t Quarter	2no	d Quarter	3rc	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	02/07/19	0.675						
Ammonia Nitrogen	02/07/19	0.096						
PAN	02/07/19	0.77						
Phosphorous	02/07/19	0.4450						
Potassium	02/07/19	23893.74						
Arsenic	02/07/19	181.60						
Cadmium	02/07/19	21.34						
Copper	02/07/19	219.96						
Lead	02/07/19	296.95						
Magnesium	02/07/19	21734.67						
Mercury	02/07/19	<3.1880						
Nickel	02/07/19	219.96						
Zinc	02/07/19	1003.07						
Conductivity (mhos/cm)	02/07/19	4.00						
pH (SU)	02/07/19	7.30						

Sample ID	Clinton East	55.57 LA PB 3						
Control Number	1902010167							
	1 1	0	2	10	2	1.0	1 4.1	0
		t Quarter		d Quarter		d 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	02/07/19	1.146						
Ammonia Nitrogen	02/07/19	0.1940						
PAN	02/07/19	1.34						
Phosphorous	02/07/19	0.712						
Potassium	02/07/19	23868.67						
Arsenic	02/07/19	137.05						
Cadmium	02/07/19	16.83						
Copper	02/07/19	183.95						
Lead	02/07/19	273.95						
Magnesium	02/07/19	22980.57						
Mercury	02/07/19	<3.1640						
Nickel	02/07/19	451.74						
Zinc	02/07/19	1055.91						
Conductivity (mhos/cm)	02/07/19	4.900						
pH (SU)	02/07/19	7.10						

Sample ID	Clinton East	55.57 LA PB 30						
Control Number	1902010169							
	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	02/07/19	< 0.389						
Ammonia Nitrogen	02/07/19	< 0.0030						
PAN	02/07/19	< 0.39						
Phosphorous	02/07/19	0.4270						
Potassium	02/07/19	44490.56						
Arsenic	02/07/19	158.14						
Cadmium	02/07/19	12.98						
Copper	02/07/19	178.94						
Lead	02/07/19	411.02						
Magnesium	02/07/19	31937.48						
Mercury	02/07/19	<3.3090						
Nickel	02/07/19	461.26						
Zinc	02/07/19	1689.86						
Conductivity (mhos/cm)	02/07/19	3.600						
pH (SU)	02/07/19	7.00						

Sample ID	Clinton East	LA Airport 9						
Control Number	1902010170							
	1					ī		
	1s	t Quarter	2n	d Quarter	3rc	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	02/07/19	2.199						
Ammonia Nitrogen	02/07/19	0.5530						
PAN	02/07/19	2.75						
Phosphorous	02/07/19	1.1720						
Potassium	02/07/19	31948.29						
Arsenic	02/07/19	202.87						
Cadmium	02/07/19	11.35						
Copper	02/07/19	176.66						
Lead	02/07/19	386.39						
Magnesium	02/07/19	21768.76						
Mercury	02/07/19	<3.2920						
Nickel	02/07/19	517.33						
Zinc	02/07/19	857.00						
Conductivity (mhos/cm)	02/07/19	3.10						
pH (SU)	02/07/19	7.3						

Sample ID	Clinton East	LA WD 13				•		•
Control Number	1902010171							
	1s	st Quarter	2n	d Quarter	3r	d Quarter	4t	th 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	02/07/19	2.741						
Ammonia Nitrogen	02/07/19	0.7060						
PAN	02/07/19	3.44						
Phosphorous	02/07/19	1.5840						
Potassium	02/07/19	28505.16						
Arsenic	02/07/19	199.58						
Cadmium	02/07/19	12.29						
Copper	02/07/19	166.31						
Lead	02/07/19	293.67						
Magnesium	02/07/19	18737.81						
Mercury	02/07/19	<3.1440						
Nickel	02/07/19	464.33						
Zinc	02/07/19	832.65						
Conductivity (mhos/cm)	02/07/19	4.100						
pH (SU)	02/07/19	7.20						

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: 1903010554

Customer Name : CLINTON, EAST IW

Customer/Permit No. : 619 / AR0048836 001

Report Date : 08/02/22

Sample Date: 03/28/19

Sample Time : 1110
Sample Type : GRAB WWATER

Sample From : IRRIGATION WATER

Collected By: JGK Delivery By : JGK

Work Order : Purchase Order :

		Laboratory Analysis			Ouality :	Assurance
Analysis					Precision	Accuracy
<u>Date Time By</u>	<u> Parameter</u>	Result Notes	Quantity	Method	% RPD	% Recovery
03/29 0800 TCF	BOD, 5-day	16.1 mg/L		SM 2011 5210 B	0.00	93.6 *
04/01 1600 PJC	Ammonia as N, (HACH/SM)	$0.09~{ m mg/L}$		SM 2011 4500-NH3-G	1.36	101.5 *
04/05 1400 TCF	Total Kjeldahl Nitrogen	$5.2~{ m mg/L}$		02/2014 HACH 10242	1.04	98.5 *
04/04 1700 PJC	Potassium	2.7290 mg/L		EPA 200.8	0.56	96.6 *
03/28 1115 JGK	рН	9.4 S.U.		SM 2011 4500-H+B	0.00	N/A *
04/04 1700 PJC	Copper	< 0.0030 mg/L		EPA 200.8	1.76	92.8
04/04 1700 PJC	Zinc	$0.0169~{ m mg/L}$		EPA 200.8	1.26	98.3
04/04 1700 PJC	Arsenic	< 0.0100 mg/L		EPA 200.8	1.68	96.6
04/04 1700 PJC	Selenium	< 0.0100 mg/L		EPA 200.8	0.59	96.6
03/28 1115 JGK	Spec. Conductance @ 25 C	138.000 umho/c		EPA 120.1	0.00	N/A
04/04 1700 PJC	Cadmium	< 0.00400 mg/L		EPA 200.8	0.03	96.3
04/02 1400 PJC	Mercury	< 0.0010 mg/L		EPA 245.7	1.69	114.3
04/04 1700 PJC	Lead	< 0.01000 mg/L		EPA 200.8	1.40	98.1
	Nitrate + Nitrite	1.16 mg/L		HACH 10206	2.08	99.4 *
04/05 0800 PJC	Sodium Absorption Ratio	38.2285 Ratio		AGRN 724		77.1

* 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 Company, Inc. Corporate Office

13715 West Markham

Phone: 501-221-2565

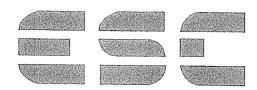
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Springdale, Arkansas 479-750-1170

Carlsbad, New Mexico 575-887-1ESC

CHAIN OF CUSTODY

	С	lient Inf	ormation				Pro	oject Inf	ormation	1	******			Rec	jues	ted	Para	ame	ters	5
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Address:	····	P.O. Bo	x 277			Purchase	Order#:													
		Clinton,	AR 72031			Work Orde	er#							£						
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Fax:		501-745	-2164		**************************************	•	(" / "		100 (1) C	M.CON				Ž +		ents				
Contact:		Mr. Phil	Graham			and Signa	ture(s)·	$\overline{}$, C					Š		Comments)				
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Identifica	tion	ESC (Control #	Date	Time	Туре	Matrix	Туре	Volume	Preserva	manners and	#	BOD(3.)	NH3-N(15.A), NO3 + NO2(91.)	TKN(16.C)	Metals (See				
Irrigatio	on Water	19030	0554	3/28/19	1110	Grab	Wwater	Plastic	1 Liter	Cool ≤ 6° C		π <u> </u>	<u>π</u>	Z	<u> </u>	2				
		1	<u> </u>	41	11	Grab	Wwater	Plastic	8 oz	Cool ≤ 6* C, H2SO4 to pH <2	-	-	^	V	V		$\left - \cdot \right $			
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7.7			·				-	•		Date	Time		Regu	eround Iar	 _	ı	Spec	ial [l
Relinquished By: (Signal		and Printed Name) ICACASCALL 3/2819 1530					By: (Signature an	d Printed Nan	10)	3-28-19	Time 1930	e			les pr	pperly	preser	ved:	lament patent	
·							FIOW D	ata	Field Test		Analys		Resu	Yes	Rest	ult 1		No Units		MARIO PEREZO
Comments: N	Metals: Hg(50.15), Cu(29.HW), Zn(30.HW), As(33.HV Cd(48.HW), Рb(82.HW), 00.MD					, Se(34.HW)	Analyst: Time:	**************************************	pH:	1115	שע		9.1	4	9.	4	S.U.		transma, part	
	, , , , , , , , , , , , , , , , , , ,						Reading:		Conduct:	<u> 445</u>	N		134	210	134	5-0	U MH	ios		
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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: 1906010425

Customer Name : CLINTON, EAST IW

Customer/Permit No. : 619 / AR0048836 001

Report Date : 07/10/19

Sample Date : 06/27/19 Sample Time : 0940

Sample Type : GRAB WWATER Sample From : IRRIGATION WATER Collected By: JGK Delivery By : JGK

Work Order : Purchase Order :

	Quality :	Assurance			
Analysis				Precision	Accuracy
Date Time By	Parameter	Result Notes	Quantity Method	% RPD	% Recovery
06/28 0700 DWC	BOD, 5-day	$24.00~{ m mg/L}$	SM 2011 5210 B	0.00	95.1 *
07/03 0900 JJM	Ammonia as N, (HACH/SM)	$0.06~{ m mg/L}$	H/SM 11 10205/4500	3.04	100.2 *
07/05 0830 PJC	Total Kjeldahl Nitrogen	5.8 mg/L	02/2014 HACH 10242	2.67	99.2
06/27 0945 JGK	рН	7.2 S.U.	SM 2011 4500-H+B	0.00	N/A *
06/28 1700 PJC	Copper	$0.00900~{ m mg/L}$	EPA 200.8	2.36	98.8
06/28 1700 PJC	Zinc	$0.0182~{ m mg/L}$	EPA 200.8	9.11	114.3
06/28 1700 PJC	Arsenic	< 0.0100 mg/L	EPA 200.8	4.17	115.0
06/28 1700 PJC	Selenium	< 0.0100 mg/L	EPA 200.8	1.10	85.3
06/27 0945 JGK	Spec. Conductance @ 25 C	184.600 umho/c	SM1997 2510B	0.00	N/A *
06/28 1700 PJC	Cadmium	< 0.0040 mg/L	EPA 200.8	3.39	110.7
07/05 1400 PJC	Mercury	< 0.0010 mg/L	EPA 245.1	9.54	101.1
07/08 1700 PJC	Lead	< 0.0100 mg/L	EPA 200.8	0.08	96.8
07/05 1030 PJC	Nitrate + Nitrite	2.39 mg/L	HACH 10206	3.24	98.9

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

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Signature

Environmental Services Company, Inc. Corporate Office

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

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Springdale, Arkansas 479-750-1170

Carlsbad, New Mexico 575-887-1ESC

CHAIN OF CUSTODY

	Client Information	Client Information				ala at Ind						**********	شسست		Selection (mile)		
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Client:	Clinton, East IW			Permit/Pro	ject #:		AR00488	336								l	
Address:	P.O. Box 277			Purchase	Order #:					1							
	Clinton, AR 72031	1		Work Orde						7	91.)						
Phone:	501-745-4320			Sampler N	lame(s):	7	Knoern . Les	5 (1.1.	l	1	05(©				
Fax:	501-745-2164			1						1	+ 2		nent				
Contact:	Mr. Phil Graham			and Signa	ture(s):	=	11.	ا سرمہ دسرہ	7	1	S N		Comments)				
ESC Client Number:	619			1	, ,	$\overline{/}$			***************************************	1	5.A),		(See C				
Sample Id	dentification		Sample	Collection	ollection Sample (Containers	3	(e)	N.	(16.0	s) sı				
Identification	ESC Control #	Date	Time	Туре	Matrix	Туре	Volume	Preserva	ative #	BOD(3.)	NH3-N(15.A), NO3 + NO2(91.)	TKN(16.C)	Metals (
Irrigation Wa	ter [a06010425	W-27-19	0940	Grab	Wwater	Plastic	1 Liter	Cool ≤ 6° C			1			m			
		Ų,	11	Grab	Wwater	Plastic	8 oz	Cool ≤ 6° C, H2SO4 to pH <2	1	1	X	Х			\exists	\top	
		·~	14	Grab	Wwater	Plastic	1 Liter	HNO3 to p	H <2 1				Х		\neg	T	
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Relinquished By: (Signature and F	rinted Name)	Date	Time	Received By: (Sig	gnature and Printe	d Name)		Date	Time	Used	around	~//\ :	<u></u>	Intact	7		\dashv
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f.10 15	· Kroenid G	1827/19	1515	6/65	1 Ogke	Calto		6-27-19	1515		Yes	les pic	peny	presen	vea: No		
No.	U-(50.45) O-(00.1)M	g(50.15), Cu(29.HW), Zn(30.HW), As(33.HW				ata	Field Test		Analyst	Res	ult	Resu			Jnits		
Comments: Metals: Cd(48.F	Hg(50.15), Cu(29.HVV), HVV), Pb(82.HVV), 00.MD	As(33.HW),	Se(34.HW)	Analyst: Time:		pH: Conduct:	७१५८	Ju		. 2	7.		S.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: 1907010248

Sample Date : 07/29/19

Collected By: TMO

Customer Name : CLINTON, EAST IW

Sample Time : 1020

Delivery By : TMO

Customer/Permit No. : 619 / AR0048836 001

Work Order :

Report Date : 08/07/19

Sample Type : GRAB WWATER Sample From : IRRIGATION WATER

Purchase Order :

		Laboratory Analysis		Quality 1	<u>Assurance</u>
Analysis				Precision	Accuracy
Date Time By	<u>Parameter</u>	Result Notes	Quantity Method	% RPD	% Recovery
07/31 0700 DWC	BOD, 5-day	22.70 mg/L	SM 2011 5210 B	2.61	103.5
07/31 1300 PJC	Ammonia as N, (HACH/SM)	0.14 mg/L	H/SM 11 10205/4500	2.38	100.5 *
08/06 1300 PJC	Total Kjeldahl Nitrogen	7.3 mg/L	02/2014 HACH 10242	1.05	100.8 *
07/29 1024 TMO	На	7.3 S.U.	SM 2011 4500-H+B	0.00	N/A
08/02 1700 PJC	Copper	0.00630 mg/L	EPA 200.8	1.08	107.8 *
08/02 1700 PJC	Zinc	0.0296 mg/L	EPA 200.8	1.59	97.7 *
08/02 1700 PJC	Arsenic	< 0.0100 mg/L	EPA 200.8	0.66	97.6
08/02 1700 PJC	Selenium	< 0.0100 mg/L	EPA 200.8	4.40	99.3 *
07/29 1024 TMO	Spec. Conductance @ 25 C	181.000 umho/c	SM1997 2510B	0.00	N/A
08/02 1700 PJC	Cadmium	< 0.0040 mg/L	EPA 200.8	1.95	99.5 *
08/05 1400 PJC	Mercury	< 0.0010 mg/L	EPA 245.1	0.27	102.7
08/02 1700 PJC	Lead	< 0.0100 mg/L	EPA 200.8	0.45	102.5 *
07/31 1530 PJC	Nitrate + Nitrite	2.13 mg/L	HACH 10206	0.51	98.8

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

Services Co.,

^{*} OA data shown is from a different sample or standard on the same date.

Environmental Services Company, Inc. Corporate Office

13715 West Markham

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Little Rock, AR 72211 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

	С	lient Information		NACONO SERVIZATE VICE NACONALISMO		Pro	oject Inf	ormation					Rec	ques	ted	Par	ame	eters	3
Client:		Clinton, East IW			Permit/Pro	oject #:		AR00488	336										
Address:		P.O. Box 277			Purchase	Order #:													
		Clinton, AR 72031			Work Ord	er#				A			91.)						
Phone:		501-745-4320			Sampler N	lame(s):	Tim	othy	O'Nea	7			102((s				
Fax:		501-745-2164				, ,		7		1			+ ~		nent				
Contact:		Mr. Phil Graham			and Signa	ture(s):	Mari	well c	5 Ylack	/			ÖN		Comments)				
ESC Client Nur	mber:	619				()		10 lg =					NH3-N(15.A), NO3 + NO2(91.)	□					
Sam	ple Ideni	tification		Sample	Collection	***************************************		Sample (Containers			D(3.)	N(18	16.C	s (S				
Identifical		ESC Control #	Date	Time	Туре	Matrix	Туре	Volume	Preserva	-	#	ВОБ	FH3-	TKN(16.C)	Metals (See				
Irrigatio	on Water	1907010248	7-29-19	1020	Grab	Wwater	Plastic	1 Liter	Cool ≤ 6° C		1	X	_	F					
*		1	1	1000	Grab	Wwater	Plastic	8 oz	Cool ≤ 6° C, H2SO4 to pH <2	'	<u> </u>	 ^	Х	Х					
					Grab	Wwater	Plastic	1 Liter	HNO3 to pi	U ~2	'		 ^	 ^	х				\vdash
			\		Ciab	vvwatei	Flastic	1 Litei	INIVOS to pi		-				<u> </u>				\vdash
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Relinquished By: (Signal								****				Used	?	N	<u> </u>	Intac	it?		<u> </u>
Relinquished by. (Signal	ture and Printed	Name)	Date	Time	Received By: (Si	gnature and Printe	d Name)		Date	Time		i uma Regu	around ılar		ĺ	Spec	cial I	***************************************	ĺ
Relinquished By: (Signat	ture and Printed	Name) Iim. H.D.Wul	7-29-19	1425		By- (Signature an	d Printed Nam	(e) / A	Date	Time	,	Were	samp	les pr	perly	prese	rved:		i
MANA	ma	IIMSTAU II WI	7-29-19	172)	Ded (Flow D		Field Test	7- <i>27-19</i> Time	<i>/ ५/≳</i> Analys		Resi	Yes	Resu	ilf 1		No Units		
Comments:// N	/letals: Hg((50.15), Cu(29.HW), Z	n(30.HW), /	As(33.HW),	Se(34.HW)	Analyst:		pH:	1024	TEN	-		3	7.	3	S.U.			
<i>v</i> (d(48.HW),	Pb(82.HW), 00.MD				Time:		Conduct:	1824	Tho			10	18	(0)	U MF	IOS		
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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: 1910010350

Customer Name : CLINTON, EAST IW

Customer/Permit No. : 619 / AR0048836 001

Report Date : 11/15/19

Sample Date: 10/24/19

Sample Time : 1506

Sample Type : GRAB WWATER Sample From : IRRIGATION WATER Collected By: NTR
Delivery By : NTR

Work Order : Purchase Order :

		Laboratory Analys	<u>is</u>			Quality A	Assurance
Analysis						Precision	Accuracy
Date Time By	Parameter	Result	<u>Notes</u>	Quantity	Method	% RPD	% Recovery
10/25 0700 DWC	BOD, 5-day	12.80 mg/	L		SM 2011 5210 B	0.00	106.6 *
10/28 0845 DWC	Ammonia as N, (HACH/SM)	6.75 mg/	L		H/SM 11 10205/4500	2.45	99.2 *
11/12 0900 TCF	Total Kjeldahl Nitrogen	10.3 mg/	L		02/2014 HACH 10242	3.77	103.9
10/24 1507 NTR	рн	7.6 S.U	•		SM 2011 4500-H+B	0.00	N/A *
10/31 1700 PJC	Copper	0.00750 mg/	L		EPA 200.8	3.06	89.1 *
10/31 1700 PJC	Zinc	0.0194 mg/	L		EPA 200.8	1.01	91.5 *
10/31 1700 PJC	Arsenic	< 0.0070 mg/	L		EPA 200.8	4.44	89.8 *
10/31 1700 PJC	Selenium	< 0.0110 mg/	L		EPA 200.8	4.72	89.7 *
10/24 1507 NTR	Spec. Conductance @ 25 C	188.000 umh	.o/c		SM1997 2510B	0.33	N/A *
10/31 1700 PJC	Cadmium	< 0.0070 mg/	L		EPA 200.8	2.23	89.1 *
11/06 1400 PJC	Mercury	< 0.0010 mg/	L		EPA 245.1	4.62	88.9
10/31 1700 PJC	Lead	0.0174 mg/	L		EPA 200.8	1.93	90.2 *
10/30 1230 PJC	Nitrate + Nitrite	0.55 mg/	L		HACH 10206	0.35	98.0 *

 $\mbox{*}$ 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



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Springdale, Arkansas 479-750-1170

Carlsbad, New Mexico 575-887-1ESC

CHAIN OF CUSTODY

	C	lient Information				Pro	oject Inf	ormation					Req	ues	ted	Para	ame	ters	-
Client:		Clinton, East IW			Permit/Pro	ject #:		AR00488	336			-							
Address:		P.O. Box 277			Purchase (Order #:													
_		Clinton, AR 72031			Work Orde	er#							91.)						
Phone:		501-745-4320			Sampler N	ame(s):		Ned R	yerson				NH3-N(15.A), NO3 + NO2(91.)		(S)				
Fax:		501-745-2164			1	` ,	<u>£</u>		7				4 + 8		Comments)			l	
Contact:		Mr. Phil Graham			and Signat	ture(s):		Ynd	Ono -		٦		Š.		L L				
ESC Client Nu		619			1	, 5(5).		V - CV	~~ \		一		(F)					İ	
	nple Ideni	*************************************		Sample	Collection			Sample (Containers		-	3.)	N(15	TKN(16.C)	Metals (See			ı	
Identifica		ESC Control #	Date	Time	Туре	Matrix	Туре	Volume	Preserva		#	BOD(3.)	포	Ϋ́	letal			1	
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Irrigati \	on vvater	1910010350	10-24-19	1506	Grab	Wwater	Plastic	1 Liter	Cool ≤ 6° C		1	<u>X</u>	 			\vdash	-+	-+	
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		(50.15), Cu(29.HW),	Zn(30.HW), <i>I</i>	4s(33.HW),	Se((84.HW)			pH:	1507	NIR		7.		7.		S.U.			
	Cu(40.HVV)	, Pb(82.HW), 00.MD	·····	·····		Time: Reading:		Conduct:	1507	NO	\dashv	18	X	19	0	U MF	103	 	
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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: 1903010316

Customer Name : CLINTON, EAST 001

Report

Customer/Permit No. : 495 / AR0048836 001

Composite Date: 03/27/19 -03/28/19 Sample Time : 0900-0900/1055(3-28)

Sample Type : 24 HR COMP/GRAB WW

Collected By: PG/JGK Delivery By : JGK

Work Order :

rt Date : 04/05/19	Sample From : FINAL EFFLUENT	Purchase Order :

		Laboratory Analysis			Quality <i>P</i>	ssurance
Analysis					Precision	Accuracy
Date Time By	Parameter	Result Notes	Quantity	Method	응 RPD	% Recovery
03/28 1100 JGK	Dissolved Oxygen	9.90 mg/L	88.28 #/day	SM 2001 4500-0 G	0.00	N/A
04/01 1600 PJC	Ammonia as N, (HACH/SM)	0.07 mg/L	0.62 #/day	H/SM 11 10205/4500	1.36	101.5 *
03/28 1100 JGK	рН	8.1 S.U.		SM 2000 4500-H+B	0.00	N/A
04/04 1200 PJC	Solids, Total Suspended	< 2.50 mg/L	22.29 #/day	SM 2011 2540 D	0.00	N/A *
03/28 1600 TCF	E. Coliforms	1.0 /100ml		06/2012 Colilert18	0.00	N/A
03/28 1600 TCF	Fecal Coliform	< 1.0 /100ml		06/2012 Colilert18	0.00	N/A
03/29 0800 TCF	BOD, Carbonaceous	< 2.00 mg/L	17.83 #/day	SM 2011 5210 B	0.68	96.8 *

Flow 1.070000 MGD

* 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 Inf	formation)	***************************************			Req	ues	ted	Para	ame	ters	;
Company Name:	Clinton, East 001			Permit/Pro	ject #:		AR00488	836										
Address:	P.O. Box 277			Purchase (Order #:		-				ĺ		<u></u>					
	Clinton, AR 72031			Work Orde	er#								Coli(43.2)					
Telephone:	501-745-4320			Sampler N	ame(s):	Phil	Grah	1 m					Coli					
Contact:	Mr. Phil Graham			1	• •		noen			\neg	(;)		Ë					
FAX:	501-745-2164			and Signat	ure(s):	PLO	Dish	3000		$\neg \neg$	TSS(28.)		(43.					
ESC Client Number	er: 495 (3X per week)			1		\mathcal{L}	- (~	$\neg \neg$		₹	Coliform (43.),					
Sample	Identification		Sample	Collection		V	Sample (Containers	۹	-)(70.	Z(15.						
Identification	ESC Control #	Date	Time	Туре	Matrix	Туре	Volume	7		#	CBOD(70.),	NH3-N(15.A)	Fecal					
Final Effluent	1903010316	3-27-19	9 An	24Hr. Comp	Wwater	Plastic	1/2 Gai	Cool ≤ 6° C	-	1	X			\dashv	\dashv	十	\dashv	
				24Hr. Comp	Wwater	Plastic	1 Liter	Cool ≤ 6° C, H2SO4 to pH <2		1		х		\neg	\dashv	\dashv	\top	
		3/28/19	1085	Grab	Wwater	Whirlpak	150 mls	Cool <10° C, Na2S2O3		1		\bigcap	х	-	\top	\dashv	\dashv	
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J					Flow Da		Field Test		Analys		Resu		Resul	t		Jnits		
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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: 1901010456

Customer Name : CLINTON, EAST 001

Customer/Permit No. : 495 / AR0048836 001

Report Date : 01/31/19

Composite Date: 01/13/19 -01/14/19

Sample Time : 0900-0900/1155(1-14)

Sample Type : 24 HR COMP/GRAB WW Sample From : FINAL EFFLUENT

Collected By: PG/TMO

Delivery By : TMO

Work Order : Purchase Order :

		Laboratory Analysis			Quality A	Assurance
Analysis					Precision	Accuracy
<u>Date Time By</u>	Parameter	Result Notes	Quantity	Method	% RPD	% Recovery
01/14 1159 TMO	Dissolved Oxygen	11.60 mg/L	114.07 #/day		0.00	N/A *
01/30 1530 PJC	Ammonia as N, (HACH/SM)	2.93 mg/L	28.81 #/day	H/SM 11 10205/4500	2.28	98.3 *
01/14 1159 TMO	рН	7.5 S.U.		SM 2000 4500-H+B	0.00	N/A *
01/17 1000 TCF	Phosphorous, Total (as P)	0.440 mg/L	4.33 #/day	HACH 10209	0.00	99.5 *
01/29 0900 PJC	Solids, Total Suspended	16.50 mg/L	162.25 #/day	SM 2011 2540 D	3.48	N/A *
04/14 1630 TCF	E. Coliforms	275.5 /100ml		06/2012 Colilert18	0.00	N/A
01/14 1630 TCF	Fecal Coliform	387.3 /100ml		06/2012 Colilert18	0.00	N/A
01/16 0645 DWC	BOD, Carbonaceous	4.30 mg/L	42.28 #/day	SM 2011 5210 B	0.00	104.6 *
01/17 1400 TCF	Nitrate + Nitrite	0.50 mg/L	4.92 #/day	HACH 10206	3.92	96.8 *
				į		

Flow 1.180000 MGD

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Signature

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Fax: 501-221-1341



Springdale, Arkansas 479-750-1170

Carlsbad, New Mexico 575-887-1ESC

CHAIN OF CUSTODY

	C	Client Information				Pro	oject Inf	ormation				Reg	ues	ted F	⁵ ara	met	ers
Client:		Clinton, East 001			Permit/Pro	ject #:		AR0048	836								at .
Address:		P.O. Box 277			Purchase (Order #:							3.IE)				
		Clinton, AR 72031			Work Orde	er#		, 9					Coli(43.1E)				
Phone:		501-745-4320			Sampler N	ame(s):	Phil	60	chan				ы				
Fax:		501-745-2164					Tin	nothy	ONEGI		 						
Contact:		Mr. Phil Graham			and Signat	ure(s):	81-1	1 1	6		TSS(28.)		Coliform (43.IF),				
ESC Client Num	nber:	495 (3X per week)]	(-).	1/1000	ALC.	1/06/			₹	form				
Sam	ple Iden	tification		Sample	Collection		1 / 2///		Containers		0/20	V(15	Col				
Identificati	on	ESC Control #	Date	Time	Туре	Matrix	Туре	Volume	Preservative	e #	CBOD(70.),	NH3-N(15.A)	Fecal				
Final Efflu	ent	1901010456	1-13-17	9Am	24Hr. Comp	Wwater	Plastic	1/2 Gal	Cool ≤ 6° C	1	Х	_				\top	
			- /	1	24Hr. Comp	Wwater	Plastic	8 oz	Cool < 6° C, H2SO4 to pH <2	1		х			\top	+	
			1-14-19	1155	Grab	Wwater	Whirlpak	4 oz	Cool ≤ 6 °C	2			х	+	+	+	_
		12.6												+	+	+	+
100		8					ar i r						1	+	+	+	+
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Relinquished By: (Signatu	re and Printed	11/1	Date 1-13-19	Time 9 Am	Received By: (Sign	nature and Printed	Name)	i'h(au)	Date	h 12		dy Sea	-				
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Comments:						Analyst: 77		Grab pH: Grab DO:		mo	7,4	5	75		.U. g/L		
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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: 1902010165

Customer Name : CLINTON, EAST 40.24 LA PB 3

Customer Number: 3004
Report Date: 02/28/19

Sample Date : 02/07/19 Sample Time : 1241

Sample Type : GRAB SOIL

Sample From : EAST LA 40.24 PB3

Collected By: NTR Delivery By: NTR

Work Order : Purchase Order :

		Laboratory Analysis				Ouality A	Assurance
Analysis						Precision	Accuracy
<u>Date Time By</u>	Parameter	Result	Notes _	Quantity	Method	% RPD	% Recovery
02/21 1600 PJC	Ammonia Nitrogen	0.1130 mg/kg			SM 1997 4500-NH3 C	0.20	99.6
02/20 1400 PJC	Mercury	< 3.5010 mg/Kg			SW-846 7474 02/07	7.37	95.0
02/22 1500 PJC	Nitrate Nitrogen	1.230 mg/kg			SM 2000 4500-NO3 E	0.19	98.4
02/22 1300 PJC	Phosphorous, Total (as P)	0.6940 mg/kg			EPA 365.3	0.63	98.6
02/13 1700 PJC	Magnesium	33327.32 mg/Kg			SW-846 6020A	0.71	98.9
02/13 1700 PJC	Potassium	45390.98 mg/Kg			SW-846 6020A	8.61	106.9
02/22 1700 PJC	pH Soil	7.30 S.U.			SW846 9045C	1.38	N/A
02/13 1700 PJC	Nickel	861.65 mg/Kg			SW-846 6020A	1.01	100.7
02/13 1700 PJC	Copper	391.79 mg/Kg			SW-846 6020A	4.60	101.5
02/13 1700 PJC	Zinc	2542.81 mg/Kg			SW-846 6020A	3.73	101.2
02/22 1600 NTR	Nitogen, Plant Available	1.34 mg/kg			33 MSA 2nd Ed		
02/13 1700 PJC	Arsenic	305.35 mg/Kg			SW-846 6020A	1.74	106.0
02/22 1100 PJC	Specific Conductance	13.2000 umhos			EPA (MOD)9050A	0.47	100.9 *
02/13 1700 PJC	Cadmium	30.28 mg/Kg			SW-846 6020A	1.21	99.1
02/12 1200 PJC	Solids, % Total	71.409 %			SM 1997 2540 G	3.92	N/A *
02/13 1700 PJC	Lead	532.92 mg/Kg			SW-846 6020A	0.04	100.6
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Signature

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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: 1902010166

Customer Name : CLINTON, EAST 40.24 LA PB 30

Customer Number : 3003

Report Date : 02/28/19

Sample Date : 02/07/19

Sample Time : 1252

Sample Type : GRAB SOIL
Sample From : EAST LA 40.24 PB30

Collected By: NTR Delivery By : NTR

Work Order : Purchase Order :

		Laboratory An	alysis			Ouality	Assurance
Analysis						Precision	Accuracy
Date Time By	Parameter	Result	Notes	Quantity	Method	% RPD	% Recovery
02/21 1600 PJC	Ammonia Nitrogen	0.4690	mg/kg		SM 1997 4500-NH3 C	0.20	99.6 *
02/20 1400 PJC	Mercury	< 3.6220			SW-846 7474 02/07	7.37	95.0 *
02/22 1500 PJC	Nitrate Nitrogen	2.778	mg/kg		SM 2000 4500-NO3 E	0.19	98.4 *
02/22 1300 PJC	Phosphorous, Total (as P)	1.2600	mg/kg		EPA 365.3	0.63	98.6 *
02/13 1700 PJC	Magnesium	96210.25	mg/Kg		SW-846 6020A	0.71	98.9 *
02/13 1700 PJC	Potassium	123382.24	mg/Kg		SW-846 6020A	8.61	106.9 *
02/22 1700 PJC	pH Soil	7.30	S.U.		SW846 9045C	1.38	N/A *
02/13 1700 PJC	Nickel	2227.46	mg/Kg		SW-846 6020A	1.01	100.7 *
02/13 1700 PJC	Copper	859.09			SW-846 6020A	4.60	101.5 *
02/13 1700 PJC	Zinc	5526.81	mg/Kg		SW-846 6020A	3.73	101.2 *
02/22 1600 NTR	Nitogen, Plant Available	2.24	mg/kg		33 MSA 2nd Ed	1	
02/13 1700 PJC	Arsenic	908.87	mg/Kg		SW-846 6020A	1.74	106.0 *
02/22 1100 PJC	Specific Conductance	7.6000	umhos		EPA (MOD)9050A	0.47	100.9 *
02/13 1700 PJC	Cadmium	36.08	mg/Kg		SW-846 6020A	1.21	99.1 *
02/12 1200 PJC	Solids, % Total	69.027	%		SM 1997 2540 G	3.92	N/A *
02/13 1700 PJC	Lead	1298.08	mg/Kg		SW-846 6020A	0.04	100.6 *
					i		

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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: 1902010167

Customer Name : CLINTON, EAST 55.57 LA PB 10

Customer/Permit No.: 511 / AR0048836 001

Report Date : 02/28/19

Sample Date : 02/07/19

Sample Time : 1310

Sample Type : GRAB SOIL

Sample From : EAST LA 55.57 PB10

Collected By: NTR

Delivery By : NTR

Work Order : Purchase Order :

		Laboratory An	alysis				Quality A	Assurance
Analysis						İ	Precision	Accuracy
Date Time By	Parameter	Result		es Quant:	ity	Method	_ % RPD	% Recovery
02/21 1600 PJC	Ammonia Nitrogen	0.0960	mg/kg			SM 1997 4500-NH3 C	0.20	99.6 *
02/20 1400 PJC	Mercury	< 3.1880	mg/Kg			SW-846 7474 02/07	7.37	95.0 *
02/22 1500 PJC	Nitrate Nitrogen	0.675	mg/kg			SM 2000 4500-NO3 E	0.19	98.4 *
02/22 1300 PJC	Phosphorous, Total (as P)	0.4450	mg/kg			EPA 365.3	0.63	98.6 *
02/13 1700 PJC	Magnesium	21734.67	mg/Kg			SW-846 6020A	0.71	98.9 *
02/13 1700 PJC	Potassium	23893.74	mg/Kg			SW-846 6020A	8.61	106.9 *
02/22 1700 PJC	pH Soil	7.30	S.U.			SW846 9045C	1.38	N/A *
02/13 1700 PJC	Nickel	452.05				SW-846 6020A	1.01	100.7 *
02/13 1700 PJC	Copper	219.96	mg/Kg			SW-846 6020A	4.60	101.5 *
02/13 1700 PJC	Zinc	1003.07				SW-846 6020A	3.73	101.2 *
02/22 1600 NTR	Nitogen, Plant Available	0.77	mg/kg			33 MSA 2nd Ed		
02/13 1700 PJC	Arsenic	181.60	mg/Kg			SW-846 6020A	1.74	106.0 *
02/22 1100 PJC	Specific Conductance	4.0000				EPA (MOD) 9050A	0.47	100.9 *
02/13 1700 PJC	Cadmium	21.34	mg/Kg			SW-846 6020A	1.21	99.1 *
02/12 1200 PJC	Solids, % Total	78.410	%			SM 1997 2540 G	3.92	N/A *
02/13 1700 PJC	Lead	296.95	mg/Kg			SW-846 6020A	0.04	100.6 *

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

Control Number: 1902010168

Customer Name : CLINTON, EAST 55.57 LA PB 3

Customer Number: 3002 Report Date: 02/28/19 Sample Date : 02/07/19 Sample Time : 1318

Sample Type : GRAB SOIL

Sample From : EAST LA 55.57 PB3

Collected By: NTR Delivery By : NTR

Work Order : Purchase Order :

		Laboratory Ana	lysis				Quality A	Assurance
Analysis							Precision	Accuracy
<u>Date Time By</u>	Parameter	Result		tes Quan	tity	Method	% RPD	% Recovery
02/21 1600 PJC	Ammonia Nitrogen	0.1940	mg/kg			SM 1997 4500-NH3 C	0.20	99.6 *
02/20 1400 PJC	Mercury	< 3.1640	mg/Kg			SW-846 7474 02/07	7.37	95.0 *
02/22 1500 PJC	Nitrate Nitrogen	1.146	mg/kg			SM 2000 4500-NO3 E	0.19	98.4 *
02/22 1300 PJC	Phosphorous, Total (as P)	0.7120	mg/kg			EPA 365.3	0.63	98.6 *
02/13 1700 PJC	Magnesium	22980.57	mg/Kg			SW-846 6020A	0.71	98.9 *
02/13 1700 PJC	Potassium	23868.67	mg/Kg			SW-846 6020A	8.61	106.9 *
02/22 1700 PJC	pH Soil	7.10	S.U.			SW846 9045C	1.38	N/A *
02/13 1700 PJC	Nickel	451.74	mg/Kg			SW-846 6020A	1.01	100.7 *
02/13 1700 PJC	Copper	183.95				SW-846 6020A	4.60	101.5 *
02/13 1700 PJC	Zinc	1055.91				SW-846 6020A	3.73	101.2 *
02/22 1600 NTR	Nitogen, Plant Available	1.34	mg/kg			33 MSA 2nd Ed		
02/13 1700 PJC	Arsenic	137.05	mg/Kg			SW-846 6020A	1.74	106.0 *
02/22 1100 PJC	Specific Conductance	4.9000				EPA (MOD) 9050A	0.47	100.9 *
02/13 1700 PJC	Cadmium	16.83	mg/Kg			SW-846 6020A	1.21	99.1 *
02/12 1200 PJC	Solids, % Total	79.011	%			SM 1997 2540 G	3.92	N/A *
02/13 1700 PJC	Lead	273.95	mg/Kg			SW-846 6020A	0.04	100.6 *
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Control Number: 1902010169

Customer Name : CLINTON, EAST 55.57 LA PB 30

Customer Number : 3001 Report Date : 02/28/19 Sample Date : 02/07/19

Sample Time : 1331

Sample Type : GRAB SOIL Sample From : EAST LA 55.57 PB30 Collected By: NTR Delivery By : NTR

Work Order : Purchase Order :

		Laboratory Analysis			Quality 1	Assurance
Analysis					Precision	Accuracy
<u>Date Time By</u>	Parameter	Result Note	es Quantity	Method	% RPD	% Recovery
02/21 1600 PJC	Ammonia Nitrogen	< 0.0030 mg/kg		SM 1997 4500-NH3 C	0.20	99.6 *
02/20 1400 PJC	Mercury	< 3.3090 mg/Kg		SW-846 7474 02/07	7.37	95.0 *
02/22 1500 PJC	Nitrate Nitrogen	< 0.389 mg/kg		SM 2000 4500-NO3 E	0.19	98.4 *
02/22 1300 PJC	Phosphorous, Total (as P)	0.4270 mg/kg		EPA 365.3	0.63	98.6 *
02/13 1700 PJC	Magnesium	31937.48 mg/Kg		SW-846 6020A	0.71	98.9 *
02/13 1700 PJC	Potassium	44490.56 mg/Kg		SW-846 6020A	8.61	106.9 *
02/22 1700 PJC	pH Soil	7.00 S.U.		SW846 9045C	1.38	N/A *
02/13 1700 PJC	Nickel	461.26 mg/Kg		SW-846 6020A	1.01	100.7 *
02/13 1700 PJC	Copper	178.94 mg/Kg		SW-846 6020A	4.60	101.5 *
02/13 1700 PJC	Zinc	1689.86 mg/Kg		SW-846 6020A	3.73	101.2 *
02/11 1600 NTR	Nitogen, Plant Available	< 0.39 mg/kg		33 MSA 2nd Ed		
02/13 1700 PJC	Arsenic	158.14 mg/Kg		SW-846 6020A	1.74	106.0 *
02/22 1100 PJC	Specific Conductance	3.6000 umhos		EPA (MOD) 9050A	0.47	100.9 *
02/13 1700 PJC	Cadmium	12.98 mg/Kg		SW-846 6020A	1.21	99.1 *
	Solids, % Total	75.553 %		SM 1997 2540 G	3.92	N/A *
02/13 1700 PJC	Lead	411.02 mg/Kg		SW-846 6020A	0.04	100.6 *
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Control Number: 1902010170

Customer Name : CLINTON, EAST LA AIRPORT9

Customer Number: 2959
Report Date: 03/01/19

Sample Date : 02/07/19

Sample Time : 1353
Sample Type : GRAB SOIL

Sample From : EAST LA AIRPORT9

Collected By: NTR Delivery By: NTR

Work Order : Purchase Order :

		Laboratory Analys	is			Quality 1	Assurance
Analysis						Precision	Accuracy
Date Time By	Parameter	Result	<u>Notes</u>	Quantity	Method	% RPD	% Recovery
02/21 1600 PJC	Ammonia Nitrogen	0.5530 mg/	kg		SM 1997 4500-NH3 C	0.20	99.6 *
02/20 1400 PJC	Mercury	< 3.2920 mg/			SW-846 7474 02/07	7.37	95.0 *
02/22 1500 PJC	Nitrate Nitrogen	2.199 mg/	kg		SM 2000 4500-NO3 E	0.19	98.4 *
02/22 1300 PJC	Phosphorous, Total (as P)	1.1720 mg/	kg		EPA 365.3	0.63	98.6 *
02/13 1700 PJC	Magnesium	21768.76 mg/	Kg		SW-846 6020A	0.71	98.9 *
02/13 1700 PJC	Potassium	31948.29 mg/	Kg		SW-846 6020A	8.61	106.9 *
02/22 1700 PJC	pH Soil	7.30 S.U			SW846 9045C	1.38	N/A *
02/13 1700 PJC	Nickel	517.33 mg/	Kg		SW-846 6020A	1.01	100.7 *
02/13 1700 PJC	Copper	176.66 mg/			SW-846 6020A	4.60	101.5 *
02/13 1700 PJC	Zinc	857.00 mg/	Kg		SW-846 6020A	3.73	101.2 *
02/22 1600 NTR	Nitogen, Plant Available	2.75 mg/	kg		33 MSA 2nd Ed		
02/13 1700 PJC	Arsenic	202.87 mg/	Kg		SW-846 6020A	1.74	106.0 *
02/22 1100 PJC	Specific Conductance	3.1000 umh	os		EPA (MOD)9050A	0.47	100.9 *
02/13 1700 PJC	Cadmium	11.35 mg/	Kg		SW-846 6020A	1.21	99.1 *
02/12 1200 PJC	Solids, % Total	75.933 %			SM 1997 2540 G	3.92	N/A *
02/13 1700 PJC	Lead	386.39 mg/	Kg		SW-846 6020A	0.04	100.6 *

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

Control Number: 1902010171

Customer Name : CLINTON, EAST LA WD13

Customer Number : 2960 Report Date : 03/01/19 Sample Date : 02/07/19

Sample Time : 1419

Sample Type : GRAB SOIL Sample From : EAST LA WD13

Collected By: NTR

Delivery By : NTR Work Order : Purchase Order :

		Laboratory Ana	alysis		•	Ouality .	Assurance
Analysis					-	Precision	Accuracy
<u>Date Time By</u>	Parameter	Result	Notes	Quantity	Method	% RPD	% Recovery
02/21 1600 PJC	Ammonia Nitrogen	0.7060	mg/kg		SM 1997 4500-NH3 C	0.20	99.6
02/20 1400 PJC	Mercury	< 3.1440	3, 3		SW-846 7474 02/07	7.37	95.0 *
02/22 1500 PJC	Nitrate Nitrogen	2.741	mg/kg		SM 2000 4500-NO3 E	0.19	98.4 *
02/22 1300 PJC	Phosphorous, Total (as P)	1.5840	mg/kg		EPA 365.3	0.63	98.6 *
02/13 1700 PJC	Magnesium	18737.81	mg/Kg		SW-846 6020A	0.71	98.9 *
02/13 1700 PJC	Potassium	28505.16	mg/Kg		SW-846 6020A	8.61	106.9 *
02/22 1700 PJC	pH Soil	7.20	S.U.		SW846 9045C	1.38	N/A *
02/13 1700 PJC	Nickel	464.33	mg/Kg		SW-846 6020A	1.01	100.7 *
02/13 1700 PJC	Copper	166.31			SW-846 6020A	4.60	101.5 *
02/13 1700 PJC	Zinc	832.65			SW-846 6020A	3.73	101.2 *
02/22 1600 NTR	Nitogen, Plant Available		mg/kg		33 MSA 2nd Ed		
02/13 1700 PJC	Arsenic	199.58	mg/Kg		SW-846 6020A	1.74	106.0 *
02/22 1100 PJC	Specific Conductance	4.1000			EPA (MOD) 9050A	0.47	100.9 *
02/13 1700 PJC	Cadmium	12.29	mg/Kg		SW-846 6020A	1.21	99.1 *
02/12 1200 PJC	Solids, % Total	79.517			SM 1997 2540 G	3.92	N/A *
02/13 1700 PJC	Lead	293.67	mg/Kg		SW-846 6020A	0.04	100.6 *
					9		

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Signature

Environmental Services Company, Inc. Corporate Office

13715 West Markham

P.O. Box 55146

Little Rock, AR 72211

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							Requested Parameters						
Client:		Clinton, City of (East	st Land App	0)	Permit/Pro	ject #:		5,7		1	Pail y							
Address:	= 4	P.O. Box 277			Purchase	Order #:							6:	()				
		Clinton, AR 72031			Work Orde	Work Order#				ıts)	s(01	Cond(35.M)	Ŝ					
Phone:		501-745-4320		7.700	Sampler N	Sampler Name(s): Ned Ryeisan					omments)	Pho)puc	PAN(33.AN)				
Fax:		Mr. Phil Graham	i						1			om.	1.3),		PAN			
Contact:		501-745-2164			and Signa	ture(s):	in	w 8.	, _			O	0)ue	Spec				
ESC Client Nur	mber:	Various	9		1	. ,			5	,		(Se	troge	3.8)	ia(01			
Sam	ple Iden	tification		Sample	Collection			Sample (Containers	3		als	te Ni	pH(23.S),	Ammonia(01.1),			
Identificat	ion	ESC Control #	Date	Time	Туре	Matrix	Туре	Volume	Preserva	ative	#	Metals	Nitrate Nitrogen(01.3), Phos(01.9)	Soil	Am			
East LA 40.24 PB3	3 (3004)	1402010165	2-7-19	1241	Grab	Soil	Glass	1 Liter	Cool ≤ 6° C	;	1	х	Х	Х	х			
East LA 40.24 PB3	30 (3003)	1902010/66	2-7-19	1252	Grab	Soil	Glass	1 Liter	Cool ≤ 6° C	186	1	Х	Х	х	х			
East LA 55.57 PB1	0 (511)	1902010167	2-7-19	1310	Grab	Soil	Glass	1 Liter	Cool ≤ 6° C	;	1	х	х	х	х			
East LA 55.57 PB3	(3002)	1902010168	2-7-19	1318	Grab	Soil	Glass	1 Liter	Cool ≤ 6° C	;	1	х	Х	х	х			
East LA 55.57 PB3	30 (3001)	1902010169	2-7-19	1331	Grab	Soil	Glass	1 Liter	Cool ≤ 6° C	;	1	Х	Х	Х	х			
East LA Airport9 (2	959)	1902010170	2-7-19	1353	Grab	Soil	Glass	1 Liter	Cool ≤ 6° C	;	1	х	х	х	х			
East LA WD13 (29	60)	1902010171	2-7-19	1419	Grab	Soil	Glass	1 Liter	Cool <u><</u> .6° C	;	1	х	х	х	х			
					,													
Relinquished By: (Signat	ure and Printed	Name)	Date	Time	Received By: (Si	gnature and Printed	d Name)		Date	Time		usto Ised?	dy Se	als:		Intact?	F	-
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Relinquished By (Signat	ure and Printed	Name)	Date	Time	Received for Lab	By: (Signature and	d Printed Nam	ne)	Date	Time		legula Vere		es pro	perly	Special oreserve		
Med Kne	m N	ed frei-	2-7-19	1630	Scoole	waltin	600	The second secon	2-7-19	163	0		Yes	$ \angle $		No		
Comments: H	la(01 14) M	n(12.HS), K(19.HS), Ni(2	28 HS) Cu(29	HS) 7n(30 I	HS)	Analyst:	ala	Field Test	Time	Analys	t F	Resu	lt	Resu	lt	Ur	its	
		d(48.HS), Pb(82.HS), 00			10)	Time:												
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1	f/se	2820				Fecal Start:				nis	DOC	umer	ií is i	Page _	_ 01 _			

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
(478) 750-1170 Fax (478) 750-118

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

Control Number: 1903010555

Customer Name : CLINTON, EAST GW13

Customer/Permit No. : 507 / AR0048836 001

Report Date : 04/05/19

Sample Date : 03/28/19

Sample Time : 1205

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

Collected By: JGK Delivery By : JGK

Work Order : Purchase Order :

		<u>Laboratory Analysis</u>		Quality P	<u>Assurance</u>
Analysis				Precision	Accuracy
Date Time By	Parameter	Result Notes Q	uantity Method	용 RPD	% Recovery
04/01 0900 DWC	Chloride (as Cl)	16.0 mg/L	SM1997 4500ClC	0.00	96.9 *
03/28 1205 JGK	На	6.6 S.U.	SM 2000 4500-H+B	0.00	N/A *
04/02 1300 PJC	Solids, Total Dissolved	124.0 mg/L	SM1997 2540 C	1.80	N/A *
	Spec. Conductance @ 25 C	313.000 umho/c	SM1997 2510B	0.00	N/A *
03/28 1205 JGK	-	17.40 °C	SM 2000 2550 B	0.58	N/A
04/01 1600 PJC	Nitrate + Nitrite	2.12 mg/L	HACH 10206	2.08	99.4 *
	Well Depth, Total	15.40 Feet		N/A	N/A
	Depth to Water	10.00 Feet		N/A	N/A
,	-		İ		

* QA data shown is from a different sample or standard on 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: 1903010556 Sample Date: 03/28/19 Collected By: JGK
Customer Name: CLINTON, EAST GW14 Sample Time: 1230 Delivery By: JGK
Customer/Permit No.: 508 / AR0048836 001 Sample Type: GRAB WATER Work Order:

Customer/Permit No.: 508 / AR0048836 001 Sample Type: GRAB WATER WORK Order:

Report Date: 04/05/19 Sample From: EAST WELL #14 Purchase Order:

		Laboratory Anal	<u>ysis</u>			Quality A	<u>Assurance</u>
Analysis						Precision	Accuracy
Date Time By	Parameter	Result	Notes _	Quantity	Method	% RPD	% Recovery
04/01 0900 DWC	Chloride (as Cl)	12.0 mg	g/L		SM1997 4500ClC	0.00	96.9 *
03/28 1230 JGK	Нд	6.3 S	.U.		SM 2000 4500-H+B	0.00	N/A *
04/02 1300 PJC	Solids, Total Dissolved	28.0 mg	g/L		SM1997 2540 C	1.80	N/A *
03/28 1230 JGK	Spec. Conductance @ 25 C	132.100 u	mho/c		SM1997 2510B	0.00	N/A *
03/28 1230 JGK	Temperature	13.90 °	C		SM 2000 2550 B	0.58	N/A *
04/01 1600 PJC	Nitrate + Nitrite	0.61 mg	g/L		HACH 10206	2.08	99.4 *
03/28 1230 JGK	Well Depth, Total	13.10 F	eet			N/A	N/A
03/28 1230 JGK	Depth to Water	9.00 F	eet			N/A	N/A

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

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

Control Number: 1903010557

Customer Name : CLINTON, EAST GW16

Customer/Permit No. : 509 / AR0048836 001

Report Date : 04/05/19

Sample Date : 03/28/19 Sample Time : 1300

Sample Type : GRAB WATER Sample From : EAST WELL #16 Collected By: JGK Delivery By : JGK

Work Order : Purchase Order :

		Laboratory Analysis		Quality P	<u>Assurance</u>
Analysis				Precision	Accuracy
Date Time By	Parameter	Result Notes Qua	ntity Method	% RPD	% Recovery
	Chloride (as Cl)	4.0 mg/L	SM1997 4500ClC	0.00	96.9 *
03/28 1300 JGK		6.0 S.U.	SM 2000 4500-H+B	0.00	N/A *
	Solids, Total Dissolved	64.0 mg/L	SM1997 2540 C	1.80	N/A *
	Spec. Conductance @ 25 C	70.500 umho/c	SM1997 2510B	0.00	N/A *
03/28 1300 JGK		15.20 °C	SM 2000 2550 B	0.58	N/A *
	Nitrate + Nitrite	1.86 mg/L	HACH 10206	2.08	99.4
	Well Depth, Total	14.00 Feet		N/A	N/A
	Depth to Water	8.80 Feet		N/A	N/A

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

Control Number: 1903010558

Customer Name : CLINTON, EAST GW17

Customer/Permit No. : 649 / AR0048747 001

Report Date : 04/05/19

Sample Date : 03/28/19

Sample Time : 1134

Sample Type : GRAB WATER Sample From : EAST WELL #17 Collected By: JGK Delivery By : JGK

Work Order : Purchase Order :

		Laboratory Analysis		Quality A	<u>Assurance</u>
Analysis				Precision	Accuracy
Date Time By	Parameter	Result Notes Quantity	Method	% RPD	% Recovery
04/01 0900 DWC	Chloride (as Cl)	4.0 mg/L	SM1997 4500ClC	0.00	96.9 *
03/28 1134 JGK	На	6.5 S.U.	SM 2000 4500-H+B	0.00	N/A *
	Solids, Total Dissolved	76.0 mg/L	SM1997 2540 C	6.45	N/A *
	Spec. Conductance @ 25 C	93.300 umho/c	SM1997 2510B	0.00	N/A *
03/28 1134 JGK		16.30 °C	SM 2000 2550 B	0.58	N/A *
	Nitrate + Nitrite	6.48 mg/L	HACH 10206	2.08	99.4 *
	Well Depth, Total	17.60 Feet		N/A	N/A
	Depth to Water	12.00 Feet		N/A	N/A

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Signature



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

Sampler Name(s): Knownschild and Signature:

Sample Date: 3-28-19

Sample Identification (Customer #)	Laboratory Control Number	Sample Time:	Depth To Water	Total Well Depth		þ	Н		Sp	ecific Co	onducta	nce			erature ees C		CI, TDS (1L Plastic ≤ 6 Deg C)	NO3+N O2 (1 L Plastic H2504)
Clinton Ea	st Wells				#1	#2	#3	Time	#1	#2	#3	Time	#1	#2	#3	Time		
#13 (507)	19030/0555	1205	10004	15′ 4″	6-6	6.6	1/2.6	1705	313	314	313	1205	19.4	19.3	1		x	х
#14 (508)	1903010550	1230	904	13′ 1″	l .	1.	1	l		1	i	1230		1	1	1	X	X
#16 (509)	1903010557		8'8"	14′ 0″			1	li .	H .	1	1		3	ŧ	1			X
	1903010558	1134	1204	17′ 6″								1137						X
		77.0			<i>V</i>	0, 5	0.0		13.3	13.6	12.7	(1)	10. 9	10.1	16.3	1001		Х
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Relinquished	by Le 1J-Kros	ernsily, Y	Time:	1530	R	eceive	d By La	b: 6		25Al	1/in	o, Fortl	Date	 ::	8-19		ne: <i>乃含</i>	0

Comments:/

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Control Number: 1906010426

Customer Name : CLINTON, EAST GW13

Customer/Permit No. : 507 / AR0048836 001

Report Date : 07/09/19

Sample Date : 06/27/19

Sample Time : 1045

Sample Type : GRAB WWATER Sample From : WELL #13

Collected By: JGK Delivery By : JGK

Work Order : Purchase Order :

		Laboratory Ana	lysis				<u>Assurance</u>
Analysis						Precision	Accuracy
Date Time By	Parameter	Result	Notes _	Quantity	Method	% RPD	% Recovery
06/28 0800 DWC	Chloride (as Cl)	20.0	mg/L		SM1997 4500ClC	0.00	98.5 *
06/27 1045 JGK	На	6.3	S.U.		SM 2011 4500-H+B	0.00	N/A *
07/02 0900 PJC	Solids, Total Dissolved	40.0	mg/L		SM1997 2540 C	4.44	N/A *
	Spec. Conductance @ 25 C	210.000	umho/c		SM1997 2510B	0.00	N/A
06/27 1045 JGK		24.50	°C		SM 2000 2550 B	0.00	N/A
	Nitrate + Nitrite	0.90	mg/L		HACH 10206	3.24	98.9 *
	Well Depth, Total	15.40	Feet			N/A	N/A
,	Depth to Water	8.20	Feet			N/A	N/A

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Signature

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Control Number: 1906010427 Sample Date: 06/27/19 Collected By: JGK
Customer Name: CLINTON, EAST GW14 Sample Time: 1110 Delivery By: JGK
Customer/Permit No.: 508 / AR0048836 001 Sample Type: GRAB WATER
Report Date: 07/09/19 Sample From: WELL #14 Purchase Order:

	Quality Assurance						
Analysis						Precision	Accuracy
<u>Date Time By</u>	<u>Parameter</u>	Result	<u>Notes</u>	Quantity	<u> Method</u>	% RPD	% Recovery
06/28 0800 DWC	Chloride (as Cl)	< 0.1 mg/L			SM1997 4500ClC	0.00	98.5 *
06/27 1110 JGK	рН	6.4 S.U.			SM 2011 4500-H+B	0.00	N/A *
07/02 0900 PJC	Solids, Total Dissolved	24.0 mg/L			SM1997 2540 C	4.44	N/A *
06/27 1110 JGK	Spec. Conductance @ 25 C	132.700 umho/	′c		SM1997 2510B	0.00	N/A *
06/27 1110 JGK	Temperature	33.40 °C			SM 2000 2550 B	0.00	N/A *
07/05 1030 PJC	Nitrate + Nitrite	0.43 mg/L			HACH 10206	3.24	98.9 *
06/27 1110 JGK	Well Depth, Total	13.10 Feet				N/A	N/A
06/27 1110 JGK	Depth to Water	9.10 Feet				N/A	N/A

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Signature

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

Control Number: 1906010428

Customer Name : CLINTON, EAST GW16

Customer/Permit No. : 509 / AR0048836 001

Report Date : 06/28/19

Sample Date : 06/27/19

Sample Time :

Sample Type : DRY WELL Sample From : WELL #16

Collected By: Delivery By: Work Order:

Purchase Order :

	Ī	Laboratory Analys	is			Quality 1	Assurance
Analysis Date Time By 06/27 1130 JGK	Parameter Dry Well	Result 0.00	Notes _	Quantity	Method	Precision % RPD	Accuracy Recovery
00, = / = 200	227 11022	0.00				N/A	N/A

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Control Number: 1906010429

Customer Name : CLINTON, EAST GW17

Customer/Permit No. : 649 / AR0048747 001

Report Date : 07/09/19

Sample Date : 06/27/19

Sample Time : 1005

Sample Type : GRAB WATER Sample From : WELL #17

Collected By: JGK Delivery By: JGK

Work Order: 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
06/28 0800 DWC	Chloride (as Cl)	< 0.1 mg	/L		SM1997 4500ClC	0.00	98.5 *
06/27 1005 JGK	рН	5.8 S.	U.		SM 2011 4500-H+B	0.00	N/A *
07/02 0900 PJC	Solids, Total Dissolved	64.0 mg	/L		SM1997 2540 C	4.44	N/A *
06/27 1005 JGK	Spec. Conductance @ 25 C	105.100 um	ho/c		SM1997 2510B	0.00	N/A *
06/27 1005 JGK	Temperature	18.40 °C			SM 2000 2550 B	0.00	N/A *
07/05 1030 PJC	Nitrate + Nitrite	6.78 mg	/L		HACH 10206	3.24	98.9 *
06/27 1005 JGK	Well Depth, Total	17.60 Fe	et			N/A	N/A
06/27 1005 JGK	Depth to Water	11.60 Fe	et			N/A	N/A

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Signature



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

and Signature: Coeraschy

Sample Date: 47-19

Sample Identification (Customer #)	Laboratory Control Number	Sample Time:	Depth To Water	Total Well Depth		p	Н		Sp	ecific Co	onducta	nce		Tempe Degr	erature ees C		Cl, TDS (1L Plastic ≤ 6 Deg C)	NO3+N 02 (1 L Plastic H2SO4)
Clinton Ea	ast Wells	·			#1	#2	#3	Time	#1	#2	#3	Time	#1	#2	#3	Time		
#13 (507)	19060/0426	1045	8'2"	15′ 4″	6.3	6.3	6.3	1045	210	210	210	104 5	245	245	24.5	1045	x	x
#14 (508)	1906010427	ilio	9'10"	13′ 1″	6.4	6.4				132,7	132.7			İ	1	1	х	х
#16 (509)	1906010428			14′ 0″	4	ł	DCY	18	H	eil	1		<u> </u>	-	7	130	х	х
#17 (649)	Ma0010479		11/6"	17′ 6″	5.8	İ	1				(05.1		18.4	18.4	18.4	T		х
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Relinquished	by: / - 16 (J	Mooran	上山川Time:	1515	R	leceive	d By La	ıb:			***************************************		Date	: 612	7/19	Ti	ne:	

Comments:

HC.

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: 1907010249

Customer Name : CLINTON, EAST GW13

Customer/Permit No. : 507 / AR0048836 001

Report Date : 08/09/19

Sample Date : 07/29/19

Sample Time : 1122

Sample Type : GRAB WATER Sample From : WELL #13

Collected By: TMO Delivery By: TMO

Work Order : Purchase Order :

		Laboratory Anal	ysis			Quality 1	Assurance
Analysis						Precision	Accuracy
<u>Date Time By</u>	<u> Parameter</u>	Result	Notes _	Quantity	Method	% RPD	% Recovery
*.	Chloride (as Cl)	9.0 m	ıg/L		SM1997 4500ClC	0.00	99.9 *
07/29 1125 TMO	рН	6.8 S	.U.		SM 2011 4500-H+B	0.00	N/A *
07/30 0900 PJC	Solids, Total Dissolved	196.0 m	ıg/L		SM1997 2540 C	1.06	N/A *
07/29 1125 TMO	Spec. Conductance @ 25 C	275.000 u	mho/c		SM1997 2510B	0.00	N/A *
•	Nitrate + Nitrite	6.12 m	g/L		HACH 10206	0.51	98.8 *
07/29 1122 TMO	Well Depth, Total	15.40 F	'eet			N/A	N/A
07/29 1122 TMO	Depth to Water	10.20 F	eet			N/A	N/A

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Signature

13715 West Markham

P.O. Box 55146

Little Rock, AR 72215 Little Rock, AR 72211

website: www.esclabs.com

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



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

CHAIN OF CUSTODY

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

	Client Information ompany Name: Clinton, East GW13					Project Information							Ren			Para			
Company Nam	ne: Cl	inton. East GW1	13		Permit/Pro	CONTRACTOR OF THE PROPERTY OF	-,	AR0048		***************************************	-		I Ced	ues	leu	Fair	31116	lera	-
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-		inton, AR 72031									\dashv								
Tolonbono:					Work Orde			÷			\dashv								
Telephone:		01-745-4320		***************************************	Sampler N	√ame(s):	lim	vo the	O'Nec	<u> </u>		_							
Contact:		r. Phil Graham	***************************************		4					1	!	Chloride(7.)							
FAX:		1-745-2164	***		and Signat	iture(s):	Extra	moller	51/in	7			<u>:</u>					l	
ESC Client Nu	mber:	507							10-		7	5	3(9)						
Sam	ple Identific	cation		Sample	Collection			Sample	Container	S		(21.)	+NO3(91.)						
		ESC Control #	Date	Time	Туре	Matrix	Туре	Volume	T		#	108(27.)	NO2						
Well #1	3 [9	107010249	7-4-19	1122	Grab	Water	Plastic	1 Liter	≤ 6 Deg C 1			x	_				\dashv	\dashv	
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		2			Grab Water Plastic 1 Liter				H2004		╁	\dashv	<u> </u>			_	\dashv	\dashv	
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Relinquished By: (Signat	ure and Printed Nam	io the other	7 2G 19	1425	Received for Lab E	By (Signature and	Printed Nam	p)	Date	Time	V	/ere s	sampl	es pro	perly	presen	ved:		1
Cool all samples to	≤ 6 degrees C w	ith ice.	(-47711	17201	pra (Flow Da	ata (W.	Tlout Field Test	7-29-19 Time	192: Analyst			Yes	7			lo l		
Comments:/						Analyst:		pH:	1125	Analyst		esult		Resul			Jnits V	-	
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•	otal Depth-99.10: (らげ				Olina.				····	+		+		\dashv				\dashv	
H20 Depth - 99.9	·			F	Chlorinated?	ΥN	Fecal Start:			T	his I	Doci	ımen	nt is f	^o age	10	j		



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: 1907010250

Customer Name : CLINTON, EAST GW14

Customer/Permit No. : 508 / AR0048836 001

Report Date : 08/09/19

Sample Date : 07/29/19

Sample Time : 1132

Sample Type : GRAB WATER Sample From : WELL #14

Collected By: TMO Delivery By: TMO

Work Order : Purchase Order :

		Laboratory Ana	<u>alysis</u>			Quality A	ssurance
Analysis						Precision	Accuracy
<u>Date Time By</u>	<u>Parameter</u>	Result	Notes _	Quantity	Method	% RPD	% Recovery
07/29 1500 DWC	Chloride (as Cl)	13.0	mg/L		SM1997 4500ClC	0.00	99.9 *
07/29 1136 TMO	рН	7.3	S.U.		SM 2011 4500-H+B	0.00	N/A *
07/30 0900 PJC	Solids, Total Dissolved	188.0	mg/L		SM1997 2540 C	1.06	N/A *
07/29 1136 TMO	Spec. Conductance @ 25 C	281.000	umho/c		SM1997 2510B	0.00	N/A *
07/31 1530 PJC	Nitrate + Nitrite	6.56	mg/L		HACH 10206	0.51	98.8 *
07/29 1132 TMO	Well Depth, Total	13.10	Feet			N/A	N/A
07/29 1132 TMO	Depth to Water	8.70	Feet			N/A	N/A

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13715 West Markham

P.O. Box 55146

Little Rock, AR 72211

Little Rock, AR 72215

website: www.esclabs.com

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



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

CHAIN OF CUSTODY

Phone 479-750-1170

ax: 479-750-117

	Client Information ompany Name: Clinton, East GW14				Pr	oiect Inf	formation		none +	1		ques		Par			
Company Name:	Clinton, East GW1	14		Permit/Pr			AR0048			╅	<u> </u>	1	T	<u> </u>			<u> </u>
Address:	P.O. Box 277			Purchase	•		711100-10	000	······································	1							
	Clinton, AR 72031			Work Ord						1							
Telephone:	501-745-4320			Sampler I			o the	Jalo I		\dashv							
Contact:	P.O. Box 277			ournpier i	varric(s).		3 MAY	Neul		45							
FAX:	501-745-2164			and Signa	nturo(c):		-AL /	TV 1]	Chloride(7.)							
ESC Client Number:	508			and Signa	iture(5).	Im	noll	1100		┤흥	(91.)						
	dentification		Sample	Collection		Ī	Sample	Containers		(27.),	+NO3(91.)						
	ESC Control #	Date	Time	Type	Matrix	T				- ⊗	NO2 +						
Well # 14	1907010250	7-29-19			1	Туре	Volume		tive #	-		-		 			<u> </u>
VVCII # 14	1010000	1 27-17	1132	Grab	Water	Plastic	1 Liter	≤ 6 Deg C 1		X		 	<u> </u>				ļ
L L		<u> </u>	\	Grab Water Plastic 1 Lite			1 Liter	H2SO4	1	╀	<u> X</u>				\square		
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Relinquished By: (Signature and P	rinted Name)	Date	Time	Paceined By: /S	gnature and Printe					<u>Ļ</u>	<u> </u>						
	,	Bale	111110	Necessed by. (G	gnature and Printe	d Name)		Date	Time	Use	tody Se d?	als:	ĺ	Intac	t? [
Relinquished By: (Signature and P	rinted Name)	Date	Time	Received By: (Si	gnature and Printe	d Name)		Date	Time	1	aroun					اــــــ	
Relinquished By: (Signature and P	rinted Name) ty O'NKA	7-29-19	1425	Received for Lab	By: [Signature an	d Printed Nam	19 Carl	Date 7-29-19	Time	Reg Wer	e sam	i/ ples pr	perly		rved:		
Cool all samples to ≤ 6 degr	rees C with ice.	(2111	1400	Received for Lab By- Signature, and Printed Name Lack Crut Lack Ca Flow Data		Field Test		ノタ之ご Analyst	Res	Yes	√ Resu	lt I		No Units		Militeratura	
Comments:				Analyst:			pH:	1130	TM			Zú		50		-	
					Time:		Sp Cond:	1136	TM)	28	31,0						
		·····	***************************************		Reading: Units:					+-		 	\dashv				
Total Depth-99.10:	13.1									+		 	\dashv				-
H20 Depth - 99.9:	817				Chlorinated?	ΥN	Fecal Start:			Thi	s Doo	cumer	nt is	Page	:	1	



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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: 1907010251

Customer Name : CLINTON, EAST GW16

Customer/Permit No. : 509 / AR0048836 001

Report Date : 08/09/19

Sample Date : 07/29/19

Sample Time : 1100

Sample Type : GRAB WATER Sample From : WELL #16

Collected By: TMO Delivery By: TMO

Work Order : Purchase Order :

		Laboratory Analy	<u>sis</u>			Quality A	ssurance
Analysis						Precision	Accuracy
<u>Date Time By</u>	Parameter	Result	Notes _	Quantity	Method	% RPD	% Recovery
	Chloride (as Cl)	14.0 mg	/L		SM1997 4500ClC	0.00	99.9 *
•		6.7 S.1	U.		SM 2011 4500-H+B	0.00	N/A *
07/30 0900 PJC	Solids, Total Dissolved	176.0 mg	/L		SM1997 2540 C	1.06	N/A *
07/29 1104 TMO	Spec. Conductance @ 25 C	90.100 uml	ho/c		SM1997 2510B	0.00	N/A *
•	Nitrate + Nitrite	2.27 mg	/L		HACH 10206	0.51	98.8 *
07/29 1100 TMO	Well Depth, Total	17.70 Fee	et			N/A	N/A
07/29 1100 TMO	Depth to Water	12.30 Fee	et			N/A	N/A

* 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

13715 West Markham Little Rock, AR 72211

Phone: 501-221-2565

ESC Client Number:

Well #16

Relinquished By: (Signature and Printed Name)

Relinquished By: (Signature and Printed Name)

elinquished By: (Signature and Printed Name)

Cool all samples to ≤ 6 degrees C with/ice.

Johnsoff Ylend Timothy O'Nea

Company Name:

Address:

Telephone:

Contact:

FAX:

P.O. Box 55146

Little Rock, AR 72215

website: www.esclabs.com

Sample Identification

Fax: 501-221-1341 Client Information

P.O. Box 277

501-745-4320

501-745-2164

Clinton, East GW16

Clinton, AR 72031

Mr. Todd Burgess

509

ESC Control #

1907010251

Date

7-29-19

Date

Date

Time

Time

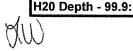
1100



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

CHAIN OF CUSTODY

Phone 479-750-1170 Fax: 479-750-1172 Project Information Requested Parameters Permit/Project #: AR0048836 Purchase Order #: Work Order # Timothy O'Nen Sampler Name(s): Chloride(7.) and Signature(s): NO2 +NO3(91.) TDS(27.), Sample Collection Sample Containers Volume Preservative # Type Matrix Type Grab ≤ 6 Deg C X Water Plastic 1 Liter Grab Χ Water Plastic 1 Liter H2SO4 Received By: (Signature and Printed Name) Custody Seals: Used? Intact? Received By: (Signature and Printed Name) Turnaround: Regular Special Received for Lab By Signature and Printed Name) Date Were samples properly preserved: A Carut Da 7-28-No Flow Data Field Test Time Analyst Result Result Units Analyst: HOH 5 U TMU Time: Sp Cond: न व्य Tims 9011 90 Reading: Units:



Comménts:

Chlorinated? Y N

Fecal Start:

Total Depth-99.10:

This Document is Page 1 of

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

Fax (501)221-1341 Tel. (479)750-1170 Fax (479)750-1172

Control Number: 1907010252

Customer Name : CLINTON, EAST GW17

Customer/Permit No. : 649 / AR0048747 001

Report Date : 08/09/19

Sample Date : 07/29/19

Sample Time : 1040

Sample Type : GRAB WATER Sample From : WELL #17

Collected By: TMO
Delivery By: TMO

Work Order : Purchase Order :

		<u>Laboratory Analysis</u>		Quality A	Assurance
Analysis				Precision	Accuracy
<u>Date Time By</u>	<u> Parameter</u>	Result Notes Qu	antity Method	% RPD	<pre>% Recovery</pre>
07/29 1500 DWC	Chloride (as Cl)	3.0 mg/L	SM1997 4500ClC	0.00	99.9 *
07/29 1044 TMO	рН	5.9 S.U.	SM 2011 4500-H+B	0.00	N/A *
07/30 0900 PJC	Solids, Total Dissolved	216.0 mg/L	SM1997 2540 C	1.06	N/A *
07/29 1044 TMO	Spec. Conductance @ 25 C	86.900 umho/c	SM1997 2510B	0.00	N/A *
07/31 1530 PJC	Nitrate + Nitrite	5.44 mg/L	HACH 10206	0.51	98.8 *
07/29 1040 TMO	Well Depth, Total	17.60 Feet		N/A	N/A
07/29 1040 TMO	Depth to Water	11.60 Feet		N/A	N/A

* 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

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

1 Little Rock, AR 72215

website: www.esclabs.com

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



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

CHAIN OF CUSTODY

Phone 479-750-1170

Fax: 479-750-1172

Client Information	The state of the s													
				Pro	oject Inf	ormation				Re	ques	ted I	⊃aram	eters
Clinton, East GW	17		Permit/Pro	oject #:		AR00487	747							
P.O. Box 277			Purchase	Order #:										
Clinton, AR 72031			Work Ord	er#			/	A						
501-745-4320			Sampler N	lame(s):	Time	Sthr. C	J'Neal							
Mr. Todd Burgess						y	10							
501-745-2164			and Signa	ture(s):	Tu	molf C	54/ed							
649						7								
entification		Sample	Collection			Sample (Container	S	5	- X				
ESC Control #	Date	Time	Туре	Matrix	Туре	Volume	Preserva	ative	# 6					
1907010252	7-29-19	1040	Grab	Water	Plastic	1 Liter	≤ 6 Deg C		1	х				
\	(\	Grab	Water	Plastic	1 Liter	H2SO4		1	Х				
									T					
									T					
ited Name)	Date	Time	Received By: (Si	gnature and Printe	d Name)		Date	Time		•	************		Intact?	m
ited Name)	Date	Time	Received By: (Si	gnature and Printe	ed Name)		Date	Time	Т	urnarour	id:	ļ		<u></u> _
ited Name) _ i /	Date #	. Time.	Received for Lab	By:-4Signature an	d Printed Nam	el .	Date	Time			pleš pr			
limotry D'Neal	7-29-14	142	Pland.	aut 1	ad la	Mach	7-28-19	142	Ś	Yes			No	
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				Analyst: Time:		pH: Sp Cond:		The	<u>၁၂ နို</u>	62.9			5 M	
				Reading:					1					
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11,0		· · · · · · · · · · · · · · · · · · ·		Chlorinated?	ΥN	Fecal Start:		 	 	his Do	cume	nt is F	Page 1	1
	P.O. Box 277 Clinton, AR 72031 501-745-4320 Mr. Todd Burgess 501-745-2164 649 entification ESC Control # IPOTOIOTE2 Intel Name) Ited Name) Ited Name) Ited Name) Ited SC with ice.	P.O. Box 277 Clinton, AR 72031 501-745-4320 Mr. Todd Burgess 501-745-2164 649 entification ESC Control # Date 1907010752 7-29-19 (P.O. Box 277 Clinton, AR 72031 501-745-4320 Mr. Todd Burgess 501-745-2164 649 Intification ESC Control # Date Time IPOTO10252 7 - 29-19 / O# 5 Ited Name) Date Time Time	P.O. Box 277 Clinton, AR 72031 Sont-745-4320 Mr. Todd Burgess 501-745-2164 649 entification ESC Control # Date Time Type Proposition Intel Name Intel Name Date Time Received By: (Single Name) Intel Name Date Time Received By: (Single Name) Ital Name Date Time Received By: (Single Name) Ital Name Date Time Received By: (Single Name) Ital Name Date Time Received By: (Single Name) Ital Name Date Time Received By: (Single Name) Ital Name Date Time Received By: (Single Name) Ital Name Date Time Received By: (Single Name) Date Date Date Date Date Date Date Date	P.O. Box 277 Clinton, AR 72031 501-745-4320 Mr. Todd Burgess 501-745-2164 649 Intification ESC Control # Date Time Type Matrix IPOTO 10052 7 - 29-19 / 04 0 Grab Water Grab Water (Grab Water Grab Water Intel Name) Date Time Received By. (Signature and Printel World Name) Date Time Received By. (Signature and Printel World Name) Date Time Received By. (Signature and Printel Received By. (Signature and Printel Received By. (Signature and Printel Received By. (Signature and Printel Received By. (Signature and Printel Received By. (Signature and Printel Received By. (Signature and Printel Received By. (Signature and Printel Received By. (Signature and Printel Received By. (Signature and Printel Received By. (Signature and Printel Received By. (Signature and Printel Received By. (Signature and Printel Received By. (Signature and Printel Received By. (Signature and Printel Received By. (Signature and Printel Printel By. Signature and Printel By. Signature	P.O. Box 277 Clinton, AR 72031 Sol-745-4320 Mr. Todd Burgess 501-745-2164 649 Intification ESC Control # Date Time Type Matrix Type IPO 10 10 252 7 - 29-19 / 04 0 Grab Water Plastic Grab Water Plastic Grab Water Plastic Grab Water Plastic Time Received By: (Signature and Printed Name) Ited Name) Date Time Received By: (Signature and Printed Name) Ited Name) Date Time Received By: (Signature and Printed Name) Importance of the base (Signature and Printed Name) Time Received By: (Signature and Printed Name) Importance of the base (Signature and Printed Name) Time Received By: (Signature and Printed Name) Importance of the base (Signature and	P.O. Box 277 Clinton, AR 72031 501-745-4320 Mr. Todd Burgess 501-745-2164 649 entification Sample Collection ESC Control # Date Time Type Matrix Type Volume 1907010262 7 - 29-19	P.O. Box 277 Clinton, AR 72031 501-745-4320 Mr. Todd Burgess 501-745-2164 649 entification Sample Collection ESC Control # Date Time Type Matrix Type Volume Preserva [POTO 10 10 12 7 29-19 / 04 0 Grab Water Plastic 1 Liter H2SO4 Ited Name) Date Time Received By. (Signature and Printed Name)	P.O. Box 277 Clinton, AR 72031 501-745-4320 Mr. Todd Burgess 501-745-2164 649 Intification Sample Collection Sample Containers ESC Control # Date Time Type Matrix Type Volume Preservative [1407010752 7-29-19 / 040 Grab Water Plastic 1 Liter + H2S04 Grab Water Plastic 1 Liter + H2S04 Interval Mame) Interval Mame Plastic 1 Liter + H2S04 Time Received By: (Signature and Printed Name) Date Time Received By: (Signature and Printed Name)	P.O. Box 277 Clinton, AR 72031 Sol1-745-4320 Mr. Todd Burgess 501-745-2164 649 Intification Sample Collection Sample Containers ESC Control # Date Time Type Matrix Type Volume Preservative # Floro Tol 10/25/2 7 - 29-19 / 04-0 Grab Water Plastic 1 Liter #2504 1 Grab Water Plastic 1 Liter	P.O. Box 277 Clinton, AR 72031 Work Order # Sampler Name(s): Mr. Todd Burgess 501-745-2164 649 Intification Sample Collection Sample Containers ESC Control # Date Time Type Matrix Type Volume Preservative # 1900-1010252 7 29-19 1040 Grab Water Plastic 1 Liter #2504 1 X Grab Water Plastic 1 Liter #2504 1 X Grab Water Plastic 1 Liter #2504 1 X Grab Water Plastic 1 Liter #2504 1 X Interval Plastic 1 Liter #2504 1 Date Time Received By (Signature and Printed Name) Ited Name) Date Time Received By (Signature and Printed Name) Date Time Received By (Signature and Printed Name) Date Time Received By (Signature and Printed Name) Date Time Water Plastic 1 Liter #2504 1 Time Type Water Plastic 1 Liter #2504 1 Time Type Water Plastic 1 Liter #2504 1 Time Type Water Plastic 1 Liter #2504 1 Time Type Water Plastic 1 Liter #2504 1 Time Type Water Plastic 1 Liter #2504 1 Time Type Water Plastic 1 Liter #2504 1 Time Type Water Plastic 1 Liter #2504 1 Time Type Water Plastic 1 Liter #2504 1 Time Type Water Plastic 1 Liter #2504 1 Time Type Water Plastic 1 Liter #2504 1 Time Type Water Plastic 1 Liter #2504 1 Time Type Water Plastic 1 Liter #2504 1 Time Type Water Plastic 1 Liter #2504 1 Time Type Water Plastic 1 Liter #2504 1 Time Type Water Plastic 1 Liter #2504 1 Time Type Water Plastic 1 Liter #2504 1 Time Type Water Plastic 1 Liter #2504 1 Time Type Type Type Type Type Type Type Typ	P.O. Box 277 Clinton, AR 72031 Sampler Name(s): Mr. Todd Burgess 501-745-2164 649 Intification Sample Collection Sample Containers ESC Control # Date Time Type Matrix Type Volume Preservative # Plastic 1 Liter #2504 1 X (Grab Water Pla	P.O. Box 277 Clinton, AR 72031 Sampler Name(s): Mr. Todd Burgess 501-745-2164 649 Sample Collection Sample Containers ESC Control # Date Time Type Matrix Type Volume Preservative # P Plastic 1 Liter H2SO4 1 X X Grab Water Plastic 1 Liter H2SO4 1 X X Grab Water Plastic 1 Liter H2SO4 1 X X Grab Water Plastic 1 Liter H2SO4 1 X X Image: Analyst Type Date Time Received By (Signature and Printed Name) Date Time Received By (Signature and Printed Name) Flow Data Time Analyst Type Date Time Result Result Result Time Sp Contic Time Result Time Sp Contic Time Result Time Sp Contic Time Result Result Result Time Sp Contic Time Result Result Result Time Sp Contic Time Result Result Time Sp Contic Time Result Result Time Sp Contic Time Result Result Time Sp Contic Time Result Result Time Sp Contic Time Result Result Time Sp Contic Time Result Result Time Sp Contic Time Result Result Time Sp Contic Time Result Time Result Time Result Time Result Time Sp Contic Time Result Time Result Time Result Time Result Time Sp Contic Time Result Time Re	P.O. Box 277 Clinton, AR 72031 Work Order # Sampler Name(s): Mr. Todd Burgess 501-745-2164 649 and Signature(s): ESC Control # Date Time Type Matrix Type Volume Preservative # £ 2 2 Interval C V V V V V V V V V V V V V V V V V V



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: 1910010351

Customer Name : CLINTON, EAST GW13

Customer/Permit No. : 507 / AR0048836 001

Report Date : 11/01/19

Sample Date : 10/24/19

Sample Time : 1321

Sample Type : GRAB WATER Sample From : WELL #13

Collected By: NTR Delivery By: NTR

Work Order : Purchase Order :

		Laboratory Analysis			Quality A	Assurance
Analysis					Precision	Accuracy
<u>Date Time By</u>	Parameter	Result Notes	<u>Quantity</u>	Method	% RPD	% Recovery
	Chloride (as Cl)	$20.0~{ m mg/L}$		SM1997 4500ClC	0.00	100.0 *
10/24 1324 NTR	*	6.7 S.U.		SM 2011 4500-H+B	0.00	N/A
•	Solids, Total Dissolved	$204.0~{ m mg/L}$		SM1997 2540 C	1.98	N/A
	Spec. Conductance @ 25 C	300.000 umho/c		SM1997 2510B	0.33	N/A
10/30 1230 PJC	Nitrate + Nitrite	$0.53~{ m mg/L}$		HACH 10206	0.35	98.0 *
	Well Depth, Total	15.40 Feet			N/A	N/A
10/24 1321 NTR	Depth to Water	10.10 Feet			N/A	N/A
					İ	

 * 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

13715 West Markham

P.O. Box 55146

Fax: 501-221-1341

Little Rock, AR 72211

Phone: 501-221-2565

Little Rock, AR 72215

website: www.esclabs.com

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

CHAIN OF CUSTODY

Phone 479-750-1170

Fax: 479-750-1172

	######################################		Pr	oject Int	formatior)		***************************************		Req	ues	ted	Par	ame	eter	 S		
Company Name:	Clinton, East GW1	3		Permit/Pro	oject #:		AR0048	836			İ							Γ
Address:	P.O. Box 277			Purchase	Order #:	***************************************			***************************************									
	Clinton, AR 72031			Work Ord	ier#													
Telephone:	501-745-4320			Sampler N	Name(s):	1	Ned 1	Ryenso	<u> </u>									
Contact:	Mr. Phil Graham	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	***************************************	1		I		7			(2)							
FAX:	501-745-2164	·····		and Signa	ature(s):		Mrs.	Pugar			Chloride(7.)	_						
ESC Client Number:		·			(0).		-, 000	wy.				3(91						
Sample lo	dentification		Sample	Collection	***************************************	T	Sample	Container	s		(27.)	+NO3(91.)						
	ESC Control #	Date	Time	Туре	Matrix	Туре	Volume	T		#	TDS(27.),	NO2	.					
Well #13	1910010351	10-24-19		Grab	Water	Plastic	1 Liter	≤ 6 Deg C		1	X							_
<u> </u>	1	1	1381	Grab	Water	Plastic	1 Liter	H2SO4		1	^	Х						
				Grab Water Plastic 1 Liter H.				112304				├┼				-		
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Relinquished By: (Signature and I	Printed Name)	Date	Time	Received By: (S	ignature and Printe	ed Name)		Date	Tim	е	Custo	dy Sea	als:					
Relinguished By: (Signature and F	Printed Name)	Date	Time	Bassing Bur (6	ignature and Printe		· · · · · · · · · · · · · · · · · · ·				Used?		N.	****	Intac	t?		Ĺ
Neinquished by. (Oignature and)	mined Hame)	Date	Intie			•		Date	Tim	- 1	i urna Regul	around: lar	又		Spec	ial	_	
	Printed Name Ned Ryen -	Date (6')419	174S	Received for Lab Bur (Signature and Printed Name)			(U ~) 4-16	174	6		sample Yes		perly	preser		_		
Cool all samples to ≤ 6 deg	rees C with ice.			t// Flow Data Field Test Tin			Time	Analys		Resu	ılt F	Resul			Units			
Comments:		······································		Analyst: pH: [324] Time: Sp Cond: 1324				MA			.7	6.		Ş				
		***************************************		Reading:			1354	N	32	300	3	29	7	un	vs C	<u> </u>		
		***************************************		Units:							$\neg \uparrow$		$\neg \dagger$					
Total Depth-99.10:	15' 4"											$\Box \Box$		\Box				
H20 Depth - 99.9:	10' 1"			Chlorinated? Y N Fecal Start:			Fecal Start:				This	Docu	umer	ıt is l	Pag∈	:10	¥	

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: 1910010352 Sample Date : 10/24/19 Collected By: NTR
Customer Name : CLINTON, EAST GW14 Sample Time : 1356 Delivery By : NTR
Customer/Permit No. : 508 / AR0048836 001 Sample Type : GRAB WATER Work Order :
Report Date : 11/01/19 Sample From : WELL #14 Purchase Order :

		Laboratory Ana	<u>alysis</u>			Quality A	ssurance
Analysis						Precision	Accuracy
<u>Date Time By</u>	<u>Parameter</u>	Result	<u>Notes</u>	Quantity	Method	% RPD	% Recovery
10/25 1000 DWC	Chloride (as Cl)	20.0	mg/L		SM1997 4500ClC	0.00	100.0 *
10/24 1358 NTR	рН	6.8	S.U.		SM 2011 4500-H+B	0.00	N/A *
10/25 1545 PJC	Solids, Total Dissolved	120.0	mg/L		SM1997 2540 C	1.98	N/A *
10/24 1358 NTR	Spec. Conductance @ 25 C	198.000	umho/c		SM1997 2510B	0.33	N/A *
10/30 1230 PJC	Nitrate + Nitrite	0.31	mg/L		HACH 10206	0.35	98.0 *
10/24 1356 NTR	Well Depth, Total	13.10	Feet			N/A	N/A
10/24 1356 NTR	Depth to Water	8.90	Feet			N/A	N/A

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

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Signature

13715 West Markham

P.O. Box 55146

Little Rock, AR 72211

Little Rock, AR 72215

website: www.esclabs.com

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

CHAIN OF CUSTODY

Phone: 501-221-2565	Fax: 501-221-1341		CF	<u>IAIN (</u>	OF CU	STO	DY	F	hone	479	-750)-117	0	Fax	: 479-7	750-1	1172	
Client Information					Project Information							Rec	quest	ed	Para	met	ers	(Assert
Company Na <u>me:</u>	Clinton, East GW1	linton, East GW14		Permit/Pr	Permit/Project #: AR0048836				ĺ									
Address:	P.O. Box 277			Purchase	Purchase Order #:													
	Clinton, AR 72031	Clinton, AR 72031		Work Ord	ler#						l							
Telephone:	501-745-4320	11-745-4320 Sa			Name(s):	ام	ed Ryc	~1 SÓA	***********									
Contact:	Mr. Todd Burgess	S					7				(7)							
FAX:			and Signa	ature(s):		hed G	2-9	Maria-		Chloride(7.)	<u></u>							
ESC Client Number:	508]	` ,	***************************************		Y		$\neg \neg$		3(91						
Sample Ide	entification		Sample	Collection			Sample (Container	s		TDS(27.)	NO2 +NO3(91.)						
·	ESC Control #	Date	Time	Туре	Matrix	Туре	Volume	Preserva	ative	#	108	NO2						
Well # 14	1910010352	10-2479	1356	Grab	Water	Plastic	1 Liter	≤ 6 Deg C		1	Х					T		
	<u> </u>	1	<u> </u>	Grab	Water	Plastic	1 Liter	H2SO4		1		Х				T		
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Relinquished By: (Signature and Prin	ited Name)	Date	Time	Received By: (S	ignature and Printe	d Name)		Date	Tim		Used [*] Turna	around	X		Intact?			-
Relinquished Run Signature and Prin	tod Namo)	Date	Time	Passius for Lab	Die (Cianatus na	d Drinted No.		D-1-			Regul		Δ		Specia		ユ	
Relinquished By Signature and Prin	Pri Krien "	10-34-19	1745	Kecelves of Land	By (Signature/an	Col F	16)	Date 10-2449	174	3 1		Yes	les prop	periy		ea: o	7	
Cool all samples do ≤ 6 degrees C with/jbe.				Flow Data		Field Test	Time	Analys		Resu		Result			nits			
Comments:				// Analyst: Time:		pH: Sp Cond:	1358	No		6.2			્ર			_		
				<u> </u>	Reading:		Op Cona.	1338	N;	14	17	8	20	Н	usho	FICI	₩	٦
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Total Depth-99.10:	13'1"																	
H20 Depth - 99.9:	9:6"				Chlorinated?	ΥN	Fecal Start:				This	Doc	ument	t is	Page	1	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: 1910010353 Sample Date : 10/24/19 Collected By: NTR Customer Name : CLINTON, EAST GW16 Sample Time : 1424 Delivery By : NTR Customer/Permit No. : 509 / AR0048836 001 Sample Type : GRAB WATER Work Order :

Report Date: 11/01/19

Sample From: WELL #16

Purchase Order:

						1	
	Quality A	Assurance					
Analysis						Precision	Accuracy
<u>Date Time By</u>	Parameter	Result	<u>Notes</u>	Quantity	<u> Method</u>	% RPD	% Recovery
10/25 1000 DWC	Chloride (as Cl)	20.0	mg/L		SM1997 4500ClC	0.00	100.0 *
10/24 1430 NTR	рН	6.0	S.U.		SM 2011 4500-H+B	0.00	N/A *
10/25 1545 PJC	Solids, Total Dissolved	136.0	mg/L		SM1997 2540 C	1.98	N/A *
10/24 1430 NTR	Spec. Conductance @ 25 C	83.800	umho/c		SM1997 2510B	0.33	N/A *
10/30 1230 PJC	Nitrate + Nitrite	2.82	mg/L		HACH 10206	0.35	98.0 *
10/24 1424 NTR	Well Depth, Total	14.00	Feet			N/A	N/A
10/24 1424 NTR	Depth to Water	8.70	Feet			N/A	N/A
						i '	,

* 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.

NV

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

Little Rock, AR 72215

website: www.esclabs.com

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

CHAIN OF CLISTODY

Phone: 501-221-2565	Fax: 501-221-1341		CH	IAIN C	OF CU	STO	DY	F	Phone	479)-75C)-117	'O	Fax:	: 479	-750-	1172	
Client Information					Project Information						Requested Parameters							Million
Company Na <u>me:</u>	Clinton, East GW1	6		Permit/Pr	Permit/Project #: AR0048836											\Box		
Address:	P.O. Box 277			Purchase	Purchase Order #:						1							
	Clinton, AR 72031			Work Ord	er#	***************************************			******		1							
Telephone:	501-745-4320 S			Sampler I	Name(s):	N	ed R	yerson	*****		1]				
Contact:	Mr. Todd Burgess				` ,						<u>[</u>							
FAX:	501-745-2164				ature(s):		1000	Page			Chloride(7.)	·						
ESC Client Number:	509			1				~ \ 	·····			3(91						
Sample Ide	entification		Sample	Collection			Sample Containers			TDS(27.),	NO2 +NO3(91.)							
	ESC Control #	Date	Time	Туре	Matrix	Туре	Volume	Preserva	ative	#	TDS	NO2						
Well #16	1910017353	102419	1424	Grab	Water	Plastic	1 Liter	≤ 6 Deg C		1	Х							
	<u> </u>	<u> </u>	<u></u>	Grab	Water	Plastic	1 Liter	H2SO4		1		Х						
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Relinguished By Signature and Print	Ved Rue-	10-24-19	1745	Received for Lab	By: (Stgnature an	SVL (ch -	Date 10 - 14149	174	3		samp Yes	oles prop	erly i		ved: No	_	
Cool all samples to 66 degree	es C with ice.			//_	Flow D	ata	Field Test	Time	Analys	st	Resu		Result		Į	Units		
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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: 1910010354

Sample Date : 10/24/19

Collected By: NTR

Customer Name : CLINTON, EAST GW17

Sample Time : 1246

Delivery By : NTR

Customer/Permit No. : 649 / AR0048747 001

Sample Type : GRAB WATER

Work Order :

Report Date : 11/01/19

Sample From : WELL #17

Purchase Order :

		Laboratory Analysis		Quality A	<u>Assurance</u>
Analysis				Precision	Accuracy
Date Time By	Parameter	Result Notes Quantity	<u> </u>	% RPD	% Recovery
	Chloride (as Cl)	< 0.1 mg/L	SM1997 4500ClC	0.00	100.0 *
10/24 1248 NTR		6.6 S.U.	SM 2011 4500-H+B	0.00	N/A *
	Solids, Total Dissolved	80.0 mg/L	SM1997 2540 C	1.98	N/A *
	Spec. Conductance @ 25 C	92.900 umho/c	SM1997 2510B	0.33	N/A *
	Nitrate + Nitrite	6.32 mg/L	HACH 10206	0.35	98.0 *
	Well Depth, Total	17.60 Feet		N/A	N/A
	Depth to Water	12.10 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

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

13715 West Markham

P.O. Box 55146

Fax: 501-221-1341

Little Rock, AR 72211

Phone: 501-221-2565

Little Rock, AR 72215

website: www.esclabs.com



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

CHAIN OF CUSTODY

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

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Client Information					Project Information							Req	ues	ted	Par	ame	ters	,
Company Name:	Clinton, East GW1	17		Permit/Pro	Permit/Project #: AR0048747													
Address:	P.O. Box 277			Purchase	Order #:													
	Clinton, AR 72031			Work Ord	er#											-		
Telephone:	501-745-4320			Sampler N	Name(s):		Ved R	verson										
Contact:	Mr. Todd Burgess			1					***************************************		9(7.)							
FAX:	501-745-2164			and Signa	iture(s):	***************************************	Ness	Pag-			Chloride(7.)	<u> </u>						
ESC Client Number:	649			1				8				3(91						
	lentification		Sample	Collection		1	Sample	Container	s		S(27.),	+NO3(91.)					l	
	ESC Control #	Date	Time	Type	Matrix	Туре	Volume	Preserva		#	TDS	NO2						
Vell # 17	1910010 354	10-24-19	1246	Grab	Water	Plastic	1 Liter	≤ 6 Deg C		1	Х							
			I	Grab	Water	Plastic	1 Liter	H2SO4		1		Х						
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Relinguished By Signature and Pr	rinted Name)	Date 10-24-09	Time IM4C	Received for Lab	By (Signature ar	d Printed Nam	ne)	U ユ 449	174	3	Were	sampl Yes	les pro	perly		rved: No		
Cool all samples to \$6 degr		110 74 01	11/1-2	1 //	Flow D		Field Test	Time	Analys		Resu		Resu	lt		Units		
Comments:				U	Analyst:		рН:	1248.	NO		6.	6	6.	6	\$	ia		
					Time:		Sp Cond:	1248	ALC	2	92	.9	93	0,	de	host	<u> </u>	
					Reading: Units:	***************************************	<u> </u>	<u> </u>							······································			
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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:	DONN	Α		
	PAGES INCLI	UDING COVER PAC	ΘΕ:1	•	· ·,
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West Side	Owners: D	anny Boone .	Roy Gray J	enningis, Virginia	Stevens
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