

CWB
Engineers, Inc.

Designing a Better Arkansas

November 2, 2017

Mr. Kyle Barber, Enforcement Analyst
Arkansas Department of Environmental Quality
Office of Water Quality
5301 Northshore Drive
North Little Rock, AR 72118

Re: *Permit Number 5130-W & AR0048836*
Overdue Annual Reports and Permit Reissuance

Dear Mr. Barber,

CWB Engineers, Inc. is submitting these attached annual reports on behalf of the City of Clinton, pursuant to the requirements of the permits listed above. The reports for years 2012 to 2015 are attached in their entirety.

The 2016 report is attached again for reference. In your letter dated October 12, 2017 to Mayor McCormac you indicated that the total application numbers required correction. According to our calculations the numbers in the attached report are correct.

The City of Clinton will be submitting a permit application for the land application of wastewater once all of the required soil testing data is received and compiled into the new permit application. It is expected that the new permit application will be submitted by December 1st, 2017.

If you have any questions, you may contact me at email kbreckenridge@cwbenigneers.com or phone (501) 362-3744.

Sincerely,

C. Kyle Breckenridge, P.E.

CWB Engineers, Inc.

Clinton Water & Sewer East Plant

Annual Report
Permit AR0048836
January 2016 – December 2016



Environmental Services Company, Inc.

Corporate Office

13715 West Markham

Little Rock, Arkansas 72211

501-221-2565 (p)

501-221-1341 (f)

Carlsbad, New Mexico

575-887-1-ESC (372)

Springdale, Arkansas

479-750-1170

www.esclabs.com

Clinton Water and Sewer Department
Clinton, AR
East WWTP - AR0048836
Irrigation Water
Calendar Year 2016

Parameter	Annual Concentration (mg/L)	2016 Application Data				Total Application Since 2003 Pounds/Acre
		Million Gallons/Year	Number of Acres	Gallons per Acre-Year	Pounds per Acre	
Total Kjeldahl Nitrogen	10.2400	40.96	1405.17	29,149.5	2.491	631.83
Ammonia Nitrogen	< 1.9300	40.96	1405.17	29,149.5	0.470	150.76
Nitrate + Nitrite Nitrogen	1.7425	40.96	1405.17	29,149.5	0.424	109.20
BOD-5	20.5000	40.96	1405.17	29,149.5	4.987	1,032.90
Arsenic	< 0.0100	40.96	1405.17	29,149.5	0.002	0.48
Cadmium	< 0.0040	40.96	1405.17	29,149.5	0.001	0.23
Copper	< 0.0058	40.96	1405.17	29,149.5	0.001	0.27
Lead	< 0.0100	40.96	1405.17	29,149.5	0.002	0.59
Mercury	< 0.0010	40.96	1405.17	29,149.5	0.000	0.09
Selenium	< 0.0100	40.96	1405.17	29,149.5	0.002	0.68
Zinc	< 0.0080	40.96	1405.17	29,149.5	0.002	4.37
Conductivity, minimum (mhos/cm)*	90.90					
Conductivity, maximum (mhos/cm)*	232.00					
pH, minimum (SU)*	7.20					
pH, maximum (SU)*	8.70					

*Current year values

Crop Grown: Bermuda Hay

**Clinton Water and Sewer Department
Clinton, AR
East WWTP - AR0048836
Soil
Calendar Year 2016**

Sample ID	Clinton East 40.24 LA PB 3							
Control Number	1606010576							
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			06/29/16	1.41				
Ammonia Nitrogen			06/29/16	<2.6911				
PAN			06/29/16	1.41				
Phosphorous			06/29/16	606.33				
Potassium			06/29/16	490.00				
Arsenic			06/29/16	6.00				
Cadmium			06/29/16	< 2.50				
Copper			06/29/16	8.00				
Lead			06/29/16	14.00				
Magnesium			06/29/16	696.50				
Mercury			06/29/16	< 0.1076				
Nickel			06/29/16	17.50				
Zinc			06/29/16	56.00				
Conductivity (mhos/cm)			06/29/16	212.20				
pH (SU)			06/29/16	6.31				

**Clinton Water and Sewer Department
Clinton, AR
East WWTP - AR0048836
Soil
Calendar Year 2016**

Sample ID	Clinton East 40.24 LA PB 30							
Control Number	1606010577							
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			06/29/16	3.87				
Ammonia Nitrogen			06/29/16	< 2.7174				
PAN			06/29/16	3.87				
Phosphorous			06/29/16	594.89				
Potassium			06/29/16	709.50				
Arsenic			06/29/16	9.00				
Cadmium			06/29/16	< 2.5				
Copper			06/29/16	7.50				
Lead			06/29/16	18.50				
Magnesium			06/29/16	742.00				
Mercury			06/29/16	< 0.1087				
Nickel			06/29/16	20.50				
Zinc			06/29/16	48.00				
Conductivity (mhos/cm)			06/29/16	13.80				
pH (SU)			06/29/16	6.14				

**Clinton Water and Sewer Department
Clinton, AR
East WWTP - AR0048836
Soil
Calendar Year 2016**

Sample ID	Clinton East 55.57 LA PB 10							
Control Number	1606010578							
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			06/29/16	2.99				
Ammonia Nitrogen			06/29/16	< 2.8542				
PAN			06/29/16	2.99				
Phosphorous			06/29/16	336.63				
Potassium			06/29/16	992.00				
Arsenic			06/29/16	5.50				
Cadmium			06/29/16	< 2.50				
Copper			06/29/16	6.50				
Lead			06/29/16	14.00				
Magnesium			06/29/16	570.50				
Mercury			06/29/16	< 0.1142				
Nickel			06/29/16	12.00				
Zinc			06/29/16	47.00				
Conductivity (mhos/cm)			06/29/16	55.00				
pH (SU)			06/29/16	6.50				

Clinton Water and Sewer Department
Clinton, AR
East WWTP - AR0048836
Soil
Calendar Year 2016

Sample ID	Clinton East 55.57 LA PB 3							
Control Number	1606010579							
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			06/29/16	4.96				
Ammonia Nitrogen			06/29/16	< 2.5733				
PAN.			06/29/16	4.96				
Phosphorous			06/29/16	527.69				
Potassium			06/29/16	572.00				
Arsenic			06/29/16	6.00				
Cadmium			06/29/16	< 2.5				
Copper			06/29/16	4.00				
Lead			06/29/16	11.50				
Magnesium			06/29/16	554.00				
Mercury			06/29/16	< 0.1029				
Nickel			06/29/16	13.50				
Zinc			06/29/16	29.50				
Conductivity (mhos/cm)			06/29/16	16.00				
pH (SU)			06/29/16	6.48				

**Clinton Water and Sewer Department
Clinton, AR
East WWTP - AR0048836
Soil
Calendar Year 2016**

Sample ID	Clinton East 55.57 LA PB 30							
Control Number	1606010580							
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			06/29/16	3.90				
Ammonia Nitrogen			06/29/16	< 2.6385				
PAN			06/29/16	3.90				
Phosphorous			06/29/16	511.54				
Potassium			06/29/16	561.00				
Arsenic			06/29/16	6.00				
Cadmium			06/29/16	< 2.5				
Copper			06/29/16	4.50				
Lead			06/29/16	12.50				
Magnesium			06/29/16	593.50				
Mercury			06/29/16	< 0.1055				
Nickel			06/29/16	14.50				
Zinc			06/29/16	32.00				
Conductivity (mhos/cm)			06/29/16	16.90				
pH (SU)			06/29/16	6.59				

**Clinton Water and Sewer Department
Clinton, AR
East WWTP - AR0048836
Soil
Calendar Year 2016**

Sample ID	Clinton East LA Airport 9							
Control Number	1606010581							
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			06/29/16	4.66				
Ammonia Nitrogen			06/29/16	< 2.6804				
PAN			06/29/16	4.66				
Phosphorous			06/29/16	477.01				
Potassium			06/29/16	636.00				
Arsenic			06/29/16	7.50				
Cadmium			06/29/16	< 2.50				
Copper			06/29/16	7.50				
Lead			06/29/16	14.50				
Magnesium			06/29/16	572.00				
Mercury			06/29/16	< 0.1072				
Nickel			06/29/16	17.00				
Zinc			06/29/16	60.50				
Conductivity (mhos/cm)			06/29/16	29.80				
pH (SU)			06/29/16	6.21				

**Clinton Water and Sewer Department
Clinton, AR
East WWTP - AR0048836
Soil
Calendar Year 2016**

Sample ID	Clinton East LA WD 13							
Control Number	1606010582							
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			06/29/16	2.99				
Ammonia Nitrogen			06/29/16	< 2.6827				
PAN			06/29/16	2.99				
Phosphorous			06/29/16	426.27				
Potassium			06/29/16	572.00				
Arsenic			06/29/16	8.50				
Cadmium			06/29/16	< 2.50				
Copper			06/29/16	5.50				
Lead			06/29/16	18.00				
Magnesium			06/29/16	482.00				
Mercury			06/29/16	< 0.1073				
Nickel			06/29/16	13.00				
Zinc			06/29/16	30.00				
Conductivity (mhos/cm)			06/29/16	49.10				
pH (SU)			06/29/16	5.74				

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: 1603010346
 Customer Name : CLINTON, EAST IW
 Customer/Permit No. : 619 / AR0048836 001
 Report Date : 03/30/16

Sample Date : 03/17/16
 Sample Time : 1120
 Sample Type : GRAB WWATER
 Sample From : IRRIGATION WTR EAST

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

<u>Laboratory Analysis</u>							<u>Quality Assurance</u>	
Analysis			Result	Notes	Quantity	Method	Precision	Accuracy
Date	Time	By					Parameter	% RPD
03/18	0600	JAZ	BOD, 5-day	20.00 mg/L		SM 2001 5210 B	0.00	92.0
03/18	1400	REW	Ammonia Nitrogen	0.20 mg/L		SM 1997 4500-NH3 F	10.31	106.0 *
03/29	1030	NTR	Kjeldahl Nitrogen Total	10.08 mg/L		SM 1997 4500-NorgB	0.00	98.0 *
03/17	1124	REW	pH	7.1 S.U.		SM 2000 4500-H+B	0.00	N/A *
03/24	1708	RAH	Copper	0.00900 mg/L		EPA 200.8	4.51	95.6 *
03/24	1708	RAH	Zinc	< 0.0040 mg/L		EPA 200.8	4.00	105.6 *
03/24	1708	RAH	Arsenic	< 0.0100 mg/L		EPA 200.8	0.94	104.9 *
03/24	1708	RAH	Selenium	< 0.0100 mg/L		EPA 200.8	2.55	114.0 *
03/17	1124	REW	Specific Conductance	81.200 U MHOS		SM1997 2510B	0.49	N/A
03/24	1708	RAH	Cadmium	< 0.0040 mg/L		EPA 200.8	4.49	102.7 *
03/24	1418	RAH	Mercury	< 0.0010 mg/L		EPA 245.1	0.35	99.6 *
03/24	1708	RAH	Lead	< 0.01000 mg/L		EPA 200.8	7.36	94.9 *
03/24	0900	RLW	Nitrate + Nitrite	1.36 mg/L		SM2000 4500-NO3 E	1.83	101.0

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

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

Signature _____

Ned T. Ryers
 Environmental Services Co., Inc.

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

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					
Company Name: Clinton, East IW				Permit/Project #: AR0048836				Requested Parameters: NH3-N(15-A), NO3 + NO2(91.) TKN(16-A) Metals (See Comments)					
Address: P.O. Box 277 Clinton, AR 72031				Purchase Order #:									
Telephone: 501-745-4320				Work Order #:									
Contact: Mr. Todd Burgess				Sampler Name(s): <i>Riley Williams</i>									
FAX: 501-745-2164				and Signature(s): <i>[Signature]</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-A)	Metals (See Comments)
Irrigation Water	1603010346	03/17/16	1120	Grab	Wwater	Plastic	1/2 Gal	Cool ≤ 6° C	1	X			
				Grab	Wwater	Plastic	1 Liter	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:					
<i>[Signature]</i> Riley Williams		03/17/16	1554	<i>[Signature]</i>				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:					
				<i>[Signature]</i> Richard Hall		03/17/16	1554	Yes <input 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)		Analyst:		pH:		Time:		Result	Result	Units			
		Time:		Conduct:		Reading:		7.1	7.1	S.U.			
		Units:		Fecal Start:		Units:		81.2	81.6	UMHOS			
										This Document is Page ___ of ___			

[Handwritten initials]

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: 1606010529
Customer Name : CLINTON, EAST IW
Customer/Permit No. : 619 / AR0048836 001
Report Date : 07/15/16

Sample Date : 06/23/16
Sample Time : 1000
Sample Type : GRAB WWATER
Sample From : IRRIGATION WTR EAST

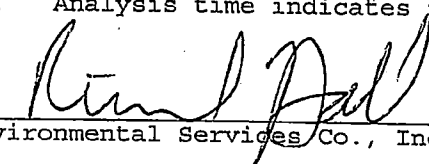
Collected By: JGK
Delivery By : JGK
Work Order :
Purchase Order :

<u>Laboratory Analysis</u>							<u>Quality Assurance</u>	
<u>Analysis</u>			<u>Result</u>	<u>Notes</u>	<u>Quantity</u>	<u>Method</u>	<u>Precision</u>	<u>Accuracy</u>
<u>Date</u>	<u>Time</u>	<u>By</u>	<u>Parameter</u>				<u>% RPD</u>	<u>% Recovery</u>
06/24	0600	JAZ	BOD, 5-day	25.0 mg/L		SM 2001 5210 B	0.00	104.0 *
06/27	1530	CBJ	Ammonia Nitrogen	< 0.01 mg/L		SM 1997 4500-NH3 F	4.66	106.0 *
07/05	1300	CLB	Kjeldahl Nitrogen Total	12.40 mg/L		SM 1997 4500-NorgB	3.02	103.1 *
06/23	1004	JGK	pH	7.0 S.U.		SM 2000 4500-H+B	0.00	N/A *
07/07	1721	RAH	Copper	0.0030 mg/L		EPA 200.8	1.44	106.4 *
07/07	1721	RAH	Zinc	< 0.0040 mg/L		EPA 200.8	3.12	99.5 *
07/07	1721	RAH	Arsenic	< 0.0100 mg/L		EPA 200.8	0.54	99.3 *
07/07	1721	RAH	Selenium	< 0.0100 mg/L		EPA 200.8	1.43	101.8 *
06/23	1004	JGK	Specific Conductance	130.000 U MHOS		EPA 120.1	0.00	N/A
07/07	1721	RAH	Cadmium	< 0.0040 mg/L		EPA 200.8	0.00	101.5 *
07/06	1600	RAH	Mercury	< 0.0010 mg/L		EPA 245.1	1.58	98.1 *
07/07	1721	RAH	Lead	< 0.0100 mg/L		EPA 200.8	3.17	96.0 *
06/30	0900	JAZ	Nitrate + Nitrite	1.30 mg/L		SM 2000 4500-NO3 E	4.88	104.0 *

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

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

Signature _____


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CHAIN OF CUSTODY

Client Information				Project Information						Requested Parameters									
Company Name: 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 #:															
Telephone: 501-745-4320				Sampler Name(s): Jason Kwoenschild															
Contact: Mr. Todd Burgess				and Signature(s):															
FAX: 501-745-2164																			
ESC Client Number: 619																			
Sample Identification		Sample Collection				Sample Containers													
Identification	ESC Control #	Date	Time	Type	Matrix	Type	Volume	Preservative	#										
Irrigation Water	1b06010529	6/23/16	1000	Grab	Wwater	Plastic	1/2 Gal	Cool ≤ 6° C	1	X									
	4	"	"	Grab	Wwater	Plastic	1 Liter	Cool ≤ 6° C, H2SO4 to pH <2	1		X	X							
	2	"	"	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 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:											
Jason Kwoenschild		6/23/16	1600	Paul Cant Paul Cant		6/23/16	1600	Regular <input type="checkbox"/> Special <input type="checkbox"/>											
Comments: Metals: Hg(50.15), Cu(29.HW), Zn(30.HW), As(33.HW), Se(34.HW) Cd(48.HW), Pb(82.HW)		Flow Data		Field Test		Time	Analyst	Result	Result	Units									
				Analyst:		pH:	7.0	7.0	S.U.										
				Time:		Conduct:	130.0	130.0	UMHOS										
				Reading:															
				Units:															
				Fecal Start:															
										This Document is Page ___ of ___									

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

Control Number: 1609010422
 Customer Name : CLINTON, EAST IW
 Customer/Permit No. : 619 / AR0048836 001
 Report Date : 09/30/16

Sample Date : 09/22/16
 Sample Time : 1308
 Sample Type : GRAB WWATER
 Sample From : EAST IRRIGATION WTR

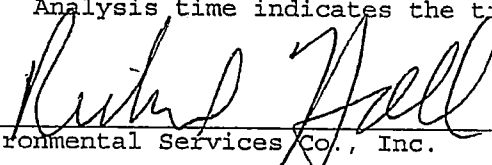
Collected By: PDH
 Delivery By : PDH
 Work Order :
 Purchase Order :

<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>
09/23	0600	CLB	BOD, 5-day	26.0 mg/L		SM 2001 5210 B	0.00	97.0 *
09/27	1030	REW	Ammonia Nitrogen	3.13 mg/L		SM 1997 4500-NH3 F	5.91	97.0 *
09/26	1030	NTR	Kjeldahl Nitrogen Total	10.64 mg/L		SM 1997 4500-NorgB	7.80	100.0 *
09/22	1312	PDH	pH	7.1 S.U.		SM 2000 4500-H+B	0.00	N/A *
09/28	1615	RAH	Copper	0.0080 mg/L		EPA 200.8	1.88	98.5 *
09/28	1615	RAH	Zinc	< 0.0040 mg/L		EPA 200.8	1.12	105.7 *
09/28	1615	RAH	Arsenic	< 0.0100 mg/L		EPA 200.8	0.07	102.4 *
09/28	1615	RAH	Selenium	< 0.0100 mg/L		EPA 200.8	3.33	105.1 *
09/22	1312	PDH	Specific Conductance	172.100 U MHOS		EPA 120.1	0.00	N/A *
09/28	1615	RAH	Cadmium	< 0.0040 mg/L		EPA 200.8	0.83	103.0 *
09/27	1105	AA	Mercury	< 0.0010 mg/L		EPA 245.1	0.94	104.0 *
09/28	1615	RAH	Lead	< 0.0100 mg/L		EPA 200.8	1.85	101.3 *
09/27	1300	DWC	Nitrate + Nitrite	2.90 mg/L		SM 2000 4500-NO3 E	0.47	100.0 *

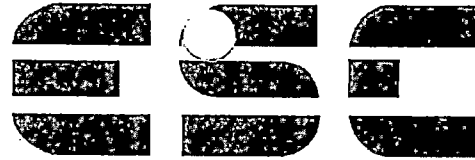
* QA data shown is from a different sample or standard on the same date.

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Signature _____


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 website: www.esclabs.com



Springdale, Arkansas
 479-750-1170

Carlsbad, New Mexico
 575-887-1ESC

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

CHAIN OF CUSTODY

Client Information				Project Information						Requested Parameters							
Company Name: Clinton, East IW				Permit/Project #: AR0048836						Requested Parameters: (Columns for: 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 #:													
Telephone: 501-745-4320				Sampler Name(s): <i>Preston Hurt</i>													
Contact: Mr. Todd Burgess				and Signature(s): <i>PH</i>													
FAX: 501-745-2164																	
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	1609010422	9-22-16	1308	Grab	Wwater	Plastic	1/2 Gal	Cool ≤ 6° C	1	X							
	1	1	1	Grab	Wwater	Plastic	1 Liter	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 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:									
<i>Preston Hurt PH</i>		9-22-16	1540	<i>Paul Cost Paul Cost</i>		9/22/16	1540	Regular <input type="checkbox"/> Special <input type="checkbox"/>									
								Were samples properly preserved:									
								Yes <input type="checkbox"/> No <input type="checkbox"/>									
Comments: Metals: Hg(50.15), Cu(29.HW), Zn(30.HW), As(33.HW), Se(34.HW)				Flow Data		Field Test		Time		Analyst		Result		Result		Units	
Cd(48.HW), Pb(82.HW)				Analyst:		pH:		1312		PDH		7.1				S.U.	
				Time:		Conduct:		1312		PDH		478		172.1		UMHOS	
				Reading:													
				Units:													
						Fecal Start:											

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Control Number: 1610010202
 Customer Name : CLINTON, EAST IW
 Customer/Permit No. : 619 / AR0048836 001
 Report Date : 11/16/16

Sample Date : 10/24/16
 Sample Time : 0925
 Sample Type : GRAB WWATER
 Sample From : IRRIGATION WATER E

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

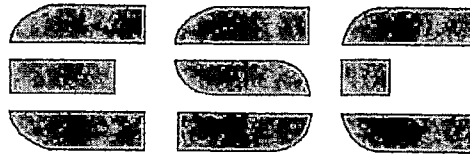
<u>Laboratory Analysis</u>							<u>Quality Assurance</u>	
<u>Analysis</u>			<u>Result</u>	<u>Notes</u>	<u>Quantity</u>	<u>Method</u>	<u>Precision</u>	<u>Accuracy</u>
<u>Date</u>	<u>Time</u>	<u>By</u>					<u>Parameter</u>	<u>% RPD</u>
10/26	0800	DWC	BOD, 5-day	11.0 mg/L		SM 2001 5210 B	13.33	93.0 *
10/25	1430	DWC	Ammonia Nitrogen	4.38 mg/L		SM 1997 4500-NH3 F	2.25	101.5 *
10/26	0630	NTR	Kjeldahl Nitrogen Total	7.84 mg/L		SM 1997 4500-NorgB	0.00	100.0
10/24	0930	JGK	pH	6.7 S.U.		SM 2000 4500-H+B	0.00	N/A
11/10	1544	RAH	Copper	< 0.0030 mg/L		EPA 200.8	1.92	102.3 *
11/10	1544	RAH	Zinc	0.0200 mg/L		EPA 200.8	3.50	103.8 *
11/10	1544	RAH	Arsenic	< 0.0100 mg/L		EPA 200.8	1.03	99.6 *
11/10	1544	RAH	Selenium	< 0.0100 mg/L		EPA 200.8	1.04	102.7 *
10/24	0930	JGK	Specific Conductance	175.200 U MHOS		EPA 120.1	0.00	N/A
11/10	1544	RAH	Cadmium	< 0.0040 mg/L		EPA 200.8	4.68	102.8 *
11/11	1257	AA	Mercury	< 0.0010 mg/L		EPA 245.1	2.84	100.0 *
11/10	1544	RAH	Lead	< 0.0100 mg/L		EPA 200.8	1.47	94.8 *
10/26	0900	NTR	Nitrate + Nitrite	1.41 mg/L		SM 2000 4500-NO3 E	0.31	100.3

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

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Carlsbad, New Mexico
 575-887-1ESC

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

CHAIN OF CUSTODY

Client Information						Project Information						Requested Parameters									
Company Name: 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 Clinton, AR 72031						Purchase Order #:															
Telephone: 501-745-4320						Work Order #:															
Contact: Mr. Todd Burgess						Sampler Name(s): Jason Koenersbach															
FAX: 501-745-2164						and Signature(s): <i>[Signature]</i>															
ESC Client Number: 619																					
Sample Identification			Sample Collection			Sample Containers															
Identification	ESC Control #	Date	Time	Type	Matrix	Type	Volume	Preservative	#												
Irrigation Water	1616010202	10/24/11	0925	Grab	Wwater	Plastic	1/2 Gal	Cool ≤ 6° C	1	X											
	"	"	"	Grab	Wwater	Plastic	1 Liter	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?	Intact?												
Relinquished By: (Signature and Printed Name)		Date	Time	Received for Lab By: (Signature and Printed Name)		Date	Time	Regular	Special												
<i>[Signature]</i> J. Koenersbach		10/24/11	1630	<i>[Signature]</i> Christina Bruen		10/24/11	1630	Were samples properly preserved:													
								Yes	No												
								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)				Analyst:		pH:	0930	JL	6.7	6.7	S.U.										
				Time:		Conduct:	0930	JL	175.2	175.2	U MHOS										
				Reading:																	
				Units:																	
						Fecal Start:															
													This Document is Page __ of __								

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Control Number: 1606010576
 Customer Name : CLINTON, EAST 40.24 LA PB 3
 Customer Number : 3004
 Report Date : 07/21/16

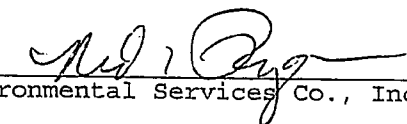
Sample Date : 06/29/16
 Sample Time : 1215
 Sample Type : GRAB SOIL
 Sample From : EAST LA 40.24 PB3

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

<u>Laboratory Analysis</u>							<u>Quality Assurance</u>	
<u>Analysis</u>			<u>Result</u>	<u>Notes</u>	<u>Quantity</u>	<u>Method</u>	<u>Precision</u>	<u>Accuracy</u>
<u>Date</u>	<u>Time</u>	<u>By</u>					<u>Parameter</u>	<u>% RPD</u>
07/05	0930	NTR	Ammonia Nitrogen	< 2.6911 mg/kg		SM 1997 4500-NH3 C	0.84	103.3
07/13	1547	RAH	Mercury	< 0.1076 mg/Kg		SW-846 7474 02/07	0.30	96.7 *
07/01	1230	NTR	Nitrate Nitrogen	1.408 mg/kg		SM 2000 4500-NO3 E	2.98	102.1
07/01	1600	NTR	Phosphorous, Total (as P)	606.3300 mg/kg		EPA 365.3	0.66	99.9
07/07	1721	RAH	Magnesium	696.50 mg/Kg		SW-846 6020A	2.89	94.3 *
07/07	1721	RAH	Potassium	490.00 mg/Kg		SW-846 6020A	4.94	92.8 *
07/01	0900	CLB	pH Soil	6.31 S.U.		SW846 9045C	0.35	0.0 *
07/07	1721	RAH	Nickel	17.50 mg/Kg		SW-846 6020A	0.18	101.7 *
07/07	1721	RAH	Copper	8.00 mg/Kg		SW-846 6020A	1.44	106.4 *
07/07	1721	RAH	Zinc	56.00 mg/Kg		SW-846 6020A	3.12	99.5 *
07/06	0630	NTR	Nitogen, Plant Available	1.41 mg/kg		33 MSA 2nd Ed		
07/07	1721	RAH	Arsenic	6.00 mg/Kg		SW-846 6020A	0.54	99.3 *
07/01	0900	CLB	Specific Conductance	212.2000 UMHOS		EPA (MOD)9050A	0.77	0.0 *
07/07	1721	RAH	Cadmium	< 2.50 mg/Kg		SW-846 6020A	0.00	101.5 *
07/07	1721	RAH	Lead	14.00 mg/Kg		SW-846 6020A	3.17	96.0 *

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Control Number: 1606010577
 Customer Name : CLINTON, EAST 40.24 LA PB 30
 Customer Number : 3003
 Report Date : 07/21/16


Sample Date : 06/29/16
 Sample Time : 1220
 Sample Type : GRAB SOIL
 Sample From : EAST LA 40.24 PB30

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

<u>Laboratory Analysis</u>							<u>Quality Assurance</u>	
<u>Analysis</u>			<u>Result</u>	<u>Notes</u>	<u>Quantity</u>	<u>Method</u>	<u>Precision</u>	<u>Accuracy</u>
<u>Date</u>	<u>Time</u>	<u>By</u>					<u>Parameter</u>	<u>% RPD</u>
07/05	0930	NTR	Ammonia Nitrogen	< 2.7174 mg/kg		SM 1997 4500-NH3 C	0.84	103.3 *
07/13	1547	RAH	Mercury	< 0.1087 mg/Kg		SW-846 7474 02/07	0.30	96.7 *
07/01	1230	NTR	Nitrate Nitrogen	3.867 mg/kg		SM 2000 4500-NO3 E	2.98	102.1 *
07/01	1600	NTR	Phosphorous, Total (as P)	594.8900 mg/kg		EPA 365.3	0.66	99.9 *
07/07	1721	RAH	Magnesium	742.00 mg/Kg		SW-846 6020A	2.89	94.3 *
07/07	1721	RAH	Potassium	709.50 mg/Kg		SW-846 6020A	4.94	92.8 *
07/01	0900	CLB	pH Soil	6.14 S.U.		SW846 9045C	0.35	0.0 *
07/07	1721	RAH	Nickel	20.50 mg/Kg		SW-846 6020A	0.18	101.7 *
07/07	1721	RAH	Copper	7.50 mg/Kg		SW-846 6020A	1.44	106.4 *
07/07	1721	RAH	Zinc	48.00 mg/Kg		SW-846 6020A	3.12	99.5 *
07/06	0630	NTR	Nitrogen, Plant Available	3.87 mg/kg		33 MSA 2nd Ed		
07/07	1721	RAH	Arsenic	9.00 mg/Kg		SW-846 6020A	0.54	99.3 *
07/01	0900	CLB	Specific Conductance	13.8000 UMHOS		EPA (MOD) 9050A	6.13	0.0 *
07/07	1721	RAH	Cadmium	< 2.50 mg/Kg		SW-846 6020A	0.00	101.5 *
07/07	1721	RAH	Lead	18.50 mg/Kg		SW-846 6020A	3.17	96.0 *

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

Control Number: 1606010578
 Customer Name : CLINTON, EAST 55.57 LA PB 10
 Customer/Permit No. : 511 / AR0048836 001
 Report Date : 07/21/16

Sample Date : 06/29/16
 Sample Time : 1232
 Sample Type : GRAB SOIL
 Sample From : EAST LA 55.57 PB10


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

<u>Laboratory Analysis</u>						<u>Quality Assurance</u>			
Date	Time	By	Parameter	Result	Notes	Quantity	Method	Precision % RPD	Accuracy % Recovery
07/05	0930	NTR	Ammonia Nitrogen	< 2.8542 mg/kg			SM 1997 4500-NH3 C	0.84	103.3 *
07/13	1547	RAH	Mercury	< 0.1142 mg/Kg			SW-846 7474 02/07	0.00	96.7 *
07/01	1230	NTR	Nitrate Nitrogen	2.992 mg/kg			SM 2000 4500-NO3 E	2.98	102.1 *
07/01	1600	NTR	Phosphorous, Total (as P)	336.6300 mg/kg			EPA 365.3	0.66	99.9 *
07/07	1721	RAH	Magnesium	570.50 mg/Kg			SW-846 6020A	2.89	94.3 *
07/07	1721	RAH	Potassium	992.00 mg/Kg			SW-846 6020A	4.94	92.8 *
07/01	0900	CLB	pH Soil	6.50 S.U.			SW846 9045C	1.38	0.0 *
07/07	1721	RAH	Nickel	12.00 mg/Kg			SW-846 6020A	0.18	101.7 *
07/07	1721	RAH	Copper	6.50 mg/Kg			SW-846 6020A	1.44	106.4 *
07/07	1721	RAH	Zinc	47.00 mg/Kg			SW-846 6020A	3.12	99.5 *
07/06	0630	NTR	Nitogen, Plant Available	2.99 mg/kg			33 MSA 2nd Ed		
07/07	1721	RAH	Arsenic	5.50 mg/Kg			SW-846 6020A	0.54	99.3 *
07/01	0900	CLB	Specific Conductance	55.0000 UMHOS			EPA (MOD)9050A	1.76	0.0 *
07/07	1721	RAH	Cadmium	< 2.50 mg/Kg			SW-846 6020A	0.00	101.5 *
07/07	1721	RAH	Lead	14.00 mg/Kg			SW-846 6020A	3.17	96.0 *

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Control Number: 1606010579
 Customer Name : CLINTON, EAST 55.57 LA PB 3
 Customer Number : 3002
 Report Date : 07/21/16

Sample Date : 06/29/16
 Sample Time : 1224
 Sample Type : GRAB SOIL
 Sample From : EAST LA 55.57 PB3

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

<u>Laboratory Analysis</u>							<u>Quality Assurance</u>		
<u>Date</u>	<u>Time</u>	<u>By</u>	<u>Parameter</u>	<u>Result</u>	<u>Notes</u>	<u>Quantity</u>	<u>Method</u>	<u>Precision</u>	<u>Accuracy</u>
								<u>% RPD</u>	<u>% Recovery</u>
07/05	0930	NTR	Ammonia Nitrogen	< 2.5733 mg/kg			SM 1997 4500-NH3 C	0.84	103.3 *
07/13	1547	RAH	Mercury	< 0.1029 mg/Kg			SW-846 7474 02/07	0.00	96.7 *
07/01	1230	NTR	Nitrate Nitrogen	4.964 mg/kg			SM 2000 4500-NO3 E	2.98	102.1 *
07/01	1600	NTR	Phosphorous, Total (as P)	527.6900 mg/kg			EPA 365.3	0.66	99.9 *
07/07	1721	RAH	Magnesium	554.00 mg/Kg			SW-846 6020A	2.89	94.3 *
07/07	1721	RAH	Potassium	572.00 mg/Kg			SW-846 6020A	4.94	92.8 *
07/01	0900	CLB	pH Soil	6.48 S.U.			SW846 9045C	0.35	0.0 *
07/07	1721	RAH	Nickel	13.50 mg/Kg			SW-846 6020A	0.18	101.7 *
07/07	1721	RAH	Copper	4.00 mg/Kg			SW-846 6020A	1.44	106.4 *
07/07	1721	RAH	Zinc	29.50 mg/Kg			SW-846 6020A	3.12	99.5 *
07/06	0630	NTR	Nitrogen, Plant Available	4.96 mg/kg			33 MSA 2nd Ed		
07/07	1721	RAH	Arsenic	6.00 mg/Kg			SW-846 6020A	0.54	99.3 *
07/01	0900	CLB	Specific Conductance	16.0000 UMHOS			EPA (MOD) 9050A	6.13	0.0 *
07/07	1721	RAH	Cadmium	< 2.50 mg/Kg			SW-846 6020A	0.00	101.5 *
07/07	1721	RAH	Lead	11.50 mg/Kg			SW-846 6020A	3.17	96.0 *

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Signature *Michael Payne*
 Environmental Services Co., Inc.

Environmental Services Company, Inc.

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Control Number: 1606010580
 Customer Name : CLINTON, EAST 55.57 LA PB 30
 Customer Number : 3001
 Report Date : 07/21/16

Sample Date : 06/29/16
 Sample Time : 1228
 Sample Type : GRAB SOIL
 Sample From : EAST LA 55.57 PB30

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

<u>Laboratory Analysis</u>							<u>Quality Assurance</u>	
<u>Analysis</u>			<u>Result</u>	<u>Notes</u>	<u>Quantity</u>	<u>Method</u>	<u>Precision</u>	<u>Accuracy</u>
<u>Date</u>	<u>Time</u>	<u>By</u>					<u>Parameter</u>	<u>% RPD</u>
07/05	0930	NTR	Ammonia Nitrogen	< 2.6385 mg/kg		SM 1997 4500-NH3 C	0.84	103.3 *
07/13	1547	RAH	Mercury	< 0.1055 mg/Kg		SW-846 7474 02/07	0.00	96.7 *
07/01	1230	NTR	Nitrate Nitrogen	3.901 mg/kg		SM 2000 4500-NO3 E	2.98	102.1 *
07/01	1600	NTR	Phosphorous, Total (as P)	511.5400 mg/kg		EPA 365.3	0.66	99.9 *
07/07	1721	RAH	Magnesium	593.50 mg/Kg		SW-846 6020A	2.89	94.3 *
07/07	1721	RAH	Potassium	561.00 mg/Kg		SW-846 6020A	4.94	92.8 *
07/01	0900	CLB	pH Soil	6.59 S.U.		SW846 9045C	1.38	0.0
07/07	1721	RAH	Nickel	14.50 mg/Kg		SW-846 6020A	0.18	101.7 *
07/07	1721	RAH	Copper	4.50 mg/Kg		SW-846 6020A	1.44	106.4 *
07/07	1721	RAH	Zinc	32.00 mg/Kg		SW-846 6020A	3.12	99.5 *
07/06	0630	NTR	Nitogen, Plant Available	3.90 mg/kg		33 MSA 2nd Ed		
07/07	1721	RAH	Arsenic	6.00 mg/Kg		SW-846 6020A	0.54	99.3 *
07/01	0900	CLB	Specific Conductance	16.9000 UMHOS		EPA (MOD)9050A	1.76	0.0
07/07	1721	RAH	Cadmium	< 2.50 mg/Kg		SW-846 6020A	0.00	101.5 *
07/07	1721	RAH	Lead	12.50 mg/Kg		SW-846 6020A	3.17	96.0 *

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Signature _____

Neil P. Ryan
 Environmental Services Co., Inc.

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: 1606010581
 Customer Name : CLINTON, EAST LA AIRPORT9
 Customer Number : 2959
 Report Date : 07/21/16

Sample Date : 06/29/16
 Sample Time : 1235
 Sample Type : GRAB SOIL
 Sample From : EAST LA AIRPORT9

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

<u>Laboratory Analysis</u>							<u>Quality Assurance</u>	
<u>Analysis</u>			<u>Result</u>	<u>Notes</u>	<u>Quantity</u>	<u>Method</u>	<u>Precision</u>	<u>Accuracy</u>
<u>Date</u>	<u>Time</u>	<u>By</u>					<u>Parameter</u>	<u>% RPD</u>
07/05	0930	NTR	Ammonia Nitrogen	< 2.6804 mg/kg		SM 1997 4500-NH3 C	0.84	103.3 *
07/13	1547	RAH	Mercury	< 0.1072 mg/Kg		SW-846 7474 02/07	0.00	96.7 *
07/01	1230	NTR	Nitrate Nitrogen	4.663 mg/kg		SM 2000 4500-NO3 E	2.98	102.1 *
07/01	1600	NTR	Phosphorous, Total (as P)	477.0100 mg/kg		EPA 365.3	0.66	99.9 *
07/11	1719	RAH	Magnesium	572.00 mg/Kg		SW-846 6020A	4.59	93.3 *
07/11	1719	RAH	Potassium	636.00 mg/Kg		SW-846 6020A	11.10	88.9 *
07/01	0900	CLB	pH Soil	6.21 S.U.		SW846 9045C	0.35	0.0 *
07/11	1719	RAH	Nickel	17.00 mg/Kg		SW-846 6020A	5.41	97.3 *
07/11	1719	RAH	Copper	7.50 mg/Kg		SW-846 6020A	5.25	102.8 *
07/11	1719	RAH	Zinc	60.50 mg/Kg		SW-846 6020A	6.19	101.3 *
07/06	0630	NTR	Nitrogen, Plant Available	4.66 mg/kg		33 MSA 2nd Ed		
07/11	1719	RAH	Arsenic	7.50 mg/Kg		SW-846 6020A	1.30	100.9 *
07/01	0900	CLB	Specific Conductance	29.8000 UMHOS		EPA (MOD)9050A	0.77	0.0 *
07/11	1719	RAH	Cadmium	< 2.50 mg/Kg		SW-846 6020A	9.79	101.6 *
07/11	1719	RAH	Lead	14.50 mg/Kg		SW-846 6020A	8.79	87.6 *

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Control Number: 1606010582
 Customer Name : CLINTON, EAST LA WD13
 Customer Number : 2960
 Report Date : 07/21/16

Sample Date : 06/29/16
 Sample Time : 1240
 Sample Type : GRAB SOIL
 Sample From : EAST LA WD13

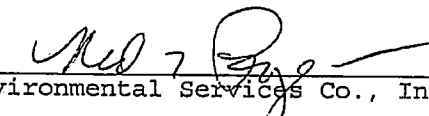
Collected By: JGK
 Delivery By : JGK
 Work Order :
 Purchase Order :

Laboratory Analysis							Quality Assurance	
Analysis			Result	Notes	Quantity	Method	Precision	Accuracy
Date	Time	By					Parameter	% RPD
07/05	0930	NTR	Ammonia Nitrogen	< 2.6827 mg/kg		SM 1997 4500-NH3 C	0.84	103.3 *
07/13	1547	RAH	Mercury	< 0.1073 mg/Kg		SW-846 7474 02/07	0.00	96.7 *
07/01	1230	NTR	Nitrate Nitrogen	2.987 mg/kg		SM 2000 4500-NO3 E	2.98	102.1 *
07/01	1600	NTR	Phosphorous, Total (as P)	426.2700 mg/kg		EPA 365.3	0.66	99.9 *
07/11	1719	RAH	Magnesium	482.00 mg/Kg		SW-846 6020A	4.59	93.3 *
07/11	1719	RAH	Potassium	572.00 mg/Kg		SW-846 6020A	11.10	88.9 *
07/01	0900	CLB	pH Soil	5.74 S.U.		SW846 9045C	0.35	0.0 *
07/11	1719	RAH	Nickel	13.00 mg/Kg		SW-846 6020A	5.41	97.3 *
07/11	1719	RAH	Copper	5.50 mg/Kg		SW-846 6020A	5.25	102.8 *
07/11	1719	RAH	Zinc	30.00 mg/Kg		SW-846 6020A	6.19	101.3 *
07/06	0630	NTR	Nitrogen, Plant Available	2.99 mg/kg		33 MSA 2nd Ed		
07/11	1719	RAH	Arsenic	8.50 mg/Kg		SW-846 6020A	1.30	100.9 *
07/01	0900	CLB	Specific Conductance	49.1000 UMHOS		EPA (MOD)9050A	0.77	0.0 *
07/11	1719	RAH	Cadmium	< 2.50 mg/Kg		SW-846 6020A	9.79	101.6 *
07/11	1719	RAH	Lead	18.00 mg/Kg		SW-846 6020A	8.79	87.6 *

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 website: www.esclabs.com



Springdale, Arkansas
 479-750-1170

Carlsbad, New Mexico
 575-887-1ESC

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

CHAIN OF CUSTODY

Client Information						Project Information					Requested Parameters								
Company Name: 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 Clinton, AR 72031						Purchase Order #:													
Telephone: 501-745-4320						Work Order #:													
Contact: Mr. Isaac Keeling						Sampler Name(s): Jason Knoernschiel													
FAX: 501-745-2164						and Signature(s): <i>J. Keeling</i>													
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)	1606010576	6/29/16	1215	Grab	Soil	Glass	1 Liter	Cool ≤ 6° C	1	X	X	X	X						
East LA 40.24 PB30 (3003)	1606010577	"	1220	Grab	Soil	Glass	.1 Liter	Cool ≤ 6° C	1	X	X	X	X						
East LA 55.57 PB10 (511)	1606010578	"	1232	Grab	Soil	Glass	1 Liter	Cool ≤ 6° C	1	X	X	X	X						
East LA 55.57 PB3 (3002)	1606010579	"	1224	Grab	Soil	Glass	1 Liter	Cool ≤ 6° C	1	X	X	X	X						
East LA 55.57 PB30 (3001)	1606010580	"	1228	Grab	Soil	Glass	1 Liter	Cool ≤ 6° C	1	X	X	X	X						
East LA Airport9 (2959)	1606010581	"	1235	Grab	Soil	Glass	1 Liter	Cool ≤ 6° C	1	X	X	X	X						
East LA WD13 (2960)	1606010582	"	1240	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?	Intact?								
Relinquished By: (Signature and Printed Name)		Date	Time	Received By: (Signature and Printed Name)		Date	Time	Turnaround:		Regular	Special								
Relinquished By: (Signature and Printed Name)		Date	Time	Received for Lab By: (Signature and Printed Name)		Date	Time	Were samples properly preserved:		Yes	No								
Comments: Hg(01.14), Mn(12.HS), K(19.HS), Ni(28.HS), Cu(29.HS), Zn(30.HS) As(33.HS), Cd(48.HS), Pb(82.HS)		Flow Data		Field Test		Time	Analyst	Result	Result	Units									
		Analyst:		Time:		Reading:		Units:		Fecal Start:		This Document is Page ___ of ___							

OK

Environmental Services Company, Inc.

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

Control Number: 1603010360
 Customer Name : CLINTON, EAST GW13
 Customer/Permit No. : 507 / AR0048836 001
 Report Date : 04/01/16

Sample Date : 03/17/16
 Sample Time : 1000
 Sample Type : GRAB WATER
 Sample From : WELL #13


Collected By: REW
 Delivery By : REW
 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>
03/28	1300	DWC	Chloride (as Cl)	50.0 mg/L		SM1997 4500CLC	0.00	100.0 *
03/17	1000	REW	pH	5.7 S.U.		SM 2000 4500-H+B	1.98	N/A *
03/21	1600	JAZ	Solids, Total Dissolved	150.0 mg/L		SM 1997 2540 C	2.49	N/A *
03/17	1000	REW	Specific Conductance	143.200 U MHOS		EPA 120.1	0.75	N/A *
03/24	0900	RLW	Nitrate + Nitrite	2.68 mg/L		SM 2000 4500-NO3 E	0.00	101.0
03/17	1000	REW	Well Depth, Total	15.40 Feet			N/A	N/A
03/17	1000	REW	Depth to Water	9.30 Feet			N/A	N/A

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Northwest Arkansas Branch
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Control Number: 1603010361
 Customer Name : CLINTON, EAST GW14
 Customer/Permit No. : 508 / AR0048836 001
 Report Date : 04/01/16

Sample Date : 03/17/16
 Sample Time : 0948
 Sample Type : GRAB WATER
 Sample From : WELL #14

Collected By: REW
 Delivery By : REW
 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>
03/28	1300	DWC	Chloride (as Cl)	40.0 mg/L		SM1997 4500C1C	0.00	100.0 *
03/17	0948	REW	pH	5.7 S.U.		SM 2000 4500-H+B	1.98	N/A *
03/21	1600	JAZ	Solids, Total Dissolved	88.0 mg/L		SM 1997 2540 C	2.49	N/A *
03/17	0948	REW	Specific Conductance	77.800 U MHOS		EPA 120.1	0.75	N/A *
03/24	0900	RLW	Nitrate + Nitrite	0.34 mg/L		SM 2000 4500-NO3 E	0.00	101.0 *
03/17	0948	REW	Well Depth, Total	13.10 Feet			N/A	N/A
03/17	0948	REW	Depth to Water	9.00 Feet			N/A	N/A

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Signature _____

Red [Signature]
 Environmental Services Co., Inc.

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Control Number: 1603010362
 Customer Name : CLINTON, EAST GW16
 Customer/Permit No. : 509 / AR0048836 001
 Report Date : 04/01/16

Sample Date : 03/17/16
 Sample Time : 0920
 Sample Type : GRAB WATER
 Sample From : FINAL EFFLUENT

Collected By: REW
 Delivery By : REW
 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>
03/28	1300	DWC	Chloride (as Cl)	70.0 mg/L		SM1997 4500ClC	0.00	100.0 *
03/17	0920	REW	pH	5.1 S.U.		SM 2000 4500-H+B	1.98	N/A *
03/21	1600	JAZ	Solids, Total Dissolved	58.0 mg/L		SM 1997 2540 C	9.52	N/A *
03/17	0920	REW	Specific Conductance	42.600 U MHOS		EPA 120.1	0.75	N/A *
03/24	0900	RLW	Nitrate + Nitrite	< 0.05 mg/L		SM 2000 4500-NO3 E	1.06	94.4 *
03/17	0920	REW	Well Depth, Total	14.00 Feet			N/A	N/A
03/17	0920	REW	Depth to Water	10.00 Feet			N/A	N/A

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[Handwritten Signature]
 Environmental Services Co., Inc.

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Control Number: 1603010363
 Customer Name : CLINTON, EAST GW17
 Customer/Permit No. : 649 / AR0048747 001
 Report Date : 04/01/16

Sample Date : 03/17/16
 Sample Time : 0933
 Sample Type : GRAB WATER
 Sample From : WELL #17


Collected By: REW
 Delivery By : REW
 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>
03/28	1300	DWC	Chloride (as Cl)	30.0 mg/L		SM1997 4500ClC	0.00	100.0 *
03/17	0933	REW	pH	4.9 S.U.		SM 2000 4500-H+B	1.98	N/A *
03/21	1600	JAZ	Solids, Total Dissolved	147.0 mg/L		SM 1997 2540 C	2.49	N/A *
03/17	0933	REW	Specific Conductance	52.100 U MHOS		EPA 120.1	0.75	N/A *
03/24	0900	RLW	Nitrate + Nitrite	0.51 mg/L		SM 2000 4500-NO3 E	1.06	94.4 *
03/17	0933	REW	Well Depth, Total	17.60 Feet			N/A	N/A
03/17	0933	REW	Depth to Water	11.30 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): Ricky Williams
 and Signature: *Ricky Williams*

Sample Date: 03/17/16

Sample Identification (Customer #)	Laboratory Control Number	Sample Time:	Depth To Water	Total Well Depth	pH				Specific Conductance				Temperature Degrees C				Cl ⁻ /TDS (LL Plastic ≤ 6 Deg C)	NO3 ⁻ +N O2 (LL Plastic H2SO4)
					#1	#2	#3	Time	#1	#2	#3	Time	#1	#2	#3	Time		
Clinton East Wells					#1	#2	#3	Time	#1	#2	#3	Time	#1	#2	#3	Time		
#13 (507)	1603010360	1000	9'3"	15'4"	5.7	5.6	5.6	1005	143.2	142.3	141.8	1005	13.9	13.9	13.9	1005	X	X
#14 (508)	1603010361	0948	9'	13'1"	5.7	5.5	5.5	0952	77.8	77.5	78.1	0952	13.4	13.3	13.4	0952	X	X
#16 (509)	1603010362	0920	10'	14'0"	5.1	4.9	4.8	0925	42.6	42.9	42.0	0925	14.6	14.4	14.4	0925	X	X
#17 (649)	1603010363	0933	11'3"	17'6"	4.9	4.7	4.7	0937	52.1	51.4	50.9	0937	15.4	15.3	15.3	0937	X	X

Relinquished by: *Ricky Williams* Time: 1554 Received By Lab: *Richard Jall* Date: 3-17-16 Time: 1554
 Comments:
[Handwritten mark]

Environmental Services Company, Inc.

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

Control Number: 1606010436
 Customer Name : CLINTON, EAST GW13
 Customer/Permit No. : 507 / AR0048836 001
 Report Date : 07/01/16

Sample Date : 06/23/16
 Sample Time : 1344
 Sample Type : GRAB WATER
 Sample From : WELL #13

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

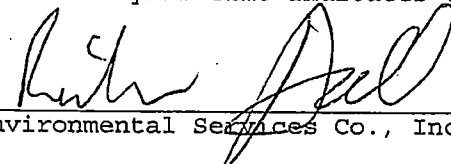
Laboratory Analysis

Analysis							Quality Assurance		
Date	Time	By	Parameter	Result	Notes	Quantity	Method	Precision % RPD	Accuracy % Recovery
06/28	0800	CLB	Chloride (as Cl)	30.0 mg/L			SM1997 4500ClC	0.00	95.0 *
06/23	1344	JGK	pH	5.4 S.U.			SM 2000 4500-H+B	0.00	N/A *
06/27	1200	CBJ	Solids, Total Dissolved	150.0 mg/L			SM 1997 2540 C	0.00	N/A *
06/23	1344	JGK	Specific Conductance	211.000 U MHOS			EPA 120.1	0.00	N/A *
06/30	0900	JAZ	Nitrate + Nitrite	2.10 mg/L			SM 2000 4500-NO3 E	0.56	104.0 *
06/23	1344	JGK	Well Depth, Total	15.40 Feet				N/A	N/A
06/23	1344	JGK	Depth to Water	10.20 Feet				N/A	N/A

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Control Number: 1606010437
 Customer Name : CLINTON, EAST GW14
 Customer/Permit No. : 508 / AR0048836 001
 Report Date : 07/01/16

Sample Date : 06/23/16
 Sample Time : 1400
 Sample Type : GRAB WWATER
 Sample From : WELL #14

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

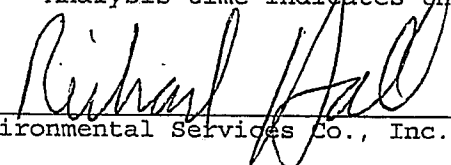
Laboratory Analysis

<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>
06/28	0800	CLB	Chloride (as Cl)	20.0 mg/L			SM1997 4500ClC	0.00	95.0 *
06/23	1400	JGK	pH	5.4 S.U.			SM 2000 4500-H+B	0.00	N/A *
06/27	1200	CBJ	Solids, Total Dissolved	56.0 mg/L			SM 1997 2540 C	0.00	N/A *
06/23	1400	JGK	Specific Conductance	117.200 U MHOS			EPA 120.1	0.00	N/A *
06/30	0900	JAZ	Nitrate + Nitrite	< 0.30 mg/L			SM 2000 4500-NO3 E	0.56	104.0 *
06/23	1400	JGK	Well Depth, Total	13.10 Feet				N/A	N/A
06/23	1400	JGK	Depth to Water	9.50 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: 1606010438
 Customer Name : CLINTON, EAST GW16
 Customer/Permit No. : 509 / AR0048836 001
 Report Date : 07/01/16

Sample Date : 06/23/16
 Sample Time : 1420
 Sample Type : GRAB WWATER
 Sample From : WELL #16

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

<u>Laboratory Analysis</u>							<u>Quality Assurance</u>		
Date	Time	By	Parameter	Result	Notes	Quantity	Method	Precision % RPD	Accuracy % Recovery
06/28	0800	CLB	Chloride (as Cl)	10.0 mg/L			SM1997 4500ClC	0.00	95.0 *
06/23	1420	JGK	pH	4.9 S.U.			SM 2000 4500-H+B	0.00	N/A *
06/27	1200	CBJ	Solids, Total Dissolved	72.0 mg/L			SM 1997 2540 C	0.00	N/A *
06/23	1420	JGK	Specific Conductance	61.700 U MHOS			EPA 120.1	0.00	N/A *
06/30	0900	JAZ	Nitrate + Nitrite	6.21 mg/L			SM 2000 4500-NO3 E	0.56	104.0 *
06/23	1420	JGK	Well Depth, Total	14.00 Feet				N/A	N/A
06/23	1420	JGK	Depth to Water	11.50 Feet				N/A	N/A

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Signature Richard J. Jell
 Environmental Services Co., Inc.

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Northwest Arkansas Branch
 1107 Century Avenue
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Control Number: 1606010439
 Customer Name : CLINTON, EAST GW17
 Customer/Permit No. : 649 / AR0048747 001
 Report Date : 07/01/16

Sample Date : 06/23/16
 Sample Time : 1333
 Sample Type : GRAB WWATER
 Sample From : WELL #17

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

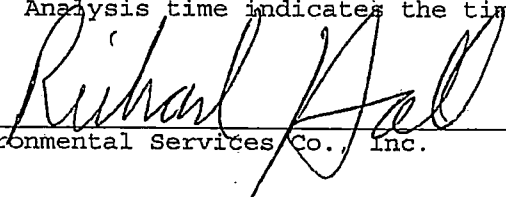
Laboratory Analysis

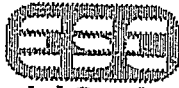
Analysis							Quality Assurance		
Date	Time	By	Parameter	Result	Notes	Quantity	Method	Precision	Accuracy
								% RPD	% Recovery
06/28	0800	CLB	Chloride (as Cl)	10.0 mg/L			SM1997 4500ClC	0.00	95.0 *
06/23	1333	JGK	pH	4.6 S.U.			SM 2000 4500-H+B	0.00	N/A *
06/27	1200	CBJ	Solids, Total Dissolved	112.0 mg/L			SM 1997 2540 C	0.00	N/A *
06/23	1333	JGK	Specific Conductance	69.500 U MHOS			EPA 120.1	0.00	N/A *
06/30	0900	JAZ	Nitrate + Nitrite	6.40 mg/L			SM 2000 4500-NO3 E	0.56	104.0 *
06/23	1333	JGK	Well Depth, Total	17.60 Feet				N/A	N/A
06/23	1333	JGK	Depth to Water	13.00 Feet				N/A	N/A

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 Environmental Services Co., Inc.



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

Sampler Name(s): Jason Kwoerarschid
 and Signature: [Signature]

Sample Date: 6/23/16

Sample Identification (Customer #)	Laboratory Control Number	Sample Time:	Depth To Water	Total Well Depth	pH				Specific Conductance				Temperature Degrees C				Cl, TDS (1 Plastic ≤ 6 Deg C)	NO3-N (1 Plastic H2SO4)
					#1	#2	#3	Time	#1	#2	#3	Time	#1	#2	#3	Time		
Clinton Wells																		
#13 (507)	1606010436	1344	10'2"	15'4"	5.4	5.4			211	211			21.5	21.5			X	X
#14 (508)	1606010437	1400	9'5"	13'1"	5.4	5.4			117.2	117.2			19.9	19.9			X	X
#16 (509)	1606010438	1420	11'5"	14'0"	4.9	4.9			61.7	61.7			21.9	21.9			X	X
#17 (649)	1606010439	1333	13'0"	17'6"	4.6	4.6			69.5	69.5			20.0	20.0			X	X
#1 (497)	1606010440	1041	10'00"	17'0"	5.9	5.9			83.0	83.0			18.4	18.4			X	X
#2 (498)	1606010446	1048	16'3"	19'3"	4.8	4.8			43.5	43.5			19.0	19.0			X	X
#3 (499)	1606010447	1100	6'7"	14'9"	5.4	5.4			234	234			20.6	20.6			X	X
#6 (500)	1606010448	1152	12'5"	17'7"	4.8	4.8			53.7	53.7			18.5	18.5			X	X
#7 (501)	1606010449	1140	10'7"	16'1"	5.6	5.6			129.7	129.7			20.0	20.0			X	X
#8 (502)	1606010450	1115	16'6"	19'5"	4.7	4.7			109.2	109.2			18.1	18.1			X	X
#9 (503)	1606010451	1202	10'2"	16'2"	4.8	4.8			58.9 58.9	58.9 58.9	158.9		18.5	18.5			X	X
#10 (504)	1606010441	1225	14'5"	20'0"	4.8	4.8			87.8 87.8	87.8 87.8	87.8		19.4	19.4			X	X
#11 (505)	1606010442	1231	15'7"	17'8"	5.4	5.4			95.6 95.6	95.6 95.6	95.6		19.9	19.9			X	X
#12 (506)	1606010443	1304	11'0"	16'0"	4.6	4.6			59.4	59.4			19.6	19.6			X	X
#18 (1570)	1606010444	1248	12'2"	18'2"	5.4	5.4			174.3	174.3			19.4	19.4			X	X
#19 (1571)	1606010445	1214	13'1"	18'0"	4.8	4.8			93.7	93.7	93.7		18.5	18.5			X	X

Relinquished by: [Signature] Time: 1600 Received By Lab: [Signature] Date: 6/23/16 Time: 1600

Comments:

[Signature]

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

Control Number: 1609010417
 Customer Name : CLINTON, EAST GW13
 Customer/Permit No. : 507 / AR0048836 001
 Report Date : 10/04/16

Sample Date : 09/22/16
 Sample Time : 1202
 Sample Type : GRAB WATER
 Sample From : EAST WELL #13

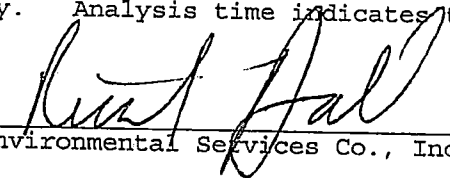
Collected By: PDH
 Delivery By : PDH
 Work Order :
 Purchase Order :

<u>Laboratory Analysis</u>							<u>Quality Assurance</u>		
<u>Date</u>	<u>Time</u>	<u>By</u>	<u>Parameter</u>	<u>Result</u>	<u>Notes</u>	<u>Quantity</u>	<u>Method</u>	<u>Precision</u>	<u>Accuracy</u>
								<u>% RPD</u>	<u>% Recovery</u>
09/30	1330	REW	Chloride (as Cl)	30.0 mg/L			SM1997 4500ClC	0.00	107.0 *
09/22	1202	PDH	pH	6.3 S.U.			SM 2000 4500-H+B	0.00	N/A *
09/26	0930	REW	Solids, Total Dissolved	116.0 mg/L			SM 1997 2540 C	12.50	N/A *
09/22	1202	PDH	Specific Conductance	89.000 U MHOS			EPA 120.1	0.00	N/A *
09/27	1300	DWC	Nitrate + Nitrite	1.38 mg/L			SM 2000 4500-NO3 E	0.47	100.0 *
09/22	1202	PDH	Well Depth, Total	15.40 Feet				N/A	N/A
09/22	1202	PDH	Depth to Water	9.40 Feet				N/A	N/A

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Control Number: 1609010418
 Customer Name : CLINTON, EAST GW14
 Customer/Permit No. : 508 / AR0048836 001
 Report Date : 10/04/16

Sample Date : 09/22/16
 Sample Time : 1223
 Sample Type : GRAB WATER
 Sample From : EAST WELL #14

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

<u>Laboratory Analysis</u>							<u>Quality Assurance</u>		
Date	Time	By	Parameter	Result	Notes	Quantity	Method	Precision % RPD	Accuracy % Recovery
09/30	1330	REW	Chloride (as Cl)	10.0 mg/L			SM1997 4500ClC	0.00	107.0
09/22	1223	PDH	pH	6.5 S.U.			SM 2000 4500-H+B	0.00	N/A *
09/26	0930	REW	Solids, Total Dissolved	92.0 mg/L			SM 1997 2540 C	12.50	N/A *
09/22	1223	PDH	Specific Conductance	71.200 U MHOS			EPA 120.1	0.00	N/A *
09/27	1300	DWC	Nitrate + Nitrite	0.65 mg/L			SM 2000 4500-NO3 E	0.47	100.0 *
09/22	1223	PDH	Well Depth, Total	13.10 Feet				N/A	N/A
09/22	1223	PDH	Depth to Water	10.00 Feet				N/A	N/A

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Signature Richard J. Hall
 Environmental Services Co., Inc.

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Control Number: 1609010419
 Customer Name : CLINTON, EAST GW16
 Customer/Permit No. : 509 / AR0048836 001
 Report Date : 10/04/16

Sample Date : 09/22/16
 Sample Time : 1202
 Sample Type : GRAB WATER
 Sample From : EAST WELL #16

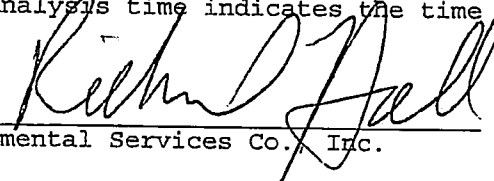
Collected By: PDH
 Delivery By : PDH
 Work Order :
 Purchase Order :

<u>Laboratory Analysis</u>						<u>Quality Assurance</u>			
Analysis						Precision	Accuracy		
<u>Date</u>	<u>Time</u>	<u>By</u>	<u>Parameter</u>	<u>Result</u>	<u>Notes</u>	<u>Quantity</u>	<u>Method</u>		
09/30	1330	REW	Chloride (as Cl)	30.0 mg/L			SM1997 4500ClC	0.00	107.0 *
09/22	1236	PDH	pH	5.8 S.U.			SM 2000 4500-H+B	0.00	N/A *
09/26	0930	REW	Solids, Total Dissolved	60.0 mg/L			SM 1997 2540 C	12.50	N/A
09/22	1236	PDH	Specific Conductance	61.600 U MHOS			EPA 120.1	0.00	N/A *
09/27	1300	DWC	Nitrate + Nitrite	0.56 mg/L			SM 2000 4500-NO3 E	0.47	100.0 *
09/22	1236	PDH	Well Depth, Total	14.00 Feet				N/A	N/A
09/22	1236	PDH	Depth to Water	12.00 Feet				N/A	N/A

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

Control Number: 1609010420
 Customer Name : CLINTON, EAST GW17
 Customer/Permit No. : 649 / AR0048747 001
 Report Date : 10/04/16

Sample Date : 09/22/16
 Sample Time : 1202
 Sample Type : GRAB WATER
 Sample From : EAST WELL #17

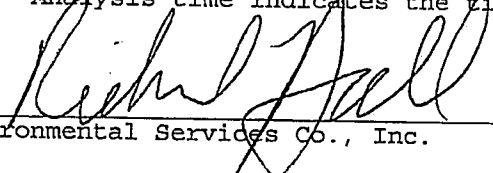
Collected By: PDH
 Delivery By : PDH
 Work Order :
 Purchase Order :

<u>Laboratory Analysis</u>							<u>Quality Assurance</u>			
<u>Analysis</u>	<u>Date</u>	<u>Time</u>	<u>By</u>	<u>Parameter</u>	<u>Result</u>	<u>Notes</u>	<u>Quantity</u>	<u>Method</u>	<u>Precision</u>	<u>Accuracy</u>
									<u>% RPD</u>	<u>% Recovery</u>
Chloride (as Cl)	09/30	1330	REW		20.0 mg/L			SM1997 4500ClC	0.00	107.0 *
pH	09/22	1251	PDH		5.5 S.U.			SM 2000 4500-H+B	0.00	N/A *
Solids, Total Dissolved	09/26	0930	REW		148.0 mg/L			SM 1997 2540 C	12.50	N/A *
Specific Conductance	09/22	1251	PDH		50.700 U MHOS			EPA 120.1	0.00	N/A *
Nitrate + Nitrite	09/27	1300	DWC		7.53 mg/L			SM 2000 4500-NO3 E	0.47	100.0 *
Well Depth, Total	09/22	1251	PDH		17.60 Feet				N/A	N/A
Depth to Water	09/22	1251	PDH		12.50 Feet				N/A	N/A

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

Sampler Name(s): Preston Hurt
 and Signature: [Signature]

Sample Date: 9-22-16

Sample Identification (Customer #)	Laboratory Control Number	Sample Time:	Depth To Water	Total Well Depth	pH				Specific Conductance				Temperature Degrees C				Cl, TDS (LL Plastic ≤ 6 Deg C)	NO3+N O2 (LL Plastic H2SO4)
					#1	#2	#3	Time	#1	#2	#3	Time	#1	#2	#3	Time		
Clinton East Wells					#1	#2	#3	Time	#1	#2	#3	Time	#1	#2	#3	Time		
#13 (507)	9-417	1202	9' 4"	15' 4"	6.3	6.3		1209	89.0	89.1		1209	22.5	22.5		1209	X	X
#14 (508)	418	1225	10'	13' 1"	6.5	6.5	6.5	1225	71.2	71.7	71.9	1225	21.2	21.2	21.2	1225	X	X
#16 (509)	419	1236	12'	14' 0"	5.8	5.8		1241	61.6	61.5		1241	24.1	24.1		1241	X	X
#17 (649)	420	1251	12' 5"	17' 6"	5.5	5.5		1257	50.7	50.8		1257	21.1	20.3		1257	X	X

Relinquished by: P.H. & Preston Hurt Time: 1540 Received By Lab: [Signature] Date: 9/22/16 Time: 1540

Comments:
[Signature]

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Control Number: 1610010206
 Customer Name : CLINTON, EAST GW13
 Customer/Permit No. : 507 / AR0048836 001
 Report Date : 11/01/16

Sample Date : 10/24/16
 Sample Time : 1243
 Sample Type : GRAB WATER
 Sample From : WELL #13

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

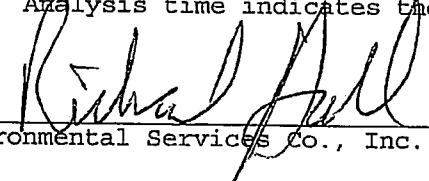
Laboratory Analysis

Analysis							Quality Assurance		
Date	Time	By	Parameter	Result	Notes	Quantity	Method	Precision	Accuracy
								% RPD	% Recovery
10/27	1500	CLB	Chloride (as Cl)	20.0 mg/L			SM1997 4500ClC	0.00	98.0
10/24	1243	JGK	pH	5.9 S.U.			SM 2000 4500-H+B	0.00	N/A *
10/28	1100	TMO	Solids, Total Dissolved	150.0 mg/L			SM 1997 2540 C	2.35	N/A *
10/24	1243	JGK	Specific Conductance	179.100 U MHOS			EPA 120.1	0.00	N/A *
10/26	0900	NTR	Nitrate + Nitrite	1.63 mg/L			SM 2000 4500-NO3 E	1.90	98.5 *
10/24	1243	JGK	Well Depth, Total	15.40 Feet				N/A	N/A
10/24	1243	JGK	Depth to Water	9.00 Feet				N/A	N/A

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Control Number: 1610010207
 Customer Name : CLINTON, EAST GW14
 Customer/Permit No. : 508 / AR0048836 001
 Report Date : 11/01/16

Sample Date : 10/24/16
 Sample Time : 1259
 Sample Type : GRAB WATER
 Sample From : WELL #14

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

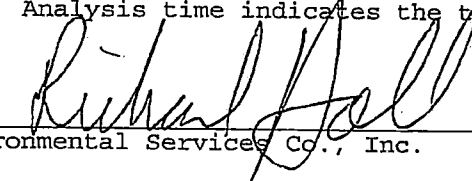
Laboratory Analysis

Analysis						Quality Assurance			
Date	Time	By	Parameter	Result	Notes	Quantity	Method	Precision % RPD	Accuracy % Recovery
10/27	1500	CLB	Chloride (as Cl)	10.0 mg/L			SM1997 4500ClC	0.00	98.0 *
10/24	1259	JGK	pH	6.0 S.U.			SM 2000 4500-H+B	0.00	N/A *
10/28	1100	TMO	Solids, Total Dissolved	118.0 mg/L			SM 1997 2540 C	2.35	N/A *
10/24	1259	JGK	Specific Conductance	131.200 U MHOS			EPA 120.1	0.00	N/A *
10/26	0900	NTR	Nitrate + Nitrite	0.44 mg/L			SM 2000 4500-NO3 E	1.90	98.5
10/24	1259	JGK	Well Depth, Total	13.10 Feet				N/A	N/A
10/24	1259	JGK	Depth to Water	9.50 Feet				N/A	N/A

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

Control Number: 1610010208
 Customer Name : CLINTON, EAST GW16
 Customer/Permit No. : 509 / AR0048836 001
 Report Date : 11/01/16

Sample Date : 10/24/16
 Sample Time : 1307
 Sample Type : GRAB WATER
 Sample From : WELL #16

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

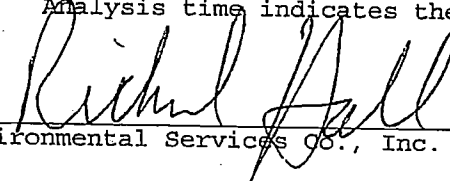
Laboratory Analysis

Analysis						Quality Assurance			
Date	Time	By	Parameter	Result	Notes	Quantity	Method	Precision	Accuracy
								% RPD	% Recovery
10/27	1500	CLB	Chloride (as Cl)	< 0.1 mg/L			SM1997 4500ClC	0.00	98.0 *
10/24	1307	JGK	pH	5.4 S.U.			SM 2000 4500-H+B	0.00	N/A *
10/28	1100	TMO	Solids, Total Dissolved	130.0 mg/L			SM 1997 2540 C	2.35	N/A *
10/24	1307	JGK	Specific Conductance	65.600 U MHOS			EPA 120.1	0.00	N/A *
10/26	0900	NTR	Nitrate + Nitrite	0.39 mg/L			SM 2000 4500-NO3 E	1.90	98.5 *
10/24	1307	JGK	Well Depth, Total	14.00 Feet				N/A	N/A
10/24	1307	JGK	Depth to Water	11.20 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 _____


 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: 1610010209
 Customer Name : CLINTON, EAST GW17
 Customer/Permit No. : 649 / AR0048747 001
 Report Date : 11/01/16

Sample Date : 10/24/16
 Sample Time : 1322
 Sample Type : GRAB WATER
 Sample From : WELL #17

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

Analysis			Laboratory Analysis				Quality Assurance		
Date	Time	By	Parameter	Result	Notes	Quantity	Method	Precision % RPD	Accuracy % Recovery
10/27	1500	CLB	Chloride (as Cl)	< 0.1 mg/L			SM1997 4500ClC	0.00	98.0 *
10/24	1322	JGK	pH	5.1 S.U.			SM 2000 4500-H+B	0.00	N/A *
10/28	1100	TMO	Solids, Total Dissolved	114.0 mg/L			SM 1997 2540 C	2.35	N/A *
10/24	1322	JGK	Specific Conductance	69.100 U. MHOS			EPA 120.1	0.00	N/A *
10/26	0900	NTR	Nitrate + Nitrite	6.82 mg/L			SM 2000 4500-NO3 E	1.90	98.5 *
10/24	1322	JGK	Well Depth, Total	17.60 Feet				N/A	N/A
10/24	1322	JGK	Depth to Water	13.00 Feet				N/A	N/A

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

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Signature _____

Richard Hall
 Environmental Services Co., Inc.



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

Sampler Name(s): Jason Knoernschild
 and Signature: [Signature]

Sample Date: 10/24/16

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 5/6 Deg C)	NO3+N O2 (1 L Plastic H2SO4)
					#1	#2	#3	Time	#1	#2	#3	Time	#1	#2	#3	Time		
Clinton East Wells					#1	#2	#3	Time	#1	#2	#3	Time	#1	#2	#3	Time		
#13 (507)	1610010206	1243	9'00"	15'4"	5.9	5.9	5.9		179.1	179.1			21.0	21.0			X	X
#14 (508)	1610010207	1259	9'5"	13'1"	6.0	6.0	6.0		13.2	13.2			20.5	20.5			X	X
#16 (509)	1610010208	1307	11'2"	14'0"	5.4	5.4	5.4		65.6	65.6			20.5	22.5			X	X
#17 (649)	1610010209	1322	13'0"	17'6"	5.1	5.1	5.1		69.1	69.1			21.7	21.7			X	X

Relinquished by: [Signature] Time: 1630 Received By Lab: [Signature] Date: 10/24/16 Time: 1630

Comments: [Signature]

From: [CLINTON WATER DEPT.](#)
To: [Water Permit Application](#)
Subject: Fwd: Clinton East Annual Report
Date: Friday, April 21, 2017 8:22:26 AM
Attachments: [image002.png](#)
[Clinton East Annual Report 2016.pdf](#)

----- Forwarded message -----

From: **Ashley Greene** <ashleyg@esclabs.com>
Date: Thu, Apr 20, 2017 at 4:19 PM
Subject: Clinton East Annual Report
To: "clintonwater2@gmail.com" <clintonwater2@gmail.com>
Cc: Taylor Lain <taylorl@esclabs.com>

Thank you for allowing us to provide you with quality environmental services.
Attached is your 2016 Annual Report for Land Application.

Please forward to water.permit.application@adeq.state.ar.us by May 1, 2017.

Please make sure to keep copy for yourself and forward a copy to each land owner.
If you need to you can also print a paper copy from the attached. If you have any
questions, do not hesitate to contact us at the office [501-221-2565](tel:501-221-2565). We appreciate
your continued business and support over the last 47 years.

ESC



Ashley Greene

Environmental Services Company, Inc.

13715 West Markham

Little Rock, AR 72211

[501-221-2565](tel:501-221-2565) x 116

1-888-ESC-First

ashleyg@esclabs.com

www.esclabs.com

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--

Donna George

Clinton Water & Sewer Dept.

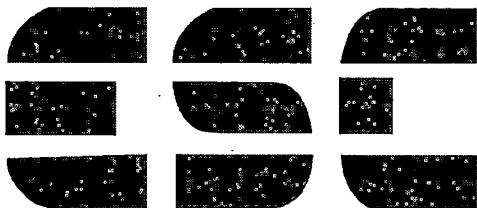
P.O. Box 277

Clinton, AR 72031

501-745-4320

Clinton Water & Sewer East Plant

Annual Report
Permit AR0048836
January 2015 – December 2015



Environmental Services Company, Inc.

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501-221-1341 (f)

Carlsbad, New Mexico

575-887-1-ESC (372)

Springdale, Arkansas

479-750-1170

www.esclabs.com

Clinton Water and Sewer Department
Clinton, AR
East WWTP - AR0048836
Irrigation Water
Calendar Year 2015

Parameter	Annual Concentration (mg/L)	2015 Application Data				Total Application Since 2003 Pounds/Acre
		Million Gallons/Year	Number of Acres	Gallons per Acre-Year	Pounds per Acre	
Total Kjeldahl Nitrogen	19.8100	103.484	3464.92	29,866.2	4.938	629.33
Ammonia Nitrogen	< 7.3650	103.484	3464.92	29,866.2	1.836	150.29
Nitrate + Nitrite Nitrogen	2.6900	103.484	3464.92	29,866.2	0.670	108.78
BOD-5	31.5000	103.484	3464.92	29,866.2	7.851	1,027.91
Arsenic	< 0.0100	103.484	3464.92	29,866.2	0.002	0.48
Cadmium	< 0.0040	103.484	3464.92	29,866.2	0.001	0.23
Copper	0.0064	103.484	3464.92	29,866.2	0.002	0.27
Lead	< 0.0100	103.484	3464.92	29,866.2	0.002	0.59
Mercury	< 0.0010	103.484	3464.92	29,866.2	0.000	0.09
Selenium	< 0.0100	103.484	3464.92	29,866.2	0.002	0.68
Zinc	< 0.0118	103.484	3464.92	29,866.2	0.003	4.37
Conductivity, minimum (mhos/cm)*	90.90					
Conductivity, maximum (mhos/cm)*	232.00					
pH, minimum (SU)*	7.20					
pH, maximum (SU)*	8.70					

*Current year values

Crop Grown: Bermuda Hay

Clinton Water and Sewer Department
Clinton, AR
East WWTP - AR0048836
Soil
Calendar Year 2015

Sample ID	Clinton East 40.24 LA PB 3							
Control Number	1502010121							
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	02/05/15	1.940						
Ammonia Nitrogen	02/05/15	<3.3600						
PAN	02/05/15	1.94						
Phosphorous	02/05/15	404.1230						
Potassium	02/05/15	660.00						
Arsenic	02/05/15	8.00						
Cadmium	02/05/15	4.00						
Copper	02/05/15	10.50						
Lead	02/05/15	10.50						
Magnesium	02/05/15	527.00						
Mercury	02/05/15	<0.1197						
Nickel	02/05/15	14.50						
Zinc	02/05/15	56.00						
Conductivity (mhos/cm)	02/05/15	156.600						
pH (SU)	02/05/15	6.49						

Clinton Water and Sewer Department
Clinton, AR
East WWTP - AR0048836
Soil
Calendar Year 2015

Sample ID	Clinton East 40.24 LA PB 30							
Control Number	1502010122							
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	02/05/15	4.600						
Ammonia Nitrogen	02/05/15	<3.2900						
PAN	02/05/15	4.60						
Phosphorous	02/05/15	600.0663						
Potassium	02/05/15	383.50						
Arsenic	02/05/15	6.00						
Cadmium	02/05/15	4.00						
Copper	02/05/15	6.00						
Lead	02/05/15	6.00						
Magnesium	02/05/15	300.50						
Mercury	02/05/15	<0.1245						
Nickel	02/05/15	10.00						
Zinc	02/05/15	32.00						
Conductivity (mhos/cm)	02/05/15	42.200						
pH (SU)	02/05/15	6.23						

Clinton Water and Sewer Department
Clinton, AR
East WWTP - AR0048836
Soil
Calendar Year 2015

Sample ID	Clinton East 55.57 LA PB 10								
Control Number	1502010123, 1502010124, 1502010125 (Respectively below)								
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
Nitrate Nitrogen	02/05/15	3.400	3.440	3.340					
Ammonia Nitrogen	02/05/15	<3.4600	<3.5500	<3.6900					
PAN	02/05/15	3.40	3.44	3.34					
Phosphorous	02/05/15	411.2220	439.5890	461.2100					
Potassium	02/05/15	472.00	365.00	779.00					
Arsenic	02/05/15	7.50	5.50	8.50					
Cadmium	02/05/15	4.00	4.00	4.00					
Copper	02/05/15	6.50	6.00	8.00					
Lead	02/05/15	9.50	7.50	9.50					
Magnesium	02/05/15	509.50	325.00	612.00					
Mercury	02/05/15	<0.1221	<0.1224	<0.1228					
Nickel	02/05/15	13.50	11.00	14.00					
Zinc	02/05/15	39.00	37.50	53.50					
Conductivity (mhos/cm)	02/05/15	40.800	40.600	40.100					
pH (SU)	02/05/15	5.96	6.11	6.19					

Clinton Water and Sewer Department
Clinton, AR
East WWTP - AR0048836
Soil
Calendar Year 2015

Sample ID	Clinton East 55.57 LA PB 3							
Control Number	1502010126							
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	02/05/16	5.540						
Ammonia Nitrogen	02/05/16	<3.1100						
PAN	02/05/16	5.54						
Phosphorous	02/05/16	477.2500						
Potassium	02/05/16	658.50						
Arsenic	02/05/16	6.50						
Cadmium	02/05/16	4.00						
Copper	02/05/16	7.00						
Lead	02/05/16	10.50						
Magnesium	02/05/16	511.50						
Mercury	02/05/16	<0.1169						
Nickel	02/05/16	13.00						
Zinc	02/05/16	67.00						
Conductivity (mhos/cm)	02/05/16	38.700						
pH (SU)	02/05/16	6.13						

Clinton Water and Sewer Department
Clinton, AR
East WWTP - AR0048836
Soil
Calendar Year 2015

Sample ID	Clinton East 55.57 LA PB 30							
Control Number	1502010127							
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	02/05/15	3.490						
Ammonia Nitrogen	02/05/15	3.2700						
PAN	02/05/15	3.49						
Phosphorous	02/05/15	403.5890						
Potassium	02/05/15	587.00						
Arsenic	02/05/15	7.00						
Cadmium	02/05/15	4.00						
Copper	02/05/15	7.00						
Lead	02/05/15	8.00						
Magnesium	02/05/15	529.00						
Mercury	02/05/15	<0.1775						
Nickel	02/05/15	14.50						
Zinc	02/05/15	23.35						
Conductivity (mhos/cm)	02/05/15	36.600						
pH (SU)	02/05/15	6.57						

Clinton Water and Sewer Department
Clinton, AR
East WWTP - AR0048836
Soil
Calendar Year 2015

Sample ID	Clinton East LA Airport 9							
Control Number	1502010128							
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	02/05/15	3.3530						
Ammonia Nitrogen	02/05/15	<3.3300						
PAN	02/05/15	3.53						
Phosphorous	02/05/15	544.1240						
Potassium	02/05/15	234.00						
Arsenic	02/05/15	5.50						
Cadmium	02/05/15	4.00						
Copper	02/05/15	4.50						
Lead	02/05/15	7.50						
Magnesium	02/05/15	211.50						
Mercury	02/05/15	<0.1185						
Nickel	02/05/15	9.00						
Zinc	02/05/15	23.50						
Conductivity (mhos/cm)	02/05/15	32.100						
pH (SU)	02/05/15	5.43						

Clinton Water and Sewer Department
Clinton, AR
East WWTP - AR0048836
Soil
Calendar Year 2015

Sample ID	Clinton East LA WD 13							
Control Number	1502010129							
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	02/05/15	4.550						
Ammonia Nitrogen	02/05/15	<3.3800						
PAN	02/05/15	4.55						
Phosphorous	02/05/15	533.20						
Potassium	02/05/15	363.50						
Arsenic	02/05/15	7.00						
Cadmium	02/05/15	4.00						
Copper	02/05/15	6.00						
Lead	02/05/15	10.00						
Magnesium	02/05/15	322.00						
Mercury	02/05/15	<0.1186						
Nickel	02/05/15	11.50						
Zinc	02/05/15	34.50						
Conductivity (mhos/cm)	02/05/15	43.90						
pH (SU)	02/05/15	5.50						

Environmental Services Company, Inc.

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 Tel. (501)221-2565 Fax (501)221-1341

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

Control Number: 1503010363
 Customer Name : CLINTON, EAST IW
 Customer/Permit No. : 619 / AR0048836 001
 Report Date : 04/02/15

Sample Date : 03/23/15
 Sample Time : 1330
 Sample Type : GRAB WWATER
 Sample From : IRRIGATION WATER

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
03/23	1700	NTR	BOD, 5-day	43.0 mg/L			SM 2001 5210 B	13.33	101.0 *
04/01	1430	NTR	Ammonia Nitrogen	17.45 mg/L			SM 1997 4500-NH3 F	0.00	99.1 *
03/24	0930	NTR	Kjeldahl Nitrogen Total	21.84 mg/L			SM 1997 4500-NorgB	0.51	100.8
03/23	1334	TMO	pH	8.7 S.U.			SM 2000 4500-H+B	0.00	N/A *
03/26	1734	RAH	Copper	0.0060 mg/L			EPA 200.8	2.68	103.8 *
03/26	1734	RAH	Zinc	< 0.0040 mg/L			EPA 200.8	4.68	107.9 *
03/26	1734	RAH	Arsenic	< 0.0100 mg/L			EPA 200.8	2.33	110.1 *
03/26	1734	RAH	Selenium	< 0.0100 mg/L			EPA 200.8	0.42	111.4 *
03/23	1334	TMO	Specific Conductance	90.900 U MHOS			EPA 120.1	0.00	N/A *
03/26	1734	RAH	Cadmium	< 0.0040 mg/L			EPA 200.8	1.83	105.5 *
03/31	1442	RAH	Mercury	< 0.0010 mg/L			EPA 245.1	4.74	101.3 *
03/26	1734	RAH	Lead	< 0.0100 mg/L			EPA 200.8	3.23	99.7 *
03/27	1000	NTR	Nitrate + Nitrite	2.51 mg/L			SM 2000 4500-NO3 E	0.51	98.2 *

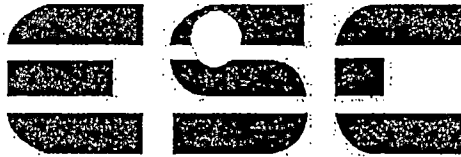
* QA data shown is from a different sample or standard on the same date.

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Signature _____


 Environmental Services Co., Inc.

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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					
Company Name:		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 #:									
Telephone:		501-745-4320		Sampler Name(s):		Timothy O'Neal							
Contact:		Mr. Isaac Keeling		and Signature(s):		Timothy O'Neal							
FAX:		501-745-2164		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	1503010363	3-23-15	1330	Grab	Wwater	Plastic	1/2 Gal	Cool ≤ 6° C	1	X			
				Grab	Wwater	Plastic	1 Liter	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	Regular	<input checked="" type="checkbox"/>	Special	<input type="checkbox"/>	Were samples properly preserved:	
Timothy O'Neal Timothy O'Neal		3-23-15	1030	Richard Hall Richard Hall		3-23-15	1030	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:	pH:	1334	TMO	Result	8.7	Result	8.7	S.U.	
Cd(48.HW), Pb(82.HW)				Time:	Conduct:	1331	TMO	Result	40.9	Result	40.9	UMHOS	
				Reading:									
				Units:									
				Fecal Start:								This Document is Page 1 of 1	

grows

Environmental Services Company, Inc.

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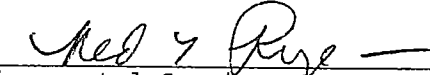
Control Number: 1506010507	Sample Date : 06/25/15	Collected By: TMO
Customer Name : CLINTON, EAST IW	Sample Time : 1230	Delivery By : TMO
Customer/Permit No. : 619 / AR0048836 001	Sample Type : GRAB WWATER	Work Order :
Report Date : 07/08/15	Sample From : IRRIGATION WATER E	Purchase Order :

Laboratory Analysis

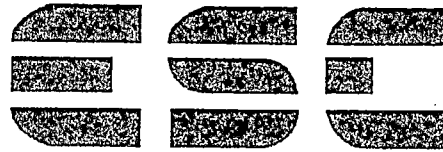
Analysis						Quality Assurance			
<u>Date</u>	<u>Time</u>	<u>By</u>	<u>Parameter</u>	<u>Result</u>	<u>Notes</u>	<u>Quantity</u>	<u>Method</u>	<u>Precision</u>	<u>Accuracy</u>
								<u>% RPD</u>	<u>% Recovery</u>
06/26	0600	CLB	BOD, 5-day	43.0 mg/L			SM 2001 5210 B	10.53	86.0 *
07/02	1500	TCF	Ammonia Nitrogen	6.77 mg/L			SM 1997 4500-NH3 F	5.82	97.0 *
07/07	0630	NTR	Kjeldahl Nitrogen Total	19.60 mg/L			SM 1997 4500-NorgB	1.98	95.2 *
06/25	1233	TMO	pH	7.2 S.U.			SM 2000 4500-H+B	0.00	N/A *
06/30	1613	NTR	Copper	0.0040 mg/L			EPA 200.8	0.38	102.7 *
06/30	1613	NTR	Zinc	0.0300 mg/L			EPA 200.8	0.56	102.2 *
06/30	1613	NTR	Arsenic	< 0.0100 mg/L			EPA 200.8	0.93	106.2 *
06/30	1613	NTR	Selenium	< 0.0100 mg/L			EPA 200.8	1.31	108.5 *
06/25	1233	TMO	Specific Conductance	188.500 U MHOS			EPA 120.1	0.00	N/A *
06/30	1613	NTR	Cadmium	0.0040 mg/L			EPA 200.8	1.54	102.1 *
06/30	1620	RAH	Mercury	< 0.0010 mg/L			EPA 245.1	2.21	104.9 *
06/30	1613	NTR	Lead	< 0.0100 mg/L			EPA 200.8	3.09	98.4 *
06/30	1730	NTR	Nitrate + Nitrite	3.69 mg/L			SM 2000 4500-NO3 E	1.08	92.5 *

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

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Signature 
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Carlsbad, New Mexico
 575-887-1ESC

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

CHAIN OF CUSTODY

Client Information				Project Information							Requested Parameters							
Company Name: Clinton, East IW				Permit/Project #: AR0048836							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 #:														
Telephone: 501-745-4320				Sampler Name(s): <i>Timothy O'Neal</i>														
Contact: Mr. Isaac Keeling				and Signature(s): <i>Timothy O'Neal</i>														
FAX: 501-745-2164				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	1506010507	6-25-15	1230	Grab	Wwater	Plastic	1/2 Gal	Cool ≤ 6° C	1	X								
				Grab	Wwater	Plastic	1 Liter	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	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:									
Relinquished By: (Signature and Printed Name)		Date	Time	Received for Lab By: (Signature and Printed Name)			Date	Time	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)		Cd(48.HW), Pb(82.HW)		Analyst:	pH:	1233	Time:	1233	Analyst:	7.2	Result:	7.2	Units:	S.U.		
						Reading:	Conduct:	1233	Time:	1233	Analyst:	189.5	Result:	189.5	Units:	UMHOS		
						Units:												
							Fecal Start:											
This Document is Page ___ of ___																		

Handwritten initials

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Northwest Arkansas Branch
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 Tel. (479)750-1170 Fax (479)750-1172

Control Number: 1507010252
 Customer Name : CLINTON, EAST IW
 Customer/Permit No. : 619 / AR0048836 001
 Report Date : 07/29/15

Sample Date : 07/22/15
 Sample Time : 1225
 Sample Type : GRAB WWATER
 Sample From : IRRIGATION WATER

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

Laboratory Analysis

Analysis						Quality Assurance			
Date	Time	By	Parameter	Result	Notes	Quantity	Method	Precision % RPD	Accuracy % Recovery
07/24	0800	CLB	BOD, 5-day	21.0 mg/L			SM 2001 5210 B	4.65	88.0
07/23	1219	RAH	Ammonia Nitrogen	< 0.10 mg/L			SM 1997 4500-NH3 F	0.63	101.0 *
07/28	0815	NTR	Kjeldahl Nitrogen Total	15.68 mg/L			SM 1997 4500-NorgB	0.00	95.2
07/22	1226	MCH	pH	7.5 S.U.			SM 2000 4500-H+B	0.00	N/A
07/23	1605	NTR	Copper	0.0095 mg/L			EPA 200.8	0.87	97.9 *
07/23	1605	NTR	Zinc	0.0083 mg/L			EPA 200.8	1.64	107.7 *
07/23	1605	NTR	Arsenic	< 0.0100 mg/L			EPA 200.8	1.06	105.2 *
07/23	1605	NTR	Selenium	< 0.0100 mg/L			EPA 200.8	1.65	108.6 *
07/22	1226	MCH	Specific Conductance	110.100 U MHOS			EPA 120.1	0.00	N/A
07/23	1605	NTR	Cadmium	< 0.0040 mg/L			EPA 200.8	0.69	102.4 *
07/24	1449	RAH	Mercury	< 0.0010 mg/L			EPA 245.1	1.83	96.9 *
07/23	1605	NTR	Lead	< 0.0100 mg/L			EPA 200.8	3.25	100.8 *
07/25	1000	NTR	Nitrate + Nitrite	2.92 mg/L			SM 2000 4500-NO3 E	1.16	95.1 *

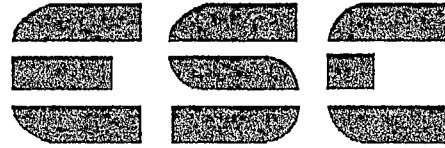
* QA data shown is from a different sample or standard on the same date.

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Signature _____

Red 7 Ryce
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Carlsbad, New Mexico
 575-887-1ESC

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

CHAIN OF CUSTODY

Client Information				Project Information				Requested Parameters						
Company Name:		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 #:										
Telephone:		501-745-4320		Sampler Name(s):		METHANE								
Contact:		Mr. Isaac Keeling		and Signature(s):		Miche Henke								
FAX:		501-745-2164												
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	1507610252	7-22-15	1225	Grab	Wwater	Plastic	1/2 Gal	Cool ≤ 6° C	1	X				
	1	1	1	Grab	Wwater	Plastic	1 Liter	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 By: (Signature and Printed Name)		Date	Time	Turnaround:		Regular <input checked="" type="checkbox"/>		Special <input type="checkbox"/>		
Relinquished By: (Signature and Printed Name)		Date	Time	Received for Lab By: (Signature and Printed Name)		Date	Time	Were samples properly preserved:		Yes <input checked="" type="checkbox"/>		No <input type="checkbox"/>		
Comments: Metals: Hg(50.15), Cu(29.HW), Zn(30.HW), As(33.HW), Se(34.HW)		Flow Data		Field Test		Time	Analyst	Result	Result	Units				
Cd(48.HW), Pb(82.HW)				Analyst:		pH:	1226	met	7.5	7.5	S.U.			
				Time:		Conduct:	1226	met	110.1	116.1	UMHOS			
				Reading:										
				Units:										
						Fecal Start:				This Document is Page 1 of 1				

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Environmental Services Company, Inc.

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Northwest Arkansas Branch
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Control Number: 1510010332
 Customer Name : CLINTON, EAST IW
 Customer/Permit No. : 619 / AR0048836 001
 Report Date : 10/30/15

Sample Date : 10/22/15
 Sample Time : 1228
 Sample Type : GRAB WASTEWATER
 Sample From : IRRIGATION WATER


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

Laboratory Analysis

Analysis							Quality Assurance		
Date	Time	By	Parameter	Result	Notes	Quantity	Method	Precision % RPD	Accuracy % Recovery
10/23	0600	NTR	BOD, 5-day	19.0 mg/L			SM 2001 5210 B	0.00	95.0
10/27	1700	NTR	Ammonia Nitrogen	5.14 mg/L			SM 1997 4500-NH3 F	0.59	99.7 *
10/27	1155	NTR	Kjeldahl Nitrogen Total	22.12 mg/L			SM 1997 4500-NorgB	1.68	95.2
10/22	0858	MCH	pH	7.5 S.U.			SM 2000 4500-H+B	0.00	N/A
10/26	1635	RAH	Copper	0.0060 mg/L			EPA 200.8	0.26	93.6 *
10/26	1635	RAH	Zinc	0.0050 mg/L			EPA 200.8	5.03	99.0 *
10/26	1635	RAH	Arsenic	< 0.0100 mg/L			EPA 200.8	3.66	111.0 *
10/26	1635	RAH	Selenium	< 0.0100 mg/L			EPA 200.8	2.45	114.4 *
10/22	1230	MCH	Specific Conductance	232.000 U MHOS			EPA 120.1	0.00	N/A
10/26	1635	RAH	Cadmium	< 0.0040 mg/L			EPA 200.8	0.82	96.9 *
10/29	1545	RAH	Mercury	< 0.0010 mg/L			EPA 245.1	6.42	97.0 *
10/26	1635	RAH	Lead	< 0.0100 mg/L			EPA 200.8	1.47	100.4 *
10/24	1050	NTR	Nitrate + Nitrite	1.64 mg/L			SM 2000 4500-NO3 E	1.26	94.6 *

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CHAIN OF CUSTODY

Client Information				Project Information							Requested Parameters						
Company Name: Clinton, East IW				Permit/Project #: AR0048836							Requested Parameters: 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 #:													
Telephone: 501-745-4320				Sampler Name(s): <i>metallizable</i>													
Contact: Mr. Isaac Keeling				and Signature(s): <i>metallizable</i>													
FAX: 501-745-2164				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	<i>151000 337</i>	<i>10-22-15</i>	<i>1228</i>	Grab	Wwater	Plastic	1/2 Gal	Cool ≤ 6° C	1	X							
	<i>/</i>	<i>/</i>	<i>/</i>	Grab	Wwater	Plastic	1 Liter	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 By: (Signature and Printed Name)		Date	Time	Turnaround:	Regular	<input checked="" type="checkbox"/>	Special	<input type="checkbox"/>					
Relinquished By: (Signature and Printed Name)		Date	Time	Received for Lab By: (Signature and Printed Name)		Date	Time	Were samples properly preserved:		Yes	<input checked="" type="checkbox"/>	No	<input type="checkbox"/>				
Comments: Metals: Hg(50.15), Cu(29.HW), Zn(30.HW), As(33.HW), Se(34.HW)				Flow Data		Field Test		Time	Analyst	Result	Result	Units					
Cd(48.HW), Pb(82.HW)				Analyst:		pH:		<i>1230</i>	<i>mch</i>	<i>7.5</i>	<i>7.5</i>	S.U.					
				Time:		Conduct:		<i>1230</i>	<i>UACB</i>	<i>232.0</i>	<i>232.0</i>	U MHOS					
				Reading:		Units:											
				Units:		Fecal Start:											

JK

Environmental Services Company, Inc.

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 1107 Century Avenue
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Control Number: 1502010121
 Customer Name : CLINTON, EAST 40.24 LA PB 3
 Customer Number : 3004
 Report Date : 03/05/15

Sample Date : 02/05/15
 Sample Time : 1311
 Sample Type : GRAB SOIL
 Sample From : EAST LA 40.24 PB3

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
02/11	0930	NTR	Ammonia Nitrogen	< 3.3600 mg/kg			SM 1997 4500-NH3 C	1.09	91.9
03/02	1451	RAH	Mercury	< 0.1197 mg/Kg			SW-846 7471	4.81	94.7 *
02/11	1130	NTR	Nitrate Nitrogen	1.940 mg/kg			SM 2000 4500-NO3 E	1.07	93.5
02/12	0850	NTR	Phosphorous, Total (as P)	404.1230 mg/kg			EPA 365.3	1.06	97.2
02/18	1548	RAH	Magnesium	527.00 mg/Kg			SW-846 6020A	0.30	84.4 *
02/18	1548	RAH	Potassium	660.00 mg/Kg			SW-846 6020A	3.87	80.7 *
02/06	0630	NTR	pH Soil	6.49 S.U.			SW846 9045C	0.46	N/A
02/18	1548	RAH	Nickel	14.50 mg/Kg			SW-846 6020A	0.00	91.8 *
02/18	1548	RAH	Copper	10.50 mg/Kg			SW-846 6020A	0.65	93.7 *
02/18	1548	RAH	Zinc	56.00 mg/Kg			SW-846 6020A	9.31	93.9
02/11	1600	NTR	Nitrogen, Plant Available	1.94 mg/kg		15.52 #/day	33 MSA 2nd Ed	1.06	96.1
02/18	1548	RAH	Arsenic	8.00 mg/Kg			SW-846 6020A	0.92	87.2 *
02/06	0630	NTR	Specific Conductance	156.6000 UMHOS		1252.80 UMHOS	EPA (MOD)9050A	0.32	N/A
02/05	1620	TMO	Coliform, Fecal	< 5 #/100M			SM 1997 9222 D	0.00	N/A *
02/18	1548	RAH	Cadmium	4.00 mg/Kg			SW-846 6020A	8.20	87.2 *
02/18	1548	RAH	Lead	10.50 mg/Kg			SW-846 6020A	3.75	80.4
				Flow	0.960000	MGD			

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Control Number: 1502010122
 Customer Name : CLINTON, EAST 40.24 LA PB 30
 Customer Number : 3003
 Report Date : 03/05/15

Sample Date : 02/05/15
 Sample Time : 1315
 Sample Type : GRAB SOIL
 Sample From : EAST LA 40.24 PB30


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

Laboratory Analysis							Quality Assurance	
Analysis			Result	Notes	Quantity	Method	Precision % RPD	Accuracy % Recovery
Date	Time	By	Parameter					
02/11	0930	NTR	Ammonia Nitrogen	< 3.2900 mg/kg		SM 1997 4500-NH3 C	1.09	91.9 *
03/02	1451	RAH	Mercury	< 0.1245 mg/Kg		SW-846 7471	4.81	94.7 *
02/11	1130	NTR	Nitrate Nitrogen	4.600 mg/kg		SM 2000 4500-NO3 E	1.07	93.5 *
02/12	0850	NTR	Phosphorous, Total (as P)	600.0663 mg/kg		EPA 365.3	1.06	97.2 *
02/18	1548	RAH	Magnesium	300.50 mg/Kg		SW-846 6020A	0.30	84.4 *
02/18	1548	RAH	Potassium	383.50 mg/Kg		SW-846 6020A	3.87	80.7 *
02/06	0630	NTR	pH Soil	6.23 S.U.		SW846 9045C	0.46	N/A *
02/18	1548	RAH	Nickel	10.00 mg/Kg		SW-846 6020A	0.00	91.8 *
02/18	1548	RAH	Copper	6.00 mg/Kg		SW-846 6020A	0.65	93.7 *
02/18	1548	RAH	Zinc	32.00 mg/Kg		SW-846 6020A	9.31	93.9 *
02/11	1600	NTR	Nitrogen, Plant Available	4.60 mg/kg		33 MSA 2nd Ed	1.06	96.1 *
02/18	1548	RAH	Arsenic	6.00 mg/Kg		SW-846 6020A	0.92	87.2 *
02/06	0630	NTR	Specific Conductance	42.2000 UMHOS		EPA (MOD)9050A	0.32	N/A *
02/18	1548	RAH	Cadmium	4.00 mg/Kg		SW-846 6020A	8.20	87.2 *
02/18	1548	RAH	Lead	6.00 mg/Kg		SW-846 6020A	3.75	80.4 *

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

Control Number: 1502010123
 Customer Name : CLINTON, EAST 55.57 LA PB 10
 Customer/Permit No. : 511 / AR0048836 001
 Report Date : 03/05/15

Sample Date : 02/05/15
 Sample Time : 1323
 Sample Type : GRAB SOIL
 Sample From : EAST LA 55.57 PB10

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

Analysis			Laboratory Analysis				Quality Assurance		
Date	Time	By	Parameter	Result	Notes	Quantity	Method	Precision % RPD	Accuracy % Recovery
02/11	0930	NTR	Ammonia Nitrogen	< 3.4600 mg/kg			SM 1997 4500-NH3 C	1.09	91.9 *
03/02	1451	RAH	Mercury	< 0.1221 mg/Kg			SW-846 7471	4.81	94.7 *
02/11	1130	NTR	Nitrate Nitrogen	3.400 mg/kg			SM 2000 4500-NO3 E	1.07	93.5 *
02/12	0850	NTR	Phosphorous, Total (as P)	411.2220 mg/kg			EPA 365.3	1.06	97.2 *
02/18	1548	RAH	Magnesium	509.50 mg/Kg			SW-846 6020A	0.30	84.4 *
02/18	1548	RAH	Potassium	472.00 mg/Kg			SW-846 6020A	3.87	80.7 *
02/06	0630	NTR	pH Soil	5.96 S.U.			SW846 9045C	0.46	N/A *
02/18	1548	RAH	Nickel	13.50 mg/Kg			SW-846 6020A	0.00	91.8 *
02/18	1548	RAH	Copper	6.50 mg/Kg			SW-846 6020A	0.65	93.7 *
02/18	1548	RAH	Zinc	39.00 mg/Kg			SW-846 6020A	9.31	93.9 *
02/11	1600	NTR	Nitrogen, Plant Available	3.40 mg/kg			33 MSA 2nd Ed	1.06	96.1 *
02/18	1548	RAH	Arsenic	7.50 mg/Kg			SW-846 6020A	0.92	87.2 *
02/06	0630	NTR	Specific Conductance	40.8000 UMHOS			EPA (MOD) 9050A	0.32	N/A *
02/18	1548	RAH	Cadmium	4.00 mg/Kg			SW-846 6020A	8.20	87.2 *
02/18	1548	RAH	Lead	9.50 mg/Kg			SW-846 6020A	3.75	80.4 *

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Signature _____

Neil J. Pyle
 Environmental Services Co., Inc.

Environmental Services Company, Inc.

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 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: 1502010124
 Customer Name : CLINTON, EAST 55.57 LA PB 10
 Customer/Permit No. : 511 / AR0048836 001
 Report Date : 03/05/15

Sample Date : 02/05/15
 Sample Time : 1327
 Sample Type : GRAB SOIL
 Sample From : 55.57 LA PB10

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

Laboratory Analysis

Analysis			Laboratory Analysis				Quality Assurance		
Date	Time	By	Parameter	Result	Notes	Quantity	Method	Precision % RPD	Accuracy % Recovery
02/11	0930	NTR	Ammonia Nitrogen	< 3.5500 mg/kg			SM 1997 4500-NH3 C	1.09	91.9 *
03/02	1451	RAH	Mercury	< 0.1224 mg/Kg			SW-846 7471	4.81	94.7 *
02/11	1130	NTR	Nitrate Nitrogen	3.440 mg/kg			SM 2000 4500-NO3 E	1.07	93.5 *
02/12	0850	NTR	Phosphorous, Total (as P)	439.5890 mg/kg			EPA 365.3	1.06	97.2 *
02/18	1548	RAH	Magnesium	325.00 mg/Kg			SW-846 6020A	0.30	84.4 *
02/18	1548	RAH	Potassium	365.00 mg/Kg			SW-846 6020A	3.87	80.7 *
02/06	0630	NTR	pH Soil	6.11 S.U.			SW846 9045C	0.46	N/A *
02/18	1548	RAH	Nickel	11.00 mg/Kg			SW-846 6020A	0.00	91.8 *
02/18	1548	RAH	Copper	6.00 mg/Kg			SW-846 6020A	0.65	93.7 *
02/18	1548	RAH	Zinc	37.50 mg/Kg			SW-846 6020A	9.31	93.9 *
02/11	1600	NTR	Nitrogen, Plant Available	3.44 mg/kg			33 MSA 2nd Ed	1.06	96.1 *
02/18	1548	RAH	Arsenic	5.50 mg/Kg			SW-846 6020A	0.92	87.2 *
02/06	0630	NTR	Specific Conductance	40.6000 UMHOS			EPA (MOD)9050A	0.32	N/A *
02/18	1548	RAH	Cadmium	4.00 mg/Kg			SW-846 6020A	8.20	87.2 *
02/18	1548	RAH	Lead	7.50 mg/Kg			SW-846 6020A	3.75	80.4 *

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Neil P. [Signature]
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Control Number: 1502010125
 Customer Name : CLINTON, EAST 55.57 LA PB 10
 Customer/Permit No. : 511 / AR0048836 001
 Report Date : 03/05/15

Sample Date : 02/05/15
 Sample Time : 1330
 Sample Type : GRAB SOIL
 Sample From : 55.57 LA PB10

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

Analysis			Laboratory Analysis				Quality Assurance		
Date	Time	By	Parameter	Result	Notes	Quantity	Method	Precision % RPD	Accuracy % Recovery
02/11	0930	NTR	Ammonia Nitrogen	< 3.6900 mg/kg			SM 1997 4500-NH3 C	1.09	91.9 *
03/02	1451	RAH	Mercury	< 0.1228 mg/Kg			SW-846 7471	4.81	94.7 *
02/11	1130	NTR	Nitrate Nitrogen	3.340 mg/kg			SM 2000 4500-NO3 E	1.07	93.5 *
02/12	0850	NTR	Phosphorous, Total (as P)	461.2100 mg/kg			EPA 365.3	1.06	97.2 *
02/18	1548	RAH	Magnesium	612.00 mg/Kg			SW-846 6020A	0.30	84.4 *
02/18	1548	RAH	Potassium	779.00 mg/Kg			SW-846 6020A	3.87	80.7 *
02/06	0630	NTR	pH Soil	6.19 S.U.			SW846 9045C	0.46	N/A *
02/18	1548	RAH	Nickel	14.00 mg/Kg			SW-846 6020A	0.00	91.8 *
02/18	1548	RAH	Copper	8.00 mg/Kg			SW-846 6020A	0.65	93.7 *
02/18	1548	RAH	Zinc	53.50 mg/Kg			SW-846 6020A	9.31	93.9 *
02/11	1600	NTR	Nitogen, Plant Available	3.34 mg/kg			33 MSA 2nd Ed	1.06	96.1 *
02/18	1548	RAH	Arsenic	8.50 mg/Kg			SW-846 6020A	0.92	87.2 *
02/06	0630	NTR	Specific Conductance	40.1000 UMHOS			EPA (MOD)9050A	0.32	N/A *
02/18	1548	RAH	Cadmium	4.00 mg/Kg			SW-846 6020A	8.20	87.2 *
02/18	1548	RAH	Lead	9.50 mg/Kg			SW-846 6020A	3.75	80.4 *

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Signature


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Control Number: 1502010126
 Customer Name : CLINTON, EAST 55.57 LA PB 3
 Customer Number : 3002
 Report Date : 03/05/15

Sample Date : 02/05/15
 Sample Time : 1333
 Sample Type : GRAB SOIL
 Sample From : EAST LA 55.57 PB3

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

Laboratory Analysis

Analysis			Laboratory Analysis				Quality Assurance		
Date	Time	By	Parameter	Result	Notes	Quantity	Method	Precision % RPD	Accuracy % Recovery
02/11	0930	NTR	Ammonia Nitrogen	< 3.1100 mg/kg			SM 1997 4500-NH3 C	1.09	91.9 *
03/02	1451	RAH	Mercury	< 0.1169 mg/Kg			SW-846 7471	4.81	94.7 *
02/11	1130	NTR	Nitrate Nitrogen	5.540 mg/kg			SM 2000 4500-NO3 E	1.07	93.5 *
02/12	0850	NTR	Phosphorous, Total (as P)	477.2500 mg/kg			EPA 365.3	1.06	97.2 *
02/18	1548	RAH	Magnesium	511.50 mg/Kg			SW-846 6020A	0.30	84.4 *
02/18	1548	RAH	Potassium	658.50 mg/Kg			SW-846 6020A	3.87	80.7 *
02/06	0630	NTR	pH Soil	6.13 S.U.			SW846 9045C	0.46	N/A *
02/18	1548	RAH	Nickel	13.00 mg/Kg			SW-846 6020A	0.00	91.8 *
02/18	1548	RAH	Copper	7.00 mg/Kg			SW-846 6020A	0.65	93.7 *
02/18	1548	RAH	Zinc	67.00 mg/Kg			SW-846 6020A	9.31	93.9 *
02/11	1600	NTR	Nitrogen, Plant Available	5.54 mg/kg			33 MSA 2nd Ed	1.06	96.1 *
02/18	1548	RAH	Arsenic	6.50 mg/Kg			SW-846 6020A	0.92	87.2 *
02/06	0630	NTR	Specific Conductance	38.7000 UMHOS			EPA (MOD)9050A	0.32	N/A *
02/18	1548	RAH	Cadmium	4.00 mg/Kg			SW-846 6020A	8.20	87.2 *
02/18	1548	RAH	Lead	10.50 mg/Kg			SW-846 6020A	3.75	80.4 *

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Control Number: 1502010127
 Customer Name : CLINTON, EAST 55.57 LA PB 30
 Customer Number : 3001
 Report Date : 03/05/15

Sample Date : 02/05/15
 Sample Time : 1337
 Sample Type : GRAB SOIL
 Sample From : EAST LA 55.57 PB30

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


Laboratory Analysis

Analysis			Laboratory Analysis				Quality Assurance		
Date	Time	By	Parameter	Result	Notes	Quantity	Method	Precision % RPD	Accuracy % Recovery
02/11	0930	NTR	Ammonia Nitrogen	3.2700 mg/kg			SM 1997 4500-NH3 C	1.09	91.9 *
03/02	1451	RAH	Mercury	< 0.1775 mg/Kg			SW-846 7471	4.81	94.7 *
02/11	1130	NTR	Nitrate Nitrogen	3.490 mg/kg			SM 2000 4500-NO3 E	1.07	93.5 *
02/12	0850	NTR	Phosphorous, Total (as P)	403.5890 mg/kg			EPA 365.3	1.06	97.2 *
02/18	1548	RAH	Magnesium	529.00 mg/Kg			SW-846 6020A	0.30	84.4 *
02/18	1548	RAH	Potassium	587.00 mg/Kg			SW-846 6020A	3.87	80.7 *
02/06	0630	NTR	pH Soil	6.57 S.U.			SW846 9045C	0.46	N/A *
02/18	1548	RAH	Nickel	14.50 mg/Kg			SW-846 6020A	0.00	91.8 *
02/18	1548	RAH	Copper	7.00 mg/Kg			SW-846 6020A	0.65	93.7 *
02/18	1548	RAH	Zinc	23.35 mg/Kg			SW-846 6020A	9.31	93.9 *
02/11	1600	NTR	Nitrogen, Plant Available	3.49 mg/kg			33 MSA 2nd Ed	1.06	96.1 *
02/18	1548	RAH	Arsenic	7.00 mg/Kg			SW-846 6020A	0.92	87.2 *
02/06	0630	NTR	Specific Conductance	36.6000 UMHOS			EPA (MOD)9050A	0.32	N/A *
02/18	1548	RAH	Cadmium	4.00 mg/Kg			SW-846 6020A	8.20	87.2 *
02/18	1548	RAH	Lead	8.00 mg/Kg			SW-846 6020A	3.75	80.4 *

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

Control Number: 1502010128
 Customer Name : CLINTON, EAST LA AIRPORT9
 Customer Number : 2959
 Report Date : 03/05/15

Sample Date : 02/05/15
 Sample Time : 1342
 Sample Type : GRAB SOIL
 Sample From : EAST LA AIRPORT 9

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

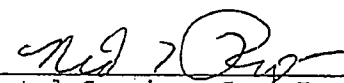
Laboratory Analysis

Analysis			Laboratory Analysis				Quality Assurance		
Date	Time	By	Parameter	Result	Notes	Quantity	Method	Precision % RPD	Accuracy % Recovery
02/11	0930	NTR	Ammonia Nitrogen	< 3.3300 mg/kg			SM 1997 4500-NH3 C	1.09	91.9 *
03/02	1451	RAH	Mercury	< 0.1185 mg/Kg			SW-846 7471	4.81	94.7 *
02/11	1130	NTR	Nitrate Nitrogen	3.530 mg/kg			SM 2000 4500-NO3 E	1.07	93.5 *
02/12	0850	NTR	Phosphorous, Total (as P)	544.1240 mg/kg			EPA 365.3	1.06	97.2 *
02/18	1548	RAH	Magnesium	211.50 mg/Kg			SW-846 6020A	0.30	84.4 *
02/18	1548	RAH	Potassium	234.00 mg/Kg			SW-846 6020A	3.87	80.7 *
02/06	0630	NTR	pH Soil	5.43 S.U.			SW846 9045C	0.46	N/A *
02/18	1548	RAH	Nickel	9.00 mg/Kg			SW-846 6020A	0.00	91.8 *
02/18	1548	RAH	Copper	4.50 mg/Kg			SW-846 6020A	0.65	93.7 *
02/18	1548	RAH	Zinc	23.50 mg/Kg			SW-846 6020A	9.31	93.9 *
02/11	1600	NTR	Nitrogen, Plant Available	3.53 mg/kg			33 MSA 2nd Ed	1.06	96.1 *
02/18	1548	RAH	Arsenic	5.50 mg/Kg			SW-846 6020A	0.92	87.2 *
02/06	0630	NTR	Specific Conductance	32.1000 UMHOS			EPA (MOD)9050A	0.32	N/A *
02/18	1548	RAH	Cadmium	4.00 mg/Kg			SW-846 6020A	8.20	87.2 *
02/18	1548	RAH	Lead	7.50 mg/Kg			SW-846 6020A	3.75	80.4 *

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

Control Number: 1502010129
 Customer Name : CLINTON, EAST LA WD13
 Customer Number : 2960
 Report Date : 03/05/15

Sample Date : 02/05/15
 Sample Time : 1349
 Sample Type : GRAB SOIL
 Sample From : EAST LA WD13

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
02/11	0930	NTR	Ammonia Nitrogen	< 3.3800 mg/kg			SM 1997 4500-NH3 C	1.09	91.9 *
03/02	1451	RAH	Mercury	< 0.1186 mg/Kg			SW-846 7471	4.81	94.7 *
02/11	1130	NTR	Nitrate Nitrogen	4.550 mg/kg			SM 2000 4500-NO3 E	2.15	94.1
02/12	0850	NTR	Phosphorous, Total (as P)	533.2000 mg/kg			EPA 365.3	1.06	97.2 *
02/18	1548	RAH	Magnesium	322.00 mg/Kg			SW-846 6020A	0.30	84.4 *
02/18	1548	RAH	Potassium	363.50 mg/Kg			SW-846 6020A	3.87	80.7 *
02/06	0630	NTR	pH Soil	5.50 S.U.			SW846 9045C	0.46	N/A *
02/18	1548	RAH	Nickel	11.50 mg/Kg			SW-846 6020A	0.00	91.8 *
02/18	1548	RAH	Copper	6.00 mg/Kg			SW-846 6020A	0.65	93.7 *
02/18	1548	RAH	Zinc	34.50 mg/Kg			SW-846 6020A	9.31	93.9 *
02/11	1600	NTR	Nitrogen, Plant Available	4.55 mg/kg			33 MSA 2nd Ed	1.06	96.1 *
02/18	1548	RAH	Arsenic	7.00 mg/Kg			SW-846 6020A	0.92	87.2 *
02/06	0630	NTR	Specific Conductance	43.9000 UMHOS			EPA (MOD)9050A	0.32	N/A *
02/18	1548	RAH	Cadmium	4.00 mg/Kg			SW-846 6020A	8.20	87.2 *
02/18	1548	RAH	Lead	10.00 mg/Kg			SW-846 6020A	3.75	80.4 *

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Signature _____

[Handwritten Signature]
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Carlsbad, New Mexico
 575-887-1ESC

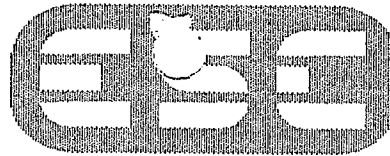
Phone: 501-221-2565 Fax: 501-221-1341

CHAIN OF CUSTODY

Client Information						Project Information					Requested Parameters										
Company Name:		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 #															
Telephone:		501-745-4320				Sampler Name(s):		J. Kroenschel													
Contact:		Mr. Isaac Keeling				and Signature(s):		[Signature]													
FAX:		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)	1502010121	2/5/15	1311	Grab	Soil	Glass	1 Liter	Cool ≤ 6° C	1	X	X	X	X								
East LA 40.24 PB30 (3003)	1502010122	2/5/15	1315	Grab	Soil	Glass	1 Liter	Cool ≤ 6° C	1	X	X	X	X								
East LA 55.57 PB10 (511)	1502010123	2/5/15	1323	Grab	Soil	Glass	1 Liter	Cool ≤ 6° C	1	X	X	X	X								
East LA 55.57 PB3 (3002)	1502010126	2/5/15	1333	Grab	Soil	Glass	1 Liter	Cool ≤ 6° C	1	X	X	X	X								
East LA 55.57 PB30 (3001)	1502010127	2/5/15	1337	Grab	Soil	Glass	1 Liter	Cool ≤ 6° C	1	X	X	X	X								
East LA Airport9 (2959)	1502010128	2/5/15	1342	Grab	Soil	Glass	1 Liter	Cool ≤ 6° C	1	X	X	X	X								
East LA WD13 (2960)	1502010129	2/5/15	1349	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 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 type="checkbox"/>		No <input type="checkbox"/>									
								Flow Data		Field Test		Time	Analyst	Result	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>1</u>			

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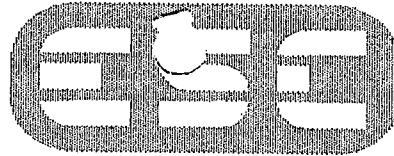
CHAIN OF CUSTODY

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

Client Information						Project Information					Requested Parameters										
Company Name:		Clinton, City of (East Land App)				Permit/Project #:					Metals	Soil Ph(23.1)	Spec Cond(35.M), Nitrate N(01.3)								
Address:		P.O. Box 277				Purchase Order #:															
		Clinton, AR 72031				Work Order #:															
Telephone:		501-745-4320				Sampler Name(s):		J. Koerschick													
FAX:		Mr. Isaac Keeling				and Signature(s):															
Contact:		501-745-2164																			
ESC Client Number:		511																			
Sample Identification			Sample Collection			Sample Containers															
Identification	ESC Control #	Date	Time	Type	Matrix	Type	Volume	Preservative	#												
55.57 LA PB10	1502010124	2/5/15	1327	Grab	Soil	Glass	1 Liter	≤6 Deg C	1	X	X	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 type="checkbox"/>		No <input type="checkbox"/>									
Cool all samples to ≤ 6 degrees C with ice.										Flow Data	Field Test	Time	Analyst	Result	Result	Units					
Comments: Mg(12.IS), K(19.IS), Ni(28.IS), Cu(29.IS), Zn(30.IS)										Analyst:											
As(33.IS), Cd(48.IS), Pb(82.IS), Hg(01.14), p(15.IS)										Time:											
										Reading:											
										Units:											
										Chlorinated? Y N		Fecal Start:									

26

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



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

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

CHAIN OF CUSTODY

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

Client Information						Project Information					Requested Parameters								
Company Name:		Clinton, City of (East Land App)				Permit/Project #:					Metals Soil Ph(23.1) Spec Cond(35.M), Nitrate N(01.3)								
Address:		P.O. Box 277 Clinton, AR 72031				Purchase Order #:													
Telephone:		501-745-4320				Work Order #:													
FAX:		Mr. Isaac Keeling				Sampler Name(s):		J. Knoerschild											
Contact:		501-745-2164				and Signature(s):		<i>J. Knoerschild</i>											
ESC Client Number:		511																	
Sample Identification			Sample Collection				Sample Containers												
Identification	ESC Control #	Date	Time	Type	Matrix	Type	Volume	Preservative	#										
55.57 LA PB10	1502010125	2/5/15	13 30	Grab	Soil	Glass	1 Liter	≤6 Deg C	1	X	X	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 type="checkbox"/>	Intact?	<input type="checkbox"/>								
Relinquished By: (Signature and Printed Name)		Date	Time	Received for Lab By: (Signature and Printed Name)		Date	Time	Turnaround:	Regular	<input type="checkbox"/>	Special	<input type="checkbox"/>							
Cool all samples to ≤ 6 degrees C with ice.		Were samples properly preserved:																	
		Yes	<input type="checkbox"/>	No	<input type="checkbox"/>														
Comments: Mg(12.IS), K(19.IS), Ni(28.IS), Cu(29.IS), Zn(30.IS) As(33.IS), Cd(48.IS), Pb(82.IS), Hg(01.14), p(15.IS)						Flow Data	Field Test	Time	Analyst	Result	Result	Units							
						Analyst:													
						Time:													
						Reading:													
						Units:													
						Chlorinated? Y N	Fecal Start:						This Document is Page 1 of 1						

J. Knoerschild

Environmental Services Company, Inc.

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Control Number: 1510010339
 Customer Name : CLINTON, WEST GW1
 Customer/Permit No. : 497 / AR0048747 001
 Report Date : 10/29/15

Sample Date : 10/22/15
 Sample Time : 0922
 Sample Type : GRAB WATER
 Sample From : WELL # 1

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


Laboratory Analysis

Laboratory Analysis							Quality Assurance	
Analysis			Result	Notes	Quantity	Method	Precision	Accuracy
Date	Time	By					Parameter	% RPD
.0/27	1255	NTR	Chloride (as Cl)	10.0 mg/L		1997 4500-Cl-C	9.52	100.0 *
.0/22	0922	MCH	pH	6.9 S.U.		SM 2000 4500-H+B	0.00	N/A *
.0/27	1745	NTR	Solids, Total Dissolved	118.0 mg/L		SM 1997 2540 C	1.70	N/A *
.0/22	0922	MCH	Specific Conductance	312.000 U MHOS		EPA 120.1	0.00	N/A *
.0/22	0922	MCH	Temperature	19.20 °C		SM 2000 2550 B	0.00	N/A *
.0/24	1050	NTR	Nitrate + Nitrite	< 0.05 mg/L		SM 2000 4500-NO3 E	1.26	94.6 *
.0/22	0922	MCH	Well Depth, Total	17.00 Feet			N/A	N/A
.0/22	0922	MCH	Depth to Water	11.00 Feet			N/A	N/A

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Control Number: 1510010345
 Customer Name : CLINTON, WEST GW2
 Customer/Permit No. : 498 / AR0048747 001
 Report Date : 10/29/15

Sample Date : 10/22/15
 Sample Time : 0930
 Sample Type : GRAB WATER
 Sample From : WELL # 2

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

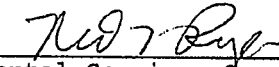
Laboratory Analysis

Analysis						Quality Assurance			
Date	Time	By	Parameter	Result	Notes	Quantity	Method	Precision % RPD	Accuracy % Recovery
10/27	1255	NTR	Chloride (as Cl)	20.0 mg/L			1997 4500-Cl-C	0.00	100.0
10/22	0930	MCH	pH	6.2 S.U.			SM 2000 4500-H+B	0.00	N/A *
10/27	1745	NTR	Solids, Total Dissolved	88.0 mg/L			SM 1997 2540 C	9.09	N/A
10/22	0930	MCH	Specific Conductance	61.700 U MHOS			EPA 120.1	0.00	N/A *
10/22	0930	MCH	Temperature	17.90 °C			SM 2000 2550 B	0.00	N/A *
10/24	1050	NTR	Nitrate + Nitrite	0.93 mg/L			SM 2000 4500-NO3 E	1.22	90.9 *
10/22	0930	MCH	Well Depth, Total	19.30 Feet				N/A	N/A
10/22	0930	MCH	Depth to Water	17.00 Feet				N/A	N/A

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Control Number: 1510010346
 Customer Name : CLINTON, WEST GW3
 Customer/Permit No. : 499 / AR0048747 001
 Report Date : 10/29/15

Sample Date : 10/22/15
 Sample Time : 0940
 Sample Type : GRAB WATER
 Sample From : WELL # 3

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

Laboratory Analysis

Analysis							Quality Assurance		
Date	Time	By	Parameter	Result	Notes	Quantity	Method	Precision % RPD	Accuracy % Recovery
10/27	1255	NTR	Chloride (as Cl)	55.0 mg/L			1997 4500-Cl-C	0.00	100.0 *
10/22	0940	MCH	pH	6.6 S.U.			SM 2000 4500-H+B	0.00	N/A *
10/27	1745	NTR	Solids, Total Dissolved	212.0 mg/L			SM 1997 2540 C	9.09	N/A *
10/22	0940	MCH	Specific Conductance	297.000 U MHOS			EPA 120.1	0.00	N/A *
10/22	0940	MCH	Temperature	17.40 °C			SM 2000 2550 B	0.00	N/A *
10/24	1050	NTR	Nitrate + Nitrite	< 0.05 mg/L			SM 2000 4500-NO3 E	1.22	90.9 *
10/22	0940	MCH	Well Depth, Total	14.90 Feet				N/A	N/A
10/22	0940	MCH	Depth to Water	9.00 Feet				N/A	N/A

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Control Number: 1510010347
 Customer Name : CLINTON, WEST GW6
 Customer/Permit No. : 500 / AR0048747 001
 Report Date : 10/29/15

Sample Date : 10/22/15
 Sample Time : 1008
 Sample Type : GRAB WATER
 Sample From : WELL # 6

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

Laboratory Analysis

Analysis			Laboratory Analysis				Quality Assurance		
Date	Time	By	Parameter	Result	Notes	Quantity	Method	Precision % RPD	Accuracy % Recovery
10/27	1255	NTR	Chloride (as Cl)	5.0 mg/L			1997 4500-Cl-C	0.00	100.0 *
10/22	1008	MCH	pH	6.0 S.U.			SM 2000 4500-H+B	0.00	N/A *
10/27	1745	NTR	Solids, Total Dissolved	94.0 mg/L			SM 1997 2540 C	9.09	N/A *
10/22	1008	MCH	Specific Conductance	65.600 U MHOS			EPA 120.1	0.00	N/A *
10/22	1008	MCH	Temperature	18.50 °C			SM 2000 2550 B	0.00	N/A *
10/24	1050	NTR	Nitrate + Nitrite	1.15 mg/L			SM 2000 4500-NO3 E	1.22	90.9 *
10/22	1008	MCH	Well Depth, Total	17.70 Feet				N/A	N/A
10/22	1008	MCH	Depth to Water	13.80 Feet				N/A	N/A

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Control Number: 1510010348
 Customer Name : CLINTON, WEST GW7
 Customer/Permit No. : 501 / AR0048747 001
 Report Date : 10/29/15

Sample Date : 10/22/15
 Sample Time : 0958
 Sample Type : GRAB WATER
 Sample From : WELL # 7

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

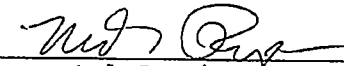
Laboratory Analysis

Analysis						Quality Assurance			
Date	Time	By	Parameter	Result	Notes	Quantity	Method	Precision % RPD	Accuracy % Recovery
10/27	1255	NTR	Chloride (as Cl)	50.0 mg/L			1997 4500-Cl-C	0.00	100.0 *
10/22	0958	MCH	pH	6.7 S.U.			SM 2000 4500-H+B	0.00	N/A
10/27	1745	NTR	Solids, Total Dissolved	130.0 mg/L			SM 1997 2540 C	9.09	N/A *
10/22	0958	MCH	Specific Conductance	196.000 U MHOS			EPA 120.1	0.51	N/A
10/22	0958	MCH	Temperature	18.50 °C			SM 2000 2550 B	0.00	N/A *
10/24	1050	NTR	Nitrate + Nitrite	< 0.05 mg/L			SM 2000 4500-NO3 E	1.22	90.9 *
10/22	0958	MCH	Well Depth, Total	16.10 Feet				N/A	N/A
10/22	0958	MCH	Depth to Water	11.40 Feet				N/A	N/A

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Control Number: 1510010349
 Customer Name : CLINTON, WEST GW8
 Customer/Permit No. : 502 / AR0048747 001
 Report Date : 10/29/15

Sample Date : 10/22/15
 Sample Time : 0948
 Sample Type : GRAB WATER
 Sample From : WELL # 8

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

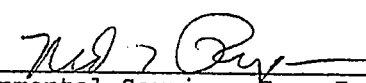
Laboratory Analysis

Laboratory Analysis							Quality Assurance	
Analysis			Result	Notes	Quantity	Method	Precision	Accuracy
Date	Time	By	Parameter				% RPD	% Recovery
10/27	1255	NTR	Chloride (as Cl)			1997 4500-Cl-C	0.00	100.0 *
10/22	0948	MCH	pH			SM 2000 4500-H+B	0.00	N/A *
10/27	1745	NTR	Solids, Total Dissolved			SM 1997 2540 C	9.09	N/A *
10/22	0948	MCH	Specific Conductance		212.000 U MHOS	EPA 120.1	0.51	N/A *
10/22	0948	MCH	Temperature		19.10 °C	SM 2000 2550 B	0.00	N/A *
10/24	1050	NTR	Nitrate + Nitrite		1.71 mg/L	SM 2000 4500-NO3 E	1.22	90.9 *
10/22	0948	MCH	Well Depth, Total		19.50 Feet		N/A	N/A
10/22	0948	MCH	Depth to Water		17.30 Feet		N/A	N/A

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Control Number: 1510010350
 Customer Name : CLINTON, WEST GW9
 Customer/Permit No. : 503 / AR0048747 001
 Report Date : 10/29/15

Sample Date : 10/22/15
 Sample Time : 1014
 Sample Type : GRAB WATER
 Sample From : WELL # 9

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

Laboratory Analysis

Analysis						Quality Assurance			
Date	Time	By	Parameter	Result	Notes	Quantity	Method	Precision % RPD	Accuracy % Recovery
10/27	1255	NTR	Chloride (as Cl)	75.0 mg/L			1997 4500-Cl-C	0.00	100.0 *
10/22	1014	MCH	pH	6.3 S.U.			SM 2000 4500-H+B	0.00	N/A *
10/27	1745	NTR	Solids, Total Dissolved	188.0 mg/L			SM 1997 2540 C	9.09	N/A *
10/22	1014	MCH	Specific Conductance	241.000 U MHOS			EPA 120.1	0.51	N/A *
10/22	1014	MCH	Temperature	19.40 °C			SM 2000 2550 B	0.00	N/A
10/24	1050	NTR	Nitrate + Nitrite	< 0.05 mg/L			SM 2000 4500-NO3 E	1.22	90.9 *
10/22	1014	MCH	Well Depth, Total	16.20 Feet				N/A	N/A
10/22	1014	MCH	Depth to Water	11.40 Feet				N/A	N/A

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Control Number: 1510010340
 Customer Name : CLINTON, WEST GW10
 Customer/Permit No. : 504 / AR0048747 001
 Report Date : 10/29/15


Sample Date : 10/22/15
 Sample Time : 1030
 Sample Type : GRAB WATER
 Sample From : WELL # 10

Collected By: MCH
 Delivery By : MCH
 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>
.0/27	1255	NTR	Chloride (as Cl)	30.0 mg/L		1997 4500-Cl-C	9.52	100.0 *
.0/22	1030	MCH	pH	6.0 S.U.		SM 2000 4500-H+B	0.00	N/A *
.0/27	1745	NTR	Solids, Total Dissolved	98.0 mg/L		SM 1997 2540 C	1.70	N/A *
.0/22	1030	MCH	Specific Conductance	108.000 U MHOS		EPA 120.1	0.51	N/A *
.0/22	1030	MCH	Temperature	18.80 °C		SM 2000 2550 B	0.00	N/A *
.0/24	1050	NTR	Nitrate + Nitrite	< 0.05 mg/L		SM 2000 4500-NO3 E	1.26	94.6 *
.0/22	1030	MCH	Well Depth, Total	20.00 Feet			N/A	N/A
.0/22	1030	MCH	Depth to Water	15.00 Feet			N/A	N/A

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Control Number: 1510010341
 Customer Name : CLINTON, WEST GW11
 Customer/Permit No. : 505 / AR0048747 001
 Report Date : 10/29/15

Sample Date : 10/22/15
 Sample Time : 1048
 Sample Type : GRAB WATER
 Sample From : WELL # 11

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

Laboratory Analysis

Analysis						
<u>Date</u>	<u>Time</u>	<u>By</u>	<u>Parameter</u>	<u>Result</u>	<u>Notes</u>	<u>Quantity</u>
10/27	1255	NTR	Chloride (as Cl)	5.0 mg/L		
10/22	1048	MCH	pH	6.3 S.U.		
10/27	1745	NTR	Solids, Total Dissolved	102.0 mg/L		
10/22	1048	MCH	Specific Conductance	149.000 U MHOS		
10/22	1048	MCH	Temperature	18.90 °C		
10/24	1050	NTR	Nitrate + Nitrite	< 0.05 mg/L		
10/22	1048	MCH	Well Depth, Total	17.80 Feet		
10/22	1048	MCH	Depth to Water	10.00 Feet		

Quality Assurance

<u>Precision</u>	<u>Accuracy</u>
<u>% RPD</u>	<u>% Recovery</u>
9.52	100.0 *
0.00	N/A *
1.70	N/A *
0.51	N/A *
0.00	N/A *
1.26	94.6 *
N/A	N/A
N/A	N/A

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Control Number: 1510010342
 Customer Name : CLINTON, WEST GW12
 Customer/Permit No. : 506 / AR0048747 001
 Report Date : 10/29/15

Sample Date : 10/22/15
 Sample Time : 1102
 Sample Type : GRAB WATER
 Sample From : WELL # 12


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

<u>Laboratory Analysis</u>							<u>Quality Assurance</u>		
Date	Time	By	Parameter	Result	Notes	Quantity	Method	Precision % RPD	Accuracy % Recovery
10/27	1255	NTR	Chloride (as Cl)	45.0 mg/L			1997 4500-Cl-C	9.52	100.0 *
10/22	1102	MCH	pH	6.0 S.U.			SM 2000 4500-H+B	0.00	N/A *
10/27	1745	NTR	Solids, Total Dissolved	100.0 mg/L			SM 1997 2540 C	1.70	N/A *
10/22	1102	MCH	Specific Conductance	139.900 U MHOS			EPA 120.1	0.51	N/A *
10/22	1102	MCH	Temperature	19.00 °C			SM 2000 2550 B	0.00	N/A *
10/24	1050	NTR	Nitrate + Nitrite	3.24 mg/L			SM 2000 4500-NO3 E	1.26	94.6 *
10/22	1102	MCH	Well Depth, Total	16.00 Feet				N/A	N/A
10/22	1102	MCH	Depth to Water	12.00 Feet				N/A	N/A

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Control Number: 1510010335
 Customer Name : CLINTON, EAST GW13
 Customer/Permit No. : 507 / AR0048836 001
 Report Date : 10/29/15

Sample Date : 10/22/15
 Sample Time : 1202
 Sample Type : GRAB WATER
 Sample From : WELL #13

Collected By: MCH
 Delivery By : MCH
 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>
10/27	1255	NTR	Chloride (as Cl)	60.0 mg/L			1997 4500-C1-C	9.52	100.0
10/22	1202	MCH	pH	6.3 S.U.			SM 2000 4500-H+B		
10/27	1745	NTR	Solids, Total Dissolved	132.0 mg/L			SM 1997 2540 C	1.70	N/A *
10/22	1202	MCH	Specific Conductance	245.000 U MHOS			EPA 120.1	0.00	N/A *
10/22	1202	MCH	Temperature	20.60 °C			SM 2000 2550 B	0.00	N/A
10/24	1050	NTR	Nitrate + Nitrite	2.48 mg/L			SM 2000 4500-NO3 E	1.26	94.6 *
10/22	1202	MCH	Well Depth, Total	15.40 Feet				N/A	N/A
10/22	1202	MCH	Depth to Water	9.50 Feet				N/A	N/A

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Signature _____

M. J. Papp
 Environmental Services Co., Inc.

Environmental Services Company, Inc.

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 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: 1510010336
 Customer Name : CLINTON, EAST GW14
 Customer/Permit No. : 508 / AR0048836 001
 Report Date : 10/29/15

Sample Date : 10/22/15
 Sample Time : 1152
 Sample Type : GRAB WATER
 Sample From : WELL # 14

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

Laboratory Analysis

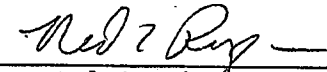
Analysis			Result	Notes	Quantity	Method
Date	Time	By	Parameter			
10/27	1255	NTR	Chloride (as Cl)	40.0 mg/L		1997 4500-Cl-C
10/22	1152	MCH	pH	6.1 S.U.		SM 2000 4500-H+B
10/27	1745	NTR	Solids, Total Dissolved	152.0 mg/L		SM 1997 2540 C
10/22	1152	MCH	Specific Conductance	162.800 U MHOS		EPA 120.1
10/22	1152	MCH	Temperature	20.90 °C		SM 2000 2550 B
10/24	1050	NTR	Nitrate + Nitrite	0.93 mg/L		SM 2000 4500-NO3 E
10/22	1152	MCH	Well Depth, Total	13.10 Feet		
10/22	1152	MCH	Depth to Water	10.00 Feet		

Quality Assurance	
Precision	Accuracy
% RPD	% Recovery
9.52	100.0 *
0.00	N/A *
1.70	N/A *
0.00	N/A *
0.00	N/A *
1.26	94.6 *
N/A	N/A
N/A	N/A

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Control Number: 1510010337
 Customer Name : CLINTON, EAST GW16
 Customer/Permit No. : 509 / AR0048836 001
 Report Date : 10/29/15

Sample Date : 10/22/15
 Sample Time : 1214
 Sample Type : GRAB WATER
 Sample From : WELL # 16

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

Laboratory Analysis

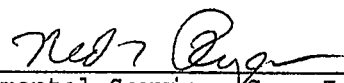
Analysis			Result	Notes	Quantity	Method
Date	Time	BY	Parameter			
10/27	1255	NTR	Chloride (as Cl)	60.0 mg/L		1997 4500-Cl-C
10/22	1214	MCH	pH	5.7 S.U.		SM 2000 4500-H+B
10/27	1745	NTR	Solids, Total Dissolved	80.0 mg/L		SM 1997 2540 C
10/22	1214	MCH	Specific Conductance	83.600 U MHOS		EPA 120.1
10/22	1214	MCH	Temperature	21.50 °C		SM 2000 2550 B
10/24	1050	NTR	Nitrate + Nitrite	< 0.05 mg/L		SM 2000 4500-NO3 E
10/22	1214	MCH	Well Depth, Total	14.00 Feet		
10/22	1214	MCH	Depth to Water	12.00 Feet		

Quality Assurance

Precision	Accuracy
% RPD	% Recovery
9.52	100.0 *
0.00	N/A *
1.70	N/A *
0.00	N/A *
0.00	N/A *
1.26	94.6
N/A	N/A
N/A	N/A

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Signature 
 Environmental Services Co., Inc.

Environmental Services Company, Inc.

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Control Number: 1510010338
 Customer Name : CLINTON, EAST GW17
 Customer/Permit No. : 649 / AR0048747 001
 Report Date : 10/29/15

Sample Date : 10/22/15
 Sample Time : 1145
 Sample Type : GRAB WATER
 Sample From : WELL #17

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

Laboratory Analysis

Analysis						Quality Assurance			
Date	Time	By	Parameter	Result	Notes	Quantity	Method	Precision % RPD	Accuracy % Recovery
10/27	1255	NTR	Chloride (as Cl)	25.0 mg/L			1997 4500-Cl-C	9.52	100.0 *
10/22	1145	MCH	pH	5.9 S.U.			SM 2000 4500-H+B	0.00	N/A *
10/27	1745	NTR	Solids, Total Dissolved	110.0 mg/L			SM 1997 2540 C	1.70	N/A *
10/22	1145	MCH	Specific Conductance	84.900 U MHOS			EPA 120.1	0.00	N/A *
10/22	1145	MCH	Temperature	20.00 °C			SM 2000 2550 B	0.00	N/A *
10/24	1050	NTR	Nitrate + Nitrite	< 0.05 mg/L			SM 2000 4500-NO3 E	1.26	94.6 *
10/22	1145	MCH	Well Depth, Total	13.50 Feet				N/A	N/A
10/22	1145	MCH	Depth to Water	13.50 Feet				N/A	N/A

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Signature _____

Adrian Pappas
 Environmental Services Co., Inc.

Environmental Services Company, Inc.

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Control Number: 1510010343
 Customer Name : CLINTON, WEST GW18
 Customer/Permit No. : 1570 / AR0048747 001
 Report Date : 10/29/15

Sample Date : 10/22/15
 Sample Time : 1036
 Sample Type : GRAB WATER
 Sample From : WELL # 18

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

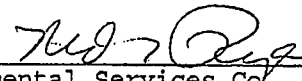
Laboratory Analysis

Analysis							Quality Assurance		
Date	Time	By	Parameter	Result	Notes	Quantity	Method	Precision % RPD	Accuracy % Recovery
10/27	1255	NTR	Chloride (as Cl)	30.0 mg/L			1997 4500-Cl-C	9.52	100.0 *
10/22	1036	MCH	pH	6.4 S.U.			SM 2000 4500-H+B	0.00	N/A *
10/27	1745	NTR	Solids, Total Dissolved	184.0 mg/L			SM 1997 2540 C	1.70	N/A *
10/22	1036	MCH	Specific Conductance	217.000 U MHOS			EPA 120.1	0.51	N/A *
10/22	1036	MCH	Temperature	18.70 °C			SM 2000 2550 B	0.00	N/A *
10/24	1050	NTR	Nitrate + Nitrite	0.90 mg/L			SM 2000 4500-NO3 E	1.22	90.9 *
10/22	1036	MCH	Well Depth, Total	18.20 Feet				N/A	N/A
10/22	1036	MCH	Depth to Water	14.00 Feet				N/A	N/A

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

Control Number: 1510010344
 Customer Name : CLINTON, WEST GW19
 Customer/Permit No. : 1571 / AR0048747 001
 Report Date : 10/29/15

Sample Date : 10/22/15
 Sample Time : 1022
 Sample Type : GRAB WATER
 Sample From : WELL # 19

Collected By: MCH
 Delivery By : MCH
 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>
10/27	1255	NTR	Chloride (as Cl)	30.0 mg/L			1997 4500-Cl-C	9.52	100.0 *
10/22	1022	MCH	pH	5.9 S.U.			SM 2000 4500-H+B	0.00	N/A *
10/27	1745	NTR	Solids, Total Dissolved	176.0 mg/L			SM 1997 2540 C	9.09	N/A *
10/22	1022	MCH	Specific Conductance	176.000 U MHOS			EPA 120.1	0.51	N/A *
10/22	1022	MCH	Temperature	19.40 °C			SM 2000 2550 B	0.00	N/A *
10/24	1050	NTR	Nitrate + Nitrite	0.41 mg/L			SM 2000 4500-NO3 E	1.22	90.9 *
10/22	1022	MCH	Well Depth, Total	18.00 Feet				N/A	N/A
10/22	1022	MCH	Depth to Water	14.40 Feet				N/A	N/A

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Signature _____

[Handwritten Signature]
 Environmental Services Co., Inc.



Environmental Services Company
Little Rock, AR 72211

Groundwater Monitoring Chain of Custody

Sampler Name(s): Mikha Hinkle
and Signature: M S K Hinkle

Sample Date:

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		
Clinton Wells					#1	#2	#3	Time	#1	#2	#3	Time	#1	#2	#3	Time		
#13 (507)	1510010 335	1202	9' S	15' 4"	6.3	6.3	6.3	1202	245	245	246	1202	20.6	20.6	20.6	1202	X	X
#14 (508)	1510010 336	1152	10 FT	13' 1"	6.1	6.1	6.2	1152	162.8	162.7	162.7	1152	20.9	20.9	20.9	1152	X	X
#16 (509)	1510010 337	1214	12 FT	14' 0"	5.7	5.7	5.7	1214	83.6	83.5	83.5	1214	21.5	21.5	21.5	1214	X	X
#17 (649)	1510010 338	1145	13' S	17' 6"	5.9	5.9	5.8	1145	84.9	84.9	84.8	1145	20.0	20.0	20.0	1145	X	X
#1 (497)	1510010 339	0922	11 FT	17' 0"	6.9	6.8	6.8	0922	312	313	315	0922	19.2	19.2	18.9	0922	X	X
#2 (498)	1510010 345	0930	17 FT	19' 3"	6.2	6.1	6.1	0930	61.7	61.6	61.7	0930	17.9	17.9	17.9	0930	X	X
#3 (499)	1510010 346	0940	9 FT	14' 9"	6.6	6.6	6.6	0940	297	297	298	0940	17.4	17.4	17.4	0940	X	X
#6 (500)	1510010 347	0949 1008	13 FT	17' 7"	6.0	6.0	6.0	1008	65.6	65.6	65.4	1008	18.5	18.5	18.5	1008	X	X
#7 (501)	1510010 348	0958	11.4	16' 1"	6.7	6.7	6.7	0958	196	197	197	0958	18.5	18.5	18.5	0958	X	X
#8 (502)	1510010 349	0948	17.3	19' 5"	6.3	6.3	6.3	0948	212	212	212	0948	19.1	19.1	19.1	0948	X	X
#9 (503)	1510010 350	1014	11.4	16' 2"	6.3	6.3	6.3	1014	241	241	241	1014	19.4	19.4	19.4	1014	X	X
#10 (504)	1510010 340	1030	15 FT	20' 0"	6.0	6.0	5.9	1030	108	108	108	1030	18.8	18.8	18.8	1030	X	X
#11 (505)	1510010 341	1048	10 FT	17' 8"	6.3	6.3	6.3	1048	149.0	149.0	149.0	1048	19.9	19.0	19.0	1048	X	X
#12 (506)	1510010 342	1102	12 FT	16' 0"	6.0	6.0	6.0	1102	139.9	140.0	140.2	1102	19.0	19.0	19.0	1102	X	X
#18 (1570)	1510010 343	1036	14 FT	18' 2"	6.4	6.4	6.4	1036	217	217	217	1036	18.7	18.7	18.7	1036	X	X
#19 (1571)	1510010 344	1022	14.4	18' 0"	5.9	5.9	5.8	1022	176	176	176	1022	19.4	19.3	19.3	1022	X	X

Relinquished by: Mikha Hinkle Time: 1414 Received By Lab: Lead Caribout Date: 10-22-15 Time: 1414

Comments:
off

**CLINTON WATER AND SEWER
EAST PLANT
ANNUAL REPORT
PERMIT AR0048836
JANUARY 2014 - DECEMBER 2014**

Clinton Water and Sewer Department
Clinton, AR
East WWTP - AR0048836
Irrigation Water
Calendar Year 2014

Parameter	Annual Concentration (mg/L)	2014 Application Data				Total Application Since 2003 Pounds/Acre
		Million Gallons/Year	Number of Acres	Gallons per Acre-Year	Pounds per Acre	
Total Kjeldahl Nitrogen	16.4350	114.56	3856.44	29,706.2	4.074	624.40
Ammonia Nitrogen	1.5225	114.56	3856.44	29,706.2	0.377	148.46
Nitrate + Nitrite Nitrogen	3.8925	114.56	3856.44	29,706.2	0.965	108.11
BOD-5	51.2500	114.56	3856.44	29,706.2	12.705	1,020.06
Arsenic	< 0.0095	114.56	3856.44	29,706.2	0.002	0.47
Cadmium	< 0.0045	114.56	3856.44	29,706.2	0.001	0.22
Copper	< 0.0093	114.56	3856.44	29,706.2	0.002	0.27
Lead	< 0.0150	114.56	3856.44	29,706.2	0.004	0.58
Mercury	< 0.0010	114.56	3856.44	29,706.2	0.000	0.09
Selenium	< 0.0125	114.56	3856.44	29,706.2	0.003	0.68
Zinc	< 0.2370	114.56	3856.44	29,706.2	0.059	4.37
Conductivity, minimum (mhos/cm)*	144.40					
Conductivity, maximum (mhos/cm)*	210.00					
pH, minimum (SU)*	6.50					
pH, maximum (SU)*	7.30					

*Current year values

Crop Grown: Bermuda Hay

Clinton Water and Sewer Department
Clinton, AR
East WWTP - AR0048836
Soil
Calendar Year 2014

Sample ID	Clinton East 40.24 LA PB 3							
Control Number	1402010395							
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	02/24/14	2.193						
Ammonia Nitrogen	02/24/14	<3.0310						
PAN	02/24/14	2.19						
Phosphorous	02/24/14	414.7953						
Potassium	02/24/14	346.00						
Arsenic	02/24/14	5.50						
Cadmium	02/24/14	<2.50						
Copper	02/24/14	<2.50						
Lead	02/24/14	3.0						
Magnesium	02/24/14	448.00						
Mercury	02/24/14	<0.1155						
Nickel	02/24/14	8.0						
Zinc	02/24/14	24.0						
Conductivity (mhos/cm)	02/24/14	169.000						
pH (SU)	02/24/14	6.23						

Clinton Water and Sewer Department
Clinton, AR
East WWTP - AR0048836
Soil
Calendar Year 2014

Sample ID	Clinton East 40.24 LA PB 30							
Control Number	1402010396							
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	02/24/14	6.482						
Ammonia Nitrogen	02/24/14	<3.4340						
PAN	02/24/14	6.48						
Phosphorous	02/24/14	723.1149						
Potassium	02/24/14	324.50						
Arsenic	02/24/14	7.0						
Cadmium	02/24/14	<2.5						
Copper	02/24/14	4.5						
Lead	02/24/14	9.0						
Magnesium	02/24/14	544.0						
Mercury	02/24/14	<0.1211						
Nickel	02/24/14	13.0						
Zinc	02/24/14	28.5						
Conductivity (mhos/cm)	02/24/14	33.4000						
pH (SU)	02/24/14	5.71						

Clinton Water and Sewer Department
Clinton, AR
East WWTP - AR0048836
Soil
Calendar Year 2014

Sample ID	Clinton East 55.57 LA PB 10							
Control Number	1402010397							
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	02/24/14	2.888						
Ammonia Nitrogen	02/24/14	<3.4302						
PAN	02/24/14	2.89						
Phosphorous	02/24/14	424.6103						
Potassium	02/24/14	443.50						
Arsenic	02/24/14	7.50						
Cadmium	02/24/14	<2.50						
Copper	02/24/14	4.0						
Lead	02/24/14	11.50						
Magnesium	02/24/14	638.0						
Mercury	02/24/14	<0.1231						
Nickel	02/24/14	12.5						
Zinc	02/24/14	4.5						
Conductivity (mhos/cm)	02/24/14	39.9000						
pH (SU)	02/24/14	5.96						

Clinton Water and Sewer Department
Clinton, AR
East WWTP - AR0048836
Soil
Calendar Year 2014

Sample ID	Clinton East 55.57 LA PB 3							
Control Number	1402010398							
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	02/24/14	4.105						
Ammonia Nitrogen	02/24/14	<2.8410						
PAN	02/24/14	4.11						
Phosphorous	02/24/14	582.8862						
Potassium	02/24/14	386.50						
Arsenic	02/24/14	7.0						
Cadmium	02/24/14	<2.5						
Copper	02/24/14	3.5						
Lead	02/24/14	9.5						
Magnesium	02/24/14	605.50						
Mercury	02/24/14	<0.1149						
Nickel	02/24/14	12.0						
Zinc	02/24/14	35.5						
Conductivity (mhos/cm)	02/24/14	34.1000						
pH (SU)	02/24/14	5.88						

Clinton Water and Sewer Department
Clinton, AR
East WWTP - AR0048836
Soil
Calendar Year 2014

Sample ID	Clinton East 55.57 LA PB 30							
Control Number	1402010399							
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	02/24/14	2.461						
Ammonia Nitrogen	02/24/14	<3.3140						
PAN	02/24/14	2.46						
Phosphorous	02/24/14	430.5150						
Potassium	02/24/14	555.50						
Arsenic	02/24/14	6.50						
Cadmium	02/24/14	<2.5						
Copper	02/24/14	4.0						
Lead	02/24/14	7.0						
Magnesium	02/24/14	495.0						
Mercury	02/24/14	<0.1211						
Nickel	02/24/14	7.50						
Zinc	02/24/14	30.0						
Conductivity (mhos/cm)	02/24/14	33.6000						
pH (SU)	02/24/14	6.61						

Clinton Water and Sewer Department
Clinton, AR
East WWTP - AR0048836
Soil
Calendar Year 2014

Sample ID	Clinton East LA Airport 9							
Control Number	1402010400							
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	02/24/14	4.516						
Ammonia Nitrogen	02/24/14	<3.3312						
PAN	02/24/14	4.52						
Phosphorous	02/24/14	535.2563						
Potassium	02/24/14	381.0						
Arsenic	02/24/14	7.5						
Cadmium	02/24/14	<2.5						
Copper	02/24/14	5.50						
Lead	02/24/14	10.5						
Magnesium	02/24/14	70.0						
Mercury	02/24/14	<0.1225						
Nickel	02/24/14	11.5						
Zinc	02/24/14	34.0						
Conductivity (mhos/cm)	02/24/14	34.9000						
pH (SU)	02/24/14	5.66						

Clinton Water and Sewer Department
Clinton, AR
East WWTP - AR0048836
Soil
Calendar Year 2014

Sample ID	Clinton East LA WD 13							
Control Number	1402010401							
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	02/24/14	3.011						
Ammonia Nitrogen	02/24/14	<2.9750						
PAN	02/24/14	3.01						
Phosphorous	02/24/14	458.6395						
Potassium	02/24/14	239.50						
Arsenic	02/24/14	6.0						
Cadmium	02/24/14	<2.5						
Copper	02/24/14	3.0						
Lead	02/24/14	7.0						
Magnesium	02/24/14	383.50						
Mercury	02/24/14	<0.1170						
Nickel	02/24/14	8.5						
Zinc	02/24/14	16.5						
Conductivity (mhos/cm)	02/24/14	50.1000						
pH (SU)	02/24/14	5.27						

Environmental Services Company, Inc.

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Northwest Arkansas Branch
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 Tel. (479)750-1170 Fax (479)750-1172

Control Number: 1402010313
 Customer Name : CLINTON, EAST IW
 Customer/Permit No. : 619 / AR0048836 001
 Report Date : 02/27/14

Sample Date : 02/20/14
 Sample Time : 1312
 Sample Type : GRAB WW
 Sample From : IRRIGATION WATER

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

Laboratory Analysis

Analysis							Quality Assurance		
Date	Time	By	Parameter	Result	Notes	Quantity	Method	Precision % RPD	Accuracy % Recovery
02/21	0600	ACH	BOD, 5-day	26.0 mg/L			2001 5210B	0.00	97.0 *
02/25	0900	NTR	Ammonia Nitrogen	4.74 mg/L			1997 4500-NH3 G	1.03	98.4 *
02/25	1055	NTR	Kjeldahl Nitrogen Total	20.16 mg/L			1997 4500-NorgB	0.26	100.3
02/20	1314	MCH	pH	7.2 S.U.			2000 4500 H+B	0.00	N/A
02/25	1253	RAH	Copper	< 0.0030 mg/L			EPA 200.8	1.66	96.8 *
02/25	1253	RAH	Zinc	< 0.0040 mg/L			EPA 200.8	1.52	107.7 *
02/25	1253	RAH	Arsenic	0.0100 mg/L			EPA 200.8	4.34	99.4 *
02/25	1253	RAH	Selenium	< 0.0100 mg/L			EPA 200.8	4.37	105.1 *
02/20	1314	MCH	Specific Conductance	189.000 U MHOS			EPA 120.1	0.53	N/A
02/25	1253	RAH	Cadmium	< 0.0040 mg/L			EPA 200.8	4.96	83.5 *
02/21	1503	RAH	Mercury	< 0.001 mg/L			EPA 245.1	2.09	101.4 *
02/25	1253	RAH	Lead	< 0.0100 mg/L			EPA 200.8	5.07	96.0 *
02/25	1415	NTR	Nitrate + Nitrite	3.42 mg/L			2000 4500-NO3 E	1.11	99.6 *

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

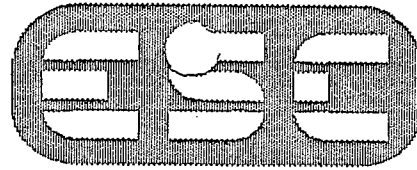
All equipment used is checked and/or calibrated daily. All NPDES testing is conducted in accordance with 40 CFR Part 136. A minimum of 10% spiked and duplicate samples is run on each parameter where applicable for Quality Assurance purposes. Quality Assurance Plan on file with Arkansas Department of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

CORRECTED COPY

Signature

Joseph Brown
 Environmental Services Co., Inc.

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 Little Rock, AR 72211 Little Rock, AR 72215
 website: www.esclabs.com



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 Northwest Branch
 1107 Century
 Springdale, AR 72762

Phone: 501-221-2565

Fax: 501-221-1341

CHAIN OF CUSTODY

Phone 479-750-1170

Fax: 479-750-1172

Client Information				Project Information							Requested Parameters											
Company Name: Clinton, East IW				Permit/Project #: AR0048836							BOD(3) NH ₃ -N(15.A), NO ₃ + NO ₂ (91.) TKN(16.A) Metals (See Comments)											
Address: P.O. Box 277 Clinton, AR 72031				Purchase Order #:																		
Telephone: 501-745-4320				Work Order #:																		
Contact: Mr. Isaac Keeling FAX: 501-745-2164				Sampler Name(s): Mike Keeling and Signature(s): Mike Keeling																		
ESC Client Number: 619																						
Sample Identification			Sample Collection				Sample Containers															
Identification	ESC Control #	Date	Time	Type	Matrix	Type	Volume	Preservative	#													
Innigation water	1402010313	2-20-14	1312	Grab	Wwater	Plastic	1/2 Gal	Cool $\leq 6^{\circ}$ C	1	X												
				Grab	Wwater	Plastic	1 Liter	Cool $\leq 6^{\circ}$ C, H ₂ SO ₄ to pH <2	1									X	X			
				Grab	Wwater	Plastic	1 Liter	HNO ₃ 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:												
Relinquished By: Mike Keeling			2-20-14	1500	Received for Lab By: Mike Keeling			2-20-14	1500	Regular <input checked="" type="checkbox"/> Special <input type="checkbox"/>												
										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), Cd(48.HW), Pb(82.HW)				Analyst:		pH:		Time:		Result:		Result:		Units:						
						Time:		Conduct:		Time:		Result:		Result:		Units:						
						Reading:																
						Units:																
						Fecal Start:																

2/20/14

Directions

Environmental Services Company, Inc.

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 Tel. (501)221-2565 Fax (501)221-1341

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

Control Number: 1406010527
 Customer Name : CLINTON, EAST IW
 Customer/Permit No. : 619 / AR0048836 001
 Report Date : 07/02/14

Sample Date : 06/23/14
 Sample Time : 0917
 Sample Type : GRAB WWATER
 Sample From : IRRIGATION WATER

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

Laboratory Analysis

Analysis:			Parameter	Result	Notes	Quantity	Method
Date	Time	By					
06/23	1500	NTR	BOD, 5-day	19.0 mg/L			SM 2001 5210 B
06/24	1130	ACF	Ammonia Nitrogen	0.18 mg/L			SM 1997 4500-NH3 F
06/23	1030	NTR	Kjeldahl Nitrogen Total	12.54 mg/L			SM 1997 4500-NorgB
06/23	0920	DWC	pH	6.5 S.U.			SM 2000 4500-H+B
06/30	1729	RAH	Copper	0.0080 mg/L			EPA 200.8
06/30	1729	RAH	Zinc	0.2100 mg/L			EPA 200.8
06/30	1729	RAH	Arsenic	< 0.0100 mg/L			EPA 200.8
06/30	1729	RAH	Selenium	< 0.0100 mg/L			EPA 200.8
06/23	0920	DWC	Specific Conductance	144.400 U MHOS			EPA 120.1
06/30	1729	RAH	Cadmium	< 0.0040 mg/L			EPA 200.8
06/25	1635	RAH	Mercury	< 0.001 mg/L			EPA 245.1
06/30	1729	RAH	Lead	0.0300 mg/L			EPA 200.8
06/24	1400	ACF	Nitrate + Nitrite	3.01 mg/L			SM 2000 4500-NO3 E

Quality Assurance

Precision % RPD	Accuracy % Recovery
5.41	97.0
3.06	100.1 *
0.00	94.4
0.00	N/A *
2.17	101.3 *
7.23	116.5 *
1.26	107.5 *
4.41	113.0 *
0.00	N/A
0.35	105.5 *
0.03	99.2 *
0.00	80.0 *
2.37	91.5 *

* 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 _____

[Handwritten Signature]
 Environmental Services Co., Inc.

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CHAIN OF CUSTODY

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

Client Information				Project Information						Requested Parameters							
Company Name: 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 #:													
Telephone: 501-745-4320				Sampler Name(s): David Callant													
Contact: Mr. Isaac Keeling				and Signature(s): David Callant													
FAX: 501-745-2164																	
ESC Client Number: 619																	
Sample Identification		Sample Collection				Sample Containers				BOD(3)		NH3-N(15.A), NO3 + NO2(91.)		TKN(16.A)		Metals (See Comments)	
Identification	ESC Control #	Date	Time	Type	Matrix	Type	Volume	Preservative	#								
Irrigation Water	1406010527	6/23/14	0917	Grab	Wwater	Plastic	1/2 Gal	Cool ≤ 6° C	1	X							
	/	/	/	Grab	Wwater	Plastic	1 Liter	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	
Comments: Metals: Hg(50.15), Cu(29.HW), Zn(30.HW), As(33.HW), Se(34.HW), Pb(82.HW), Cd(48.HW)																	
								Analyst:		pH:		6.5		6.5		S.U.	
								Time:		Conduct:		144.4		144.4		UMHOS	
								Reading:									
								Units:									
								Fecal Start:									
														This Document is Page 1 of 1			

CP

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: 1409010248
 Customer Name : CLINTON, EAST IW
 Customer/Permit No. : 619 / AR0048836 001
 Report Date : 10/01/14

Sample Date : 09/15/14
 Sample Time : 1222
 Sample Type : GRAB WWATER.
 Sample From : IRRIGATION WATER

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


Laboratory Analysis

Analysis							Quality Assurance		
Date	Time	By	Parameter	Result	Notes	Quantity	Method	Precision % RPD	Accuracy % Recovery
09/15	1530	NTR	BOD, 5-day	116.0 mg/L			SM 2001 5210 B	2.64	93.9 *
09/16	1600	NTR	Ammonia Nitrogen	1.04 mg/L			SM 1997 4500-NH3 F	2.90	103.3 *
09/17	0800	NTR	Kjeldahl Nitrogen Total	18.48 mg/L			SM 1997 4500-NorgB	0.51	100.5 *
09/15	1225	DWC	pH	6.5 S.U.			SM 2000 4500-H+B	0.00	N/A
09/26	1241	RAH	Copper	0.0200 mg/L			EPA 200.8	1.40	112.1 *
09/26	1241	RAH	Zinc	0.7300 mg/L			EPA 200.8	0.99	124.1 *
09/26	1241	RAH	Arsenic	< 0.0100 mg/L			EPA 200.8	1.75	111.4 *
09/26	1241	RAH	Selenium	0.0200 mg/L			EPA 200.8	2.08	113.4 *
09/15	1225	DWC	Specific Conductance	210.000 U MHOS			EPA 120.1	0.00	N/A
09/26	1241	RAH	Cadmium	< 0.0040 mg/L			EPA 200.8	0.99	115.6 *
09/17	1149	RAH	Mercury	< 0.0010 mg/L			EPA 245.1	1.58	102.1 *
09/26	1241	RAH	Lead	< 0.0100 mg/L			EPA 200.8	0.30	100.9 *
09/18	1000	NTR	Nitrate + Nitrite	6.73 mg/L			SM 2000 4500-NO3 E	1.45	90.6 *

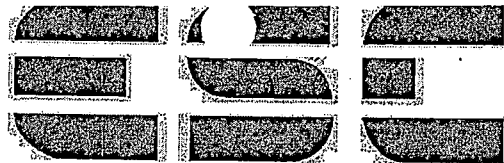
* QA data shown is from a different sample or standard on the same date.

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

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

CHAIN OF CUSTODY

Client Information				Project Information						Requested Parameters									
Company Name:		Clinton, East IW		Permit/Project #:		AR0048836				BOD(3.)	NH3-N(15.A), NO3 + NO2(9.1)	TKN(16.A)	Metals (See Comments)						
Address:		P.O. Box 277		Purchase Order #:															
		Clinton, AR 72031		Work Order #:															
Telephone:		501-745-4320		Sampler Name(s):		David Calbert													
Contact:		Mr. Isaac Keeling		and Signature(s):		David Calbert													
FAX:		501-745-2164		ESC Client Number:		619													
Sample Identification			Sample Collection			Sample Containers													
Identification	ESC Control #	Date	Time	Type	Matrix	Type	Volume	Preservative	#										
Irrigation Water	1409010248	8/15/14	1222	Grab	Wwater	Plastic	1/2 Gal	Cool ≤ 6° C	1	X									
	/	/	/	Grab	Wwater	Plastic	1 Liter	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?	Intact?								
Relinquished By: (Signature and Printed Name)		Date	Time	Received By: (Signature and Printed Name)		Date	Time	Turnaround:		Regular	Special								
Relinquished By: (Signature and Printed Name)		Date	Time	Received for Lab By: (Signature and Printed Name)		Date	Time	Were samples properly preserved:		Yes	No								
								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:	1225	DWL	6.5	6.5	S.U.								
Cd(48.HW), Pb(82.HW)				Time:		Conduct:	1225	DWL	210	210	UMHOS								
				Reading:															
				Units:															
				Fecal Start:															

CP

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

Control Number: 1410010536
 Customer Name : CLINTON, EAST IW
 Customer/Permit NO. : 619 / AR0048836 001
 Report Date : 11/07/14

Sample Date : 10/27/14
 Sample Time : 1204
 Sample Type : GRAB WWATER
 Sample From : IRRIGATION WATER

Collected By: DWC
 Delivery By : DWC
 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>
10/29	0700	MCH	BOD, 5-day	44.0 mg/L		SM 2001 5210 B	2.25	103.0
10/28	1330	NTR	Ammonia Nitrogen	0.13 mg/L		SM 1997 4500-NH3 F	0.90	96.2 *
10/28	1200	NTR	Kjeldahl Nitrogen Total	14.56 mg/L		SM 1997 4500-NorgB	0.19	100.2 *
10/27	1209	DWC	pH	7.3 S.U.		SM 2000 4500-H+B	0.00	N/A *
10/30	1742	RAH	Copper	0.0100 mg/L		EPA 200.8	4.55	91.6 *
10/30	1742	RAH	Zinc	< 0.0040 mg/L		EPA 200.8	1.79	101.0 *
10/30	1742	RAH	Arsenic	0.0080 mg/L		EPA 200.8	1.97	100.0 *
10/30	1742	RAH	Selenium	< 0.0100 mg/L		EPA 200.8	4.09	107.2 *
10/27	1209	DWC	Specific Conductance	196.000 U MHOS		EPA 120.1	0.00	N/A
10/30	1742	RAH	Cadmium	0.0060 mg/L		EPA 200.8	6.55	95.4 *
10/30	1553	RAH	Mercury	< 0.0010 mg/L		EPA 245.1	0.78	101.4 *
10/30	1742	RAH	Lead	< 0.0100 mg/L		EPA 200.8	10.62	91.1 *
10/29	0815	NTR	Nitrate + Nitrite	2.41 mg/L		SM 2000 4500-NO3 E	1.18	93.8 *

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

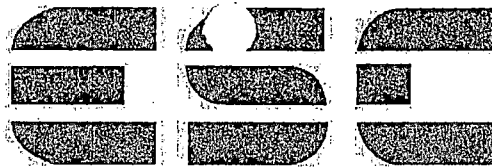
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Signature _____

Missy Berg
 Environmental Services Co., Inc.

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

CHAIN OF CUSTODY

Client Information						Project Information					Requested Parameters											
Company Name: 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 #:																
Telephone: 501-745-4320						Sampler Name(s): <i>Daniel Keeling</i>																
Contact: Mr. Isaac Keeling						and Signature(s): <i>I. Keeling</i>																
FAX: 501-745-2164																						
ESC Client Number: 619																						
Sample Identification		Sample Collection				Sample Containers																
Identification	ESC Control #	Date	Time	Type	Matrix	Type	Volume	Preservative	#													
Irrigation Water	1410010536	10/27/14	1204	Grab	Wwater	Plastic	1/2 Gal	Cool ≤ 6° C	1	X												
	/	/	/	Grab	Wwater	Plastic	1 Liter	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 type="checkbox"/>		Intact? <input type="checkbox"/>										
Relinquished By: (Signature and Printed Name)		Date	Time	Received By: (Signature and Printed Name)		Date	Time	Turnaround:		Regular <input checked="" type="checkbox"/>		Special <input type="checkbox"/>										
Relinquished By: (Signature and Printed Name)		Date	Time	Received for Lab. By: (Signature and Printed Name)		Date	Time	Were samples properly preserved:		Yes <input checked="" type="checkbox"/>		No <input type="checkbox"/>										
Comments: Metals: Hg(50.15), Cu(29.HW), Zn(30.HW), As(33.HW), Se(34.HW)		Flow Data		Field Test	Time	Analyst	Result	Result	Units													
Cd(48.HW), Pb(82.HW)				pH:	1204	DWC	7.3	7.3	S.U.													
				Conduct:	1204	DWC	196.0	196.0	UMHOS													
				Reading:																		
				Units:																		
				Fecal Start:						This Document is Page 1 of 1												

CPS

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

Control Number: 1402010395
 Customer Name : CLINTON, EAST 40.24 LA PB 3
 Customer Number : 3004
 Report Date : 03/21/14

Sample Date : 02/24/14
 Sample Time : 1211
 Sample Type : GRAB SOIL
 Sample From : EAST LA 40.24 PB3

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

Laboratory Analysis

Analysis							Quality Assurance		
Date	Time	By	Parameter	Result	Notes	Quantity	Method	Precision % RPD	Accuracy % Recovery
03/06	1000	NTR	Ammonia Nitrogen	< 3.0310 mg/kg			SM 18th 4500-NH3 E	0.51	98.0 *
03/18	1255	RAH	Mercury	< 0.1155 mg/Kg			SW-846 7471	3.17	107.3 *
02/28	1100	NTR	Nitrate Nitrogen	2.193 mg/kg			EPA 9200	0.33	91.7 *
02/28	1100	NTR	Phosphorous, Total (as P)	414.7953 mg/kg			EPA 365.3	1.30	97.1
03/07	1535	RAH	Magnesium	448.00 mg/Kg			SW-846 6020A	2.91	99.1 *
03/07	1535	RAH	Potassium	346.00 mg/Kg			SW-846 6020A	1.85	96.4 *
02/25	0730	NTR	pH Soil	6.23 S.U.			SW846 9045C	0.96	N/A
03/07	1535	RAH	Nickel	8.00 mg/Kg			SW-846 6020A	4.51	98.0 *
03/07	1535	RAH	Copper	< 2.50 mg/Kg			SW-846 6020A	6.05	95.6 *
03/07	1535	RAH	Zinc	24.00 mg/Kg			SW-846 6020A	1.61	106.5 *
03/06	1310	NTR	Nitrogen, Plant Available	2.19 mg/kg			33 MSA 2nd Ed	4.44	90.4
03/07	1535	RAH	Arsenic	5.50 mg/Kg			SW-846 6020A	3.31	103.4 *
02/25	0730	NTR	Specific Conductance	169.0000 UMHOS			EPA (MOD)9050A	2.34	N/A
03/07	1535	RAH	Cadmium	< 2.50 mg/Kg			SW-846 6020A	9.94	100.9 *
03/07	1535	RAH	Lead	3.00 mg/Kg			SW-846 6020A	4.38	87.0 *

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Signature _____

[Handwritten 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: 1402010396
 Customer Name : CLINTON, EAST 40.24 LA PB 30
 Customer Number : 3003
 Report Date : 03/21/14

Sample Date : 02/24/14
 Sample Time : 1216
 Sample Type : GRAB SOIL
 Sample From : EAST LA 40.24 PB30


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

Laboratory Analysis

Analysis							Quality Assurance		
Date	Time	By	Parameter	Result	Notes	Quantity	Method	Precision % RPD	Accuracy % Recovery
03/06	1000	NTR	Ammonia Nitrogen	< 3.4340 mg/kg			SM 18th 4500-NH3 E	0.51	98.0 *
03/18	1255	RAH	Mercury	< 0.1211 mg/Kg			SW-846 7471	3.17	107.3 *
02/28	1100	NTR	Nitrate Nitrogen	6.482 mg/kg			EPA 9200	0.33	91.7 *
02/28	1100	NTR	Phosphorous, Total (as P)	723.1149 mg/kg			EPA 365.3	1.30	97.1 *
03/07	1535	RAH	Magnesium	544.00 mg/Kg			SW-846 6020A	2.91	99.1 *
03/07	1535	RAH	Potassium	324.50 mg/Kg			SW-846 6020A	1.85	96.4 *
02/25	0730	NTR	pH Soil	5.71 S.U.			SW846 9045C	0.96	N/A *
03/07	1535	RAH	Nickel	13.00 mg/Kg			SW-846 6020A	4.51	98.0 *
03/07	1535	RAH	Copper	4.50 mg/Kg			SW-846 6020A	6.05	95.6 *
03/07	1535	RAH	Zinc	28.50 mg/Kg			SW-846 6020A	1.61	106.5 *
03/06	1310	NTR	Nitrogen, Plant Available	6.48 mg/kg			33 MSA 2nd Ed	4.44	90.4 *
03/07	1535	RAH	Arsenic	7.00 mg/Kg			SW-846 6020A	3.31	103.4 *
02/25	0730	NTR	Specific Conductance	33.4000 UMHOS			EPA (MOD)9050A	2.34	N/A *
03/07	1535	RAH	Cadmium	< 2.50 mg/Kg			SW-846 6020A	9.94	100.9 *
03/07	1535	RAH	Lead	9.00 mg/Kg			SW-846 6020A	4.38	87.0 *

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

Control Number: 1402010397
 Customer Name : CLINTON, EAST 55.57 LA PB 10
 Customer/Permit No. : 511 / AR0048836 001
 Report Date : 03/21/14

Sample Date : 02/24/14
 Sample Time : 1221
 Sample Type : GRAB SOIL
 Sample From : EAST LA 55.57 PB10

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

Laboratory Analysis

Analysis							Quality Assurance		
Date	Time	By	Parameter	Result	Notes	Quantity	Method	Precision % RPD	Accuracy % Recovery
03/06	1000	NTR	Ammonia Nitrogen	< 3.4302 mg/kg			SM 18th 4500-NH3 E	0.51	98.0 *
03/18	1255	RAH	Mercury	< 0.1231 mg/Kg			SW-846 7471	3.17	107.3 *
02/28	1100	NTR	Nitrate Nitrogen	2.888 mg/kg			EPA 9200	0.33	91.7 *
02/28	1100	NTR	Phosphorous, Total (as P)	424.6103 mg/kg			EPA 365.3	1.30	97.1 *
03/07	1535	RAH	Magnesium	638.00 mg/Kg			SW-846 6020A	2.91	99.1 *
03/07	1535	RAH	Potassium	443.50 mg/Kg			SW-846 6020A	1.85	96.4 *
02/25	0730	NTR	pH Soil	5.96 S.U.			SW846 9045C	0.96	N/A *
03/07	1535	RAH	Nickel	12.50 mg/Kg			SW-846 6020A	4.51	98.0 *
03/07	1535	RAH	Copper	4.00 mg/Kg			SW-846 6020A	6.05	95.6 *
03/07	1535	RAH	Zinc	4.50 mg/Kg			SW-846 6020A	1.61	106.5 *
03/06	1310	NTR	Nitrogen, Plant Available	2.89 mg/kg			33 MSA 2nd Ed	4.44	90.4 *
03/07	1535	RAH	Arsenic	7.50 mg/Kg			SW-846 6020A	3.31	103.4 *
02/25	0730	NTR	Specific Conductance	39.9000 UMHOS			EPA (MOD)9050A	2.34	N/A *
03/07	1535	RAH	Cadmium	< 2.50 mg/Kg			SW-846 6020A	9.94	100.9 *
03/07	1535	RAH	Lead	11.50 mg/Kg			SW-846 6020A	4.38	87.0 *

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Control Number: 1402010398
 Customer Name : CLINTON, EAST 55.57 LA PB 3
 Customer Number : 3002
 Report Date : 03/21/14

Sample Date : 02/24/14
 Sample Time : 1224
 Sample Type : GRAB SOIL
 Sample From : EAST LA 55.57 PB3

Collected By: NTR
 Delivery By : NTR
 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>
03/06	1000	NTR	Ammonia Nitrogen	< 2.8410 mg/kg		SM 18th 4500-NH3 E	0.51	98.0 *
03/18	1255	RAH	Mercury	< 0.1149 mg/Kg		SW-846 7471	3.17	107.3 *
02/28	1100	NTR	Nitrate Nitrogen	4.105 mg/kg		EPA 9200	0.33	91.7 *
02/28	1100	NTR	Phosphorous, Total (as P)	582.8862 mg/kg		EPA 365.3	1.30	97.1 *
03/07	1535	RAH	Magnesium	605.50 mg/Kg		SW-846 6020A	2.91	99.1 *
03/07	1535	RAH	Potassium	386.50 mg/Kg		SW-846 6020A	1.85	96.4 *
02/25	0730	NTR	pH Soil	5.88 S.U.		SW846 9045C	0.96	N/A *
03/07	1535	RAH	Nickel	12.00 mg/Kg		SW-846 6020A	4.51	98.0 *
03/07	1535	RAH	Copper	3.50 mg/Kg		SW-846 6020A	6.05	95.6 *
03/07	1535	RAH	Zinc	35.50 mg/Kg		SW-846 6020A	1.61	106.5 *
03/06	1310	NTR	Nitogen, Plant Available	4.11 mg/kg		33 MSA 2nd Ed	4.44	90.4 *
03/07	1535	RAH	Arsenic	7.00 mg/Kg		SW-846 6020A	3.31	103.4 *
02/25	0730	NTR	Specific Conductance	34.1000 UMHOS		EPA (MOD)9050A	2.34	N/A *
03/07	1535	RAH	Cadmium	< 2.50 mg/Kg		SW-846 6020A	9.94	100.9 *
03/07	1535	RAH	Lead	9.50 mg/Kg		SW-846 6020A	4.38	87.0 *

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 Environmental Services Co., Inc.

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 13715 West Markham
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Northwest Arkansas Branch
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 Springdale, AR 72762
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Control Number: 1402010399
 Customer Name : CLINTON, EAST 55.57 LA PB 30
 Customer Number : 3001
 Report Date : 03/21/14

Sample Date : 02/24/14
 Sample Time : 1228
 Sample Type : GRAB SOIL
 Sample From : EAST LA 55.57 PB30

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

Laboratory Analysis

Analysis							Quality Assurance		
Date	Time	By	Parameter	Result	Notes	Quantity	Method	Precision % RPD	Accuracy % Recovery
03/06	1000	NTR	Ammonia Nitrogen	< 3.3140 mg/kg			SM 18th 4500-NH3 E	0.51	98.0 *
03/18	1255	RAH	Mercury	< 0.1211 mg/Kg			SW-846 7471	3.17	107.3 *
02/28	1100	NTR	Nitrate Nitrogen	2.461 mg/kg			EPA 9200	0.33	91.7 *
02/28	1100	NTR	Phosphorous, Total (as P)	430.5150 mg/kg			EPA 365.3	1.30	97.1 *
03/07	1535	RAH	Magnesium	495.00 mg/Kg			SW-846 6020A	2.91	99.1 *
03/07	1535	RAH	Potassium	555.50 mg/Kg			SW-846 6020A	1.85	96.4 *
02/25	0730	NTR	pH Soil	6.61 S.U.			SW846 9045C	0.96	N/A *
03/07	1535	RAH	Nickel	7.50 mg/Kg			SW-846 6020A	4.51	98.0 *
03/07	1535	RAH	Copper	4.00 mg/Kg			SW-846 6020A	6.05	95.6 *
03/07	1535	RAH	Zinc	30.00 mg/Kg			SW-846 6020A	1.61	106.5 *
03/06	1310	NTR	Nitogen, Plant Available	2.46 mg/kg			33 MSA 2nd Ed	4.44	90.4 *
03/07	1535	RAH	Arsenic	6.50 mg/Kg			SW-846 6020A	3.31	103.4 *
02/25	0730	NTR	Specific Conductance	33.6000 UMHOS			EPA (MOD) 9050A	2.34	N/A *
03/07	1535	RAH	Cadmium	< 2.50 mg/Kg			SW-846 6020A	9.94	100.9 *
03/07	1535	RAH	Lead	7.00 mg/Kg			SW-846 6020A	4.38	87.0 *

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 1107 Century Avenue
 Springdale, AR 72762
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Control Number: 1402010400
 Customer Name : CLINTON, EAST LA AIRPORT9
 Customer Number : 2959
 Report Date : 03/21/14

Sample Date : 02/24/14
 Sample Time : 1234
 Sample Type : GRAB SOIL
 Sample From : EAST LA AIRPORT 9

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

Laboratory Analysis

Analysis							Quality Assurance		
Date	Time	By	Parameter	Result	Notes	Quantity	Method	Precision % RPD	Accuracy % Recovery
03/06	1000	NTR	Ammonia Nitrogen	< 3.3312 mg/kg			SM 18th 4500-NH3 E	0.51	98.0 *
03/18	1255	RAH	Mercury	< 0.1225 mg/Kg			SW-846 7471	3.17	107.3 *
02/28	1100	NTR	Nitrate Nitrogen	4.516 mg/kg			EPA 9200	0.33	91.7 *
02/28	1100	NTR	Phosphorous, Total (as P)	535.2563 mg/kg			EPA 365.3	1.30	97.1 *
03/07	1535	RAH	Magnesium	70.00 mg/Kg			SW-846 6020A	2.91	99.1 *
03/07	1535	RAH	Potassium	381.00 mg/Kg			SW-846 6020A	1.85	96.4 *
02/25	0730	NTR	pH Soil	5.66 S.U.			SW846 9045C	0.96	N/A *
03/07	1535	RAH	Nickel	11.50 mg/Kg			SW-846 6020A	4.51	98.0 *
03/07	1535	RAH	Copper	5.50 mg/Kg			SW-846 6020A	6.05	95.6 *
03/07	1535	RAH	Zinc	34.00 mg/Kg			SW-846 6020A	1.61	106.5 *
03/06	1310	NTR	Nitogen, Plant Available	4.52 mg/kg			33 MSA 2nd Ed	4.44	90.4 *
03/07	1535	RAH	Arsenic	7.50 mg/Kg			SW-846 6020A	3.31	103.4 *
02/25	0730	NTR	Specific Conductance	34.9000 UMHOS			EPA (MOD)9050A	2.34	N/A *
03/07	1535	RAH	Cadmium	< 2.50 mg/Kg			SW-846 6020A	9.94	100.9 *
03/07	1535	RAH	Lead	10.50 mg/Kg			SW-846 6020A	4.38	87.0 *

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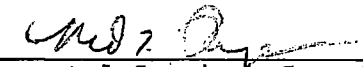
Northwest Arkansas Branch
 1107 Century Avenue
 Springdale, AR 72762
 Tel. (479)750-1170 Fax (479)750-1172

Control Number: 1402010401	Sample Date : 02/24/14	Collected By: NTR
Customer Name : CLINTON, EAST LA WD13	Sample Time : 1241	Delivery By : NTR
Customer Number : 2960	Sample Type : GRAB SOIL	Work Order :
Report Date : 03/21/14	Sample From : EAST LA WD13	Purchase Order :

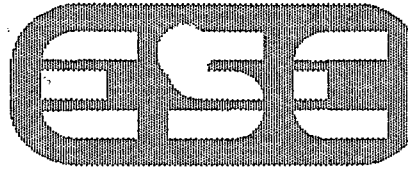
<u>Laboratory Analysis</u>							<u>Quality Assurance</u>	
<u>Analysis</u>			<u>Result</u>	<u>Notes</u>	<u>Quantity</u>	<u>Method</u>	<u>Precision</u>	<u>Accuracy</u>
<u>Date</u>	<u>Time</u>	<u>By</u>					<u>Parameter</u>	<u>% RPD</u>
03/06	1000	NTR	Ammonia Nitrogen	< 2.9750 mg/kg		SM 18th 4500-NH3 E	0.51	98.0 *
03/18	1255	RAH	Mercury	< 0.1170 mg/Kg		SW-846 7471	3.17	107.3 *
02/28	1100	NTR	Nitrate Nitrogen	3.011 mg/kg		EPA 9200	0.33	91.7 *
02/28	1100	NTR	Phosphorous, Total (as P)	458.6395 mg/kg		EPA 365.3	1.30	97.1 *
03/07	1535	RAH	Magnesium	383.50 mg/Kg		SW-846 6020A	2.91	99.1 *
03/07	1535	RAH	Potassium	239.50 mg/Kg		SW-846 6020A	1.85	96.4 *
02/25	0730	NTR	pH Soil	5.27 S.U.		SW846 9045C	0.96	N/A *
03/07	1535	RAH	Nickel	8.50 mg/Kg		SW-846 6020A	4.51	98.0 *
03/07	1535	RAH	Copper	3.00 mg/Kg		SW-846 6020A	6.05	95.6 *
03/07	1535	RAH	Zinc	16.50 mg/Kg		SW-846 6020A	1.61	106.5 *
03/06	1310	NTR	Nitogen, Plant Available	3.01 mg/kg		33 MSA 2nd Ed	4.44	90.4 *
03/07	1535	RAH	Arsenic	6.00 mg/Kg		SW-846 6020A	3.31	103.4 *
02/25	0730	NTR	Specific Conductance	50.1000 UMHOS		EPA (MOD) 9050A	2.34	N/A *
03/07	1535	RAH	Cadmium	< 2.50 mg/Kg		SW-846 6020A	9.94	100.9 *
03/07	1535	RAH	Lead	7.00 mg/Kg		SW-846 6020A	4.38	87.0 *

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 website: www.esclabs.com



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CHAIN OF CUSTODY

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

Client Information						Project Information					Requested Parameters							
Company Name: 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.M0)	Ammonia(01.1), PAN(33-AN)				
Address: P.O. Box 277						Purchase Order #:												
Clinton, AR 72031						Work Order #												
Telephone: 501-745-4320						Sampler Name(s): Ned T Ryerson												
Contact: Mr. Isaac Keeling						and Signature(s): <i>Ned T Ryerson</i>												
FAX: 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)	1402010395	2-24-14	1211	Grab	Soil	Glass	1 Liter	Cool ≤ 6° C	1	X	X	X	X					
East LA 40.24 PB30 (3003)	1402010396	2-24-14	1216	Grab	Soil	Glass	1 Liter	Cool ≤ 6° C	1	X	X	X	X					
East LA 55.57 PB10 (511)	1402010397	2-24-14	1221	Grab	Soil	Glass	1 Liter	Cool ≤ 6° C	1	X	X	X	X					
East LA 55.57 PB3 (3002)	1402010398	2-24-14	1224	Grab	Soil	Glass	1 Liter	Cool ≤ 6° C	1	X	X	X	X					
East LA 55.57 PB30 (3001)	1402010399	2-24-14	1228	Grab	Soil	Glass	1 Liter	Cool ≤ 6° C	1	X	X	X	X					
East LA Airport9 (2959)	1402010400	2-24-14	1234	Grab	Soil	Glass	1 Liter	Cool ≤ 6° C	1	X	X	X	X					
East LA WD13 (2960)	1402010401	2-24-14	1241	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:									
<i>Ned Ryerson - Ned Ryerson</i>		2-24-14	1645						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>Ned Ryerson - Ned Ryerson</i>			2-24-14	1645	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>									
						Flow Data	Field Test	Time	Analyst	Result	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 1 of 2												

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 13715 West Markham
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 Tel. (501)221-2565 Fax (501)221-1341

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

Control Number: 1402010315
 Customer Name : CLINTON, EAST GW13
 Customer/Permit No. : 507 / AR0048836 001
 Report Date : 02/27/14

Sample Date : 02/20/14
 Sample Time : 0858
 Sample Type : GRAB WATER
 Sample From : WELL #13

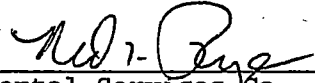
Collected By: MCH
 Delivery By : MCH
 Work Order :
 Purchase Order :

Laboratory Analysis

Analysis							Quality Assurance		
Date	Time	By	Parameter	Result	Notes	Quantity	Method	Precision % RPD	Accuracy % Recovery
02/24	1300	NTR	Chloride (as Cl)	50.0 mg/L			1997 4500-Cl-C	0.00	100.0
02/20	0858	MCH	pH	6.9 S.U.			2000 4500 H+B	0.00	N/A *
02/21	1930	NTR	Solids, Total Dissolved	101.0 mg/L			1997 2540 C	1.98	N/A
02/20	0858	MCH	Specific Conductance	265.000 U MHOS			EPA 120.1	0.53	N/A *
02/25	1415	NTR	Nitrate + Nitrite	2.95 mg/L			2000 4500-NO3 E	1.11	99.6 *
02/20	0858	MCH	Well Depth, Total	15.40 Feet				N/A	N/A
02/20	0858	MCH	Depth to Water	10.40 Feet				N/A	N/A

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

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Signature 
 Environmental Services Co., Inc.

Environmental Services Company, Inc.

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 Springdale, AR 72762
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Control Number: 1402010316
 Customer Name : CLINTON, EAST GW14
 Customer/Permit No. : 508 / AR0048836 001
 Report Date : 02/27/14

Sample Date : 02/20/14
 Sample Time : 0912
 Sample Type : GRAB WATER
 Sample From : WELL #14

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

Laboratory Analysis

Analysis							Quality Assurance		
Date	Time	By	Parameter	Result	Notes	Quantity	Method	Precision % RPD	Accuracy % Recovery
02/24	1300	NTR	Chloride (as Cl)	35.0 mg/L			1997 4500-Cl-C	0.00	100.0 *
02/20	0913	MCH	pH	6.8 S.U.			2000 4500 H+B	0.00	N/A *
02/21	1930	NTR	Solids, Total Dissolved	98.0 mg/L			1997 2540 C	1.98	N/A *
02/20	0913	MCH	Specific Conductance	150.000 U MHOS			EPA 120.1	0.53	N/A *
02/25	1415	NTR	Nitrate + Nitrite	0.80 mg/L			2000 4500-NO3 E	1.11	99.6 *
02/20	0912	MCH	Well Depth, Total	13.10 Feet				N/A	N/A
02/20	0912	MCH	Depth to Water	9.50 Feet				N/A	N/A

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Signature _____

[Handwritten Signature]
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Control Number: 1402010317
 Customer Name : CLINTON, EAST GW16
 Customer/Permit No. : 509 / AR0048836 001
 Report Date : 02/27/14

Sample Date : 02/20/14
 Sample Time : 0928
 Sample Type : GRAB WATER
 Sample From : WELL #16

Collected By: MCH
 Delivery By : MCH
 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>
02/24	1300	NTR	Chloride (as Cl)	50.0 mg/L			1997 4500-Cl-C	0.00	100.0 *
02/20	0928	MCH	pH	6.4 S.U.			2000 4500 H+B	0.00	N/A *
02/21	1930	NTR	Solids, Total Dissolved	88.0 mg/L			1997 2540 C	1.98	N/A *
02/20	0928	MCH	Specific Conductance	73.600 U MHOS			EPA 120.1	0.53	N/A *
02/25	1415	NTR	Nitrate + Nitrite	< 0.05 mg/L			2000 4500-NO3 E	1.09	100.7
02/20	0928	MCH	Well Depth, Total	14.00 Feet				N/A	N/A
02/20	0928	MCH	Depth to Water	11.00 Feet				N/A	N/A

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Control Number: 1402010318
 Customer Name : CLINTON, EAST GW17
 Customer/Permit No. : 649 / AR0048747 001
 Report Date : 02/27/14

Sample Date : 02/20/14
 Sample Time : 0940
 Sample Type : GRAB WATER
 Sample From : WELL #17

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

Laboratory Analysis

Analysis							Quality Assurance		
Date	Time	By	Parameter	Result	Notes	Quantity	Method	Precision % RPD	Accuracy % Recovery
02/24	1300	NTR	Chloride (as Cl)	30.0 mg/L			1997 4500-Cl-C	0.00	100.0 *
02/20	0940	MCH	pH	6.0 S.U.			2000 4500 H+B	0.00	N/A *
02/21	1930	NTR	Solids, Total Dissolved	56.0 mg/L			1997 2540 C	1.98	N/A *
02/20	0940	MCH	Specific Conductance	80.100 U MHOS			EPA 120.1	0.53	N/A *
02/25	1415	NTR	Nitrate + Nitrite	0.06 mg/L			2000 4500-NO3 E	1.09	100.7 *
02/20	0940	MCH	Well Depth, Total	17.60 Feet				N/A	N/A
02/20	0940	MCH	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): Mike Hinkle
 and Signature: Mike Hinkle

Sample Date: 2-20-14

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		
Clinton East Wells																		
#13 (507)	1402010315	858	10.4	15' 4"	6.4	6.4	6.4	858	265	262	264	858	58	57	56	858	X	X
#14 (508)	316	912	9.5	13' 1"	6.9	6.7	6.6	913	180	140	149	913	60	58	57	913	X	X
#16 (509)	317	928	11.7	14' 0"	6.4	6.5	6.6	928	736	740	750	928	56	54	53	928	X	X
#17 (649)	318	940	12.0	17' 6"	6.0	6.1	6.3	940	901	900	790	940	60	58	57	940	X	X

Relinquished by: Mike Hinkle Time: 1500 Received By Lab: Mike Hinkle Date: 2-20-14 Time: 1500

Comments:

gww

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Control Number: 1406010529
 Customer Name : CLINTON, EAST GW13
 Customer/Permit No. : 507 / AR0048836 001
 Report Date : 07/01/14

Sample Date : 06/23/14
 Sample Time : 0820
 Sample Type : GRAB WATER
 Sample From : WELL #13

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

Laboratory Analysis

Analysis						Quality Assurance			
Date	Time	By	Parameter	Result	Notes	Quantity	Method	Precision % RPD	Accuracy % Recovery
06/27	0800	NTR	Chloride (as Cl)	45.0 mg/L			1997 4500-Cl-C	0.00	100.0 *
06/23	0820	DWC	pH	5.7 S.U.			SM 2000 4500-H+B	0.00	N/A *
06/27	1830	NTR	Solids, Total Dissolved	126.0 mg/L			SM 1997 2540 C	9.52	N/A
06/23	0820	DWC	Specific Conductance	158.900 U MHOS			EPA 120.1	0.00	N/A *
06/30	1100	NTR	Nitrate + Nitrite	2.63 mg/L			SM 2000 4500-NO3 E	0.71	98.5 *
06/23	0820	DWC	Well Depth, Total	15.40 Feet				N/A	N/A
06/23	0820	DWC	Depth to Water	9.00 Feet				N/A	N/A

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Signature


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

Control Number: 1406010530
 Customer Name : CLINTON, EAST GW14
 Customer/Permit No. : 508 / AR0048836 001
 Report Date : 07/01/14

Sample Date : 06/23/14
 Sample Time : 0832
 Sample Type : GRAB WATER
 Sample From : WELL #14

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

Laboratory Analysis

Analysis						Quality Assurance			
Date	Time	By	Parameter	Result	Notes	Quantity	Method	Precision % RPD	Accuracy % Recovery
06/27	0800	NTR	Chloride (as Cl)	30.0 mg/L			1997 4500-Cl-C	0.00	100.0 *
06/23	0832	DWC	pH	6.0 S.U.			SM 2000 4500-H+B	0.00	N/A *
06/27	1830	NTR	Solids, Total Dissolved	110.0 mg/L			SM 1997 2540 C	9.52	N/A *
06/23	0832	DWC	Specific Conductance	147.500 U MHOS			EPA 120.1	0.00	N/A *
06/30	1100	NTR	Nitrate + Nitrite	0.61 mg/L			SM 2000 4500-NO3 E	0.71	98.5 *
06/23	0832	DWC	Well Depth, Total	13.10 Feet				N/A	N/A
06/23	0832	DWC	Depth to Water	9.20 Feet				N/A	N/A

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Signature Neil Peterson
 Environmental Services Co., Inc.

Environmental Services Company, Inc.

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 Springdale, AR 72762
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Control Number: 1406010531
 Customer Name : CLINTON, EAST GW16
 Customer/Permit No. : 509 / AR0048836 001
 Report Date : 07/01/14

Sample Date : 06/23/14
 Sample Time : 0852
 Sample Type : GRAB WATER
 Sample From : WELL #16

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

Laboratory Analysis

<u>Analysis</u>			<u>Laboratory Analysis</u>				<u>Quality Assurance</u>		
<u>Date</u>	<u>Time</u>	<u>By</u>	<u>Parameter</u>	<u>Result</u>	<u>Notes</u>	<u>Quantity</u>	<u>Method</u>	<u>Precision</u>	<u>Accuracy</u>
								<u>% RPD</u>	<u>% Recovery</u>
06/27	0800	NTR	Chloride (as Cl)	50.0 mg/L			1997 4500-Cl-C	0.00	100.0 *
06/23	0852	DWC	pH	6.6 S.U.			SM 2000 4500-H+B	0.00	N/A *
06/27	1830	NTR	Solids, Total Dissolved	90.0 mg/L			SM 1997 2540 C	9.52	N/A *
06/23	0852	DWC	Specific Conductance	267.000 U MHOS			EPA 120.1	0.00	N/A *
06/30	1100	NTR	Nitrate + Nitrite	< 0.05 mg/L			SM 2000 4500-NO3 E	0.71	98.5 *
06/23	0852	DWC	Well Depth, Total	14.00 Feet				N/A	N/A
06/23	0852	DWC	Depth to Water	9.80 Feet				N/A	N/A

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Signature Neil P. Pyles
 Environmental Services Co., Inc.

Environmental Services Company, Inc.

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

Control Number: 1406010529
 Customer Name : CLINTON, EAST GW13
 Customer/Permit No. : 507 / AR0048836 001
 Report Date : 07/01/14

Sample Date : 06/23/14
 Sample Time : 0820
 Sample Type : GRAB WATER
 Sample From : WELL #13

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

Laboratory Analysis

Analysis							Quality Assurance		
Date	Time	By	Parameter	Result	Notes	Quantity	Method	Precision % RPD	Accuracy % Recovery
06/27	0800	NTR	Chloride (as Cl)	45.0 mg/L			1997 4500-Cl-C	0.00	100.0 *
06/23	0820	DWC	pH	5.7 S.U.			SM 2000 4500-H+B	0.00	N/A *
06/27	1830	NTR	Solids, Total Dissolved	126.0 mg/L			SM 1997 2540 C	9.52	N/A
06/23	0820	DWC	Specific Conductance	158.900 U MHOS			EPA 120.1	0.00	N/A *
06/30	1100	NTR	Nitrate + Nitrite	2.63 mg/L			SM 2000 4500-NO3 E	0.71	98.5 *
06/23	0820	DWC	Well Depth, Total	15.40 Feet				N/A	N/A
06/23	0820	DWC	Depth to Water	9.00 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
 99.9 99.10

Sampler Name(s): David Calloway
 and Signature: [Signature]

Sample Date: 6/23/14

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		
Clinton Wells					#1	#2	#3	Time	#1	#2	#3	Time	#1	#2	#3	Time		
#13 (507)	1106010-529	0820	9.0	15' 4"	5.73	5.74			158.9	158.9			18.7	18.7			X	X
#14 (508)	6-530	0832	9.2	13' 1"	6.08	6.08			147.5	147.7			17.6	17.6			X	X
#16 (509)	6-531	0852	9.8	14' 0"	6.62	6.60			267	266			18.4	18.4			X	X
#17 (649)	6-532	0808	12.8	17' 6"	5.43	5.44			81.8	81.8			17.1	17.1			X	X
#1 (497)				17' 0"													X	X
#2 (498)				19' 3"													X	X
#3 (499)				14' 9"													X	X
#6 (500)				17' 7"													X	X
#7 (501)				16' 1"													X	X
#8 (502)				19' 5"													X	X
#9 (503)				16' 2"													X	X
#10 (504)				20' 0"													X	X
#11 (505)				17' 8"													X	X
#12 (506)				16' 0"													X	X
#18 (1570)				18' 2"													X	X
#19 (1571)				18' 0"													X	X

Relinquished by: David Calloway Time: 1230 Received By Lab: [Signature] Date: 6/23/14 Time: 1230

Comments:

CP

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Control Number: 1409010250
 Customer Name : CLINTON, EAST GW13
 Customer/Permit No. : 507 / AR0048836 001
 Report Date : 09/19/14

Sample Date : 09/15/14
 Sample Time : 0850
 Sample Type : GRAB WATER
 Sample From : WELL #12

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

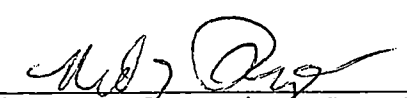
Laboratory Analysis

Analysis						Quality Assurance			
Date	Time	By	Parameter	Result	Notes	Quantity	Method	Precision	Accuracy
								% RPD	% Recovery
09/16	1430	DWC	Chloride (as Cl)	40.0 mg/L			1997 4500-Cl-C	0.00	100.0 *
09/15	0851	DWC	pH	6.0 S.U.			SM 2000 4500-H+B	0.00	N/A *
09/15	1810	NTR	Solids, Total Dissolved	116.0 mg/L			SM 1997 2540 C	0.83	N/A *
09/15	0851	DWC	Specific Conductance	222.000 U MHOS			EPA 120.1	0.00	N/A *
09/18	1000	NTR	Nitrate + Nitrite	2.56 mg/L			SM 2000 4500-NO3 E	1.01	98.2 *
09/15	0850	DWC	Well Depth, Total	15.40 Feet				N/A	N/A
09/15	0850	DWC	Depth to Water	11.00 Feet				N/A	N/A

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Signature _____


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Control Number: 1409010251
 Customer Name : CLINTON, EAST GW14
 Customer/Permit No. : 508 / AR0048836 001
 Report Date : 09/19/14

Sample Date : 09/15/14
 Sample Time : 0908
 Sample Type : GRAB WATER
 Sample From : WELL #14

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

Laboratory Analysis

Analysis			Result	Notes	Quantity	Method
Date	Time	By	Parameter			
09/16	1430	DWC	Chloride (as Cl)	40.0 mg/L		1997 4500-Cl-C
09/15	0909	DWC	pH	6.1 S.U.		SM 2000 4500-H+B
09/15	1810	NTR	Solids, Total Dissolved	134.0 mg/L		SM 1997 2540 C
09/15	0909	DWC	Specific Conductance	188.000 U MHOS		EPA 120.1
09/18	1000	NTR	Nitrate + Nitrite	0.52 mg/L		SM 2000 4500-NO3 E
09/15	0908	DWC	Well Depth, Total	13.10 Feet		
09/15	0908	DWC	Depth to Water	9.70 Feet		

Quality Assurance	
Precision	Accuracy
% RPD	% Recovery
0.00	100.0 *
0.00	N/A *
0.83	N/A *
0.00	N/A *
1.01	98.2
N/A	N/A
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: 1409010252
 Customer Name : CLINTON, EAST GW16
 Customer/Permit No. : 509 / AR0048836 001
 Report Date : 09/19/14

Sample Date : 09/15/14
 Sample Time : 0919
 Sample Type : GRAB WATER
 Sample From : WELL #16

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

Laboratory Analysis

Analysis							Quality Assurance		
Date	Time	By	Parameter	Result	Notes	Quantity	Method	Precision % RPD	Accuracy % Recovery
09/16	1430	DWC	Chloride (as Cl)	55.0 mg/L			1997 4500-Cl-C	8.70	100.0
09/15	0920	DWC	pH	5.6 S.U.			SM 2000 4500-H+B	0.00	N/A *
09/15	1810	NTR	Solids, Total Dissolved	74.0 mg/L			SM 1997 2540 C	0.83	N/A *
09/15	0920	DWC	Specific Conductance	79.600 U MHOS			EPA 120.1	0.00	N/A *
09/18	1000	NTR	Nitrate + Nitrite	< 0.05 mg/L			SM 2000 4500-NO3 E	1.01	98.2 *
09/15	0919	DWC	Well Depth, Total	14.00 Feet				N/A	N/A
09/15	0919	DWC	Depth to Water	12.90 Feet				N/A	N/A

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

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Signature _____



Environmental Services Co., Inc.

Environmental Services Company, Inc.

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: 1409010253
 Customer Name : CLINTON, EAST GW17
 Customer/Permit No. : 649 / AR0048747 001
 Report Date : 09/19/14

Sample Date : 09/15/14
 Sample Time : 0932
 Sample Type : GRAB WATER
 Sample From : WELL #17

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

Laboratory Analysis

Analysis		Laboratory Analysis				Quality Assurance		
Date	Time By	Parameter	Result	Notes	Quantity	Method	Precision % RPD	Accuracy % Recovery
09/16	1430 DWC	Chloride (as Cl)	10.0 mg/L			1997 4500-Cl-C	0.00	100.0 *
09/15	0934 DWC	pH	5.5 S.U.			SM 2000 4500-H+B	0.00	N/A *
09/15	1810 NTR	Solids, Total Dissolved	94.0 mg/L			SM 1997 2540 C	0.83	N/A *
09/15	0934 DWC	Specific Conductance	79.200 U MHOS			EPA 120.1	0.00	N/A *
09/18	1000 NTR	Nitrate + Nitrite	0.12 mg/L			SM 2000 4500-NO3 E	1.01	98.2 *
09/15	0932 DWC	Well Depth, Total	17.60 Feet				N/A	N/A
09/15	0932 DWC	Depth to Water	13.30 Feet				N/A	N/A

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Signature _____

[Handwritten Signature]
 Environmental Services Co., Inc.



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

Sampler Name(s): David Callant
 and Signature: [Signature]

Sample Date: 9/15/14

Sample Identification (Customer #)	Laboratory Control Number	Sample Time:	Depth To Water	Total Well Depth	pH				Specific Conductance				Temperature Degrees C				Cl, TDS (1L Plastic 1/6 Deg C)	NO3-N O2 (1L Plastic H2SO4)
					#1	#2	#3	Time	#1	#2	#3	Time	#1	#2	#3	Time		
Clinton East Wells					#1	#2	#3	Time	#1	#2	#3	Time	#1	#2	#3	Time		
#13 (507)	1409010250	0850	11.0	15' 4"	6.0	6.0		0851	222	222			18.9	18.8			X	X
#14 (508)	9-251	0908	9.7	13' 1"	6.1	6.0		0909	188	189			19.7	19.7			X	X
#16 (509)	9-252	0919	12.9	14' 0"	5.6	5.6		0920	79.6	79.6			20.4	20.5			X	X
#17 (649)	9-253	0932	13.3	17' 6"	5.5	5.5		0934	79.2	79.2			17.5	17.6			X	X

Relinquished by: David Callant Time: 1500 Received By Lab: Mike Hankle Date: 9/15/14 Time: 1500

Comments:

14

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

Control Number: 1410010539
 Customer Name : CLINTON, EAST GW13
 Customer/Permit No. : 507 / AR0048836 001
 Report Date : 10/30/14

Sample Date : 10/27/14
 Sample Time : 0846
 Sample Type : GRAB WATER
 Sample From : WELL #13


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

Laboratory Analysis

Analysis							Quality Assurance		
Date	Time	By	Parameter	Result	Notes	Quantity	Method	Precision	Accuracy
								% RPD	% Recovery
10/29	1030	NTR	Chloride (as Cl)	40.0 mg/L			1997 4500-Cl-C	11.76	94.4
10/27	0846	DWC	pH	5.7 S.U.			SM 2000 4500-H+B	0.00	N/A *
10/29	1330	NTR	Solids, Total Dissolved	122.0 mg/L			SM 1997 2540 C	6.56	N/A
10/27	0846	DWC	Specific Conductance	199.600 U MHOS			EPA 120.1	0.00	N/A *
10/29	0815	NTR	Nitrate + Nitrite	2.27 mg/L			SM 2000 4500-NO3 E	0.00	96.6 *
10/27	0846	DWC	Well Depth, Total	15.40 Feet				N/A	N/A
10/27	0846	DWC	Depth to Water	6.40 Feet				N/A	N/A

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Signature 
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Control Number: 1410010540
 Customer Name : CLINTON, EAST GW14
 Customer/Permit No. : 508 / AR0048836 001
 Report Date : 10/30/14

Sample Date : 10/27/14
 Sample Time : 0859
 Sample Type : GRAB WATER
 Sample From : WELL #14

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

Laboratory Analysis

Analysis				Laboratory Analysis			Quality Assurance		
Date	Time	By	Parameter	Result	Notes	Quantity	Method	Precision % RPD	Accuracy % Recovery
10/29	1030	NTR	Chloride (as Cl)	35.0 mg/L			1997 4500-Cl-C	11.76	94.4 *
10/27	0859	DWC	pH	6.1 S.U.			SM 2000 4500-H+B	0.00	N/A *
10/29	1330	NTR	Solids, Total Dissolved	140.0 mg/L			SM 1997 2540 C	6.56	N/A *
10/27	0859	DWC	Specific Conductance	190.100 U MHOS			EPA 120.1	0.00	N/A *
10/29	0815	NTR	Nitrate + Nitrite	0.62 mg/L			SM 2000 4500-NO3 E	0.00	96.6
10/27	0859	DWC	Well Depth, Total	13.10 Feet				N/A	N/A
10/27	0859	DWC	Depth to Water	9.40 Feet				N/A	N/A

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Signature _____

M. J. [Signature]
 Environmental Services Co., Inc.

Environmental Services Company, Inc.

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Control Number: 1410010541
 Customer Name : CLINTON, EAST GW16
 Customer/Permit No. : 509 / AR0048836 001
 Report Date : 10/30/14

Sample Date : 10/27/14
 Sample Time : 0914
 Sample Type : GRAB WATER
 Sample From : WELL #16

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

Laboratory Analysis

Analysis							Quality Assurance		
Date	Time	By	Parameter	Result	Notes	Quantity	Method	Precision % RPD	Accuracy % Recovery
10/29	1030	NTR	Chloride (as Cl)	60.0 mg/L			1997 4500-Cl-C	11.76	94.4 *
10/27	0914	DWC	pH	5.2 S.U.			SM 2000 4500-H+B	0.00	N/A *
10/29	1330	NTR	Solids, Total Dissolved	80.0 mg/L			SM 1997 2540 C	6.56	N/A *
10/27	0914	DWC	Specific Conductance	87.100 U MHOS			EPA 120.1	0.11	N/A *
10/29	0815	NTR	Nitrate + Nitrite	< 0.05 mg/L			SM 2000 4500-NO3 E	0.00	96.6 *
10/27	0914	DWC	Well Depth, Total	14.00 Feet				N/A	N/A
10/27	0914	DWC	Depth to Water	10.90 Feet				N/A	N/A

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

Control Number: 1410010542
 Customer Name : CLINTON, EAST GW17
 Customer/Permit No. : 649 / AR0048747 001
 Report Date : 10/30/14

Sample Date : 10/27/14
 Sample Time : 0832
 Sample Type : GRAB WATER
 Sample From : WELL #17

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


Laboratory Analysis

Analysis							Quality Assurance		
Date	Time	By	Parameter	Result	Notes	Quantity	Method	Precision % RPD	Accuracy % Recovery
10/29	1030	NTR	Chloride (as Cl)	20.0 mg/L			1997 4500-Cl-C	11.76	94.4 *
10/27	0832	DWC	pH	5.5 S.U.			SM 2000 4500-H+B	0.00	N/A *
10/29	1330	NTR	Solids, Total Dissolved	92.0 mg/L			SM 1997 2540 C	6.56	N/A *
10/27	0832	DWC	Specific Conductance	81.000 U MHOS			EPA 120.1	0.11	N/A *
10/29	0815	NTR	Nitrate + Nitrite	0.20 mg/L			SM 2000 4500-NO3 E	0.00	96.6 *
10/27	0832	DWC	Well Depth, Total	17.60 Feet				N/A	N/A
10/27	0832	DWC	Depth to Water	13.10 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): David Calhoun
 and Signature: [Signature]

Sample Date: 10/27/14

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		
Clinton East Wells					#1	#2	#3	Time	#1	#2	#3	Time	#1	#2	#3	Time		
#13 (507)	1410010539	0846	6.4	15' 4"	5.71	5.70			199.6	199.6			17.8	17.8			X	X
#14 (508)	10-540	0859	9.4	13' 1"	6.15	6.14			190.1	190.0			19.1	19.1			X	X
#16 (509)	10-541	0914	10.9	14' 0"	5.70	5.70			87.1	87.0			19.4	19.4			X	X
#17 (649)	10-542	0832	13.1	17' 6"	5.50	5.50			81.0	81.1			18.1	18.0			X	X

Relinquished by: [Signature] Time: 1400 Received By Lab: [Signature] Date: 10/27/14 Time: 1500

Comments:

**CLINTON WATER AND SEWER
EAST PLANT
ANNUAL REPORT
PERMIT AR0048836
JANUARY 2013 - DECEMBER 2013**

Clinton Water and Sewer Department
Clinton, AR
East WWTP - AR0048836
Irrigation Water
Calendar Year 2013

Parameter	Annual Concentration (mg/L)	2013 Application Data				Total Application Since 2003 Pounds/Acre
		Million Gallons/Year	Number of Acres	Gallons per Acre-Year	Pounds per Acre	
Total Kjeldahl Nitrogen	17.7800	90.29	3282.18	27,509.2	4.082	620.32
Ammonia Nitrogen	4.8150	90.29	3282.18	27,509.2	1.105	148.08
Nitrate + Nitrite Nitrogen	3.9500	90.29	3282.18	27,509.2	0.907	107.14
BOD-5	78.2500	90.29	3282.18	27,509.2	17.964	1,007.36
Arsenic	< 0.0100	90.29	3282.18	27,509.2	0.002	0.47
Cadmium	< 0.0045	90.29	3282.18	27,509.2	0.001	0.22
Copper	< 0.0165	90.29	3282.18	27,509.2	0.004	0.26
Lead	< 0.0385	90.29	3282.18	27,509.2	0.009	0.58
Mercury	< 0.0008	90.29	3282.18	27,509.2	0.000	0.09
Selenium	< 0.0075	90.29	3282.18	27,509.2	0.002	0.68
Zinc	< 0.0393	90.29	3282.18	27,509.2	0.009	4.31
Conductivity, minimum (mhos/cm)*	0.00					
Conductivity, maximum (mhos/cm)*	206.00					
pH, minimum (SU)*	0.00					
pH, maximum (SU)*	8.00					

*Current year values

Crop Grown: Bermuda Hay

Clinton Water and Sewer Department
Clinton, AR
East WWTP - AR0048836
Soil
Calendar Year 2013

Sample ID	Clinton East 40.24 LA PB 3							
Control Number	1302010184							
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	02/11/13	1.658						
Ammonia Nitrogen	02/11/13	<4.3060						
PAN	02/11/13	1.66						
Phosphorous	02/11/13	518.5342						
Potassium	02/11/13	<2.50						
Arsenic	02/11/13	10.0						
Cadmium	02/11/13	<2.50						
Copper	02/11/13	5.0						
Lead	02/11/13	27.0						
Magnesium	02/11/13	715.00						
Mercury	02/11/13	<0.1178						
Nickel	02/11/13	18.50						
Zinc	02/11/13	32.00						
Conductivity (mhos/cm)	02/11/13	154.60						
pH (SU)	02/11/13	6.61						

Clinton Water and Sewer Department
Clinton, AR
East WWTP - AR0048836
Soil
Calendar Year 2013

Sample ID	Clinton East 55.57 LA PB 10							
Control Number	1302010186							
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	02/11/13	4.324						
Ammonia Nitrogen	02/11/13	<3.3730						
PAN	02/11/13	4.32						
Phosphorous	02/11/13	355.6451						
Potassium	02/11/13	<2.50						
Arsenic	02/11/13	6.0						
Cadmium	02/11/13	<2.50						
Copper	02/11/13	<2.50						
Lead	02/11/13	14.0						
Magnesium	02/11/13	396.50						
Mercury	02/11/13	<0.1214						
Nickel	02/11/13	5.50						
Zinc	02/11/13	15.50						
Conductivity (mhos/cm)	02/11/13	44.80						
pH (SU)	02/11/13	6.29						

Clinton Water and Sewer Department
Clinton, AR
East WWTP - AR0048836
Soil
Calendar Year 2013

Sample ID	Clinton East 40.24 LA PB 30							
Control Number	1302010185							
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	02/11/13	3.789						
Ammonia Nitrogen	02/11/13	<4.170						
PAN	02/11/13	3.79						
Phosphorous	02/11/13	698.1976						
Potassium	02/11/13	<2.50						
Arsenic	02/11/13	6.0						
Cadmium	02/11/13	<2.50						
Copper	02/11/13	<2.50						
Lead	02/11/13	15.0						
Magnesium	02/11/13	349.00						
Mercury	02/11/13	<0.1241						
Nickel	02/11/13	6.0						
Zinc	02/11/13	9.50						
Conductivity (mhos/cm)	02/11/13	40.20						
pH (SU)	02/11/13	6.13						

Clinton Water and Sewer Department
Clinton, AR
East WWTP - AR0048836
Soil
Calendar Year 2013

Sample ID	Clinton East 55.57 LA PB 3							
Control Number	1302010189							
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	02/11/13	4.178						
Ammonia Nitrogen	02/11/13	<3.3980						
PAN	02/11/13	4.18						
Phosphorous	02/11/13	413.7598						
Potassium	02/11/13	<2.50						
Arsenic	02/11/13	7.50						
Cadmium	02/11/13	<2.50						
Copper	02/11/13	<2.50						
Lead	02/11/13	18.00						
Magnesium	02/11/13	494.50						
Mercury	02/11/13	<0.1247						
Nickel	02/11/13	8.50						
Zinc	02/11/13	20.50						
Conductivity (mhos/cm)	02/11/13	26.90						
pH (SU)	02/11/13	6.16						

Clinton Water and Sewer Department
Clinton, AR
East WWTP - AR0048836
Soil
Calendar Year 2013

Sample ID	Clinton East 55.57 LA PB 30							
Control Number	1302010190							
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	02/11/13	3.786						
Ammonia Nitrogen	02/11/13	<4.4923						
PAN	02/11/13	3.79						
Phosphorous	02/11/13	565.9442						
Potassium	02/11/13	<2.50						
Arsenic	02/11/13	6.50						
Cadmium	02/11/13	<2.50						
Copper	02/11/13	<2.50						
Lead	02/11/13	31.00						
Magnesium	02/11/13	352.50						
Mercury	02/11/13	<0.1171						
Nickel	02/11/13	4.00						
Zinc	02/11/13	8.00						
Conductivity (mhos/cm)	02/11/13	28.80						
pH (SU)	02/11/13	6.31						

Clinton Water and Sewer Department
Clinton, AR
East WWTP - AR0048836
Soil
Calendar Year 2013

Sample ID	Clinton East LA Airport 9							
Control Number	1302010191							
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	02/11/13	3.834						
Ammonia Nitrogen	02/11/13	<4.4339						
PAN	02/11/13	3.38						
Phosphorous	02/11/13	484.9933						
Potassium	02/11/13	<2.50						
Arsenic	02/11/13	7.0						
Cadmium	02/11/13	<2.50						
Copper	02/11/13	<2.50						
Lead	02/11/13	20.50						
Magnesium	02/11/13	404.00						
Mercury	02/11/13	<0.1204						
Nickel	02/11/13	7.0						
Zinc	02/11/13	15.50						
Conductivity (mhos/cm)	02/11/13	36.70						
pH (SU)	02/11/13	5.78						

Clinton Water and Sewer Department
Clinton, AR
East WWTP - AR0048836
Soil
Calendar Year 2013

Sample ID	Clinton East LA WD 13							
Control Number	1302010192							
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	02/11/13	4.069						
Ammonia Nitrogen	02/11/13	<4.1178						
PAN	02/11/13	4.07						
Phosphorous	02/11/13	576.4836						
Potassium	02/11/13	<2.50						
Arsenic	02/11/13	7.50						
Cadmium	02/11/13	<2.50						
Copper	02/11/13	<2.50						
Lead	02/11/13	21.00						
Magnesium	02/11/13	545.00						
Mercury	02/11/13	<0.1179						
Nickel	02/11/13	9.50						
Zinc	02/11/13	20.00						
Conductivity (mhos/cm)	02/11/13	46.60						
pH (SU)	02/11/13	5.89						

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

Control Number: 1306010137
 Customer Name : CLINTON, EAST IW
 Customer/Permit No. : 619 / AR0048836 001
 Report Date : 06/19/13

Sample Date : 06/10/13
 Sample Time : 1148
 Sample Type : GRAB WWATER
 Sample From : IRRIGATION WATER

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

Laboratory Analysis

Analysis							Quality Assurance		
Date	Time	By	Parameter	Result	Notes	Quantity	Method	Precision % RPD	Accuracy % Recovery
06/10	1515	NTR	BOD, 5-day	15.0 mg/L			SM 18th 5210B	4.64	100.5 *
06/10	1600	NTR	Ammonia Nitrogen	9.00 mg/L			SM 18th 4500-NH3 G	0.00	104.7 *
06/11	1130	NTR	Kjeldahl Nitrogen Total	34.72 mg/L			SM 18th 4500-NorgB	1.12	101.3 *
06/10	1150	DWC	pH	7.5 S.U.			SM 18 4500 H+B	0.00	N/A
06/17	1027	RAH	Copper	0.0600 mg/L			EPA 200.8	2.07	92.9 *
06/17	1027	RAH	Zinc	< 0.0040 mg/L			EPA 200.8	3.26	106.2 *
06/17	1027	RAH	Arsenic	< 0.0100 mg/L			EPA 200.8	1.64	96.0 *
06/17	1027	RAH	Selenium	< 0.0100 mg/L			EPA 200.8	4.05	105.6 *
06/10	1150	DWC	Specific Conductance	206.000 U MHOS			EPA 120.1	0.00	N/A
06/17	1027	RAH	Cadmium	0.0100 mg/L			EPA 200.8	1.45	89.1 *
06/17	1511	RAH	Mercury	< 0.001 mg/L			EPA 245.1	1.82	99.7 *
06/17	1027	RAH	Lead	0.1340 mg/L			EPA 200.8	0.07	92.2 *
06/17	1000	NTR	Nitrate + Nitrite	6.68 mg/L			SM 18th 4500-NO3 E	3.61	93.1 *

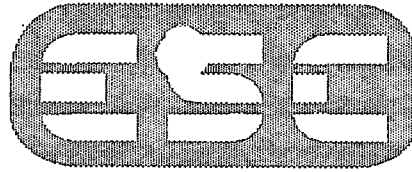
* QA data shown is from a different sample or standard on the same date.

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 _____


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 website: www.esclabs.com



Environmental Services Company, Inc.
 Northwest Branch
 1107 Century
 Springdale, AR 72762

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

CHAIN OF CUSTODY

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

Client Information				Project Information						Requested Parameters											
Company Name: Clinton, East 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 #:																	
Telephone: 501-745-4320				Sampler Name(s): David Keeling																	
Contact: Mr. Isaac Keeling				and Signature(s): David Keeling																	
FAX: 501-745-2164																					
ESC Client Number: 619																					
Sample Identification		Sample Collection				Sample Containers															
Identification	ESC Control #	Date	Time	Type	Matrix	Type	Volume	Preservative	#												
Irrigation water	1306010137	6/10/13	1148	Grab	Wwater	Plastic	1/2 Gal	Cool ≤ 6° C	1	X											
	1	1	1	Grab	Wwater	Plastic	1 Liter	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?	Intact?										
Relinquished By: (Signature and Printed Name)		Date	Time	Received By: (Signature and Printed Name)		Date	Time	Turnaround:		Regular	Special										
Relinquished By: (Signature and Printed Name)		Date	Time	Received for Lab By: (Signature and Printed Name)		Date	Time	Were samples properly preserved:		Yes	No										
								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)				Analyst:		pH:	1150	DWC	75	75	S.U.										
				Time:		Conduct:	1150	DWC	206	206	U MHOS										
				Reading:																	
				Units:																	
				Fecal Start:								This Document is Page 1 of 1									

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Environmental Services Company, Inc.

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Northwest Arkansas Branch
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Control Number: 1307010239
 Customer Name : CLINTON, EAST IW
 Customer/Permit No. : 619 / AR0048836 001
 Report Date : 07/26/13


Sample Date : 07/15/13
 Sample Time : 1138
 Sample Type : GRAB WWATER
 Sample From : IRRIGATION WATER

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

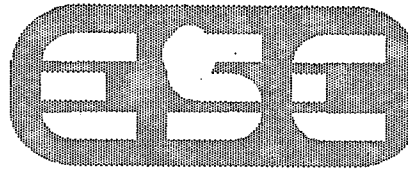
<u>Laboratory Analysis</u>							<u>Quality Assurance</u>	
<u>Analysis</u>			<u>Result</u>	<u>Notes</u>	<u>Quantity</u>	<u>Method</u>	<u>Precision</u>	<u>Accuracy</u>
<u>Date</u>	<u>Time</u>	<u>By</u>	<u>Parameter</u>				<u>% RPD</u>	<u>% Recovery</u>
07/15	1630	DWC	BOD, 5-day	288.0 mg/L		2001 5210B	9.52	92.2 *
07/16	0800	DWC	Ammonia Nitrogen	10.13 mg/L		1997 4500-NH3 G	1.08	98.8
07/17	1230	NTR	Kjeldahl Nitrogen Total	30.24 mg/L		1997 4500-NorgB	2.74	90.1 *
07/15	1140	DWC	pH	8.0 S.U.		SM 18 4500 H+B	0.00	N/A *
07/19	1024	RAH	Copper	< 0.0030 mg/L		EPA 200.8	2.68	103.9 *
07/19	1024	RAH	Zinc	0.1490 mg/L		EPA 200.8	5.20	93.0 *
07/19	1024	RAH	Arsenic	< 0.0100 mg/L		EPA 200.8	0.12	101.4 *
07/19	1024	RAH	Selenium	< 0.0100 mg/L		EPA 200.8	1.95	95.9 *
07/15	1140	DWC	Specific Conductance	174.500 U MHOS		EPA 120.1	0.00	N/A *
07/19	1024	RAH	Cadmium	< 0.0040 mg/L		EPA 200.8	0.12	99.3 *
07/25	1236	RAH	Mercury	< 0.001 mg/L		EPA 245.1	0.64	99.4 *
07/19	1024	RAH	Lead	< 0.0100 mg/L		EPA 200.8	0.62	101.9 *
07/18	1340	NTR	Nitrate + Nitrite	5.41 mg/L		2000 4500-NO3 E	1.05	94.6 *

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

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Signature 
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CHAIN OF CUSTODY

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

Client Information						Project Information					Requested Parameters								
Company Name:		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 #:													
Telephone:		501-745-4320				Sampler Name(s):		<i>Hard Cellulose</i>											
Contact:		Mr. Isaac Keeling				and Signature(s):		<i>Isaac Keeling</i>											
FAX:		501-745-2164																	
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)						
<i>Irrigation water</i>	<i>1307010239</i>	<i>7/15/13</i>	<i>1138</i>	Grab	Wwater	Plastic	1/2 Gal	Cool ≤ 6° C	1	X									
	<i>1</i>	<i>1</i>	<i>1</i>	Grab	Wwater	Plastic	1 Liter	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?	Intact?								
Relinquished By: (Signature and Printed Name)		Date	Time	Received By: (Signature and Printed Name)		Date	Time	Turnaround:		Regular	Special								
Relinquished By: (Signature and Printed Name)		Date	Time	Received for Lab By: (Signature and Printed Name)		Date	Time	Were samples properly preserved:		Yes	No								
<i>Isaac Keeling</i>		<i>7/15/13</i>	<i>1500</i>	<i>Isaac Keeling</i>		<i>7/15/13</i>	<i>1500</i>			X									
Comments: Metals: Hg(50.15), Cu(29.HW), Zn(30.HW), As(33.HW), Se(34.HW), Cd(48.HW), Pb(82.HW)						Flow Data	Field Test	Time	Analyst	Result	Result	Units							
						Analyst:	pH:	<i>1140</i>	<i>DWC</i>	<i>8.0</i>	<i>8.0</i>	S.U.							
						Time:	Conduct:	<i>1140</i>	<i>DWC</i>	<i>174.5</i>	<i>174.5</i>	U MHOS							
						Reading:													
						Units:													
						Fecal Start:				This Document is Page <i>1</i> of <i>1</i>									

OK

Environmental Services Company, Inc.

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Control Number: 1310010121
 Customer Name : CLINTON, EAST IW
 Customer/Permit No. : 619 / AR0048836 001
 Report Date : 10/14/13

Sample Date : 10/07/13
 Sample Time : 1230
 Sample Type : GRAB WWATER
 Sample From : IRRIGATION WATER

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

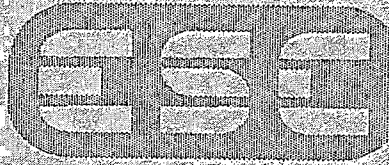
<u>Laboratory Analysis</u>							<u>Quality Assurance</u>		
<u>Analysis</u>							<u>Precision</u>	<u>Accuracy</u>	
<u>Date</u>	<u>Time</u>	<u>By</u>	<u>Parameter</u>	<u>Result</u>	<u>Notes</u>	<u>Quantity</u>	<u>Method</u>	<u>% RPD</u>	<u>% Recovery</u>
10/09	0530	NTR	BOD, 5-day	10.0 mg/L			2001 5210B	0.00	99.0 *
10/08	1500	DWC	Ammonia Nitrogen	0.13 mg/L			1997 4500-NH3 G	3.60	89.8 *
10/09	1630	NTR	Kjeldahl Nitrogen Total	6.16 mg/L			1997 4500-NorgB	1.80	96.5 *
10/07	1233	DWC	pH	7.2 S.U.			2000 4500 H+B	0.00	N/A
10/09	1016	RAH	Copper	< 0.0030 mg/L			EPA 200.8	2.62	86.1 *
10/09	1016	RAH	Zinc	< 0.0040 mg/L			EPA 200.8	1.40	107.6 *
10/09	1016	RAH	Arsenic	0.0200 mg/L			EPA 200.8	7.07	92.1 *
10/09	1016	RAH	Selenium	< 0.0100 mg/L			EPA 200.8	1.04	101.1 *
10/07	1233	DWC	Specific Conductance	190.000 U MHOS			EPA 120.1	0.00	N/A
10/09	1016	RAH	Cadmium	< 0.0040 mg/L			EPA 200.8	7.36	99.2 *
10/11	1155	RAH	Mercury	< 0.001 mg/L			EPA 245.1	5.95	103.7 *
10/09	1016	RAH	Lead	< 0.0100 mg/L			EPA 200.8	0.86	84.3 *
10/08	1130	NTR	Nitrate + Nitrite	3.71 mg/L			2000 4500-NO3 E	0.93	96.2 *

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 website: www.esclabs.com



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CHAIN OF CUSTODY

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

Client Information				Project Information							Requested Parameters									
Company Name: 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 Clinton, AR 72031				Purchase Order #:																
Telephone: 501-745-4320				Work Order #:																
Contact: Mr. Isaac Keeling				Sampler Name(s): <i>David Callout</i>																
FAX: 501-745-2164				and Signature(s): <i>David Callout</i>																
ESC Client Number: 619																				
Sample Identification		Sample Collection				Sample Containers														
Identification	ESC Control #	Date	Time	Type	Matrix	Type	Volume	Preservative	#											
<i>Irrigator water</i>	<i>1310010121</i>	<i>10/7/13</i>	<i>1230</i>	Grab	Wwater	Plastic	1/2 Gal	Cool < 6° C	1	X										
	<i>/</i>	<i>/</i>	<i>/</i>	Grab	Wwater	Plastic	1 Liter	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"/>								
Comments: Metals: Hg(50.15), Cu(29.HW), Zn(30.HW), As(33.HW), Se(34.HW), Cd(48.HW), Pb(82.HW)		Flow Data		Field Test		Time	Analyst	Result	Result	Units										
		Analyst:		pH:		<i>1233</i>	<i>DWC</i>	<i>7.22</i>	<i>7.21</i>	S.U.										
		Time:		Conduct:		<i>1203</i>	<i>DWC</i>	<i>190.0</i>	<i>190.0</i>	UMHOS										
		Reading:		Units:																
		Fecal Start:																		

CP

Environmental Services Company, Inc.

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Northwest Arkansas Branch
 1107 Century Avenue
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Control Number: 1302010184
 Customer Name : CLINTON, EAST 40.24 LA PB 3
 Customer Number : 3004
 Report Date : 03/06/13

Sample Date : 02/11/13
 Sample Time : 0956
 Sample Type : GRAB SOIL
 Sample From : EAST LA 40.24 PB3

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

<u>Laboratory Analysis</u>							<u>Quality Assurance</u>			
<u>Analysis</u>	<u>Date</u>	<u>Time</u>	<u>By</u>	<u>Parameter</u>	<u>Result</u>	<u>Notes</u>	<u>Quantity</u>	<u>Method</u>	<u>Precision</u>	<u>Accuracy</u>
									<u>% RPD</u>	<u>% Recovery</u>
	02/18	1030	NTR	Ammonia Nitrogen	< 4.3060 mg/kg			SM 18th 4500-NH3 E	0.96	94.1
	02/26	1557	RAH	Mercury	< 0.1178 mg/Kg			SW-846 7471	3.32	100.1 *
	02/18	1230	NTR	Nitrate Nitrogen	1.658 mg/kg			EPA 9200	0.91	97.8 *
	02/18	1230	NTR	Phosphorous, Total (as P)	518.5342 mg/kg			EPA 365.3	0.79	101.3
	02/14	1211	RAH	Magnesium	715.00 mg/Kg			SW-846 6020A	0.10	111.3 *
	02/14	1211	RAH	Potassium	< 2.50 mg/Kg			SW-846 6020A	0.12	111.7 *
	02/12	0700	NTR	pH Soil	6.61 S.U.			SW846 9045C	1.05	0.0
	02/14	1211	RAH	Nickel	18.50 mg/Kg			SW-846 6020A	2.25	77.1 *
	02/14	1211	RAH	Copper	5.00 mg/Kg			SW-846 6020A	2.79	82.8 *
	02/14	1211	RAH	Zinc	32.00 mg/Kg			SW-846 6020A	1.12	83.2 *
	02/19	1100	NTR	Nitrogen, Plant Available	1.66 mg/kg			33 MSA 2nd Ed	0.00	98.8
	02/14	1211	RAH	Arsenic	10.00 mg/Kg			SW-846 6020A	0.42	82.0 *
	02/12	0700	NTR	Specific Conductance	154.6000 UMHOS			EPA (MOD)9050A	1.11	0.0
	02/14	1211	RAH	Cadmium	< 2.50 mg/Kg			SW-846 6020A	0.02	85.5 *
	02/14	1211	RAH	Lead	27.00 mg/Kg			SW-846 6020A	2.32	88.0 *

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

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Signature _____



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

Control Number: 1302010185
 Customer Name : CLINTON, EAST 40.24 LA PB 30
 Customer Number : 3003
 Report Date : 03/06/13

Sample Date : 02/11/13
 Sample Time : 1006
 Sample Type : GRAB SOIL
 Sample From : EAST LA 40.24 PB30

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

Laboratory Analysis

Analysis							Quality Assurance		
Date	Time	By	Parameter	Result	Notes	Quantity	Method	Precision % RPD	Accuracy % Recovery
02/18	1030	NTR	Ammonia Nitrogen	< 4.1700 mg/kg			SM 18th 4500-NH3 E	0.96	94.1 *
02/26	1557	RAH	Mercury	< 0.1241 mg/Kg			SW-846 7471	3.32	100.1 *
02/18	1230	NTR	Nitrate Nitrogen	3.789 mg/kg			EPA 9200	0.91	97.8 *
02/18	1230	NTR	Phosphorous, Total (as P)	698.1976 mg/kg			EPA 365.3	0.79	101.3 *
02/14	1211	RAH	Magnesium	349.00 mg/Kg			SW-846 6020A	0.10	111.3 *
02/14	1211	RAH	Potassium	< 2.50 mg/Kg			SW-846 6020A	0.12	111.7 *
02/12	0700	NTR	pH Soil	6.13 S.U.			SW846 9045C	1.05	0.0 *
02/14	1211	RAH	Nickel	6.00 mg/Kg			SW-846 6020A	2.25	77.1 *
02/14	1211	RAH	Copper	< 2.50 mg/Kg			SW-846 6020A	2.79	82.8 *
02/14	1211	RAH	Zinc	9.50 mg/Kg			SW-846 6020A	1.12	83.2 *
02/19	1100	NTR	Nitrogen, Plant Available	3.79 mg/kg			33 MSA 2nd Ed	0.00	98.8 *
02/14	1211	RAH	Arsenic	6.00 mg/Kg			SW-846 6020A	0.42	82.0 *
02/12	0700	NTR	Specific Conductance	40.2000 UMHOS			EPA (MOD) 9050A	1.11	0.0 *
02/14	1211	RAH	Cadmium	< 2.50 mg/Kg			SW-846 6020A	0.02	85.5 *
02/14	1211	RAH	Lead	15.00 mg/Kg			SW-846 6020A	2.32	88.0 *

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

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Signature Neil P. Rep
 Environmental Services Co., Inc.

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Northwest Arkansas Branch
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 Tel. (479)750-1170 Fax (479)750-1172

Control Number: 1302010186
 Customer Name : CLINTON, EAST 55.57 LA PB 10
 Customer/Permit No. : 511 / AR0048836 001
 Report Date : 03/06/13

Sample Date : 02/11/13
 Sample Time : 1004
 Sample Type : GRAB SOIL
 Sample From : EAST LA 55.57 PB10

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

<u>Laboratory Analysis</u>							<u>Quality Assurance</u>			
<u>Analysis</u>	<u>Date</u>	<u>Time</u>	<u>By</u>	<u>Parameter</u>	<u>Result</u>	<u>Notes</u>	<u>Quantity</u>	<u>Method</u>	<u>Precision</u>	<u>Accuracy</u>
									<u>% RPD</u>	<u>% Recovery</u>
	02/18	1030	NTR	Ammonia Nitrogen	< 3.3730 mg/kg			SM 18th 4500-NH3 E	0.96	94.1 *
	02/26	1557	RAH	Mercury	< 0.1214 mg/Kg			SW-846 7471	3.32	100.1 *
	02/18	1230	NTR	Nitrate Nitrogen	4.324 mg/kg			EPA 9200	0.91	97.8 *
	02/18	1230	NTR	Phosphorous, Total (as P)	355.6451 mg/kg			EPA 365.3	0.79	101.3 *
	02/14	1211	RAH	Magnesium	396.50 mg/Kg			SW-846 6020A	0.10	111.3 *
	02/14	1211	RAH	Potassium	< 2.50 mg/Kg			SW-846 6020A	0.12	111.7 *
	02/12	0700	NTR	pH Soil	6.29 S.U.			SW846 9045C	1.05	0.0 *
	02/14	1211	RAH	Nickel	5.50 mg/Kg			SW-846 6020A	2.25	77.1 *
	02/14	1211	RAH	Copper	< 2.50 mg/Kg			SW-846 6020A	2.79	82.8 *
	02/14	1211	RAH	Zinc	15.50 mg/Kg			SW-846 6020A	1.12	83.2 *
	02/19	1100	NTR	Nitrogen, Plant Available	4.32 mg/kg			33 MSA 2nd Ed	0.00	98.8 *
	02/14	1211	RAH	Arsenic	6.00 mg/Kg			SW-846 6020A	0.42	82.0 *
	02/12	0700	NTR	Specific Conductance	44.8000 UMHOS			EPA (MOD) 9050A	1.11	0.0 *
	02/14	1211	RAH	Cadmium	< 2.50 mg/Kg			SW-846 6020A	0.02	85.5 *
	02/14	1211	RAH	Lead	14.00 mg/Kg			SW-846 6020A	2.32	88.0 *

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Signature _____

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Control Number: 1302010189
 Customer Name : CLINTON, EAST 55.57 LA PB 3
 Customer Number : 3002
 Report Date : 03/06/13

Sample Date : 02/11/13
 Sample Time : 1012
 Sample Type : GRAB SOIL
 Sample From : EAST LA 55.57 PB3

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


Laboratory Analysis

Analysis							Quality Assurance		
Date	Time	By	Parameter	Result	Notes	Quantity	Method	Precision % RPD	Accuracy % Recovery
02/18	1030	NTR	Ammonia Nitrogen	< 3.3980 mg/kg			SM 18th 4500-NH3 E	0.96	94.1 *
02/26	1557	RAH	Mercury	< 0.1247 mg/Kg			SW-846 7471	3.32	100.1 *
02/18	1230	NTR	Nitrate Nitrogen	4.178 mg/kg			EPA 9200	0.91	97.8 *
02/18	1230	NTR	Phosphorous, Total (as P)	413.7698 mg/kg			EPA 365.3	0.79	101.3 *
02/14	1211	RAH	Magnesium	494.50 mg/Kg			SW-846 6020A	0.10	111.3 *
02/14	1211	RAH	Potassium	< 2.50 mg/Kg			SW-846 6020A	0.12	111.7 *
02/12	0700	NTR	pH Soil	6.16 S.U.			SW846 9045C	1.05	0.0 *
02/14	1211	RAH	Nickel	8.50 mg/Kg			SW-846 6020A	2.25	77.1 *
02/14	1211	RAH	Copper	< 2.50 mg/Kg			SW-846 6020A	2.79	82.8 *
02/14	1211	RAH	Zinc	20.50 mg/Kg			SW-846 6020A	1.12	83.2 *
02/19	1100	NTR	Nitrogen, Plant Available	4.18 mg/kg			33 MSA 2nd Ed	0.00	98.8 *
02/14	1211	RAH	Arsenic	7.50 mg/Kg			SW-846 6020A	0.42	82.0 *
02/12	0700	NTR	Specific Conductance	26.9000 UMHOS			EPA (MOD)9050A	1.11	0.0 *
02/14	1211	RAH	Cadmium	< 2.50 mg/Kg			SW-846 6020A	0.02	85.5 *
02/14	1211	RAH	Lead	18.00 mg/Kg			SW-846 6020A	2.32	88.0 *

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Control Number: 1302010190
 Customer Name : CLINTON, EAST 55.57 LA PB 30
 Customer Number : 3001
 Report Date : 03/06/13

Sample Date : 02/11/13
 Sample Time : 1020
 Sample Type : GRAB SOIL
 Sample From : EAST LA 55.57 PB30

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

<u>Laboratory Analysis</u>							<u>Quality Assurance</u>			
<u>Analysis</u>	<u>Date</u>	<u>Time</u>	<u>By</u>	<u>Parameter</u>	<u>Result</u>	<u>Notes</u>	<u>Quantity</u>	<u>Method</u>	<u>Precision</u>	<u>Accuracy</u>
									<u>% RPD</u>	<u>% Recovery</u>
	02/18	1030	NTR	Ammonia Nitrogen	< 4.4923		mg/kg	SM 18th 4500-NH3 E	0.96	94.1 *
	02/26	1557	RAH	Mercury	< 0.1171		mg/Kg	SW-846 7471	3.32	100.1 *
	02/18	1230	NTR	Nitrate Nitrogen	3.786		mg/kg	EPA 9200	0.91	97.8 *
	02/18	1230	NTR	Phosphorous, Total (as P)	565.9442		mg/kg	EPA 365.3	0.79	101.3 *
	02/14	1211	RAH	Magnesium	352.50		mg/Kg	SW-846 6020A	0.10	111.3 *
	02/14	1211	RAH	Potassium	< 2.50		mg/Kg	SW-846 6020A	0.12	111.7 *
	02/12	0700	NTR	pH Soil	6.31		S.U.	SW846 9045C	1.05	0.0 *
	02/14	1211	RAH	Nickel	4.00		mg/Kg	SW-846 6020A	2.25	77.1 *
	02/14	1211	RAH	Copper	< 2.50		mg/Kg	SW-846 6020A	2.79	82.8 *
	02/14	1211	RAH	Zinc	8.00		mg/Kg	SW-846 6020A	1.12	83.2 *
	02/19	1100	NTR	Nitrogen, Plant Available	3.79		mg/kg	33 MSA 2nd Ed	0.00	98.8 *
	02/14	1211	RAH	Arsenic	6.50		mg/Kg	SW-846 6020A	0.42	82.0 *
	02/12	0700	NTR	Specific Conductance	28.8000		UMHOS	EPA (MOD) 9050A	1.11	0.0 *
	02/14	1211	RAH	Cadmium	< 2.50		mg/Kg	SW-846 6020A	0.02	85.5 *
	02/14	1211	RAH	Lead	31.00		mg/Kg	SW-846 6020A	2.32	88.0 *

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Control Number: 1302010191
 Customer Name : CLINTON, EAST LA AIRPORT9
 Customer Number : 2959
 Report Date : 03/06/13

Sample Date : 02/11/13
 Sample Time : 1027
 Sample Type : GRAB SOIL
 Sample From : EAST LA AIRPORT 9

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

<u>Laboratory Analysis</u>							<u>Quality Assurance</u>			
<u>Analysis</u>	<u>Date</u>	<u>Time</u>	<u>By</u>	<u>Parameter</u>	<u>Result</u>	<u>Notes</u>	<u>Quantity</u>	<u>Method</u>	<u>Precision</u>	<u>Accuracy</u>
									<u>% RPD</u>	<u>% Recovery</u>
Ammonia Nitrogen	02/18	1030	NTR		< 4.4339 mg/kg			SM 18th 4500-NH3 E	0.96	94.1 *
Mercury	02/26	1557	RAH		< 0.1204 mg/Kg			SW-846 7471	3.32	100.1 *
Nitrate Nitrogen	02/18	1230	NTR		3.834 mg/kg			EPA 9200	0.91	97.8 *
Phosphorous, Total (as P)	02/18	1230	NTR		484.9933 mg/kg			EPA 365.3	0.79	101.3 *
Magnesium	02/14	1211	RAH		404.00 mg/Kg			SW-846 6020A	0.10	111.3 *
Potassium	02/14	1211	RAH		< 2.50 mg/Kg			SW-846 6020A	0.12	111.7 *
pH Soil	02/12	0700	NTR		5.78 S.U.			SW846 9045C	1.05	0.0 *
Nickel	02/14	1211	RAH		7.00 mg/Kg			SW-846 6020A	2.25	77.1 *
Copper	02/14	1211	RAH		< 2.50 mg/Kg			SW-846 6020A	2.79	82.8 *
Zinc	02/14	1211	RAH		15.50 mg/Kg			SW-846 6020A	1.12	83.2 *
Nitrogen, Plant Available	02/19	1100	NTR		3.38 mg/kg			33 MSA 2nd Ed	0.00	98.8 *
Arsenic	02/14	1211	RAH		7.00 mg/Kg			SW-846 6020A	0.42	82.0 *
Specific Conductance	02/12	0700	NTR		36.7000 UMHOS			EPA (MOD) 9050A	1.11	0.0 *
Cadmium	02/14	1211	RAH		< 2.50 mg/Kg			SW-846 6020A	0.02	85.5 *
Lead	02/14	1211	RAH		20.50 mg/Kg			SW-846 6020A	2.32	88.0 *

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Control Number: 1302010192
 Customer Name : CLINTON, EAST LA WD13
 Customer Number : 2960
 Report Date : 03/06/13

Sample Date : 02/11/13
 Sample Time : 1033
 Sample Type : GRAB SOIL
 Sample From : EAST LA WD13

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

Laboratory Analysis

Analysis						Quality Assurance			
Date	Time	By	Parameter	Result	Notes	Quantity	Method	Precision % RPD	Accuracy % Recovery
02/18	1030	NTR	Ammonia Nitrogen	< 4.1178 mg/kg			SM 18th 4500-NH3 E	0.96	94.1 *
02/26	1557	RAH	Mercury	< 0.1179 mg/Kg			SW-846 7471	3.32	100.1 *
02/18	1230	NTR	Nitrate Nitrogen	4.069 mg/kg			EPA 9200	0.91	97.8 *
02/18	1230	NTR	Phosphorous, Total (as P)	576.4836 mg/kg			EPA 365.3	0.79	101.3 *
02/14	1211	RAH	Magnesium	545.00 mg/Kg			SW-846 6020A.	0.10	111.3 *
02/14	1211	RAH	Potassium	< 2.50 mg/Kg			SW-846 6020A	0.12	111.7 *
02/12	0700	NTR	pH Soil	5.89 S.U.			SW846 9045C	1.05	0.0 *
02/14	1211	RAH	Nickel	9.50 mg/Kg			SW-846 6020A	2.25	77.1 *
02/14	1211	RAH	Copper	< 2.50 mg/Kg			SW-846 6020A	2.79	82.8 *
02/14	1211	RAH	Zinc	20.00 mg/Kg			SW-846 6020A	1.12	83.2 *
02/19	1100	NTR	Nitrogen, Plant Available	4.07 mg/kg			33 MSA 2nd Ed	0.00	98.8 *
02/14	1211	RAH	Arsenic	7.50 mg/Kg			SW-846 6020A	0.42	82.0 *
02/12	0700	NTR	Specific Conductance	46.6000 UMHOS			EPA (MOD)9050A	1.11	0.0 *
02/14	1211	RAH	Cadmium	< 2.50 mg/Kg			SW-846 6020A	0.02	85.5 *
02/14	1211	RAH	Lead	21.00 mg/Kg			SW-846 6020A	2.32	88.0 *

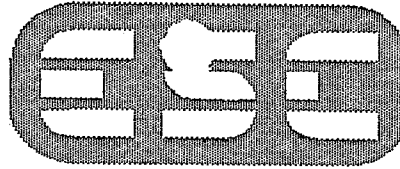
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 website: www.esclabs.com



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CHAIN OF CUSTODY

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

Client Information				Project Information						Requested Parameters						
Company Name: Clinton, City of (East Land App)				Permit/Project #:						Metals (See Comments) Nitrate Nitrogen(01.3), Phos(15) Soil pH(23.S), Spec Cond(35.MO) Ammonia(01.1), PAN(33.AN)						
Address: P.O. Box 277				Purchase Order #:												
Clinton, AR 72031				Work Order #:												
Telephone: 501-745-4320				Sampler Name(s): Ned T. Ryerson												
Contact: Mr. Isaac Keeling				and Signature(s): Ned T. Ryerson												
FAX: 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)	1302010184	2-11-13	0956	Grab	Soil	Glass	1 Liter	≤ 6 Deg C	1	X	X	X	X			
East LA 40.24 PB30 (3003)	1302010185	2-11-13	1006	Grab	Soil	Glass	1 Liter	≤ 6 Deg C	1	X	X	X	X			
East LA 55.57 PB10 (511)	1302010186	2-11-13	1004	Grab	Soil	Glass	1 Liter	≤ 6 Deg C	1	X	X	X	X			
East LA 55.57 PB3 (3002)	1302010189	2-11-13	1012	Grab	Soil	Glass	1 Liter	≤ 6 Deg C	1	X	X	X	X			
East LA 55.57 PB30 (3001)	1302010190	2-11-13	1020	Grab	Soil	Glass	1 Liter	≤ 6 Deg C	1	X	X	X	X			
East LA Airport9 (2959)	1302010191	2-11-13	1028	Grab	Soil	Glass	1 Liter	≤ 6 Deg C	1	X	X	X	X			
East LA WD13 (2960)	1302010192	2-11-13	1033	Grab	Soil	Glass	1 Liter	≤ 6 Deg C	1	X	X	X	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"/>					
Ned Ryerson - Ned Ryerson		2-11-13	1900	Ned Ryerson - Ned Ryerson		2-11-13	1900	Were samples properly preserved:	Yes	<input checked="" type="checkbox"/>	No	<input type="checkbox"/>				
Cool all samples to ≤ 6 degrees C with ice.				Flow Data	<input type="checkbox"/>	Field Test	<input type="checkbox"/>	Time	Analyst	Result	Result	Units				
Comments: Hg(01.14), Mn(12.IS), K(19.IS), Ni(28.IS), Cu(29.IS), Zn(30.IS)				Analyst:												
As(33.IS), Cd(48.IS), Pb(82.IS), P(15.IS)				Time:												
				Reading:												
				Units:												
				Chlorinated? Y N		Fecal Start:										

Directions

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Control Number: 1306010143
 Customer Name : CLINTON, EAST GW13
 Customer/Permit No. : 507 / AR0048836 001
 Report Date : 06/18/13

Sample Date : 06/10/13
 Sample Time : 0859
 Sample Type : GRAB WATER
 Sample From : WELL #13

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

Laboratory Analysis

Analysis							Quality Assurance		
<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>
06/11	1445	NTR	Chloride (as Cl)	30.0 mg/L			SM 4500-Cl-C	0.00	100.0
06/10	0900	DWC	pH	6.1 S.U.			SM 18 4500 H+B	0.00	N/A *
06/11	0830	NTR	Solids, Total Dissolved	139.0 mg/L			SM 18th 2540 C	4.32	N/A
06/10	0900	DWC	Specific Conductance	138.000 U MHOS			EPA 120.1	0.00	N/A *
06/17	1000	NTR	Nitrate + Nitrite	2.67 mg/L			SM 18th 4500-NO3 E	0.53	94.1 *
06/10	0859	DWC	Well Depth, Total	15.40 Feet				N/A	N/A
06/10	0859	DWC	Depth to Water	9.00 Feet				N/A	N/A

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Control Number: 1306010144
Customer Name : CLINTON, EAST GW14
Customer/Permit No. : 508 / AR0048836 001
Report Date : 06/18/13

Sample Date : 06/10/13
Sample Time : 0848
Sample Type : GRAB WATER
Sample From : WELL #14

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

Laboratory Analysis

<u>Analysis</u>			<u>Laboratory Analysis</u>				
<u>Date</u>	<u>Time</u>	<u>By</u>	<u>Parameter</u>	<u>Result</u>	<u>Notes</u>	<u>Quantity</u>	<u>Method</u>
06/11	1445	NTR	Chloride (as Cl)	20.0 mg/L			SM 4500-Cl-C
06/10	0849	DWC	pH	6.6 S.U.			SM 18 4500 H+B
06/11	0830	NTR	Solids, Total Dissolved	108.0 mg/L			SM 18th 2540 C
06/10	0849	DWC	Specific Conductance	128.800 U MHOS			EPA 120.1
06/17	1000	NTR	Nitrate + Nitrite	0.63 mg/L			SM 18th 4500-NO3 E
06/10	0848	DWC	Well Depth, Total	13.10 Feet			
06/10	0848	DWC	Depth to Water	8.40 Feet			

<u>Quality Assurance</u>	
<u>Precision</u>	<u>Accuracy</u>
<u>% RPD</u>	<u>% Recovery</u>
0.00	100.0 *
0.00	N/A *
4.32	N/A *
0.00	N/A *
0.53	94.1
N/A	N/A
N/A	N/A

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Control Number: 1306010145
 Customer Name : CLINTON, EAST GW16
 Customer/Permit No. : 509 / AR0048836 001
 Report Date : 06/20/13

Sample Date : 06/10/13
 Sample Time : 0832
 Sample Type : GRAB WATER
 Sample From : WELL #16

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

Laboratory Analysis

Analysis							Quality Assurance		
Date	Time	By	Parameter	Result	Notes	Quantity	Method	Precision % RPD	Accuracy % Recovery
06/11	1445	NTR	Chloride (as Cl)	50.0 mg/L			SM 4500-Cl-C	13.33	87.5 *
06/10	0834	DWC	pH	6.9 S.U.			SM 18 4500 H+B	0.00	N/A
06/11	0830	NTR	Solids, Total Dissolved	88.0 mg/L			SM 18th 2540 C	4.32	N/A *
06/10	0834	DWC	Specific Conductance	68.800 U MHOS			EPA 120.1	0.00	N/A *
06/17	1000	NTR	Nitrate + Nitrite	< 0.05 mg/L			SM 18th 4500-NO3 E	0.53	94.1 *
06/10	0832	DWC	Well Depth, Total	14.00 Feet				N/A	N/A
06/10	0832	DWC	Depth to Water	10.80 Feet				N/A	N/A

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Control Number: 1306010146
 Customer Name : CLINTON, EAST GW17
 Customer/Permit No. : 649 / AR0048747 001
 Report Date : 06/18/13

Sample Date : 06/10/13
 Sample Time : 0840
 Sample Type : GRAB WATER
 Sample From : WELL #17


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

Laboratory Analysis

Analysis							Quality Assurance		
Date	Time	By	Parameter	Result	Notes	Quantity	Method	Precision % RPD	Accuracy % Recovery
06/11	1445	NTR	Chloride (as Cl)	10.0 mg/L			SM 4500-Cl-C	0.00	100.0 *
06/10	0842	DWC	pH	6.4 S.U.			SM 18 4500 H+B	0.00	N/A *
06/17	0630	NTR	Solids, Total Dissolved	114.0 mg/L			SM 18th 2540 C	1.23	N/A *
06/10	0842	DWC	Specific Conductance	75.900 U MHOS			EPA 120.1	0.00	N/A *
06/17	1000	NTR	Nitrate + Nitrite	< 0.05 mg/L			SM 18th 4500-NO3 E	0.53	94.1 *
06/10	0840	DWC	Well Depth, Total	17.60 Feet				N/A	N/A
06/10	0840	DWC	Depth to Water	12.30 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): David Calloway
 and Signature: [Signature]

Sample Date: 6/10/13

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)	NO ₃ -N O ₂ (1L Plastic H2SO4)
					#1	#2	#3	Time	#1	#2	#3	Time	#1	#2	#3	Time		
Clinton East Wells					#1	#2	#3	Time	#1	#2	#3	Time	#1	#2	#3	Time		
#13 (507)	1306010143	0859	9.0	15' 4"	6.15	6.14		0900	138	138		0900	17.1	17.0		0900	X	X
#14 (508)	6-144	0848	8.7	13' 1"	6.66	6.65		0849	128.8	128.9		0849	19.4			0849	X	X
#16 (509)	6-145	0832	10.8	14' 0"	6.98	6.96	6.98	0834	68.8			0834	16.6			0834	X	X
#17 (649)	6-146	0840	12.3	17' 6"	6.45			0842	75.9			0842	15.5			0842	X	X

Relinquished by: [Signature] Time: 1500 Received By Lab: [Signature] Date: 6/10/13 Time: 1500

Comments:

[Handwritten mark]

Environmental Services Company, Inc.

Corporate Office
 13715 West Markham
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Northwest Arkansas Branch
 1107 Century Avenue
 Springdale, AR 72762
 Tel. (479)750-1170 Fax (479)750-1172

Control Number: 1307010241
 Customer Name : CLINTON, EAST GW13
 Customer/Permit No. : 507 / AR0048836 001
 Report Date : 07/19/13

Sample Date : 07/15/13
 Sample Time : 0907
 Sample Type : GRAB WATER
 Sample From : WELL #13

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


Laboratory Analysis

Analysis						Quality Assurance			
Date	Time	By	Parameter	Result	Notes	Quantity	Method	Precision	Accuracy
								% RPD	% Recovery
07/17	1000	NTR	Chloride (as Cl)	35.0 mg/L			SM 4500-Cl-C	0.00	100.0 *
07/15	0907	DWC	pH	7.0 S.U.			SM 18 4500 H+B	0.00	N/A *
07/18	1530	NTR	Solids, Total Dissolved	170.0 mg/L			SM 18th 2540 C	5.13	N/A *
07/15	0907	DWC	Specific Conductance	179.600 U MHOS			EPA 120.1	0.15	N/A *
07/18	1340	NTR	Nitrate + Nitrite	2.27 mg/L			SM 18th 4500-NO3 E	0.20	98.2
07/15	0907	DWC	Well Depth, Total	15.40 Feet				N/A	N/A
07/15	0907	DWC	Depth to Water	9.00 Feet				N/A	N/A

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Control Number: 1307010242
 Customer Name : CLINTON, EAST GW14
 Customer/Permit No. : 508 / AR0048836 001
 Report Date : 07/19/13

Sample Date : 07/15/13
 Sample Time : 0855
 Sample Type : GRAB WATER
 Sample From : WELL #14

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

<u>Laboratory Analysis</u>							<u>Quality Assurance</u>	
Analysis			<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>
07/17	1000	NTR	Chloride (as Cl)	20.0		mg/L	0.00	100.0 *
07/15	0855	DWC	pH	7.0		S.U.	0.00	N/A *
07/18	1530	NTR	Solids, Total Dissolved	194.0		mg/L	5.13	N/A *
07/15	0855	DWC	Specific Conductance	143.900		U MHOS	0.15	N/A *
07/18	1340	NTR	Nitrate + Nitrite	0.76		mg/L	0.20	98.2 *
07/15	0855	DWC	Well Depth, Total	13.10		Feet	N/A	N/A
07/15	0855	DWC	Depth to Water	9.80		Feet	N/A	N/A

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

Control Number: 1307010243
 Customer Name : CLINTON, EAST GW16
 Customer/Permit No. : 509 / AR0048836 001
 Report Date : 07/19/13

Sample Date : 07/15/13
 Sample Time : 0837
 Sample Type : GRAB WATER
 Sample From : WELL #16

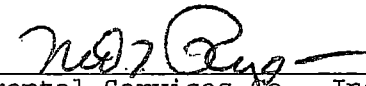
Collected By: DWC
 Delivery By : DWC
 Work Order :
 Purchase Order :

<u>Laboratory Analysis</u>							<u>Quality Assurance</u>		
<u>Date</u>	<u>Time</u>	<u>By</u>	<u>Parameter</u>	<u>Result</u>	<u>Notes</u>	<u>Quantity</u>	<u>Method</u>	<u>Precision</u>	<u>Accuracy</u>
								<u>% RPD</u>	<u>% Recovery</u>
07/17	1000	NTR	Chloride (as Cl)	55.0 mg/L			SM 4500-Cl-C	0.00	100.0 *
07/15	0837	DWC	pH	7.7 S.U.			SM 18 4500 H+B	0.00	N/A *
07/18	1530	NTR	Solids, Total Dissolved	78.0 mg/L			SM 18th 2540 C	4.44	N/A *
07/15	0837	DWC	Specific Conductance	76.500 U MHOS			EPA 120.1	0.15	N/A *
07/18	1340	NTR	Nitrate + Nitrite	< 0.05 mg/L			SM 18th 4500-NO3 E	0.20	98.2 *
07/15	0837	DWC	Well Depth, Total	14.00 Feet				N/A	N/A
07/15	0837	DWC	Depth to Water	11.80 Feet				N/A	N/A

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Control Number: 1307010244
 Customer Name : CLINTON, EAST GW17
 Customer/Permit No. : 649 / AR0048747 001
 Report Date : 07/19/13

Sample Date : 07/15/13
 Sample Time : 0845
 Sample Type : GRAB WATER
 Sample From : WELL #17

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

Laboratory Analysis

Analysis						Quality Assurance			
Date	Time	By	Parameter	Result	Notes	Quantity	Method	Precision % RPD	Accuracy % Recovery
07/17	1000	NTR	Chloride (as Cl)	20.0 mg/L			SM 4500-Cl-C	0.00	100.0 *
07/15	0845	DWC	pH	5.0 S.U.			SM 18 4500 H+B	0.00	N/A *
07/18	1530	NTR	Solids, Total Dissolved	246.0 mg/L			SM 18th 2540 C	5.13	N/A *
07/15	0845	DWC	Specific Conductance	76.900 U MHOS			EPA 120.1	0.15	N/A *
07/18	1340	NTR	Nitrate + Nitrite	< 0.05 mg/L			SM 18th 4500-NO3 E	0.20	98.2 *
07/15	0845	DWC	Well Depth, Total	17.60 Feet				N/A	N/A
07/15	0845	DWC	Depth to Water	13.30 Feet				N/A	N/A

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Signature _____

[Handwritten Signature]
 Environmental Services Co., Inc.



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

Sampler Name(s): Dave Callant
 and Signature: [Signature]

Sample Date: 7/15/13

Sample Identification (Customer #)	Laboratory Control Number	Sample Time:	Depth To Water	Total Well Depth	pH				Specific Conductance				Temperature Degrees C				Cl, TDS (L Plastic ≤ 6 Deg C)	NO3-N O2 (L Plastic H2504)
					#1	#2	#3	Time	#1	#2	#3	Time	#1	#2	#3	Time		
Clinton East Wells					#1	#2	#3	Time	#1	#2	#3	Time	#1	#2	#3	Time		
#13 (507)	1307010241	0907	9.0	15' 4"	6.97	7.02	7.01		179.6	179.6			19.1	19.1			X	X
#14 (508)	7-242	0855	9.8	13' 1"	7.01	7.00			143.9	143.9			20.3	20.2			X	X
#16 (509)	7-243	0837	11.2	14' 0"	7.76	7.75			76.5	76.6			19.3	19.3			X	X
#17 (649)	7-244	0845	13.3	17' 6"	6.03	6.03	6.02		76.9	76.9			16.7	16.6			X	X

Relinquished by: [Signature] Time: 1500 Received By Lab: Dave Callant Date: 7/15/13 Time: 1500

Comments: [Handwritten notes]

Environmental Services Company, Inc.

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

Control Number: 1310010123
 Customer Name : CLINTON, EAST GW13
 Customer/Permit No. : 507 / AR0048836 001
 Report Date : 10/14/13

Sample Date : 10/07/13
 Sample Time : 0859
 Sample Type : GRAB WATER
 Sample From : EAST WELL #13

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

Laboratory Analysis

Analysis							Quality Assurance		
Date	Time	By	Parameter	Result	Notes	Quantity	Method	Precision % RPD	Accuracy % Recovery
10/11	0630	NTR	Chloride (as Cl)	40.0 mg/L			1997 4500-Cl-C	0.00	89.0
10/07	0859	DWC	pH	6.0 S.U.			2000 4500 H+B	0.00	N/A *
10/08	1530	ACF	Solids, Total Dissolved	148.0 mg/L			1997 2540 C	5.20	N/A *
10/07	0859	DWC	Specific Conductance	202.000 U MHOS			EPA 120.1	0.00	N/A *
10/08	1130	NTR	Nitrate + Nitrite	2.45 mg/L			2000 4500-NO3 E	0.93	96.2 *
10/07	0859	DWC	Well Depth, Total	15.40 Feet				N/A	N/A
10/07	0859	DWC	Depth to Water	9.00 Feet				N/A	N/A

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 Springdale, AR 72762
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Control Number: 1310010124
 Customer Name : CLINTON, EAST GW14
 Customer/Permit No. : 508 / AR0048836 001
 Report Date : 10/08/13

Sample Date : 10/07/13
 Sample Time :
 Sample Type : DRY WELL
 Sample From : EAST WELL #14

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

Laboratory Analysis

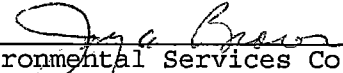
Analysis		Parameter	Result	Notes	Quantity	Method
Date	Time By					
10/07	0849 DWC	Dry Well	0.00			

Quality Assurance

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

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Northwest Arkansas Branch
 1107 Century Avenue
 Springdale, AR 72762
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Control Number: 1310010125
 Customer Name : CLINTON, EAST GW16
 Customer/Permit No. : 509 / AR0048836 001
 Report Date : 10/14/13


Sample Date : 10/07/13
 Sample Time : 0833
 Sample Type : GRAB WATER
 Sample From : EAST WELL #16

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

<u>Laboratory Analysis</u>							<u>Quality Assurance</u>		
<u>Analysis</u>							<u>Precision</u>	<u>Accuracy</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>% RPD</u>	<u>% Recovery</u>
10/11	0630	NTR	Chloride (as Cl)	60.0 mg/L			1997 4500-Cl-C	0.00	89.0 *
10/07	0833	DWC	pH	6.2 S.U.			2000 4500 H+B	0.00	N/A *
10/08	1530	ACF	Solids, Total Dissolved	80.0 mg/L			1997 2540 C	5.20	N/A *
10/07	0833	DWC	Specific Conductance	84.900 U MHOS			EPA 120.1	0.00	N/A *
10/08	1130	NTR	Nitrate + Nitrite	< 0.05 mg/L			2000 4500-NO3 E	0.93	96.2 *
10/07	0833	DWC	Well Depth, Total	14.00 Feet				N/A	N/A
10/07	0833	DWC	Depth to Water	11.90 Feet				N/A	N/A

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

Control Number: 1310010126
 Customer Name : CLINTON, EAST GW17
 Customer/Permit No. : 649 / AR0048747 001
 Report Date : 10/14/13

Sample Date : 10/07/13
 Sample Time : 0841
 Sample Type : GRAB WATER
 Sample From : EAST WELL #17

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

Laboratory Analysis

Analysis							Quality Assurance		
Date	Time	By	Parameter	Result	Notes	Quantity	Method	Precision % RPD	Accuracy % Recovery
10/11	0630	NTR	Chloride (as Cl)	25.0 mg/L			1997 4500-Cl-C	0.00	89.0 *
10/07	0841	DWC	pH	6.0 S.U.			2000 4500 H+B	0.00	N/A *
10/08	1530	ACF	Solids, Total Dissolved	112.0 mg/L			1997 2540 C	5.20	N/A *
10/07	0841	DWC	Specific Conductance	81.400 U MHOS			EPA 120.1	0.00	N/A *
10/08	1130	NTR	Nitrate + Nitrite	< 0.05 mg/L			2000 4500-NO3 E	0.93	96.2 *
10/07	0841	DWC	Well Depth, Total	17.60 Feet				N/A	N/A
10/07	0841	DWC	Depth to Water	13.50 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): David Calant
and Signature: David Calant

Sample Date:

Sample Identification (Customer #)	Laboratory Control Number	Sample Time	Depth To Water	Total Well Depth	pH				Specific Conductance				Temperature Degrees C				C1 (15 min) Plastic 216 Deg C	103 (15 min) Plastic 17504)
					#1	#2	#3	Time	#1	#2	#3	Time	#1	#2	#3	Time		
Clinton East Wells					#1	#2	#3	Time	#1	#2	#3	Time	#1	#2	#3	Time		
#13 (507)	1310010123	0859	9.0	15.4'	6.06	6.04			202	201			19.0	19.1			X	X
#14 (508)	10-124	0849	12.9	13.1'				dry									X	X
#16 (509)	10-125	0833	11.9	14.0'	6.29	6.28			84.9	84.7			20.0	20.0			X	X
#17 (649)	10-126	0841	13.5	17.6'	6.00	6.00			81.4	81.4			81.4	81.4	17.9		X	X

Relinquished by: David Calant Time: 1530 Received By Lab: David Calant Date: 10/1/13 Time: 1530

Comments:

CP

**CLINTON WATER AND SEWER
EAST PLANT
ANNUAL REPORT
PERMIT AR0048836
JANUARY- DECEMBER 2012**

Clinton Water and Sewer Department
Clinton, AR
East WWTP - AR0048836
Irrigation Water
Calendar Year 2012

Parameter	Annual Concentration (mg/L)	2012 Application Data				Total Application Since 2003 Pounds/Acre
		Million Gallons/Year	Number of Acres	Gallons per Acre-Year	Pounds per Acre	
Total Kjeldahl Nitrogen	14.4800	67.056	2402.68	27,908.8	3.373	616.24
Ammonia Nitrogen	0.9167	67.056	2402.68	27,908.8	0.214	146.97
Nitrate + Nitrite Nitrogen	2.0933	67.056	2402.68	27,908.8	0.488	106.24
BOD-5	25.6667	67.056	2402.68	27,908.8	5.978	989.39
Arsenic	< 0.0100	67.056	2402.68	27,908.8	0.002	0.47
Cadmium	< 0.0040	67.056	2402.68	27,908.8	0.001	0.22
Copper	< 0.0083	67.056	2402.68	27,908.8	0.002	0.26
Lead	< 0.0100	67.056	2402.68	27,908.8	0.002	0.57
Mercury	< 0.0010	67.056	2402.68	27,908.8	0.000	0.09
Selenium	< 0.0100	67.056	2402.68	27,908.8	0.002	0.67
Zinc	< 0.0220	67.056	2402.68	27,908.8	0.005	4.30
Conductivity, minimum (mhos/cm)*	135.30					
Conductivity, maximum (mhos/cm)*	172.40					
pH, minimum (SU)*	6.90					
pH, maximum (SU)*	8.80					

*Current year values

Crop Grown: Bermuda Hay

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Control Number: 1203010278
 Customer Name : CLINTON, EAST IW
 Customer/Permit No. : 619 / AR0048836 001
 Report Date : 03/27/12

Sample Date : 03/16/12
 Sample Time : 0845
 Sample Type : GRAB WWATER
 Sample From : IRRIGATION

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

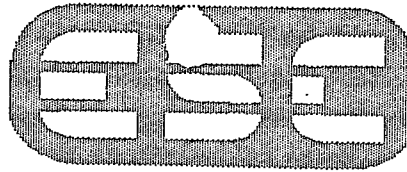
Laboratory Analysis							Quality Assurance		
Date	Time	By	Parameter	Result	Notes	Quantity	Method	Precision % RPD	Accuracy % Recovery
03/16	1800	AJR	BOD, 5-day	17.0 mg/L			SM 18th 5210B	5.13	94.0 *
03/22	1115	AJR	Ammonia Nitrogen	0.60 mg/L			SM 18th 4500-NH3 G	7.09	97.0 *
03/17	1030	NTR	Kjeldahl Nitrogen Total	25.80 mg/L			SM 18th 4500-NorgB	1.66	96.9 *
03/16	0848	DWC	pH	7.5 S.U.			SM 18 4500 H+B	0.00	N/A *
03/26	1700	AJR	Copper	0.0120 mg/L			EPA 200.7	0.67	85.4 *
03/26	1700	AJR	Zinc	0.0320 mg/L			EPA 200.7	4.20	85.2 *
03/26	1700	AJR	Arsenic	< 0.0100 mg/L			EPA 200.7	1.09	89.7 *
03/26	1700	AJR	Selenium	< 0.0100 mg/L			EPA 200.7	3.52	93.2 *
03/16	0848	DWC	Specific Conductance	135.300 U MHOS			EPA 120.1	0.07	N/A *
03/26	1700	AJR	Cadmium	< 0.0040 mg/L			EPA 200.7	4.82	89.5 *
03/20	0600	NTR	Mercury	< 0.001 mg/L			EPA 245.1	1.09	103.9 *
03/26	1700	AJR	Lead	< 0.0100 mg/L			EPA 200.7	1.89	89.6 *
03/26	0630	NTR	Nitrate + Nitrite	1.15 mg/L			SM 18th 4500-NO3 E	1.71	92.8 *

* 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 *Neil J. Papp*
 Environmental Services Co., Inc.

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 Little Rock, AR 72211 Little Rock, AR 72215
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Environmental Services Company, Inc.
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 1107 Century
 Springdale, AR 72762

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

CHAIN OF CUSTODY

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

Client Information						Project Information					Requested Parameters									
Company Name:		Clinton, East IW				Permit/Project #:		AR0048836			BOD(3.)	NH3-N(15.A), NO3 + NO2(91.)	TKN(16.A)	Metals (See Comments)						
Address:		P.O. Box 277 Clinton, AR 72031				Purchase Order #:														
Telephone:		501-745-4320				Work Order #:														
Contact:		Mr. Isaac Keeling				Sampler Name(s):		<i>Dad Carhart</i>												
FAX:		501-745-2164				and Signature(s):		<i>Dad Carhart</i>												
ESC Client Number:		619																		
Sample Identification			Sample Collection			Sample Containers														
Identification	ESC Control #	Date	Time	Type	Matrix	Type	Volume	Preservative	#											
<i>Irrigation</i>	<i>1203010278</i>	<i>3/16/12</i>	<i>0845</i>	Grab	Wwater	Plastic	1/2 Gal	≤ 6 Deg C	1	X										
	<i>/</i>	<i>/</i>	<i>/</i>	Grab	Wwater	Plastic	1 Liter	H2SO4	1		X	X								
				Grab	Wwater	Plastic	1 Liter	HNO3	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 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"/>								
		<i>3/16/12</i>	<i>1730</i>	<i>Dad Carhart Dad Carhart</i>		<i>3/16/12</i>	<i>1730</i>													
*Cool all samples to ≤ 6 degrees C with ice.				Flow Data		Field Test		Time		Analyst		Result		Result		Units				
Comments: Metals: Hg(50.15), Cu(29.IW), Zn(30.IW), As(33.IW), Se(34.IV)				Analyst		pH:		<i>0848</i>		<i>DWC</i>		<i>7.5</i>		<i>7.5</i>		<i>S.U.</i>				
Cd(48.IW), Pb(82.IW)				Time:		Conduct:		<i>0848</i>		<i>DWC</i>		<i>135.3</i>		<i>135.4</i>		<i>µS/cm</i>				
				Reading:																
				Units:																
				Chlorinated? Y N		Fecal Start:														

CR

Environmental Services Company, Inc.

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

Control Number: 1207010082
 Customer Name : CLINTON, EAST IW
 Customer/Permit No. : 619 / AR0048836 001
 Report Date : 07/18/12

Sample Date : 07/09/12
 Sample Time : 1138
 Sample Type : GRAB WWATER
 Sample From : IRRIGATION WATER


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

<u>Laboratory Analysis</u>							<u>Quality Assurance</u>		
<u>Date</u>	<u>Time</u>	<u>By</u>	<u>Parameter</u>	<u>Result</u>	<u>Notes</u>	<u>Quantity</u>	<u>Method</u>	<u>Precision</u>	<u>Accuracy</u>
								<u>% RPD</u>	<u>% Recovery</u>
07/11	0600	DWC	BOD, 5-day	40.0 mg/L			SM 18th 5210B	0.00	105.0
07/11	1000	NTR	Ammonia Nitrogen	1.50 mg/L			SM 18th 4500-NH3 G	0.64	98.3 *
07/10	0830	NTR	Kjeldahl Nitrogen Total	10.64 mg/L			SM 18th 4500-NorgB	0.00	97.7
07/09	1142	DWC	pH	8.8 S.U.			SM 18 4500 H+B	0.00	N/A
07/13	1120	AJR	Copper	0.0100 mg/L			EPA 200.7	6.06	98.0 *
07/13	1120	AJR	Zinc	0.0300 mg/L			EPA 200.7	7.09	95.0 *
07/13	1120	AJR	Arsenic	< 0.0100 mg/L			EPA 200.7	4.77	96.1 *
07/13	1120	AJR	Selenium	< 0.0100 mg/L			EPA 200.7	1.44	92.5 *
07/09	1142	DWC	Specific Conductance	166.800 U MHOS			EPA 120.1	0.00	N/A
07/13	1120	AJR	Cadmium	< 0.0040 mg/L			EPA 200.7	2.34	90.7 *
07/10	1632	RAH	Mercury	< 0.001 mg/L			EPA 245.1	0.00	101.0 *
07/13	1120	AJR	Lead	< 0.0100 mg/L			EPA 200.7	6.80	100.3 *
07/12	1230	NTR	Nitrate + Nitrite	1.07 mg/L			SM 18th 4500-NO3 E	1.55	96.1

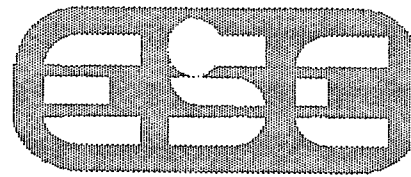
* QA data shown is from a different sample or standard on the same date.

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 _____


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 1107 Century
 Springdale, AR 72762

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CHAIN OF CUSTODY

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

Client Information				Project Information							Requested Parameters									
Company Name: 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 #:																
Telephone: 501-745-4320				Sampler Name(s): <i>David Calcutt</i>																
Contact: Mr. Isaac Keeling				and Signature(s): <i>[Signature]</i>																
FAX: 501-745-2164																				
ESC Client Number: 619																				
Sample Identification		Sample Collection				Sample Containers														
Identification	ESC Control #	Date	Time	Type	Matrix	Type	Volume	Preservative	#											
<i>Irrigation water</i>	<i>1207010082</i>	<i>7/9/12</i>	<i>1138</i>	Grab	Wwater	Plastic	1/2 Gal	≤ 6 Deg C	1	X										
	<i>/</i>	<i>/</i>	<i>/</i>	Grab	Wwater	Plastic	1 Liter	H2SO4	1		X	X								
				Grab	Wwater	Plastic	1 Liter	HNO3	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 checked="" type="checkbox"/>	Special	<input type="checkbox"/>							
Relinquished By: (Signature and Printed Name)		Date	Time	Received for Lab By: (Signature and Printed Name)		Date	Time	Were samples properly preserved:		Yes	<input checked="" type="checkbox"/>	No	<input type="checkbox"/>							
*Cool all samples to ≤ 6 degrees C with ice.										Flow Data		Field Test	Time	Analyst	Result	Result	Units			
Comments: Metals: Hg(50.15), Cu(29.IW), Zn(30.IW), As(33.IW), Se(34.IW)				Analyst:		pH:	<i>1142</i>	<i>Dax</i>	<i>8.8</i>	<i>8.8</i>	<i>5.0</i>									
Cd(48.IW), Pb(82.IW)				Time:		Conduct:	<i>1142</i>	<i>DW</i>	<i>166.8</i>	<i>166.8</i>	<i>128/100</i>									
				Reading:																
				Units:																
				Chlorinated? Y N		Fecal Start:						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
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 Tel. (479)750-1170 Fax (479)750-1172

Control Number: 1210010337
 Customer Name : CLINTON, EAST IW
 Customer/Permit No. : 619 / AR0048836 001
 Report Date : 10/30/12

Sample Date : 10/15/12
 Sample Time : 1158
 Sample Type : GRAB WWATER
 Sample From : IRRIGATION WATER

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

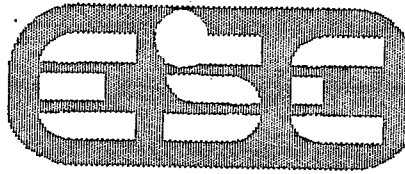
<u>Laboratory Analysis</u>							<u>Quality Assurance</u>		
<u>Date</u>	<u>Time</u>	<u>By</u>	<u>Parameter</u>	<u>Result</u>	<u>Notes</u>	<u>Quantity</u>	<u>Method</u>	<u>Precision</u>	<u>Accuracy</u>
								<u>% RPD</u>	<u>% Recovery</u>
10/17	0600	DWC	BOD, 5-day	20.0 mg/L			SM 18th 5210B	0.00	99.5 *
10/16	1500	JDF	Ammonia Nitrogen	0.65 mg/L			SM 18th 4500-NH3 G	0.63	99.0 *
10/16	0900	NTR	Kjeldahl Nitrogen Total	7.00 mg/L			SM 18th 4500-NorgB	0.00	98.6 *
10/15	1202	DWC	pH	6.9 S.U.			SM 18 4500 H+B	0.00	N/A
10/19	0948	RAH	Copper	< 0.0030 mg/L			EPA 200.7	1.66	93.3 *
10/19	0948	RAH	Zinc	< 0.0040 mg/L			EPA 200.7	0.41	90.8 *
10/19	0948	RAH	Arsenic	< 0.0100 mg/L			EPA 200.7	2.11	93.3 *
10/19	0948	RAH	Selenium	< 0.0100 mg/L			EPA 200.7	1.48	94.2 *
10/15	1202	DWC	Specific Conductance	172.400 U MHOS			EPA 120.1	2.36	N/A *
10/19	0948	RAH	Cadmium	< 0.0040 mg/L			EPA 200.7	4.94	90.3 *
10/30	1628	RAH	Mercury	< 0.001 mg/L			EPA 245.1	0.00	97.2 *
10/19	0948	RAH	Lead	< 0.0100 mg/L			EPA 200.7	3.95	126.4 *
10/16	1130	NTR	Nitrate + Nitrite	4.06 mg/L			SM 18th 4500-NO3 E	0.75	93.4 *

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

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Signature Neil Ryz
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CHAIN OF CUSTODY

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

Client Information						Project Information					Requested Parameters												
Company Name:		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 #																	
Telephone:		501-745-4320				Sampler Name(s):		<i>Dad Calhoun</i>															
Contact:		Mr. Isaac Keeling				and Signature(s):		<i>Dad Calhoun</i>															
FAX:		501-745-2164																					
ESC Client Number:		619																					
Sample Identification		Sample Collection				Sample Containers				BOD(3.)	NH3-N(15.A), NO3 + NO2(91.)	TKN(16.A)	Metals (See Comments)										
Identification	ESC Control #	Date	Time	Type	Matrix	Type	Volume	Preservative	#														
<i>Irrigation water</i>	<i>1210010337</i>	<i>10/15/12</i>	<i>1158</i>	Grab	Wwater	Plastic	1/2 Gal	≤ 6 Deg C	1	X													
	<i>/</i>	<i>/</i>	<i>/</i>	Grab	Wwater	Plastic	1 Liter	H2SO4	1		X	X											
				Grab	Wwater	Plastic	1 Liter	HNO3	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 checked="" 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"/>											
		<i>10/15/12</i>	<i>1530</i>	<i>Dad Calhoun Dad Calhoun</i>		<i>10/17/12</i>	<i>1530</i>																
Comments:		Metals: Hg(50.15), Cu(29.IW), Zn(30.IW), As(33.IW), Se(34.IW)				Flow Data		Field Test		Time	Analyst	Result	Result	Units									
		Cd(48.IW), Pb(82.IW)						pH:		<i>1202</i>	<i>DWC</i>	<i>6.95</i>	<i>6.96</i>	<i>5.16</i>									
						Time:		Conduct:		<i>1202</i>	<i>DWC</i>	<i>1724</i>	<i>1724</i>	<i>45/cm</i>									
						Reading:																	
						Units:																	
						Chlorinated? Y N		Fecal Start:															

CP

Clinton Water and Sewer Department
Clinton, AR
East WWTP - AR0048836
Soil
Calendar Year 2012

Sample ID	East 40.24 LA PB 3							
Control Number	1203010280							
Parameter	1st Quarter		2nd Quarter		3rd Quarter		4th Quarter	
	Sample Date	Analytical Results (mg/Kg)	Sample Date	Analytical Results (mg/Kg)	Sample Date	Analytical Results (mg/Kg)	Sample Date	Analytical Results (mg/Kg)
Nitrate Nitrogen	03/16/12	1.613						
Ammonia Nitrogen	03/16/12	<4.0307						
PAN	03/16/12	1.61						
Phosphorous	03/16/12	350						
Potassium	03/16/12	893.75						
Arsenic	03/16/12	4						
Cadmium	03/16/12	6.75						
Copper	03/16/12	7.188						
Lead	03/16/12	15.5						
Magnesium	03/16/12	862.5						
Mercury	03/16/12	<0.1887						
Nickel	03/16/12	<3.125						
Zinc	03/16/12	46.25						
Conductivity (mhos/cm)	03/16/12	156.7						
pH (SU)	03/16/12	6.52						

Clinton Water and Sewer Department
Clinton, AR
East WWTP - AR0048836
Soil
Calendar Year 2012

Sample ID	East 40.24 LA PB 30							
Control Number	1203010281							
Parameter	1st Quarter		2nd Quarter		3rd Quarter		4th Quarter	
	Sample Date	Analytical Results (mg/Kg)	Sample Date	Analytical Results (mg/Kg)	Sample Date	Analytical Results (mg/Kg)	Sample Date	Analytical Results (mg/Kg)
Nitrate Nitrogen	03/16/12	5.651						
Ammonia Nitrogen	03/16/12	<3.4897						
PAN	03/16/12	5.65						
Phosphorous	03/16/12	541.667						
Potassium	03/16/12	423.333						
Arsenic	03/16/12	3.222						
Cadmium	03/16/12	3.556						
Copper	03/16/12	6.611						
Lead	03/16/12	4.389						
Magnesium	03/16/12	722.222						
Mercury	03/16/12	<0.1970						
Nickel	03/16/12	<2.778						
Zinc	03/16/12	44.111						
Conductivity (mhos/cm)	03/16/12	36.2						
pH (SU)	03/16/12	5.91						

Clinton Water and Sewer Department
Clinton, AR
East WWTP - AR0048836
Soil
Calendar Year 2012

Sample ID		East 55.57 LA PB 10						
Control Number		1203010282						
Parameter	1st Quarter		2nd Quarter		3rd Quarter		4th Quarter	
	Sample Date	Analytical Results (mg/Kg)	Sample Date	Analytical Results (mg/Kg)	Sample Date	Analytical Results (mg/Kg)	Sample Date	Analytical Results (mg/Kg)
Nitrate Nitrogen	03/16/12	3.48						
Ammonia Nitrogen	03/16/12	<3.5447						
PAN	03/16/12	3.48						
Phosphorous	03/16/12	266.111						
Potassium	03/16/12	672.222						
Arsenic	03/16/12	<2.778						
Cadmium	03/16/12	3.833						
Copper	03/16/12	5.722						
Lead	03/16/12	9						
Magnesium	03/16/12	750						
Mercury	03/16/12	<0.197						
Nickel	03/16/12	<2.778						
Zinc	03/16/12	49.556						
Conductivity (mhos/cm)	03/16/12	52.6						
pH (SU)	03/16/12	6.11						

Clinton Water and Sewer Department
Clinton, AR
East WWTP - AR0048836
Soil
Calendar Year 2012

Sample ID	East 55.57 LA PB 3							
Control Number	1203010283							
Parameter	1st Quarter		2nd Quarter		3rd Quarter		4th Quarter	
	Sample Date	Analytical Results (mg/Kg)	Sample Date	Analytical Results (mg/Kg)	Sample Date	Analytical Results (mg/Kg)	Sample Date	Analytical Results (mg/Kg)
Nitrate Nitrogen	03/16/12	4.7						
Ammonia Nitrogen	03/16/12	<3.3587						
PAN	03/16/12	4.7						
Phosphorous	03/16/12	531.818						
Potassium	03/16/12	1090.909						
Arsenic	03/16/12	<3.125						
Cadmium	03/16/12	3.409						
Copper	03/16/12	6.318						
Lead	03/16/12	7.409						
Magnesium	03/16/12	736.364						
Mercury	03/16/12	<0.1928						
Nickel	03/16/12	<3.125						
Zinc	03/16/12	44.682						
Conductivity (mhos/cm)	03/16/12	29.9						
pH (SU)	03/16/12	5.96						

Clinton Water and Sewer Department
Clinton, AR
East WWTP - AR0048836
Soil
Calendar Year 2012

Sample ID	East 55.57 LA PB 30							
Control Number	1203010284							
Parameter	1st Quarter		2nd Quarter		3rd Quarter		4th Quarter	
	Sample Date	Analytical Results (mg/Kg)	Sample Date	Analytical Results (mg/Kg)	Sample Date	Analytical Results (mg/Kg)	Sample Date	Analytical Results (mg/Kg)
Nitrate Nitrogen	03/16/12	3.208						
Ammonia Nitrogen	03/16/12	<3.9738						
PAN	03/16/12	3.2						
Phosphorous	03/16/12	446.667						
Potassium	03/16/12	1350						
Arsenic	03/16/12	<3.125						
Cadmium	03/16/12	4.111						
Copper	03/16/12	6.333						
Lead	03/16/12	8.056						
Magnesium	03/16/12	750						
Mercury	03/16/12	<0.1804						
Nickel	03/16/12	<3.125						
Zinc	03/16/12	41.389						
Conductivity (mhos/cm)	03/16/12	30.3						
pH (SU)	03/16/12	6.22						

Clinton Water and Sewer Department
Clinton, AR
East WWTP - AR0048836
Soil
Calendar Year 2012

Sample ID	East LA Aripport 9							
Control Number	1203010285							
Parameter	1st Quarter		2nd Quarter		3rd Quarter		4th Quarter	
	Sample Date	Analytical Results (mg/Kg)	Sample Date	Analytical Results (mg/Kg)	Sample Date	Analytical Results (mg/Kg)	Sample Date	Analytical Results (mg/Kg)
Nitrate Nitrogen	03/16/12	3.322						
Ammonia Nitrogen	03/16/12	<3.2195						
PAN	03/16/12	3.32						
Phosphorous	03/16/12	365						
Potassium	03/16/12	521.25						
Arsenic	03/16/12	<3.125						
Cadmium	03/16/12	<3.125						
Copper	03/16/12	4.938						
Lead	03/16/12	6.625						
Magnesium	03/16/12	523.125						
Mercury	03/16/12	<0.1727						
Nickel	03/16/12	<3.125						
Zinc	03/16/12	31.563						
Conductivity (mhos/cm)	03/16/12	44.1						
pH (SU)	03/16/12	5.87						

Clinton Water and Sewer Department
Clinton, AR
East WWTP - AR0048836
Soil
Calendar Year 2012

Sample ID	East LA WD 13							
Control Number	1203010286							
	20							
Parameter	1st Quarter		2nd Quarter		3rd Quarter		4th Quarter	
	Sample Date	Analytical Results (mg/Kg)	Sample Date	Analytical Results (mg/Kg)	Sample Date	Analytical Results (mg/Kg)	Sample Date	Analytical Results (mg/Kg)
Nitrate Nitrogen	03/16/12	3.612						
Ammonia Nitrogen	03/16/12	<4.5797						
PAN	03/16/12	3.61						
Phosphorous	03/16/12	339.545						
Potassium	03/16/12	613.636						
Arsenic	03/16/12	<2.5						
Cadmium	03/16/12	2.591						
Copper	03/16/12	5.227						
Lead	03/16/12	8.545						
Magnesium	03/16/12	586.364						
Mercury	03/16/12	<0.1877						
Nickel	03/16/12	<2.5						
Zinc	03/16/12	37.818						
Conductivity (mhos/cm)	03/16/12	48.8						
pH (SU)	03/16/12	5.63						

Environmental Services Company, Inc.

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Control Number: 1203010280

Customer Name : CLINTON, EAST 40.24 LA PB 3

Customer Number : 3004

Report Date : 04/02/12

Sample Date : 03/16/12

Sample Time : 0932

Sample Type : GRAB SOIL

Sample From : EAST LA 40.24 PB3

Collected By: DWC

Delivery By : DWC

Work Order :

Purchase Order :


Laboratory Analysis

Analysis			Laboratory Analysis				Quality Assurance		
Date	Time	By	Parameter	Result	Notes	Quantity	Method	Precision % RPD	Accuracy % Recovery
03/20	0800	NTR	Ammonia Nitrogen	< 4.0307 mg/kg			SM 18th 4500-NH3 E	1.21	91.8 *
03/29	0400	NTR	Mercury	< 0.1887 mg/Kg			SW-846 7471	6.38	91.0 *
03/23	1355	NTR	Nitrate Nitrogen	1.613 mg/kg			EPA 9200	0.83	96.1 *
03/30	1700	AJR	Magnesium	862.500 mg/Kg			SW-846 6010B	7.39	95.7 *
03/26	1700	AJR	Phosphorus	350.000 mg/Kg			ASTM D5198-92	1.10	85.4 *
03/28	1700	AJR	Potassium	893.750 mg/Kg			SW-846 6010B	5.20	104.0 *
03/22	1230	NTR	pH Soil	6.52 S.U.			SW846 9045C	0.33	0.0 *
03/27	1700	AJR	Nickel	< 3.125 mg/Kg			SW-846 6010B	13.28	81.3 *
03/27	1700	AJR	Copper	7.188 mg/Kg			SW-846 6010B	10.11	98.4 *
03/29	1700	AJR	Zinc	46.250 mg/Kg			SW-846 6010B	5.02	96.2 *
03/23	1500	NTR	Nitogen, Plant Available	1.61 mg/kg			33 MSA 2nd Ed	0.42	96.5 *
03/27	1700	AJR	Arsenic	4.000 mg/Kg			SW-846 6010B	11.61	84.0 *
03/22	1340	NTR	Specific Conductance	156.7000 UMHOS			EPA (MOD)9050A	0.33	0.0 *
03/27	1700	AJR	Cadmium	6.750 mg/Kg			SW-846 6010B	6.12	80.0 *
03/27	1700	AJR	Lead	15.500 mg/Kg			SW-846 6010B	5.70	94.6 *

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Control Number: 1203010281
 Customer Name : CLINTON, EAST 40.24 LA PB 30
 Customer Number : 3003
 Report Date : 04/02/12

Sample Date : 03/16/12
 Sample Time : 0936
 Sample Type : GRAB SOIL
 Sample From : EAST LA 40.24 PB30

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

Laboratory Analysis

Analysis			Laboratory Analysis				Quality Assurance		
Date	Time	By	Parameter	Result	Notes	Quantity	Method	Precision % RPD	Accuracy % Recovery
03/20	0800	NTR	Ammonia Nitrogen	< 3.4897 mg/kg			SM 18th 4500-NH3 E	1.21	91.8 *
03/29	0400	NTR	Mercury	< 0.1970 mg/Kg			SW-846 7471	7.34	102.0 *
03/23	1355	NTR	Nitrate Nitrogen	5.651 mg/kg			EPA 9200	0.83	96.1 *
03/30	1700	AJR	Magnesium	722.222 mg/Kg			SW-846 6010B	7.39	95.7 *
03/26	1700	AJR	Phosphorus	541.667 mg/Kg			ASTM D5198-92	1.10	85.4 *
03/28	1700	AJR	Potassium	423.333 mg/Kg			SW-846 6010B	5.20	104.0 *
03/22	1230	NTR	pH Soil	5.91 S.U.			SW846 9045C	0.33	0.0 *
03/27	1700	AJR	Nickel	< 2.778 mg/Kg			SW-846 6010B	13.28	81.3 *
03/27	1700	AJR	Copper	6.611 mg/Kg			SW-846 6010B	10.11	98.4 *
03/29	1700	AJR	Zinc	44.111 mg/Kg			SW-846 6010B	5.02	96.2 *
03/23	1500	NTR	Nitrogen, Plant Available	5.65 mg/kg			33 MSA 2nd Ed	0.42	96.5 *
03/27	1700	AJR	Arsenic	3.222 mg/Kg			SW-846 6010B	11.61	84.0 *
03/22	1340	NTR	Specific Conductance	36.2000 UMHOS			EPA (MOD)9050A	0.33	0.0 *
03/27	1700	AJR	Cadmium	3.556 mg/Kg			SW-846 6010B	6.12	80.0 *
03/27	1700	AJR	Lead	4.389 mg/Kg			SW-846 6010B	5.70	94.6 *

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Control Number: 1203010282
 Customer Name : CLINTON, EAST 55.57 LA PB 10
 Customer/Permit No. : 511 / AR0048836 001
 Report Date : 04/02/12

Sample Date : 03/16/12
 Sample Time : 0927
 Sample Type : GRAB SOIL
 Sample From : EAST LA 55.57 PB10

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

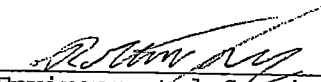
Laboratory Analysis

Analysis			Laboratory Analysis				Quality Assurance		
Date	Time	By	Parameter	Result	Notes	Quantity	Method	Precision % RPD	Accuracy % Recovery
03/20	0800	NTR	Ammonia Nitrogen	< 3.5447 mg/kg			SM 18th 4500-NH3 E	1.21	91.8 *
03/29	0400	NTR	Mercury	< 0.1970 mg/Kg			SW-846 7471	6.38	91.0 *
03/23	1355	NTR	Nitrate Nitrogen	3.480 mg/kg			EPA 9200	0.83	96.1 *
03/30	1700	AJR	Magnesium	750.000 mg/Kg			SW-846 6010B	7.39	95.7 *
03/26	1700	AJR	Phosphorus	266.111 mg/Kg			ASTM D5198-92	1.10	85.4 *
03/28	1700	AJR	Potassium	672.222 mg/Kg			SW-846 6010B	5.20	104.0 *
03/22	1230	NTR	pH Soil	6.11 S.U.			SW846 9045C	0.33	0.0 *
03/27	1700	AJR	Nickel	< 2.778 mg/Kg			SW-846 6010B	13.28	81.3 *
03/27	1700	AJR	Copper	5.722 mg/Kg			SW-846 6010B	10.11	98.4 *
03/29	1700	AJR	Zinc	49.556 mg/Kg			SW-846 6010B	5.02	96.2 *
03/23	1500	NTR	Nitrogen, Plant Available	3.48 mg/kg			33 MSA 2nd Ed	0.42	96.5 *
03/27	1700	AJR	Arsenic	< 2.778 mg/Kg			SW-846 6010B	11.61	84.0 *
03/22	1340	NTR	Specific Conductance	52.6000 UMHOS			EPA (MOD)9050A	0.33	0.0 *
03/27	1700	AJR	Cadmium	3.833 mg/Kg			SW-846 6010B	6.12	80.0 *
03/27	1700	AJR	Lead	9.000 mg/Kg			SW-846 6010B	5.70	94.6 *

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Control Number: 1203010283
 Customer Name : CLINTON, EAST 55.57 LA PB 3
 Customer Number : 3002
 Report Date : 04/02/12

Sample Date : 03/16/12
 Sample Time : 0921
 Sample Type : GRAB SOIL
 Sample From : EAST LA 55.57 PB3

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


Laboratory Analysis

Analysis				Laboratory Analysis			Quality Assurance		
Date	Time	By	Parameter	Result	Notes	Quantity	Method	Precision % RPD	Accuracy % Recovery
03/20	0800	NTR	Ammonia Nitrogen	< 3.3587 mg/kg			SM 18th 4500-NH3 E	1.21	91.8 *
03/29	0400	NTR	Mercury	< 0.1928 mg/Kg			SW-846 7471	6.38	91.0 *
03/23	1355	NTR	Nitrate Nitrogen	4.700 mg/kg			EPA 9200	0.83	96.1 *
03/30	1700	AJR	Magnesium	736.364 mg/Kg			SW-846 6010B	7.39	95.7 *
03/26	1700	AJR	Phosphorus	531.818 mg/Kg			ASTM D5198-92	1.10	85.4 *
03/28	1700	AJR	Potassium	1090.909 mg/Kg			SW-846 6010B	5.20	104.0 *
03/22	1230	NTR	pH Soil	5.96 S.U.			SW846 9045C	0.33	0.0 *
03/27	1700	AJR	Nickel	< 3.125 mg/Kg			SW-846 6010B	6.58	95.8 *
03/27	1700	AJR	Copper	6.318 mg/Kg			SW-846 6010B	10.11	98.4 *
03/29	1700	AJR	Zinc	44.682 mg/Kg			SW-846 6010B	5.02	96.2 *
03/23	1500	NTR	Nitogen, Plant Available	4.70 mg/kg			33 MSA 2nd Ed	0.42	96.5 *
03/27	1700	AJR	Arsenic	< 3.125 mg/Kg			SW-846 6010B	11.61	84.0 *
03/22	1340	NTR	Specific Conductance	29.9000 UMHOS			EPA (MOD)9050A	0.33	0.0 *
03/27	1700	AJR	Cadmium	3.409 mg/Kg			SW-846 6010B	6.12	80.0 *
03/27	1700	AJR	Lead	7.409 mg/Kg			SW-846 6010B	5.70	94.6 *

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Control Number: 1203010284
 Customer Name : CLINTON, EAST 55.57 LA PB 30
 Customer Number : 3001
 Report Date : 04/02/12

Sample Date : 03/16/12
 Sample Time : 0918
 Sample Type : GRAB SOIL
 Sample From : EAST LA 55.57 PB30

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

Laboratory Analysis

Analysis			Laboratory Analysis				Quality Assurance		
Date	Time	By	Parameter	Result	Notes	Quantity	Method	Precision % RPD	Accuracy % Recovery
03/20	0800	NTR	Ammonia Nitrogen	< 3.9738 mg/kg			SM 18th 4500-NH3 E	1.21	91.8 *
03/29	0400	NTR	Mercury	< 0.1804 mg/Kg			SW-846 7471	6.38	91.0 *
03/23	1355	NTR	Nitrate Nitrogen	3.208 mg/kg			EPA 9200	0.83	96.1 *
03/30	1700	AJR	Magnesium	750.000 mg/Kg			SW-846 6010B	7.39	95.7 *
03/26	1700	AJR	Phosphorus	446.667 mg/Kg			ASTM D5198-92	1.10	85.4 *
03/28	1700	AJR	Potassium	1350.000 mg/Kg			SW-846 6010B	5.20	104.0 *
03/22	1230	NTR	pH Soil	6.22 S.U.			SW846 9045C	0.33	0.0 *
03/27	1700	AJR	Nickel	< 3.125 mg/Kg			SW-846 6010B	13.28	81.3 *
03/27	1700	AJR	Copper	6.333 mg/Kg			SW-846 6010B	10.11	98.4 *
03/29	1700	AJR	Zinc	41.389 mg/Kg			SW-846 6010B	5.02	96.2 *
03/23	1500	NTR	Nitrogen, Plant Available	3.20 mg/kg			33 MSA 2nd Ed	0.42	96.5 *
03/27	1700	AJR	Arsenic	< 3.125 mg/Kg			SW-846 6010B	11.61	84.0 *
03/22	1340	NTR	Specific Conductance	30.3000 UMHOS			EPA (MOD)9050A	0.33	0.0 *
03/27	1700	AJR	Cadmium	4.111 mg/Kg			SW-846 6010B	6.12	80.0 *
03/27	1700	AJR	Lead	8.056 mg/Kg			SW-846 6010B	5.70	94.6 *

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Control Number: 1203010285

Customer Name : CLINTON, EAST LA AIRPORT9

Customer Number : 2959

Report Date : 04/02/12

Sample Date : 03/16/12

Sample Time : 0905

Sample Type : GRAB SOIL

Sample From : EAST LA AIRPORT 9

Collected By: DWC

Delivery By : DWC

Work Order :

Purchase Order :

Laboratory Analysis

Analysis			Laboratory Analysis				Quality Assurance		
Date	Time	By	Parameter	Result	Notes	Quantity	Method	Precision	Accuracy
								% RPD	% Recovery
03/20	0800	NTR	Ammonia Nitrogen	< 3.2195 mg/kg			SM 18th 4500-NH3 E	1.21	91.8 *
03/29	0400	NTR	Mercury	< 0.1727 mg/Kg			SW-846 7471	6.38	91.0 *
03/23	1355	NTR	Nitrate Nitrogen	3.322 mg/kg			EPA 9200	0.83	96.1 *
03/30	1700	AJR	Magnesium	523.125 mg/Kg			SW-846 6010B	7.39	95.7 *
03/26	1700	AJR	Phosphorus	365.000 mg/Kg			ASTM D5198-92	1.10	85.4 *
03/28	1700	AJR	Potassium	521.250 mg/Kg			SW-846 6010B	5.20	104.0 *
03/22	1230	NTR	pH Soil	5.87 S.U.			SW846 9045C	0.81	0.0 *
03/27	1700	AJR	Nickel	< 3.125 mg/Kg			SW-846 6010B	13.28	81.3 *
03/27	1700	AJR	Copper	4.938 mg/Kg			SW-846 6010B	10.11	98.4 *
03/29	1700	AJR	Zinc	31.563 mg/Kg			SW-846 6010B	5.02	96.2 *
03/23	1500	NTR	Nitogen, Plant Available	3.32 mg/kg			33 MSA 2nd Ed	0.42	96.5 *
03/27	1700	AJR	Arsenic	< 3.125 mg/Kg			SW-846 6010B	11.61	84.0 *
03/22	1340	NTR	Specific Conductance	44.1000 UMHOS			EPA (MOD)9050A	0.33	0.0 *
03/27	1700	AJR	Cadmium	< 3.125 mg/Kg			SW-846 6010B	6.12	80.0 *
03/27	1700	AJR	Lead	6.625 mg/Kg			SW-846 6010B	5.70	94.6 *

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Control Number: 1203010286
 Customer Name : CLINTON, EAST LA WD13
 Customer Number : 2960
 Report Date : 04/02/12

Sample Date : 03/16/12
 Sample Time : 0909
 Sample Type : GRAB SOIL
 Sample From : EAST LA WD13

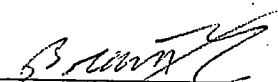
Collected By: DWC
 Delivery By : DWC
 Work Order :
 Purchase Order :

Analysis				<u>Laboratory Analysis</u>			<u>Quality Assurance</u>		
<u>Date</u>	<u>Time</u>	<u>By</u>	<u>Parameter</u>	<u>Result</u>	<u>Notes</u>	<u>Quantity</u>	<u>Method</u>	<u>Precision</u>	<u>Accuracy</u>
								<u>% RPD</u>	<u>% Recovery</u>
03/20	0800	NTR	Ammonia Nitrogen	< 4.5797 mg/kg			SM 18th 4500-NH3 E	1.21	91.8 *
03/29	0400	NTR	Mercury	< 0.1877 mg/Kg			SW-846 7471	5.03	94.0
03/23	1355	NTR	Nitrate Nitrogen	3.612 mg/kg			EPA 9200	0.83	96.1 *
03/30	1700	AJR	Magnesium	586.364 mg/Kg			SW-846 6010B	7.39	95.7
03/26	1700	AJR	Phosphorus	339.545 mg/Kg			ASTM D5198-92	1.10	85.4
03/28	1700	AJR	Potassium	613.636 mg/Kg			SW-846 6010B	5.63	108.5
03/22	1230	NTR	pH Soil	5.63 S.U.			SW846 9045C	0.33	0.0 *
03/27	1700	AJR	Nickel	< 2.500 mg/Kg			SW-846 6010B	6.58	95.8
03/27	1700	AJR	Copper	5.227 mg/Kg			SW-846 6010B	10.11	98.4
03/29	1700	AJR	Zinc	37.818 mg/Kg			SW-846 6010B	5.02	96.2
03/23	1500	NTR	Nitrogen, Plant Available	3.61 mg/kg			33 MSA 2nd Ed	0.42	96.5 *
03/27	1700	AJR	Arsenic	< 2.500 mg/Kg			SW-846 6010B	11.61	84.0 *
03/22	1340	NTR	Specific Conductance	48.8000 UMHOS			EPA (MOD)9050A	0.82	0.0
03/27	1700	AJR	Cadmium	2.591 mg/Kg			SW-846 6010B	6.12	80.0
03/27	1700	AJR	Lead	8.545 mg/Kg			SW-846 6010B	5.70	94.6

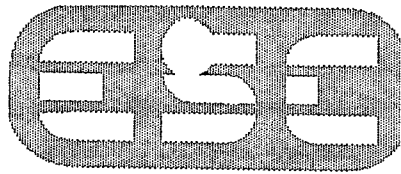
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CHAIN OF CUSTODY

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

Client Information						Project Information					Requested Parameters									
Company Name:		Clinton, City of (East Land App)				Permit/Project #:					Metals (See Comments)	Nitrate Nitrogen(01.3), Phos(15)	Soil pH(23.S), Spec Cond(35.M0)	Ammonia(01.1), PAN(33.AN)						
Address:		P.O. Box 277				Purchase Order #:														
		Clinton, AR 72031				Work Order #:														
Telephone:		501-745-4320				Sampler Name(s):		<i>Dana Collett</i>												
Contact:		Mr. Isaac Keeling				and Signature(s):		<i>Dana Collett</i>												
FAX:		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)	3-280	3/16/12	0932	Grab	Soil	Glass	1 Liter	≤ 6 Deg C	1	X	X	X	X							
East LA 40.24 PB30 (3003)	3-281		0936	Grab	Soil	Glass	1 Liter	≤ 6 Deg C	1	X	X	X	X							
East LA 55.57 PB10 (511)	3-282		0927	Grab	Soil	Glass	1 Liter	≤ 6 Deg C	1	X	X	X	X							
East LA 55.57 PB10 (511A)				Grab	Soil	Glass	1 Liter	≤ 6 Deg C	1	X	X	X	X							
East LA 55.57 PB10 (511B)				Grab	Soil	Glass	1 Liter	≤ 6 Deg C	1	X	X	X	X							
East LA 55.57 PB3 (3002)	3-283		0921	Grab	Soil	Glass	1 Liter	≤ 6 Deg C	1	X	X	X	X							
East LA 55.57 PB30 (3001)	3-284		0918	Grab	Soil	Glass	1 Liter	≤ 6 Deg C	1	X	X	X	X							
East LA Airport9 (2959)	3-285		0905	Grab	Soil	Glass	1 Liter	≤ 6 Deg C	1	X	X	X	X							
East LA WD13 (2960)	3-286		0909	Grab	Soil	Glass	1 Liter	≤ 6 Deg 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 type="checkbox"/>		Intact? <input type="checkbox"/>								
Relinquished By: (Signature and Printed Name)		Date	Time	Received By: (Signature and Printed Name)		Date	Time	Turnaround:		Regular <input checked="" type="checkbox"/>		Special <input type="checkbox"/>								
Relinquished By: (Signature and Printed Name)		Date	Time	Received for Lab By: (Signature and Printed Name)		Date	Time	Were samples properly preserved:		Yes <input checked="" type="checkbox"/>		No <input type="checkbox"/>								
Cool all samples to ≤ 6 degrees C with ice.																				
Comments: Hg(01.14), Mn(12.IS), K(19.IS), Ni(28.IS), Cu(29.IS), Zn(30.IS) As(33.IS), Cd(48.IS), Pb(82.IS), P(15.IS)						Flow Data		Field Test		Time	Analyst	Result	Result	Units						
						Analyst:														
						Time:														
						Reading:														
						Units:														
						Chlorinated? Y N		Fecal Start:												

Directions

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: 1202010544
 Customer Name : CLINTON, EAST GW13
 Customer/Permit No. : 507 / AR0048836 001
 Report Date : 03/02/12

Sample Date : 02/27/12
 Sample Time : 0734
 Sample Type : GRAB WATER
 Sample From : WELL #13

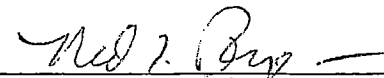
Collected By: DWC
 Delivery By : DWC
 Work Order :
 Purchase Order :

<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>
02/28	1130	NTR	Chloride (as Cl)	35.0 mg/L		SM 4500-Cl-C	0.00	92.3 *
02/27	0734	DWC	pH	6.1 S.U.		SM 18 4500 H+B	0.00	N/A *
02/28	0800	NTR	Solids, Total Dissolved	180.0 mg/L		SM 18th 2540 C	2.41	N/A *
02/27	0734	DWC	Specific Conductance	194.400 U MHOS		EPA 120.1	0.00	N/A *
03/01	0700	NTR	Nitrate + Nitrite	2.96 mg/L		SM 18th 4500-NO3 E	0.99	100.6 *
02/27	0734	DWC	Well Depth, Total	15.40 Feet			N/A	N/A
02/27	0734	DWC	Depth to Water	10.10 Feet			N/A	N/A

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Signature _____



Environmental Services Co., Inc.

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 1107 Century Avenue
 Springdale, AR 72762
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Control Number: 1202010545
 Customer Name : CLINTON, EAST GW14
 Customer/Permit No. : 508 / AR0048836 001
 Report Date : 03/02/12

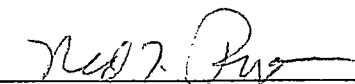
Sample Date : 02/27/12
 Sample Time : 0745
 Sample Type : GRAB WATER
 Sample From : WELL #14

Collected By: DWC
 Delivery By : DWC
 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>
02/28	1130	NTR	Chloride (as Cl)	25.0 mg/L		SM 4500-Cl-C	0.00	92.3 *
02/27	0745	DWC	pH	6.3 S.U.		SM 18 4500 H+B	0.00	N/A *
02/28	0800	NTR	Solids, Total Dissolved	120.0 mg/L		SM 18th 2540 C	2.41	N/A *
02/27	0745	DWC	Specific Conductance	137.500 U MHOS		EPA 120.1	0.00	N/A *
03/01	0700	NTR	Nitrate + Nitrite	0.71 mg/L		SM 18th 4500-NO3 E	0.99	100.6 *
02/27	0745	DWC	Well Depth, Total	13.10 Feet			N/A	N/A
02/27	0745	DWC	Depth to Water	9.50 Feet			N/A	N/A

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

Control Number: 1202010546
 Customer Name : CLINTON, EAST GW16
 Customer/Permit No. : 509 / AR0048836 001
 Report Date : 03/02/12

Sample Date : 02/27/12
 Sample Time : 0806
 Sample Type : GRAB WATER
 Sample From : WELL #16

Collected By: DWC
 Delivery By : DWC
 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>
02/28	1130	NTR	Chloride (as Cl)	40.0 mg/L		SM 4500-Cl-C	0.00	92.3 *
02/27	0806	DWC	pH	6.1 S.U.		SM 18 4500 H+B	0.00	N/A *
02/28	0800	NTR	Solids, Total Dissolved	82.0 mg/L		SM 18th 2540 C	2.41	N/A *
02/27	0806	DWC	Specific Conductance	68.400 U MHOS		EPA 120.1	0.00	N/A *
03/01	0700	NTR	Nitrate + Nitrite	< 0.05 mg/L		SM 18th 4500-NO3 E	0.99	100.6 *
02/27	0806	DWC	Well Depth, Total	14.00 Feet			N/A	N/A
02/27	0806	DWC	Depth to Water	11.10 Feet			N/A	N/A

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Signature _____

Neil J. Pigg
 Environmental Services Co., Inc.

Environmental Services Company, Inc.

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Northwest Arkansas Branch
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 Tel. (479)750-1170 Fax (479)750-1172

Control Number: 1202010547
 Customer Name : CLINTON, EAST GW17
 Customer/Permit No. : 649 / AR0048747 001
 Report Date : 03/02/12

Sample Date : 02/27/12
 Sample Time : 0720
 Sample Type : GRAB WATER
 Sample From : WELL #17

Collected By: DWC
 Delivery By : DWC
 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>
02/28	1130	NTR	Chloride (as Cl)	20.0 mg/L		SM 4500-Cl-C	0.00	85.7
02/27	0720	DWC	pH	5.8 S.U.		SM 18 4500 H+B	0.00	N/A *
02/28	0800	NTR	Solids, Total Dissolved	284.0 mg/L		SM 18th 2540 C	1.65	N/A *
02/27	0720	DWC	Specific Conductance	132.600 U MHOS		EPA 120.1	0.00	N/A *
03/01	0700	NTR	Nitrate + Nitrite	< 0.05 mg/L		SM 18th 4500-NO3 E	1.72	90.9
02/27	0720	DWC	Well Depth, Total	17.60 Feet			N/A	N/A
02/27	0720	DWC	Depth to Water	12.50 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): David Cabot
 and Signature: David Cabot

Sample Date: 2/27/12

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 #2504)
					#1	#2	#3	Time	#1	#2	#3	Time	#1	#2	#3	Time		
Clinton Wells					#1	#2	#3	Time	#1	#2	#3	Time	#1	#2	#3	Time		
#13 (507)	1202010544	0734	10.1	15' 4"	6.11	6.10			194.4	194.4			12.4	12.0			X	X
#14 (508)	2-545	0745	9.5	13' 1"	6.35	6.33			137.5	137.5			12.8	12.8			X	X
#16 (509)	2-546	0806	11.1	14' 0"	6.15	6.14			62.4	62.4	62.4		12.9	12.8			X	X
#17 (649)	2-547	0720	13.5	17' 6"	5.81	5.80			132.6	132.6			15.4	15.4			X	X
#1 (497)				17' 0"													X	X
#2 (498)				19' 3"													X	X
#3 (499)				14' 9"													X	X
#6 (500)				17' 7"													X	X
#7 (501)				16' 1"													X	X
#8 (502)				19' 5"													X	X
#9 (503)				16' 2"													X	X
#10 (504)				20' 0"													X	X
#11 (505)				17' 8"													X	X
#12 (506)				16' 0"													X	X
#18 (1570)				18' 2"													X	X
#19 (1571)				18' 0"													X	X

Relinquished by: David Cabot Time: 1300 Received By Lab: David Cabot Date: 2/27/12 Time: 1300

Comments:

Handwritten initials

Environmental Services Company, Inc.

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Control Number: 1207010088
 Customer Name : CLINTON, EAST GW17
 Customer/Permit No. : 649 / AR0048747 001
 Report Date : 07/11/12

Sample Date : 07/09/12
 Sample Time : 0851
 Sample Type : DRY WELL
 Sample From :

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

<u>Laboratory Analysis</u>							<u>Quality Assurance</u>		
Analysis			<u>Parameter</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>% RPD</u>	<u>% Recovery</u>
07/09	0851	DWC	Dry Well	0.00				N/A	N/A

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Signature *Doyle Brown*
 Environmental Services Co., Inc.

Environmental Services Company, Inc.

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 Little Rock, AR 72211
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 1107 Century Avenue
 Springdale, AR 72762
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Control Number: 1207010087
 Customer Name : CLINTON, EAST GW16
 Customer/Permit No. : 509 / AR0048836 001
 Report Date : 07/13/12

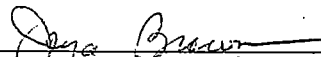
Sample Date : 07/09/12
 Sample Time : 0835
 Sample Type : GRAB WATER
 Sample From : WELL #16

Collected By: DWC
 Delivery By : DWC
 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>
07/12	1015	NTR	Chloride (as Cl)	55.0 mg/L		SM 4500-Cl-C	0.00	89.0 *
07/09	0835	DWC	pH	5.6 S.U.		SM 18 4500 H+B	0.00	N/A *
07/11	1530	NTR	Solids, Total Dissolved	74.0 mg/L		SM 18th 2540 C	2.53	N/A *
07/09	0835	DWC	Specific Conductance	75.500 U MHOS		EPA 120.1	0.00	N/A *
07/12	1230	NTR	Nitrate + Nitrite	< 0.05 mg/L		SM 18th 4500-NO3 E	1.55	96.1 *
07/09	0835	DWC	Well Depth, Total	14.00 Feet			N/A	N/A
07/09	0835	DWC	Depth to Water	12.30 Feet			N/A	N/A

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 Springdale, AR 72762
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Control Number: 1207010086
 Customer Name : CLINTON, EAST GW14
 Customer/Permit No. : 508 / AR0048836 001
 Report Date : 07/11/12

Sample Date : 07/09/12
 Sample Time : 0900
 Sample Type : DRY WELL
 Sample From :

Collected By:
 Delivery By :
 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>
07/09	0900	DWC	Dry Well	0.00			N/A	N/A

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

Control Number: 1207010085
 Customer Name : CLINTON, EAST GW13
 Customer/Permit No. : 507 / AR0048836 001
 Report Date : 07/13/12


Sample Date : 07/09/12
 Sample Time : 0911
 Sample Type : GRAB WATER
 Sample From : WELL #13

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

<u>Laboratory Analysis</u>							<u>Quality Assurance</u>		
<u>Analysis</u>							<u>Precision</u>	<u>Accuracy</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>% RPD</u>	<u>% Recovery</u>
07/12	1015	NTR	Chloride (as Cl)	40.0 mg/L			SM 4500-Cl-C	0.00	89.0
07/09	0911	DWC	pH	6.0 S.U.			SM 18 4500 H+B	0.00	N/A *
07/11	1530	NTR	Solids, Total Dissolved	158.0 mg/L			SM 18th 2540 C	2.53	N/A
07/09	0911	DWC	Specific Conductance	238.000 U MHOS			EPA 120.1	0.00	N/A *
07/12	1230	NTR	Nitrate + Nitrite	2.50 mg/L			SM 18th 4500-NO3 E	1.55	96.1 *
07/09	0911	DWC	Well Depth, Total	15.40 Feet				N/A	N/A
07/09	0911	DWC	Depth to Water	11.00 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): David Cantant
 and Signature: [Signature]

Sample Date: 7/9/12 West

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		
Clinton Wells					#1	#2	#3	Time	#1	#2	#3	Time	#1	#2	#3	Time		
#13 (507)	1207010085	0911	11.0	15' 4"	6.04	6.05			238	238			20.0	20.0			X	X
#14 (508)	7-86	0900	-	13' 1"	-	dry											X	X
#16 (509)	7-87	0835	12.3	14' 0"	5.64	5.64			70.5	70.5			22.4	22.4			X	X
#17 (649)	7-88	0851	-	17' 6"	-	dry											X	X
#1 (497)	7-90	0941	10.9	17' 0"	6.58	6.60			174.5	174.0			17.8	17.7			X	X
#2 (498)	7-96	0952	17.4	19' 3"	5.65	5.67			64.6	64.6			18.2	18.1			X	X
#3 (499)	7-97	0957	7.5	14' 9"	6.33	6.33			334	332			18.1	18.0			X	X
#6 (500)	7-98	1034	12.9	17' 7"	5.51	5.50			44.4	44.4			18.9	18.9			X	X
#7 (501)	7-99	1025	11.7	16' 1"	6.46	6.47			145.4	145.4			21.0	21.0			X	X
#8 (502)	7-100	1007	17.1	19' 5"	5.84	5.82			169.6	169.4			18.6	18.6			X	X
#9 (503)	7-101	1047	16.7	16' 2"	5.98	5.97			259	258			19.7	19.6			X	X
#10 (504)	7-91	1055	14.8	20' 0"	5.59	5.58			111.1	111.0			18.3	18.2			X	X
#11 (505)	7-92	1109	12.3	17' 8"	6.35	6.35			159.7	159.7			22.3	22.5			X	X
#12 (506)	7-93	1118	7.9	16' 0"	6.22	6.21			170.1	170.1			20.0	20.0			X	X
#18 (1570)	7-94	1102	13.4	18' 2"	6.20	6.21			186.8	186.8			18.4	18.4			X	X
#19 (1571)	7-95	1041	14.0	18' 0"	5.42	5.43			182.6	182.6			18.6	18.5			X	X

Relinquished by: David Cantant Time: 1430 Received By Lab: David Cantant Date: 7/9/12 Time: 1430

Comments:

CP

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: 1210010340
 Customer Name : CLINTON, EAST GW13
 Customer/Permit No. : 507 / AR0048836 001
 Report Date : 10/22/12


Sample Date : 10/15/12
 Sample Time : 0848
 Sample Type : GRAB WATER
 Sample From : WELL #13

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

<u>Laboratory Analysis</u>							<u>Quality Assurance</u>			
<u>Analysis</u>	<u>Date</u>	<u>Time</u>	<u>By</u>	<u>Parameter</u>	<u>Result</u>	<u>Notes</u>	<u>Quantity</u>	<u>Method</u>	<u>Precision</u>	<u>Accuracy</u>
									<u>% RPD</u>	<u>% Recovery</u>
	10/16	0815	NTR	Chloride (as Cl)	50.0 mg/L			SM 4500-Cl-C	0.00	100.0
	10/15	0848	DWC	pH	6.5 S.U.			SM 18 4500 H+B	0.00	N/A *
	10/18	0830	NTR	Solids, Total Dissolved	122.0 mg/L			SM 18th 2540 C	3.45	N/A *
	10/15	0848	DWC	Specific Conductance	188.600 U MHOS			EPA 120.1	0.05	N/A
	10/16	1130	NTR	Nitrate + Nitrite	2.22 mg/L			SM 18th 4500-NO3 E	0.84	96.2 *
	10/15	0848	DWC	Well Depth, Total	15.40 Feet				N/A	N/A
	10/15	0848	DWC	Depth to Water	7.50 Feet				N/A	N/A

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

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Signature 
 Environmental Services Co., Inc.

Environmental Services Company, Inc.

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: 1210010341
 Customer Name : CLINTON, EAST GW14
 Customer/Permit No. : 508 / AR0048836 001
 Report Date : 10/22/12

Sample Date : 10/15/12
 Sample Time : 0837
 Sample Type : GRAB WATER
 Sample From : WELL #14

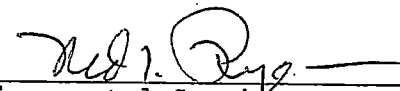
Collected By: DWC
 Delivery By : DWC
 Work Order :
 Purchase Order :

<u>Laboratory Analysis</u>							<u>Quality Assurance</u>		
<u>Analysis</u>							<u>Precision</u>	<u>Accuracy</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>% RPD</u>	<u>% Recovery</u>
10/16	0815	NTR	Chloride (as Cl)	30.0 mg/L			SM 4500-Cl-C	0.00	100.0 *
10/15	0837	DWC	pH	5.9 S.U.			SM 18 4500 H+B	0.00	N/A *
10/18	0830	NTR	Solids, Total Dissolved	104.0 mg/L			SM 18th 2540 C	3.45	N/A *
10/15	0837	DWC	Specific Conductance	131.200 U MHOS			EPA 120.1	0.05	N/A *
10/16	1130	NTR	Nitrate + Nitrite	0.59 mg/L			SM 18th 4500-NO3 E	0.84	96.2
10/15	0837	DWC	Well Depth, Total	13.10 Feet				N/A	N/A
10/15	0837	DWC	Depth to Water	9.60 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: 1210010342
 Customer Name : CLINTON, EAST GW16
 Customer/Permit No. : 509 / AR0048836 001
 Report Date : 10/22/12

Sample Date : 10/15/12
 Sample Time : 0820
 Sample Type : GRAB WATER
 Sample From : WELL #16

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


Laboratory Analysis

Analysis						Quality Assurance			
Date	Time	By	Parameter	Result	Notes	Quantity	Method	Precision	Accuracy
								% RPD	% Recovery
10/16	0815	NTR	Chloride (as Cl)	45.0 mg/L			SM 4500-Cl-C	0.00	100.0 *
10/15	0820	DWC	pH	6.1 S.U.			SM 18 4500 H+B	0.00	N/A *
10/18	0830	NTR	Solids, Total Dissolved	92.0 mg/L			SM 18th 2540 C	3.45	N/A *
10/15	0820	DWC	Specific Conductance	82.000 U MHOS			EPA 120.1	0.05	N/A *
10/16	1130	NTR	Nitrate + Nitrite	< 0.05 mg/L			SM 18th 4500-NO3 E	0.84	96.2 *
10/15	0820	DWC	Well Depth, Total	14.00 Feet				N/A	N/A
10/15	0820	DWC	Depth to Water	11.40 Feet				N/A	N/A

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Signature _____


 Environmental Services Co., Inc.

Environmental Services Company, Inc.

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 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: 1210010343
 Customer Name : CLINTON, EAST GW17
 Customer/Permit No. : 649 / AR0048747 001
 Report Date : 10/22/12

Sample Date : 10/15/12
 Sample Time : 0830
 Sample Type : GRAB WATER
 Sample From : WELL #17

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

<u>Laboratory Analysis</u>							<u>Quality Assurance</u>			
<u>Analysis</u>	<u>Date</u>	<u>Time</u>	<u>By</u>	<u>Parameter</u>	<u>Result</u>	<u>Notes</u>	<u>Quantity</u>	<u>Method</u>	<u>Precision</u>	<u>Accuracy</u>
									<u>% RPD</u>	<u>% Recovery</u>
	10/16	0815	NTR	Chloride (as Cl)	25.0 mg/L			SM 4500-Cl-C	0.00	100.0 *
	10/15	0831	DWC	pH	5.8 S.U.			SM 18 4500 H+B	0.00	N/A *
	10/18	0830	NTR	Solids, Total Dissolved	62.0 mg/L			SM 18th 2540 C	3.45	N/A *
	10/15	0831	DWC	Specific Conductance	74.100 U MHOS			EPA 120.1	0.05	N/A *
	10/16	1130	NTR	Nitrate + Nitrite	0.08 mg/L			SM 18th 4500-NO3 E	0.84	96.2 *
	10/15	0831	DWC	Well Depth, Total	17.60 Feet				N/A	N/A
	10/15	0831	DWC	Depth to Water	12.60 Feet				N/A	N/A

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Signature 
 Environmental Services Co., Inc.



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

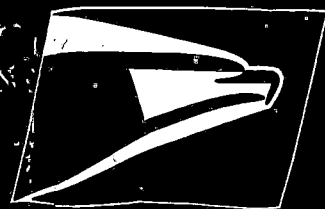
Sampler Name(s): David Calloway
 and Signature: David Calloway

Sample Date: 10/15/12

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		
Clinton Wells					99.9	99.10												
#13 (507)	1210010340	0848	7.5	15' 4"	6.52	6.53	6.52		188.6	188.7			18.5	18.6			X	X
#14 (508)	10-341	0837	9.6	13' 1"	5.90	5.91			181.2	181.2			18.8	18.8			X	X
#16 (509)	10-342	0820	11.4	14' 0"	6.15	6.14	6.15		220.0	221.1			20.7	20.7			X	X
#17 (649)	10-343	0831	12.6	17' 6"	5.88	5.88			74.1	74.0	74.1		19.2	19.2			X	X
#1 (497)	10-345	1022	10.4	17' 0"	7.22	7.21	7.22		209	209			17.8	17.8			X	X
#2 (498)	10-351	1013	16.6	19' 3"	5.38	5.37			65.2	65			18.6	18.6			X	X
#3 (499)	10-352	1006	6.9	14' 9"	6.44	6.43	6.43		290	291			17.8	17.8			X	X
#6 (500)	10-353	1052	13.1	17' 7"	5.37	5.36	5.36		77.6	77.6			19.5	19.5			X	X
#7 (501)	10-354	1041	11.2	16' 1"	6.45	6.45	206		206	205	206		19.0	19.0			X	X
#8 (502)	10-355	0955	16.0	19' 5"	6.70	6.70			260	260			19.3	19.2			X	X
#9 (503)	10-356	1100	11.8	16' 2"	5.83	5.85			251	251	257		19.8	20.0			X	X
#10 (504)	10-346	1117	14.2	20' 0"	5.41	5.41	5.45		223	223			19.6	19.7			X	X
#11 (505)	10-347	1145	9.8	17' 8"	6.11	6.10			170.6				21.4				X	X
#12 (506)	10-348	1132	16.9	16' 0"	6.28	6.26	6.28		154.7	154.7			18.9	18.9			X	X
#18 (1570)	10-349	1123	12.9	18' 2"	6.45	6.44			223	223			19.0	19.0			X	X
#19 (1571)	10-350	1103	13.6	18' 0"	5.91	5.92			201	201	201		19.8	19.8			X	X

Relinquished by: D Calloway Time: 1530 Received By Lab: David Calloway Date: 10/15/12 Time: 1530

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