

# Clinton Water & Sewer East Plant

Annual Report  
Permit AR0048836 & 5130-WR-2  
January 2018 – December 2018



## **Environmental Services Company, Inc.**

Corporate Office

13715 West Markham

Little Rock, Arkansas 72211

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[www.esclabs.com](http://www.esclabs.com)

Carlsbad, New Mexico

575-887-7372 (7ESC)

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**Clinton Water and Sewer Department  
Clinton, AR  
East WWTP - AR0048836  
Irrigation Water  
Calendar Year 2018**

Parameter	Annual Concentration (mg/L)	2018 Application Data				Total Application Since 2003 Pounds/Acre
		Million Gallons/Year	Number of Acres	Gallons per Acre-Year	Pounds per Acre	
Total Kjeldahl Nitrogen	6.6500	60.192	2038.81	29,523.1	1.638	636.04
Ammonia Nitrogen	3.3650	60.192	2038.81	29,523.1	0.829	151.90
Nitrate + Nitrite Nitrogen	0.5075	60.192	2038.81	29,523.1	0.125	109.78
BOD-5	17.0250	60.192	2038.81	29,523.1	4.195	1,042.40
Arsenic	< 0.0075	60.192	2038.81	29,523.1	0.002	0.48
Cadmium	< 0.0030	60.192	2038.81	29,523.1	0.001	0.23
Copper	< 0.0028	60.192	2038.81	29,523.1	0.001	0.27
Lead	< 0.0076	60.192	2038.81	29,523.1	0.002	0.59
Mercury	< 0.0008	60.192	2038.81	29,523.1	0.000	0.09
Selenium	< 0.0075	60.192	2038.81	29,523.1	0.002	0.69
Zinc	0.1068	60.192	2038.81	29,523.1	0.026	4.40
Conductivity, minimum (mhos/cm)*	187.00					
Conductivity, maximum (mhos/cm)*	415.00					
pH, minimum (SU)*	7.48					
pH, maximum (SU)*	8.10					

\*Current year values

**Crop Grown: Bermuda Hay**

**Clinton Water and Sewer Department  
Clinton, AR  
East WWTP - AR0048836  
Soil  
Calendar Year 2018**

Sample ID	Clinton East 40.24 LA PB 3							
Control Number	1802010337							
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	02/19/18	4.680						
Ammonia Nitrogen	02/19/18	0.3070						
PAN	02/19/18	4.98						
Phosphorous	02/19/18	482.35						
Potassium	02/19/18	2300.00						
Arsenic	02/19/18	14.50						
Cadmium	02/19/18	<2.50						
Copper	02/19/18	12.00						
Lead	02/19/18	22.50						
Magnesium	02/19/18	1741.00						
Mercury	02/19/18	<.1277						
Nickel	02/19/18	33.00						
Zinc	02/19/18	109.50						
Conductivity (mhos/cm)	02/19/18	30.50						
pH (SU)	02/19/18	6.80						

**Clinton Water and Sewer Department  
Clinton, AR  
East WWTP - AR0048836  
Soil  
Calendar Year 2018**

Sample ID	Clinton East 40.24 LA PB 30							
Control Number	1802010338							
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	02/19/18	10.350						
Ammonia Nitrogen	02/19/18	1.39						
PAN	02/19/18	11.74						
Phosphorous	02/19/18	485.13						
Potassium	02/19/18	1413.50						
Arsenic	02/19/18	16.50						
Cadmium	02/19/18	<2.50						
Copper	02/19/18	10.50						
Lead	02/19/18	17.00						
Magnesium	02/19/18	991.50						
Mercury	02/19/18	<.1195						
Nickel	02/19/18	28.00						
Zinc	02/19/18	75.50						
Conductivity (mhos/cm)	02/19/18	19.59						
pH (SU)	02/19/18	6.90						

**Clinton Water and Sewer Department  
Clinton, AR  
East WWTP - AR0048836  
Soil  
Calendar Year 2018**

Sample ID	Clinton East 55.57 LA PB 10							
Control Number	1802010088							
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	02/19/18	4.030						
Ammonia Nitrogen	02/19/18	0.5260						
PAN	02/19/18	4.55						
Phosphorous	02/19/18	460.41						
Potassium	02/19/18	1061.50						
Arsenic	02/19/18	9.00						
Cadmium	02/19/18	<2.50						
Copper	02/19/18	6.50						
Lead	02/19/18	12.00						
Magnesium	02/19/18	845.00						
Mercury	02/19/18	<.1176						
Nickel	02/19/18	17.50						
Zinc	02/19/18	61.50						
Conductivity (mhos/cm)	02/19/18	42.80						
pH (SU)	02/19/18	7.11						

**Clinton Water and Sewer Department  
Clinton, AR  
East WWTP - AR0048836  
Soil  
Calendar Year 2018**

Sample ID	Clinton East 55.57 LA PB 3							
Control Number	1802010339							
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	02/19/18	3.10						
Ammonia Nitrogen	02/19/18	0.3560						
PAN	02/19/18	3.45						
Phosphorous	02/19/18	391.48						
Potassium	02/19/18	850.00						
Arsenic	02/19/18	8.00						
Cadmium	02/19/18	<2.50						
Copper	02/19/18	7.00						
Lead	02/19/18	10.50						
Magnesium	02/19/18	782.50						
Mercury	02/19/18	<.1188						
Nickel	02/19/18	17.50						
Zinc	02/19/18	50.50						
Conductivity (mhos/cm)	02/19/18	27.00						
pH (SU)	02/19/18	6.80						

**Clinton Water and Sewer Department  
Clinton, AR  
East WWTP - AR0048836  
Soil  
Calendar Year 2018**

Sample ID	Clinton East 55.57 LA PB 30							
Control Number	1802010340							
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	02/19/18	4.150						
Ammonia Nitrogen	02/19/18	0.2950						
PAN	02/19/18	4.44						
Phosphorous	02/19/18	412.92						
Potassium	02/19/18	1176.50						
Arsenic	02/19/18	9.00						
Cadmium	02/19/18	<2.50						
Copper	02/19/18	7.00						
Lead	02/19/18	12.50						
Magnesium	02/19/18	881.50						
Mercury	02/19/18	<.1196						
Nickel	02/19/18	19.50						
Zinc	02/19/18	62.00						
Conductivity (mhos/cm)	02/19/18	249.00						
pH (SU)	02/19/18	6.83						

**Clinton Water and Sewer Department  
Clinton, AR  
East WWTP - AR0048836  
Soil  
Calendar Year 2018**

Sample ID	Clinton East LA Airport 9							
Control Number	1802010341							
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	02/19/18	9.390						
Ammonia Nitrogen	02/19/18	1.68						
PAN	02/19/18	11.07						
Phosphorous	02/19/18	297.01						
Potassium	02/19/18	1066.00						
Arsenic	02/19/18	8.00						
Cadmium	02/19/18	<2.50						
Copper	02/19/18	6.00						
Lead	02/19/18	9.50						
Magnesium	02/19/18	735.50						
Mercury	02/19/18	<.1304						
Nickel	02/19/18	17.00						
Zinc	02/19/18	45.00						
Conductivity (mhos/cm)	02/19/18	12.52						
pH (SU)	02/19/18	6.96						



**Clinton Water and Sewer Department  
Clinton, AR  
East WWTP - AR0048836  
Soil  
Calendar Year 2018**

Sample ID	Clinton East LA WD 13							
Control Number	1802010342							
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	02/19/18	9.060						
Ammonia Nitrogen	02/19/18	1.47						
PAN	02/19/18	10.53						
Phosphorous	02/19/18	382.10						
Potassium	02/19/18	1716.00						
Arsenic	02/19/18	12.00						
Cadmium	02/19/18	<2.50						
Copper	02/19/18	7.50						
Lead	02/19/18	14.50						
Magnesium	02/19/18	1094.00						
Mercury	02/19/18	<.1306						
Nickel	02/19/18	21.50						
Zinc	02/19/18	64.50						
Conductivity (mhos/cm)	02/19/18	12.07						
pH (SU)	02/19/18	7.22						

# 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: 1806010510  
 Customer Name : CLINTON, EAST IW  
 Customer/Permit No. : 619 / AR0048836 001  
 Report Date : 07/06/18

Sample Date : 06/28/18  
 Sample Time : 1022  
 Sample Type : GRAB WWATER  
 Sample From : EAST IRRIGATION WTR

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

### Laboratory Analysis

Analysis							<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>
06/28	1700	PJC	BOD, 5-day	17.00 mg/L			SM 2011 5210 B	0.00	95.1 *
07/03	1400	PJC	Ammonia as N, (HACH/SM)	5.89 mg/L			H/SM 11 10205/4500	2.26	101.1 *
07/02	1230	CLB	Kjeldahl Nitrogen Total	12.60 mg/L			SM 1997 4500-NorgB	3.35	90.5
07/05	1718	RAH	Copper	< 0.00300 mg/L			EPA 200.8	7.11	107.5 *
07/05	1718	RAH	Zinc	0.0100 mg/L			EPA 200.8	3.10	101.5 *
07/05	1718	RAH	Arsenic	< 0.0100 mg/L			EPA 200.8	4.54	102.6 *
07/05	1718	RAH	Selenium	< 0.0100 mg/L			EPA 200.8	1.04	103.5 *
06/28	1025	JGK	Spec. Conductance @ 25 C	214.000 umho/c			SM1997 2510B	0.00	N/A *
07/05	1718	RAH	Cadmium	< 0.0040 mg/L			EPA 200.8	1.80	106.5 *
07/06	1550	RAH	Mercury	< 0.0010 mg/L			EPA 245.1	2.69	98.9 *
07/05	1718	RAH	Lead	< 0.0100 mg/L			EPA 200.8	0.30	103.8 *
07/03	1545	NTR	Nitrate + Nitrite	0.54 mg/L			HACH 10206	0.94	99.2 *

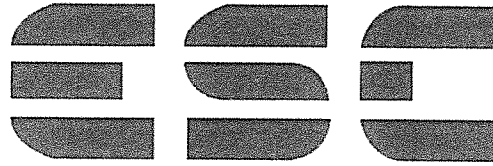
\* QA data shown is from a different sample or standard on the same date.

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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 Carlsbad, New Mexico  
 575-887-1ESC

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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.A)	Metals (See Comments)								
Address:	P.O. Box 277			Purchase Order #:																		
	Clinton, AR 72031			Work Order #:																		
Phone:	501-745-4320			Sampler Name(s):	J. Kroenschid																	
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	#	BOD(3.)	NH3-N(15.A), NO3 + NO2(91.)	TKN(16.A)	Metals (See Comments)									
Irrigation Water	1806010510	6/28/18	1022	Grab	Wwater	Plastic	1/2 Gal	Cool ≤ 6° C	1	X												
		1	1	Grab	Wwater	Plastic	1 Liter	Cool ≤ 6° C, H2SO4 to pH <2	1		X	X										
		4	4	Grab	Wwater	Plastic	1 Liter	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 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 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"/>										
								Flow Data	Field Test	Time	Analyst	Result	Result	Units								
Comments: Metals: Hg(50.15), Cu(29.HW), Zn(30.HW), As(33.HW), Se(34.HW)				Analyst:		pH:	1025	JW	7.48	7.48	S.U.											
Cd(48.HW), Pb(82.HW)				Time:		Conduct:	1025	JW	214	214	UMHOS											
				Reading:																		
				Units:																		
								Fecal Start:														

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

Control Number: 1808010370  
 Customer Name : CLINTON, EAST IW  
 Customer/Permit No. : 619 / AR0048836 001  
 Report Date : 09/04/18


Sample Date : 08/22/18  
 Sample Time : 0950  
 Sample Type : GRAB WWATER  
 Sample From : IRRIGATION WATER

Collected By: JJM  
 Delivery By : JJM  
 Work Order :  
 Purchase Order :

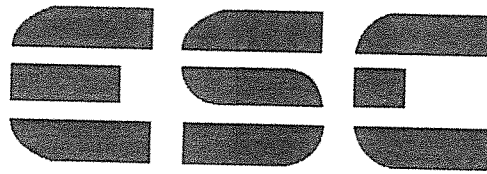
<u>Laboratory Analysis</u>							<u>Quality Assurance</u>	
Analysis			Result	Notes	Quantity	Method	Precision	Accuracy
Date	Time	By					Parameter	% RPD
08/24	0800	DAH	BOD, 5-day	39.30 mg/L		SM 2011 5210 B	0.65	103.9 *
08/24	0715	NTR	Ammonia as N, (HACH/SM)	1.78 mg/L		H/SM 11 10205/4500	1.75	100.0 *
08/31	1320	NTR	Total Kjeldahl Nitrogen	6.0 mg/L		02/2014 HACH 10242	2.30	100.3 *
08/22	0954	JJM	pH	7.5 S.U.		SM 2000 4500-H+B	0.00	N/A *
08/28	1600	PJC	Copper	0.00500 mg/L		EPA 200.8	2.80	94.2 *
08/28	1600	PJC	Zinc	0.3910 mg/L		EPA 200.8	6.26	97.1 *
08/28	1600	PJC	Arsenic	< 0.0100 mg/L		EPA 200.8	0.30	96.8 *
08/28	1600	PJC	Selenium	< 0.0100 mg/L		EPA 200.8	2.23	94.1 *
08/22	0954	JJM	Spec. Conductance @ 25 C	415.000 umho/c		SM1997 2510B	0.00	N/A
08/28	1600	PJC	Cadmium	< 0.0040 mg/L		EPA 200.8	0.24	93.6 *
08/28	1600	PJC	Mercury	< 0.0010 mg/L		EPA 245.1	10.26	103.4 *
08/28	1600	PJC	Lead	0.0102 mg/L		EPA 200.8	2.81	90.3 *
08/29	0930	CLB	Nitrate + Nitrite	1.03 mg/L		HACH 10206	19.00	90.4 *

\* 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.

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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):	Josh Miller									
Fax:	501-745-2164			and Signature(s):	Josh Miller									
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	1808010370	8/22/18	0950	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	1 Liter	HNO3 to pH <2	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:	<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)		Analyst:	How Data	Field Test	Time	Analyst	Result	Result	Units			
		Cd(48.HW), Pb(82.HW), 00.MD		Time:		pH:	0954	SBM	7.5		S.U.			
				Reading:		Conduct:	0954	SBM	415	415	UMHOS			
				Units:										
													This Document is Page 1 of 1	

JA

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Control Number: 1811010350 Sample Date : 11/19/18 Collected By: TMO  
 Customer Name : CLINTON, EAST IW Sample Time : 1335 Delivery By : TMO  
 Customer/Permit No. : 619 / AR0048836 001 Sample Type : GRAB WWATER Work Order :  
 Report Date : 12/04/18 Sample From : IRRIGATION WATER Purchase Order :

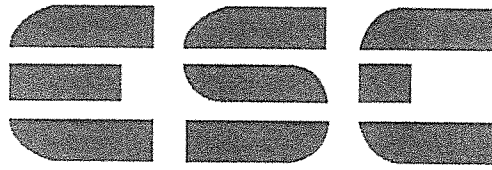
<u>Laboratory Analysis</u>							<u>Quality Assurance</u>	
<u>Analysis</u>			<u>Result</u>	<u>Notes</u>	<u>Quantity</u>	<u>Method</u>	<u>Precision</u>	<u>Accuracy</u>
<u>Date</u>	<u>Time</u>	<u>By</u>	<u>Parameter</u>				<u>% RPD</u>	<u>% Recovery</u>
11/21	0630	DWC	BOD, 5-day	11.80 mg/L		SM 2011 5210 B	12.73	106.6 *
11/21	1300	TCF	Ammonia as N, (HACH/SM)	5.79 mg/L		H/SM 11 10205/4500	2.19	98.9 *
11/27	0900	TCF	Total Kjeldahl Nitrogen	8.0 mg/L		02/2014 HACH 10242	2.13	101.0
11/19	1339	TMO	pH	8.1 S.U.		SM 2000 4500-H+B	0.00	N/A *
11/30	1200	PJC	Copper	0.00330 mg/L		EPA 200.8	2.42	101.1
11/30	1200	PJC	Zinc	0.0261 mg/L		EPA 200.8	2.90	99.3
11/30	1200	PJC	Arsenic	< 0.0100 mg/L		EPA 200.8	9.60	96.2
11/30	1200	PJC	Selenium	< 0.0100 mg/L		EPA 200.8	1.74	95.5
11/19	1339	TMO	Spec. Conductance @ 25 C	187.000 umho/c		SM1997 2510B	0.00	N/A
11/30	1200	PJC	Cadmium	< 0.0040 mg/L		EPA 200.8	0.05	98.1
11/21	1500	PJC	Mercury	< 0.0010 mg/L		EPA 245.1	2.48	88.0
11/30	1200	PJC	Lead	< 0.0100 mg/L		EPA 200.8	7.75	97.9
11/21	1545	TCF	Nitrate + Nitrite	0.46 mg/L		HACH 10206	1.49	101.0 *

\* 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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 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, 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 Clinton, AR 72031				Purchase Order #:															
Phone: 501-745-4320				Work Order #:															
Fax: 501-745-2164				Sampler Name(s): <i>Timothy O'Neal</i>															
Contact: Mr. Phil Graham				and Signature(s): <i>Timothy O'Neal</i>															
ESC Client Number: 619																			
Sample Identification		Sample Collection				Sample Containers													
Identification	ESC Control #	Date	Time	Type	Matrix	Type	Volume	Preservative	#	BOD(3)	NH3-N(15.A), NO3 + NO2(91.)	TKN(16.C)	Metals (See Comments)						
Irrigation Water	1811010350	11-19-18	1335	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	1 Liter	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"/>						
				Flow Data		Field Test		Time	Analyst	Result	Result	Units							
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				Analyst:		pH:		1339	TMO	8.1	8.1	S.U.							
				Time:		Conduct:		1339	79.7	187.0	187.0	UMHOS							
				Reading:															
				Units:															
													This Document is Page <u>1</u> of <u>1</u>						

# 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: 1802010337  
 Customer Name : CLINTON, EAST 40.24 LA PB 3  
 Customer Number : 3004  
 Report Date : 02/28/18

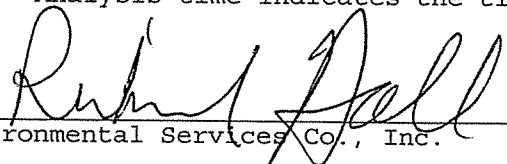
Sample Date : 02/19/18  
 Sample Time : 1215  
 Sample Type : GRAB SOIL  
 Sample From : EAST LA 40.24 PB3

Collected By: TCF  
 Delivery By : TCF  
 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>
02/23	1630	CLB	Ammonia Nitrogen	0.3070 mg/kg		SM 1997 4500-NH3 C	1.17	98.2 *
02/22	1520	RAH	Mercury	< 0.1277 mg/Kg		SW-846 7474 02/07	4.78	89.5 *
02/27	1030	CLB	Nitrate Nitrogen	4.680 mg/kg		SM 2000 4500-NO3 E	4.35	98.2 *
02/26	1600	CLB	Phosphorous, Total (as P)	482.3500 mg/kg		EPA 365.3	2.19	94.6 *
02/27	1231	RAH	Magnesium	1741.00 mg/Kg		SW-846 6020A	2.37	111.6 *
02/27	1231	RAH	Potassium	2300.00 mg/Kg		SW-846 6020A	2.32	98.7 *
02/23	0900	CLB	pH Soil	6.80 S.U.		SW846 9045C	0.00	N/A *
02/27	1231	RAH	Nickel	33.00 mg/Kg		SW-846 6020A	0.21	98.3 *
02/27	1231	RAH	Copper	12.00 mg/Kg		SW-846 6020A	0.35	98.2 *
02/27	1231	RAH	Zinc	109.50 mg/Kg		SW-846 6020A	1.09	107.5 *
02/28	1530	CLB	Nitogen, Plant Available	4.98 mg/kg		33 MSA 2nd Ed	0.00	100.0 *
02/27	1231	RAH	Arsenic	14.50 mg/Kg		SW-846 6020A	1.50	100.6 *
02/23	0900	CLB	Specific Conductance	30.5000 umhos		EPA (MOD)9050A	0.00	N/A *
02/27	1231	RAH	Cadmium	< 2.50 mg/Kg		SW-846 6020A	0.22	100.8 *
02/27	1231	RAH	Lead	22.50 mg/Kg		SW-846 6020A	2.41	95.1 *

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

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Control Number: 1802010338  
 Customer Name : CLINTON, EAST 40.24 LA PB 30  
 Customer Number : 3003  
 Report Date : 03/02/18

Sample Date : 02/19/18  
 Sample Time : 1230  
 Sample Type : GRAB SOIL  
 Sample From : EAST LA 40.24 PB30

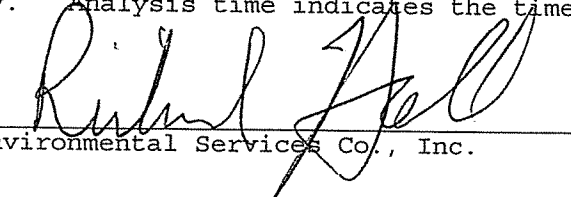
Collected By: TCF  
 Delivery By : TCF  
 Work Order :  
 Purchase Order :

<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>
02/23	1630	CLB	Ammonia Nitrogen	1.3900 mg/kg		SM 1997 4500-NH3 C	1.17	98.2 *
02/22	1520	RAH	Mercury	< 0.1195 mg/Kg		SW-846 7474 02/07	4.78	89.5 *
02/27	1030	CLB	Nitrate Nitrogen	10.350 mg/kg		SM 2000 4500-NO3 E	4.35	98.2 *
02/26	1600	CLB	Phosphorous, Total (as P)	485.1300 mg/kg		EPA 365.3	2.19	94.6 *
02/27	1231	RAH	Magnesium	991.50 mg/Kg		SW-846 6020A	2.37	111.6 *
02/27	1231	RAH	Potassium	1413.50 mg/Kg		SW-846 6020A	2.32	98.7 *
02/23	0900	CLB	pH Soil	6.90 S.U.		SW846 9045C	0.00	N/A *
02/27	1231	RAH	Nickel	28.00 mg/Kg		SW-846 6020A	0.21	98.3 *
02/27	1231	RAH	Copper	10.50 mg/Kg		SW-846 6020A	0.35	98.2 *
02/27	1231	RAH	Zinc	75.50 mg/Kg		SW-846 6020A	1.09	107.5 *
02/28	1530	CLB	Nitrogen, Plant Available	11.74 mg/kg		33 MSA 2nd Ed	0.00	100.0 *
02/27	1231	RAH	Arsenic	16.50 mg/Kg		SW-846 6020A	1.50	100.6 *
02/23	0900	CLB	Specific Conductance	19.5900 umhos		EPA (MOD)9050A	0.00	N/A *
02/27	1231	RAH	Cadmium	< 2.50 mg/Kg		SW-846 6020A	0.22	100.8 *
02/27	1231	RAH	Lead	17.00 mg/Kg		SW-846 6020A	2.41	95.1 *

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Control Number: 1802010088

Sample Date : 02/19/18

Collected By: TCF

Customer Name : CLINTON, EAST 55.57 LA PB 10

Sample Time : 1145

Delivery By : TCF

Customer/Permit No. : 511 / AR0048836 001

Sample Type : GRAB SOIL

Work Order :

Report Date : 02/28/18

Sample From : EAST LA 55.57 PB10

Purchase Order :


## Laboratory Analysis

Analysis			Laboratory Analysis				Quality Assurance		
Date	Time	By	Parameter	Result	Notes	Quantity	Method	Precision % RPD	Accuracy % Recovery
02/23	1630	CLB	Ammonia Nitrogen	0.5260 mg/kg			SM 1997 4500-NH3 C	1.17	98.2
02/22	1520	RAH	Mercury	< 0.1176 mg/Kg			SW-846 7474 02/07	4.78	89.5
02/27	1030	CLB	Nitrate Nitrogen	4.030 mg/kg			SM 2000 4500-NO3 E	4.35	98.2 *
02/26	1600	CLB	Phosphorous, Total (as P)	460.4100 mg/kg			EPA 365.3	2.19	94.6
02/27	1231	RAH	Magnesium	845.00 mg/Kg			SW-846 6020A	2.37	111.6
02/27	1231	RAH	Potassium	1061.50 mg/Kg			SW-846 6020A	2.32	98.7
02/23	0900	CLB	pH Soil	7.11 S.U.			SW846 9045C	0.00	N/A *
02/27	1231	RAH	Nickel	17.50 mg/Kg			SW-846 6020A	0.21	98.3
02/27	1231	RAH	Copper	6.50 mg/Kg			SW-846 6020A	0.35	98.2
02/27	1231	RAH	Zinc	61.50 mg/Kg			SW-846 6020A	1.09	107.5
02/28	1530	CLB	Nitrogen, Plant Available	4.55 mg/kg			33 MSA 2nd Ed	0.00	100.0
02/27	1231	RAH	Arsenic	9.00 mg/Kg			SW-846 6020A	1.50	100.6
02/23	0900	CLB	Specific Conductance	42.8000 umhos			EPA (MOD)9050A	0.00	N/A *
02/27	1231	RAH	Cadmium	< 2.50 mg/Kg			SW-846 6020A	0.22	100.8
02/27	1231	RAH	Lead	12.00 mg/Kg			SW-846 6020A	2.41	95.1

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

Control Number: 1802010339  
 Customer Name : CLINTON, EAST 55.57 LA PB 3  
 Customer Number : 3002  
 Report Date : 02/28/18

Sample Date : 02/19/18  
 Sample Time : 1155  
 Sample Type : GRAB SOIL  
 Sample From : EAST LA 55.57 PB3

Collected By: TCF  
 Delivery By : TCF  
 Work Order :  
 Purchase Order :

### Laboratory Analysis

Analysis						Quality Assurance			
Date	Time	By	Parameter	Result	Notes	Quantity	Method	Precision % RPD	Accuracy % Recovery
02/23	1630	CLB	Ammonia Nitrogen	0.3560 mg/kg			SM 1997 4500-NH3 C	1.17	98.2 *
02/22	1520	RAH	Mercury	< 0.1188 mg/Kg			SW-846 7474 02/07	4.78	89.5 *
02/27	1030	CLB	Nitrate Nitrogen	3.100 mg/kg			SM 2000 4500-NO3 E	4.35	98.2 *
02/26	1600	CLB	Phosphorous, Total (as P)	391.4800 mg/kg			EPA 365.3	2.19	94.6 *
02/27	1231	RAH	Magnesium	782.50 mg/Kg			SW-846 6020A	2.37	111.6 *
02/27	1231	RAH	Potassium	850.00 mg/Kg			SW-846 6020A	2.32	98.7 *
02/23	0900	CLB	pH Soil	6.80 S.U.			SW846 9045C	0.00	N/A *
02/27	1231	RAH	Nickel	17.50 mg/Kg			SW-846 6020A	0.21	98.3 *
02/27	1231	RAH	Copper	7.00 mg/Kg			SW-846 6020A	0.35	98.2 *
02/27	1231	RAH	Zinc	50.50 mg/Kg			SW-846 6020A	1.09	107.5 *
02/28	1530	CLB	Nitogen, Plant Available	3.45 mg/kg			33 MSA 2nd Ed	0.00	100.0 *
02/27	1231	RAH	Arsenic	8.00 mg/Kg			SW-846 6020A	1.50	100.6 *
02/23	0900	CLB	Specific Conductance	27.0000 umhos			EPA (MOD)9050A	0.00	N/A *
02/27	1231	RAH	Cadmium	< 2.50 mg/Kg			SW-846 6020A	0.22	100.8 *
02/27	1231	RAH	Lead	10.50 mg/Kg			SW-846 6020A	2.41	95.1 *

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Control Number: 1802010340

Sample Date : 02/19/18

Collected By: TCF

Customer Name : CLINTON, EAST 55.57 LA PB 30

Sample Time : 1205

Delivery By : TCF

Customer Number : 3001

Sample Type : GRAB SOIL

Work Order :

Report Date : 02/28/18

Sample From : EAST LA 55.57 PB30

Purchase Order :

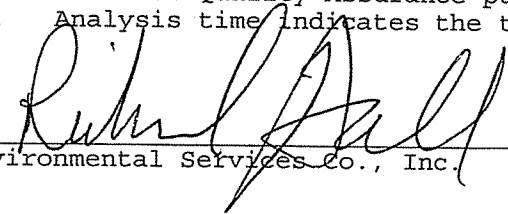
## Laboratory Analysis

Analysis			Laboratory Analysis				Quality Assurance		
Date	Time	By	Parameter	Result	Notes	Quantity	Method	Precision % RPD	Accuracy % Recovery
02/23	1630	CLB	Ammonia Nitrogen	0.2950 mg/kg			SM 1997 4500-NH3 C	1.17	98.2 *
02/22	1520	RAH	Mercury	< 0.1196 mg/Kg			SW-846 7474 02/07	4.78	89.5 *
02/27	1030	CLB	Nitrate Nitrogen	4.150 mg/kg			SM 2000 4500-NO3 E	4.35	98.2 *
02/26	1600	CLB	Phosphorous, Total (as P)	412.9200 mg/kg			EPA 365.3	2.19	94.6 *
02/27	1231	RAH	Magnesium	881.50 mg/Kg			SW-846 6020A	2.37	111.6 *
02/27	1231	RAH	Potassium	1176.50 mg/Kg			SW-846 6020A	2.32	98.7 *
02/23	0900	CLB	pH Soil	6.83 S.U.			SW846 9045C	0.00	N/A
02/27	1231	RAH	Nickel	19.50 mg/Kg			SW-846 6020A	0.21	98.3 *
02/27	1231	RAH	Copper	7.00 mg/Kg			SW-846 6020A	0.35	98.2 *
02/27	1231	RAH	Zinc	62.00 mg/Kg			SW-846 6020A	1.09	107.5 *
02/28	1530	CLB	Nitogen, Plant Available	4.44 mg/kg			33 MSA 2nd Ed	0.00	100.0 *
02/27	1231	RAH	Arsenic	9.00 mg/Kg			SW-846 6020A	1.50	100.6 *
02/23	0900	CLB	Specific Conductance	249.0000 umhos			EPA (MOD)9050A	0.00	N/A
02/27	1231	RAH	Cadmium	< 2.50 mg/Kg			SW-846 6020A	0.22	100.8 *
02/27	1231	RAH	Lead	12.50 mg/Kg			SW-846 6020A	2.41	95.1 *

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Control Number: 1802010341  
 Customer Name : CLINTON, EAST LA AIRPORT9  
 Customer Number : 2959  
 Report Date : 02/28/18

Sample Date : 02/19/18  
 Sample Time : 1130  
 Sample Type : GRAB SOIL  
 Sample From : EAST LA AIRPORT 9

Collected By: TCF  
 Delivery By : TCF  
 Work Order :  
 Purchase Order :

### Laboratory Analysis

Analysis			Laboratory Analysis				Quality Assurance		
Date	Time	By	Parameter	Result	Notes	Quantity	Method	Precision % RPD	Accuracy % Recovery
02/23	1630	CLB	Ammonia Nitrogen	1.6800 mg/kg			SM 1997 4500-NH3 C	1.17	98.2 *
02/22	1520	RAH	Mercury	< 0.1304 mg/Kg			SW-846 7474 02/07	4.78	89.5 *
02/27	1030	CLB	Nitrate Nitrogen	9.390 mg/kg			SM 2000 4500-NO3 E	4.35	98.2 *
02/26	1600	CLB	Phosphorous, Total (as P)	297.0100 mg/kg			EPA 365.3	2.19	94.6 *
02/27	1231	RAH	Magnesium	735.50 mg/Kg			SW-846 6020A	2.37	111.6 *
02/27	1231	RAH	Potassium	1066.00 mg/Kg			SW-846 6020A	2.32	98.7 *
02/23	0900	CLB	pH Soil	6.96 S.U.			SW846 9045C	0.00	N/A *
02/27	1231	RAH	Nickel	17.00 mg/Kg			SW-846 6020A	0.21	98.3 *
02/27	1231	RAH	Copper	6.00 mg/Kg			SW-846 6020A	0.35	98.2 *
02/27	1231	RAH	Zinc	45.00 mg/Kg			SW-846 6020A	1.09	107.5 *
02/28	1530	CLB	Nitrogen, Plant Available	11.07 mg/kg			33 MSA 2nd Ed	0.00	100.0 *
02/27	1231	RAH	Arsenic	8.00 mg/Kg			SW-846 6020A	1.50	100.6 *
02/23	0900	CLB	Specific Conductance	12.5200 umhos			EPA (MOD)9050A	0.00	N/A *
02/27	1231	RAH	Cadmium	< 2.50 mg/Kg			SW-846 6020A	0.22	100.8 *
02/27	1231	RAH	Lead	9.50 mg/Kg			SW-846 6020A	2.41	95.1 *

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Control Number: 1802010342  
 Customer Name : CLINTON, EAST LA WD13  
 Customer Number : 2960  
 Report Date : 02/28/18

Sample Date : 02/19/18  
 Sample Time : 1120  
 Sample Type : GRAB SOIL  
 Sample From : EAST LA WD13

Collected By: TCF  
 Delivery By : TCF  
 Work Order :  
 Purchase Order :

### Laboratory Analysis

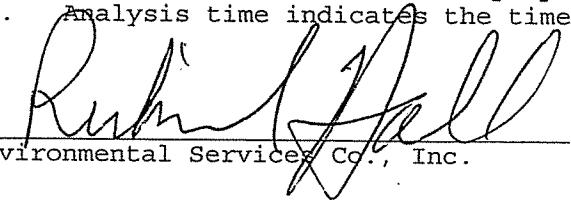
Analysis						Quality Assurance			
Date	Time	By	Parameter	Result	Notes	Quantity	Method	Precision % RPD	Accuracy % Recovery
02/23	1630	CLB	Ammonia Nitrogen	1.4700 mg/kg			SM 1997 4500-NH3 C	1.17	98.2 *
02/22	1520	RAH	Mercury	< 0.1306 mg/Kg			SW-846 7474 02/07	4.78	89.5 *
02/27	1030	CLB	Nitrate Nitrogen	9.060 mg/kg			SM 2000 4500-NO3 E	4.35	98.2 *
02/26	1600	CLB	Phosphorous, Total (as P)	382.1000 mg/kg			EPA 365.3	2.19	94.6 *
02/27	1231	RAH	Magnesium	1094.00 mg/Kg			SW-846 6020A	2.37	111.6 *
02/27	1231	RAH	Potassium	1716.00 mg/Kg			SW-846 6020A	2.32	98.7 *
02/23	0900	CLB	pH Soil	7.22 S.U.			SW846 9045C	0.00	N/A *
02/27	1231	RAH	Nickel	21.50 mg/Kg			SW-846 6020A	0.21	98.3 *
02/27	1231	RAH	Copper	7.50 mg/Kg			SW-846 6020A	0.35	98.2 *
02/27	1231	RAH	Zinc	64.50 mg/Kg			SW-846 6020A	1.09	107.5 *
02/28	1530	CLB	Nitrogen, Plant Available	10.53 mg/kg			33 MSA 2nd Ed	0.00	100.0 *
02/27	1231	RAH	Arsenic	12.00 mg/Kg			SW-846 6020A	1.50	100.6 *
02/23	0900	CLB	Specific Conductance	12.0700 umhos			EPA (MOD)9050A	0.00	N/A *
02/27	1231	RAH	Cadmium	< 2.50 mg/Kg			SW-846 6020A	0.22	100.8 *
02/27	1231	RAH	Lead	14.50 mg/Kg			SW-846 6020A	2.41	95.1 *

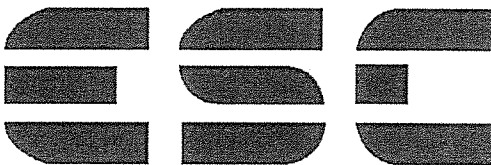
\* QA data shown is from a different sample or standard on the same date.

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Signature \_\_\_\_\_

Environmental Services Co., Inc.





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): <i>Trevor Forthman</i>												
Fax: Mr. Phil Graham				and Signature(s): <i>[Signature]</i>												
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)	1802010337	2-19-18	1215	Grab	Soil	Glass	1 Liter	Cool ≤ 6° C	1	X	X	X	X			
East LA 40.24 PB30 (3003)	1802010338	2-19-18	1230	Grab	Soil	Glass	1 Liter	Cool ≤ 6° C	1	X	X	X	X			
East LA 55.57 PB10 (511)	1802010088	2-19-18	1145	Grab	Soil	Glass	1 Liter	Cool ≤ 6° C	1	X	X	X	X			
East LA 55.57 PB3 (3002)	1802010339	2-19-18	1155	Grab	Soil	Glass	1 Liter	Cool ≤ 6° C	1	X	X	X	X			
East LA 55.57 PB30 (3001)	1802010340	2-19-18	1205	Grab	Soil	Glass	1 Liter	Cool ≤ 6° C	1	X	X	X	X			
East LA Airport9 (2959)	1802010341	2-19-18	1130	Grab	Soil	Glass	1 Liter	Cool ≤ 6° C	1	X	X	X	X			
East LA WD13 (2960)	1802010342	2-19-18	1120	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:								
<i>[Signature]</i> Trevor Forthman		2-19-18	1515	<i>[Signature]</i> David DeLant		2-19-18	1515	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>								
Flow Data						Field Test		Time		Analyst		Result		Units		
Comments: Hg(01.14), Mn(12.HS), K(19.HS), Ni(28.HS), Cu(29.HS), Zn(30.HS)						Analyst:										
As(33.HS), Cd(48.HS), Pb(82.HS),						Time:										
						Reading:										
						Units:										
						Fecal Start:										
													This Document is Page <u>1</u> of <u>  </u>			

# 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: 1803010322  
 Customer Name : CLINTON, EAST GW13  
 Customer/Permit No. : 507 / AR0048836 001  
 Report Date : 04/02/18

Sample Date : 03/26/18  
 Sample Time : 1031  
 Sample Type : GRAB WATER  
 Sample From : EAST WELL #13

Collected By: JJM  
 Delivery By : JJM  
 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>
03/27	0750	DWC	Chloride (as Cl)	12.0 mg/L			SM1997 4500ClC	0.43	92.0 *
03/26	1031	JJM	pH	6.3 S.U.			SM 2000 4500-H+B	0.00	N/A
03/27	1430	CLB	Solids, Total Dissolved	140.0 mg/L			SM1997 2540 C	0.00	N/A
03/26	1031	JJM	Spec. Conductance @ 25 C	260.000 umho/c			SM1997 2510B	0.00	N/A
03/29	1430	CLB	Nitrate + Nitrite	1.67 mg/L			HACH 10206	1.12	98.3 *
03/26	1031	JJM	Well Depth, Total	15.40 Feet				N/A	N/A
03/26	1031	JJM	Depth to Water	10.00 Feet				N/A	N/A

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Control Number: 1803010323  
 Customer Name : CLINTON, EAST GW14  
 Customer/Permit No. : 508 / AR0048836 001  
 Report Date : 04/02/18

Sample Date : 03/26/18  
 Sample Time : 1052  
 Sample Type : GRAB WATER  
 Sample From : EAST WELL #14

Collected By: JJM  
 Delivery By : JJM  
 Work Order :  
 Purchase Order :

### Laboratory Analysis

Analysis						Quality Assurance			
Date	Time	By	Parameter	Result	Notes	Quantity	Method	Precision % RPD	Accuracy % Recovery
03/27	0750	DWC	Chloride (as Cl)	5.0 mg/L			SM1997 4500ClC	0.43	92.0 *
03/26	1052	JJM	pH	7.0 S.U.			SM 2000 4500-H+B	0.00	N/A *
03/27	1430	CLB	Solids, Total Dissolved	82.0 mg/L			SM1997 2540 C	0.00	N/A *
03/26	1052	JJM	Spec. Conductance @ 25 C	126.400 umho/c			SM1997 2510B	0.00	N/A *
03/29	1430	CLB	Nitrate + Nitrite	0.49 mg/L			HACH 10206	1.12	98.3 *
03/26	1052	JJM	Well Depth, Total	13.10 Feet				N/A	N/A
03/26	1052	JJM	Depth to Water	9.20 Feet				N/A	N/A

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Control Number: 1803010324  
 Customer Name : CLINTON, EAST GW16  
 Customer/Permit No. : 509 / AR0048836 001  
 Report Date : 03/27/18

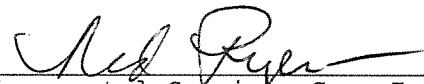
Sample Date : 03/26/18  
 Sample Time :  
 Sample Type : DRY WELL  
 Sample From : EAST WELL #16

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

<u>Laboratory Analysis</u>							<u>Quality Assurance</u>	
Analysis			Result	Notes	Quantity	Method	Precision	Accuracy
Date	Time	By	Parameter				% RPD	% Recovery
03/26	1006	JJM	Dry Well				N/A	N/A

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

Control Number: 1803010325  
 Customer Name : CLINTON, EAST GW17  
 Customer/Permit No. : 649 / AR0048747 001  
 Report Date : 04/02/18

Sample Date : 03/26/18  
 Sample Time : 1016  
 Sample Type : GRAB WATER  
 Sample From : EAST WELL #17

Collected By: JJM  
 Delivery By : JJM  
 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>
03/27	0750	DWC	Chloride (as Cl)	1.0 mg/L			SM1997 4500ClC	0.43	92.0 *
03/26	1016	JJM	pH	6.2 S.U.			SM 2000 4500-H+B	0.00	N/A *
03/27	1430	CLB	Solids, Total Dissolved	94.0 mg/L			SM1997 2540 C	0.00	N/A *
03/26	1016	JJM	Spec. Conductance @ 25 C	81.100 umho/c			SM1997 2510B	0.00	N/A *
03/29	1430	CLB	Nitrate + Nitrite	4.31 mg/L			HACH 10206	1.12	98.3 *
03/26	1016	JJM	Well Depth, Total	17.60 Feet				N/A	N/A
03/26	1016	JJM	Depth to Water	12.80 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): Josh Miller  
 and Signature: Josh Miller

Sample Date: 3/26/18

Sample Identification (Customer #)	Laboratory Control Number	Sample Time:	Depth To Water	Total Well Depth	pH				Specific Conductance				Temperature Degrees C				Cl, TDS (1 L Plastic ≤ 6 Deg C)	NO3+N O2 (1 L Plastic #2504)
					#1	#2	#3	Time	#1	#2	#3	Time	#1	#2	#3	Time		
<b>Clinton East Wells</b>					#1	#2	#3	Time	#1	#2	#3	Time	#1	#2	#3	Time		
#13 (507)	1803010322	1031	10'0"	15' 4"	6.3	6.3	6.3	1038	260	260	260	1036	14.2	14.2	14.2	1036	X	X
#14 (508)	1803010323	1052	9'2"	13' 1"	7.0	7.0	6.9	1057	1264	1263	1264	1057	13.6	13.6	13.6	1057	X	X
#16 (509)	1803010324	1006		14' 0"	Dry Well												X	X
#17 (649)	1803010325	1016	12'9"	17' 6"	6.2	6.2	6.3	1022	81.1	82.2	82.5	1020	16.4	16.4	16.4	1020	X	X

Relinquished by: JJM Time: 1520 Received By Lab: Trish Brown Date: 3-26-18 Time: 1520

Comments:

*JJM*

# Environmental Services Company, Inc.

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

Control Number: 1806010504  
 Customer Name : CLINTON, EAST GW13  
 Customer/Permit No. : 507 / AR0048836 001  
 Report Date : 07/06/18

Sample Date : 06/28/18  
 Sample Time : 1200  
 Sample Type : GRAB WATER  
 Sample From : WELL #13

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


### Laboratory Analysis

Analysis						Quality Assurance			
Date	Time	By	Parameter	Result	Notes	Quantity	Method	Precision % RPD	Accuracy % Recovery
06/29	1530	DWC	Chloride (as Cl)	20.0 mg/L			SM1997 4500ClC	0.00	102.5 *
06/28	1200	JGK	pH	6.0 S.U.			SM 2000 4500-H+B	0.00	N/A *
07/02	1030	NTR	Solids, Total Dissolved	135.0 mg/L			SM1997 2540 C	7.41	N/A
06/28	1200	JGK	Spec. Conductance @ 25 C	258.000 umho/c			SM1997 2510B	0.00	N/A
07/03	1545	NTR	Nitrate + Nitrite	1.44 mg/L			HACH 10206	0.94	99.2
06/28	1200	JGK	Well Depth, Total	15.40 Feet				N/A	N/A
06/28	1200	JGK	Depth to Water	9.10 Feet				N/A	N/A

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 Environmental Services Co., Inc.

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

Control Number: 1806010505  
 Customer Name : CLINTON, EAST GW14  
 Customer/Permit No. : 508 / AR0048836 001  
 Report Date : 07/06/18

Sample Date : 06/28/18  
 Sample Time : 1056  
 Sample Type : GRAB WATER  
 Sample From : WELL #14


Collected By: JGK  
 Delivery By : JGK  
 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>
06/29	1530	DWC	Chloride (as Cl)	20.0 mg/L			SM1997 4500ClC	0.00	102.5 *
06/28	1056	JGK	pH	5.5 S.U.			SM 2000 4500-H+B	0.00	N/A *
07/02	1030	NTR	Solids, Total Dissolved	90.0 mg/L			SM1997 2540 C	7.41	N/A *
06/28	1056	JGK	Spec. Conductance @ 25 C	132.600 umho/c			SM1997 2510B	0.00	N/A *
07/03	1545	NTR	Nitrate + Nitrite	1.61 mg/L			HACH 10206	0.94	99.2 *
06/28	1056	JGK	Well Depth, Total	13.10 Feet				N/A	N/A
06/28	1056	JGK	Depth to Water	9.00 Feet				N/A	N/A

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 1107 Century Avenue  
 Springdale, AR 72762  
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Control Number: 1806010506  
 Customer Name : CLINTON, EAST GW16  
 Customer/Permit No. : 509 / AR0048836 001  
 Report Date : 07/02/18

Sample Date : 06/28/18  
 Sample Time : 1113  
 Sample Type : DRY WELL  
 Sample From : WELL #16

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

### Laboratory Analysis


Analysis				Result	Notes	Quantity	Method
Date	Time	By	Parameter				
06/28	1113	JGK	Dry Well	0.00			

### Quality Assurance

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

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

Control Number: 1806010507  
 Customer Name : CLINTON, EAST GW17  
 Customer/Permit No. : 649 / AR0048747 001  
 Report Date : 07/06/18

Sample Date : 06/28/18  
 Sample Time : 1047  
 Sample Type : GRAB WATER  
 Sample From : WELL #17


Collected By: JGK  
 Delivery By : JGK  
 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>
06/29	1530	DWC	Chloride (as Cl)	10.0 mg/L			SM1997 4500ClC	0.00	102.5 *
06/28	1047	JGK	pH	5.4 S.U.			SM 2000 4500-H+B	0.00	N/A *
07/02	1030	NTR	Solids, Total Dissolved	100.0 mg/L			SM1997 2540 C	7.41	N/A *
06/28	1047	JGK	Spec. Conductance @ 25 C	88.900 umho/c			SM1997 2510B	0.00	N/A *
07/03	1545	NTR	Nitrate + Nitrite	6.06 mg/L			HACH 10206	0.94	99.2 *
06/28	1047	JGK	Well Depth, Total	17.60 Feet				N/A	N/A
06/28	1047	JGK	Depth to Water	12.00 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): J. Koernschild  
 and Signature: [Signature]

Sample Date: \_\_\_\_\_

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 (1L Plastic #250A)
					#1	#2	#3	Time	#1	#2	#3	Time	#1	#2	#3	Time		
<b>Clinton East Wells</b>					#1	#2	#3	Time	#1	#2	#3	Time	#1	#2	#3	Time		
#13 (507)	1806010504	1200	9'1"	15'4"	6.0	6.0	6.0	1200	258	258	258	1200	21.2	21.2	21.2	1200	X	X
#14 (508)	1806010505	1056	9'0"	13'1"	5.5	5.5	5.5	1056	132.6	132.6	132.6	1056	19.0	19.0	19.0	1056	X	X
#16 (509)	1806010506	1113		14'0"	Dry Well												X	X
#17 (649)	1806010507	1047	12'0"	17'6"	5.4	5.4	5.4	1047	88.9	88.9	88.9	1047	19.1	19.1	19.1	1047	X	X

Relinquished by: J. Koernschild Time: 1700 Received By Lab: [Signature] Date: 6-28-18 Time: 1700

Comments:   
[Handwritten Signature]

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

Control Number: 1808010371  
 Customer Name : CLINTON, EAST GW13  
 Customer/Permit No. : 507 / AR0048836 001  
 Report Date : 09/04/18

Sample Date : 08/22/18  
 Sample Time : 1055  
 Sample Type : GRAB WATER  
 Sample From : EAST WELL #13

Collected By: JJM  
 Delivery By : JJM  
 Work Order :  
 Purchase Order :

### Laboratory Analysis

Analysis						Quality Assurance			
Date	Time	By	Parameter	Result	Notes	Quantity	Method	Precision % RPD	Accuracy % Recovery
08/29	1315	DWC	Chloride (as Cl)	1.0 mg/L			SM1997 4500ClC	0.00	101.9 *
08/22	1055	JJM	pH	6.1 S.U.			SM 2000 4500-H+B	0.00	N/A *
08/24	1245	PJC	Solids, Total Dissolved	76.0 mg/L			SM1997 2540 C	0.53	N/A *
08/22	1055	JJM	Spec. Conductance @ 25 C	147.100 umho/c			SM1997 2510B	0.00	N/A *
08/29	0930	CLB	Nitrate + Nitrite	1.58 mg/L			HACH 10206	19.00	90.4
08/22	1055	JJM	Well Depth, Total	15.40 Feet				N/A	N/A
08/22	1055	JJM	Depth to Water	7.80 Feet				N/A	N/A

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Signature \_\_\_\_\_

  
 Environmental Services Co., Inc.

# 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: 1808010372  
 Customer Name : CLINTON, EAST GW14  
 Customer/Permit No. : 508 / AR0048836 001  
 Report Date : 08/30/18


Sample Date : 08/22/18  
 Sample Time : 1110  
 Sample Type : GRAB WATER  
 Sample From : EAST WELL #14

Collected By: JJM  
 Delivery By : JJM  
 Work Order :  
 Purchase Order :

<u>Laboratory Analysis</u>							<u>Quality Assurance</u>	
Analysis			Result	Notes	Quantity	Method	Precision	Accuracy
Date	Time	By	Parameter				% RPD	% Recovery
08/29	1315	DWC	Chloride (as Cl)	7.0 mg/L		SM1997 4500ClC	0.00	101.9 *
08/22	1110	JJM	pH	6.0 S.U.		SM 2000 4500-H+B	0.00	N/A *
08/24	1245	PJC	Solids, Total Dissolved	80.0 mg/L		SM1997 2540 C	0.53	N/A *
08/22	1110	JJM	Spec. Conductance @ 25 C	134.000 umho/c		SM1997 2510B	0.00	N/A *
08/29	0930	CLB	Nitrate + Nitrite	1.11 mg/L		HACH 10206	19.00	90.4 *
08/22	1110	JJM	Well Depth, Total	13.10 Feet			N/A	N/A
08/22	1110	JJM	Depth to Water	7.60 Feet			N/A	N/A

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 Springdale, AR 72762  
 Tel. (479)750-1170 Fax (479)750-1172

Control Number: 1808010373  
 Customer Name : CLINTON, EAST GW16  
 Customer/Permit No. : 509 / AR0048836 001  
 Report Date : 08/30/18

Sample Date : 08/22/18  
 Sample Time : 1014  
 Sample Type : GRAB WATER  
 Sample From : EAST WELL #16

Collected By: JJM  
 Delivery By : JJM  
 Work Order :  
 Purchase Order :


### Laboratory Analysis

Analysis							<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>
08/29	1315	DWC	Chloride (as Cl)	< 0.1 mg/L			SM1997 4500ClC	0.00	101.9 *
08/22	1014	JJM	pH	6.5 S.U.			SM 2000 4500-H+B	0.00	N/A *
08/24	1245	PJC	Solids, Total Dissolved	68.0 mg/L			SM1997 2540 C	0.53	N/A *
08/22	1014	JJM	Spec. Conductance @ 25 C	81.200 umho/c			SM1997 2510B	0.00	N/A *
08/29	0930	CLB	Nitrate + Nitrite	0.41 mg/L			HACH 10206	19.00	90.4 *
08/22	1014	JJM	Well Depth, Total	14.00 Feet				N/A	N/A
08/22	1014	JJM	Depth to Water	9.00 Feet				N/A	N/A

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Signature \_\_\_\_\_

  
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 Little Rock, AR 72211  
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Northwest Arkansas Branch  
 1107 Century Avenue  
 Springdale, AR 72762  
 Tel. (479)750-1170 Fax (479)750-1172

Control Number: 1808010374  
 Customer Name : CLINTON, EAST GW17  
 Customer/Permit No. : 649 / AR0048747 001  
 Report Date : 08/30/18

Sample Date : 08/22/18  
 Sample Time : 1035  
 Sample Type : GRAB WATER  
 Sample From : EAST WELL #17

Collected By: JJM  
 Delivery By : JJM  
 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>
08/29	1315	DWC	Chloride (as Cl)	< 0.1 mg/L			SM1997 4500ClC	0.00	101.9 *
08/22	1035	JJM	pH	6.0 S.U.			SM 2000 4500-H+B	0.00	N/A *
08/24	1245	PJC	Solids, Total Dissolved	108.0 mg/L			SM1997 2540 C	0.53	N/A *
08/22	1035	JJM	Spec. Conductance @ 25 C	100.400 umho/c			SM1997 2510B	0.00	N/A *
08/29	0930	CLB	Nitrate + Nitrite	4.10 mg/L			HACH 10206	19.00	90.4 *
08/22	1035	JJM	Well Depth, Total	17.60 Feet				N/A	N/A
08/22	1035	JJM	Depth to Water	10.50 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): Josh Miller  
 and Signature: Josh Miller

Sample Date: 8-22-18

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 (1L Plastic H2SO4)
					#1	#2	#3	Time	#1	#2	#3	Time	#1	#2	#3	Time		
<b>Clinton East Wells</b>					#1	#2	#3	Time	#1	#2	#3	Time	#1	#2	#3	Time		
#13 (507)	1808010371	1055	7'8"	15' 4"	6.1	6.1	6.1	1100	147.1	147.2	147.1	1059	22.6	22.6	22.6	1059	X	X
#14 (508)	1808010372	1110	7'6"	13' 1"	6.0	6.1	6.0	1112	134.0	134.1	134.1	1113	21.6	21.6	12.6	1112	X	X
#16 (509)	1808010373	1014	9'	14' 0"	6.5	6.5	6.4	1014	81.2	81.2	81.2	1015	23.3	23.3	23.3	1014	X	X
#17 (649)	1808010374	1035	10'5"	17' 6"	6.0	5.9	5.9	1036	100.4	100.3	100.3	1037	21.0	21.0	21.0	1036	X	X

Relinquished by: Josh Miller Time: 1505 Received By Lab: Christina Brown Date: 8-22-18 Time: 1505

Comments:

# 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: 1811010351  
Customer Name : CLINTON, EAST GW13  
Customer/Permit No. : 507 / AR0048836 001  
Report Date : 11/27/18

Sample Date : 11/19/18  
Sample Time : 1245  
Sample Type : GRAB WATER  
Sample From : WELL #13

Collected By: TMO  
Delivery By : TMO  
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>
11/26	1230	DWC	Chloride (as Cl)		10.0 mg/L	SM1997 4500ClC	0.00	100.0 *
11/19	1245	TMO	pH		6.2 S.U.	SM 2000 4500-H+B	0.00	N/A *
11/20	0630	ATL	Solids, Total Dissolved		112.0 mg/L	SM1997 2540 C	0.80	N/A *
11/19	1245	TMO	Spec. Conductance @ 25 C		85.700 umho/c	SM1997 2510B	0.00	N/A *
11/21	1545	TCF	Nitrate + Nitrite		3.37 mg/L	HACH 10206	1.49	101.0 *
11/19	1245	TMO	Well Depth, Total		15.40 Feet		N/A	N/A
11/19	1245	TMO	Depth to Water		13.40 Feet		N/A	N/A

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Environmental Services Co., Inc.

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

Control Number: 1811010352  
 Customer Name : CLINTON, EAST GW14  
 Customer/Permit No. : 508 / AR0048836 001  
 Report Date : 11/27/18

Sample Date : 11/19/18  
 Sample Time : 1225  
 Sample Type : GRAB WATER  
 Sample From : WELL #14

Collected By: TMO  
 Delivery By : TMO  
 Work Order :  
 Purchase Order :

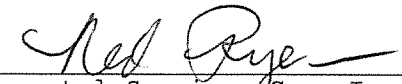
Laboratory Analysis

Analysis			Laboratory Analysis				Quality Assurance		
Date	Time	By	Parameter	Result	Notes	Quantity	Method	Precision % RPD	Accuracy % Recovery
11/26	1230	DWC	Chloride (as Cl)	10.0 mg/L			SM1997 4500ClC	0.00	100.0 *
11/19	1225	TMO	pH	6.6 S.U.			SM 2000 4500-H+B	0.00	N/A *
11/20	0630	ATL	Solids, Total Dissolved	100.0 mg/L			SM1997 2540 C	0.80	N/A *
11/19	1225	TMO	Spec. Conductance @ 25 C	83.900 umho/c			SM1997 2510B	0.00	N/A *
11/21	1545	TCF	Nitrate + Nitrite	3.19 mg/L			HACH 10206	1.49	101.0 *
11/19	1225	TMO	Well Depth, Total	13.10 Feet				N/A	N/A
11/19	1225	TMO	Depth to Water	13.60 Feet				N/A	N/A

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

Control Number: 1811010353  
Customer Name : CLINTON, EAST GW16  
Customer/Permit No. : 509 / AR0048836 001  
Report Date : 11/27/18

Sample Date : 11/19/18  
Sample Time : 1210  
Sample Type : GRAB WATER  
Sample From : WELL #16

Collected By: TMO  
Delivery By : TMO  
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>
11/26	1230	DWC	Chloride (as Cl)		10.0 mg/L	SM1997 4500ClC	0.00	100.0 *
11/19	1210	TMO	pH		6.3 S.U.	SM 2000 4500-H+B	0.00	N/A *
11/20	0630	ATL	Solids, Total Dissolved		96.0 mg/L	SM1997 2540 C	0.80	N/A *
11/19	1210	TMO	Spec. Conductance @ 25 C		130.000 umho/c	SM1997 2510B	0.00	N/A *
11/21	1545	TCF	Nitrate + Nitrite		3.89 mg/L	HACH 10206	1.49	101.0 *
11/19	1210	TMO	Well Depth, Total		14.00 Feet		N/A	N/A
11/19	1210	TMO	Depth to Water		14.00 Feet		N/A	N/A

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

Control Number: 1811010354  
 Customer Name : CLINTON, EAST GW17  
 Customer/Permit No. : 649 / AR0048747 001  
 Report Date : 11/27/18

Sample Date : 11/19/18  
 Sample Time : 1155  
 Sample Type : GRAB WATER  
 Sample From : WELL #17

Collected By: TMO  
 Delivery By : TMO  
 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>
11/26	1230	DWC	Chloride (as Cl)	10.0 mg/L			SM1997 4500ClC	0.00	100.0 *
11/19	1155	TMO	pH	6.3 S.U.			SM 2000 4500-H+B	0.00	N/A *
11/20	0630	ATL	Solids, Total Dissolved	128.0 mg/L			SM1997 2540 C	0.80	N/A *
11/19	1155	TMO	Spec. Conductance @ 25 C	127.800 umho/c			SM1997 2510B	0.00	N/A *
11/21	1545	TCF	Nitrate + Nitrite	5.95 mg/L			HACH 10206	1.49	101.0 *
11/19	1155	TMO	Well Depth, Total	17.60 Feet				N/A	N/A
11/19	1155	TMO	Depth to Water	12.90 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): Timothy D'Neal  
 and Signature: *Timothy D'Neal*

Sample Date: 11-19-18

Sample Identification (Customer #)	Laboratory Control Number	Sample Time:	Depth To Water	Total Well Depth	pH				Specific Conductance				Temperature Degrees C				Cl, TDS (1 L Plastic ≤ 6 Deg C)	NO3+N O2 (1 L Plastic H2SO4)
					#1	#2	#3	Time	#1	#2	#3	Time	#1	#2	#3	Time		
<b>Clinton East Wells</b>					#1	#2	#3	Time	#1	#2	#3	Time	#1	#2	#3	Time		
#13 (507)	1811010351	1245	13' <sup>4</sup>	15' 4"	6.2	6.2	6.2	1245	85.7	85.7	85.7	1245	9.2	9.2	9.2	1245	X	X
#14 (508)	1811010352	1225	13' <sup>6</sup>	13' 1"	6.6	6.5	6.5	1225	83.9	83.9	83.9	1225	9.4	9.4	9.4	1225	X	X
#16 (509)	1811010353	1210	14' <sup>0</sup>	14' 0"	6.8	6.8	6.8	1210	130	130	130	1210	9.5	9.5	9.5	1210	X	X
#17 (649)	1811010354	1155	12' <sup>11</sup>	17' 6"	6.3	6.3	6.3	1158	127.8	127.8	127.8	1158	9.3	9.3	9.3	1158	X	X

Relinquished by: Timothy D'Neal  
 Comments:

Time: 1600

Received By Lab: J. A. Drake Carter

Date: 11/19/18

Time: 1600

*JH*

**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 2018 \_\_\_\_\_

East Plant: 60,192 mg, 159 inches, 2038.81 Acres

West Plant: No Spray

Crops Grown: Bermuda Hay

East side Owners: Steve Bone + Will Dawson

West side Owners: Danny Boone + Roy Gray Jennings

IF ALL PAGES ARE NOT RECEIVED PLEASE NOTIFY AT ONCE!