

Clinton Water & Sewer East Plant

Annual Report
Permit AR0048836
January 2017 – December 2017



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 2017

Parameter	Annual Concentration (mg/L)	2017 Application Data				Total Application Since 2003 Pounds/Acre
		Million Gallons/ Year	Number of Acres	Gallons per Acre-Year	Pounds per Acre	
Total Kjeldahl Nitrogen	10.5100	43.56	1483.18	29,369.3	2.576	634.40
Ammonia Nitrogen	1.2500	43.56	1483.18	29,369.3	0.306	151.07
Nitrate + Nitrite Nitrogen	1.8600	43.56	1483.18	29,369.3	0.456	109.66
BOD-5	21.6667	43.56	1483.18	29,369.3	5.310	1,038.21
Arsenic	< 0.0100	43.56	1483.18	29,369.3	0.002	0.48
Cadmium	< 0.0057	43.56	1483.18	29,369.3	0.001	0.23
Copper	0.0097	43.56	1483.18	29,369.3	0.002	0.27
Lead	< 0.0100	43.56	1483.18	29,369.3	0.002	0.59
Mercury	< 0.0010	43.56	1483.18	29,369.3	0.000	0.09
Selenium	< 0.0100	43.56	1483.18	29,369.3	0.002	0.69
Zinc	0.0267	43.56	1483.18	29,369.3	0.007	4.38
Conductivity, minimum (mhos/cm)*	88.90					
Conductivity, maximum (mhos/cm)*	187.20					
pH, minimum (SU)*	6.70					
pH, maximum (SU)*	7.80					

*Current year values

Crop Grown: Bermuda Hay

Clinton Water and Sewer Department
Clinton, AR
East WWTP - AR0048836
Soil
Calendar Year 2017

Sample ID	Clinton East 40.24 LA PB 3							
Control Number	1704010381							
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			04/19/17	21.50				
Ammonia Nitrogen			04/19/17	7.21				
PAN			04/19/17	28.71				
Phosphorous			04/19/17	577.39				
Potassium			04/19/17	1,045				
Arsenic			04/19/17	9.50				
Cadmium			04/19/17	<2.50				
Copper			04/19/17	6.50				
Lead			04/19/17	16.50				
Magnesium			04/19/17	768.50				
Mercury			04/19/17	<0.1195				
Nickel			04/19/17	19.50				
Zinc			04/19/17	56.00				
Conductivity (mhos/cm)			04/19/17	6.50				
pH (SU)			04/19/17	6.20				

Clinton Water and Sewer Department
Clinton, AR
East WWTP - AR0048836
Soil
Calendar Year 2017

Sample ID	Clinton East 40.24 LA PB 30							
Control Number	1704010382							
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			04/19/17	5.65				
Ammonia Nitrogen			04/19/17	3.42				
PAN			04/19/17	9.07				
Phosphorous			04/19/17	318.49				
Potassium			04/19/17	224.00				
Arsenic			04/19/17	4.50				
Cadmium			04/19/17	<2.50				
Copper			04/19/17	<2.50				
Lead			04/19/17	6.50				
Magnesium			04/19/17	260.50				
Mercury			04/19/17	<0.1177				
Nickel			04/19/17	8.00				
Zinc			04/19/17	19.00				
Conductivity (mhos/cm)			04/19/17	5.90				
pH (SU)			04/19/17	6.10				

Clinton Water and Sewer Department
Clinton, AR
East WWTP - AR0048836
Soil
Calendar Year 2017

Sample ID	Clinton East 55.57 LA PB 10							
Control Number	1704010383							
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			04/19/17	1.27				
Ammonia Nitrogen			04/19/17	5.54				
PAN			04/19/17	6.81				
Phosphorous			04/19/17	564.53				
Potassium			04/19/17	1,100.00				
Arsenic			04/19/17	8.50				
Cadmium			04/19/17	<2.50				
Copper			04/19/17	4.00				
Lead			04/19/17	12.00				
Magnesium			04/19/17	593.00				
Mercury			04/19/17	<0.1151				
Nickel			04/19/17	13.50				
Zinc			04/19/17	38.50				
Conductivity (mhos/cm)			04/19/17	10.30				
pH (SU)			04/19/17	6.10				

Clinton Water and Sewer Department
Clinton, AR
East WWTP - AR0048836
Soil
Calendar Year 2017

Sample ID	Clinton East 55.57 LA PB 3							
Control Number	1704010384							
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			04/19/17	7.57				
Ammonia Nitrogen			04/19/17	4.54				
PAN			04/19/17	12.11				
Phosphorous			04/19/17	308.54				
Potassium			04/19/17	565.50				
Arsenic			04/19/17	5.50				
Cadmium			04/19/17	<2.50				
Copper			04/19/17	3.00				
Lead			04/19/17	10.00				
Magnesium			04/19/17	47.00				
Mercury			04/19/17	472.00				
Nickel			04/19/17	11.00				
Zinc			04/19/17	31.50				
Conductivity (mhos/cm)			04/19/17	12.20				
pH (SU)			04/19/17	5.90				

Clinton Water and Sewer Department
Clinton, AR
East WWTP - AR0048836
Soil
Calendar Year 2017

Sample ID	Clinton East 55.57 LA PB 30							
Control Number	1704010385							
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			04/19/17	10.60				
Ammonia Nitrogen			04/19/17	5.42				
PAN			04/19/17	16.02				
Phosphorous			04/19/17	466.79				
Potassium			04/19/17	746.50				
Arsenic			04/19/17	7.00				
Cadmium			04/19/17	<2.50				
Copper			04/19/17	3.50				
Lead			04/19/17	10.50				
Magnesium			04/19/17	496.50				
Mercury			04/19/17	<0.1146				
Nickel			04/19/17	11.00				
Zinc			04/19/17	32.50				
Conductivity (mhos/cm)			04/19/17	6.20				
pH (SU)			04/19/17	6.10				

Clinton Water and Sewer Department
Clinton, AR
East WWTP - AR0048836
Soil
Calendar Year 2017

Sample ID	Clinton East LA Airport 9							
Control Number	1704010386							
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			04/19/17	4.59				
Ammonia Nitrogen			04/19/17	4.09				
PAN			04/19/17	8.68				
Phosphorous			04/19/17	263.98				
Potassium			04/19/17	368.00				
Arsenic			04/19/17	6.50				
Cadmium			04/19/17	<2.50				
Copper			04/19/17	<2.50				
Lead			04/19/17	11.00				
Magnesium			04/19/17	387.50				
Mercury			04/19/17	<0.1155				
Nickel			04/19/17	11.00				
Zinc			04/19/17	24.50				
Conductivity (mhos/cm)			04/19/17	5.30				
pH (SU)			04/19/17	5.60				

Clinton Water and Sewer Department
Clinton, AR
East WWTP - AR0048836
Soil
Calendar Year 2017

Sample ID	Clinton East LA WD 13							
Control Number	1704010387							
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			04/19/17	3.06				
Ammonia Nitrogen			04/19/17	2.51				
PAN			04/19/17	5.54				
Phosphorous			04/19/17	286.76				
Potassium			04/19/17	693.50				
Arsenic			04/19/17	7.00				
Cadmium			04/19/17	<2.50				
Copper			04/19/17	3.50				
Lead			04/19/17	11.50				
Magnesium			04/19/17	545.50				
Mercury			04/19/17	<0.1186				
Nickel			04/19/17	13.50				
Zinc			04/19/17	42.00				
Conductivity (mhos/cm)			04/19/17	3.90				
pH (SU)			04/19/17	6.10				

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: 1702010460
Customer Name : CLINTON, EAST IW
Customer/Permit No. : 619 / AR0048836 001
Report Date : 03/06/17

Sample Date : 02/23/17
Sample Time : 1345
Sample Type : GRAB WWATER
Sample From : IRRIGATION WATER

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

Laboratory Analysis							Quality Assurance	
Analysis							Precision	Accuracy
Date	Time	By	Parameter	Result	Notes	Quantity	% RPD	% Recovery
02/24	0600	DWC	BOD, 5-day	25.0 mg/L			0.00	91.0 *
02/27	1015	TCF	Ammonia Nitrogen	1.89 mg/L			9.40	110.0 *
02/28	1450	PDH	Kjeldahl Nitrogen Total	12.30 mg/L			1.63	104.5 *
02/23	1355	TCF	pH	6.7 S.U.			0.00	N/A *
03/01	1609	RAH	Copper	0.0090 mg/L			1.69	99.1 *
03/01	1609	RAH	Zinc	0.0100 mg/L			7.48	112.3 *
03/01	1609	RAH	Arsenic	< 0.0100 mg/L			0.26	106.7 *
03/01	1609	RAH	Selenium	< 0.0100 mg/L			8.21	119.5 *
02/23	1359	TCF	Specific Conductance	88.900 U MHOS			1.02	N/A
03/01	1609	RAH	Cadmium	< 0.0040 mg/L			0.68	104.1 *
02/24	1230	RAH	Mercury	< 0.0010 mg/L			2.17	91.7 *
03/01	1609	RAH	Lead	< 0.0100 mg/L			0.36	99.5 *
03/01	1230	TCF	Nitrate + Nitrite	2.52 mg/L			3.74	100.1

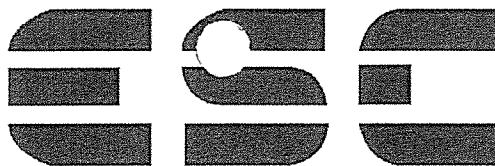
* QA data shown is from a different sample or standard on the same date.

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

Signature

Environmental Services 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					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>Trevor Fortman</i>																
Contact: Mr. Phil Graham						and Signature(s): <i>Trevor Fortman</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	1702010460	2-23-17	1345	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:														
<i>Trevor Fortman</i>		2-23-17	1345	<i>Richard Hall</i>		2-23-17	1545	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:		1355	TCF	6.7		S.U.								
Cd(48.HW), Pb(82.HW)				Time:				Conduct:		1355	TCF	88.9	88.0	UMHOS								
				Reading:																		
				Units:																		
								Fecal Start:				This Document is Page __ of __										

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: 1709010177
Customer Name : CLINTON, EAST IW
Customer/Permit No. : 619 / AR0048836 001
Report Date : 09/29/17

Sample Date : 09/18/17
Sample Time : 1050
Sample Type : GRAB WWATER
Sample From : IRRIGATION WATER

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

Laboratory Analysis							Quality Assurance	
Analysis							Precision	Accuracy
Date	Time	By	Parameter	Result	Notes	Quantity	% RPD	% Recovery
09/20	0630	CLB	BOD, 5-day	18.00 mg/L			4.88	86.0 *
09/21	1100	CLB	Ammonia Nitrogen	1.79 mg/L			0.00	97.8 *
09/25	0915	CLB	Kjeldahl Nitrogen Total	7.83 mg/L			7.89	92.3 *
09/18	1054	TMO	pH	7.0 S.U.			1.44	N/A *
09/21	1815	RAH	Copper	0.01000 mg/L			8.54	112.3 *
09/21	1815	RAH	Zinc	0.0300 mg/L			5.82	115.5 *
09/21	1815	RAH	Arsenic	< 0.0100 mg/L			0.68	109.4 *
09/21	1815	RAH	Selenium	< 0.0100 mg/L			7.67	110.4 *
09/18	1054	TMO	Specific Conductance	165.700 U MHOS			0.00	N/A *
09/21	1815	RAH	Cadmium	0.0090 mg/L			8.26	116.2 *
09/22	1520	RAH	Mercury	< 0.0010 mg/L			3.28	90.9 *
09/21	1815	RAH	Lead	< 0.0100 mg/L			4.20	104.2 *
09/22	1330	CLB	Nitrate + Nitrite	1.74 mg/L			2.81	97.6 *

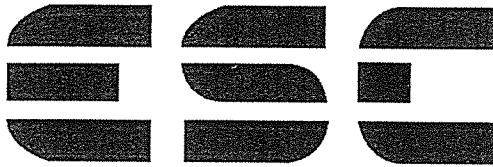
* QA data shown is from a different sample or standard on the same date.

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

Environmental Services Co., Inc.

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



Springdale, Arkansas
479-750-1170

Carlsbad, New Mexico
575-887-1ESC

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

CHAIN OF CUSTODY

Client Information						Project Information								Requested Parameters											
Client:		Clinton, East IW				Permit/Project #:		AR0048836						BOD(3.) NH3-N(15.A), NO3 + NO2(91.) TKN(16.A) Metals (See Comments)											
Address:		P.O. Box 277 Clinton, AR 72031				Purchase Order #:																			
Phone:		501-745-4320				Work Order #																			
Fax:		501-745-2164				Sampler Name(s):		Timothy O'Neal																	
Contact:		Mr. Phil Graham				and Signature(s):		[Signature]																	
ESC Client Number:		619																							
Sample Identification			Sample Collection				Sample Containers																		
Identification	ESC Control #	Date	Time	Type	Matrix	Type	Volume	Preservative	#																
Irrigation Water	1709010177	9-18-17	1050	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) [Signature] Timothy O'Neal		Date	Time	Received for Lab By: (Signature and Printed Name) Dad Cant Deal (about		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:	1054	TMO	7.0	7.0	S.U.													
						Time:	Conduct:	1054	TMO	165.7	165.7	U MHOS													
						Reading:																			
						Units:																			
This Document is Page 1 of 1																									

10m

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: 1710010268
Customer Name : CLINTON, EAST IW
Customer/Permit No. : 619 / AR0048836 001
Report Date : 10/31/17

Sample Date : 10/16/17
Sample Time : 1120
Sample Type : GRAB WWATER
Sample From : IRRIGATION WATER

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

Laboratory Analysis							Quality Assurance	
Analysis							Precision	Accuracy
Date	Time	By	Parameter	Result	Notes	Quantity	% RPD	% Recovery
10/18	0800	PJC	BOD, 5-day	22.00 mg/L			0.00	94.1 *
10/20	0800	PJC	Ammonia Nitrogen	0.07 mg/L			17.75	105.0 *
10/18	0830	CLB	Kjeldahl Nitrogen Total	11.40 mg/L			3.99	96.1 *
10/16	1126	CLB	pH	7.8 S.U.			0.00	N/A *
10/24	1737	RAH	Copper	0.01000 mg/L			1.72	101.8 *
10/24	1737	RAH	Zinc	0.0400 mg/L			1.73	107.4 *
10/24	1737	RAH	Arsenic	< 0.0100 mg/L			0.07	103.2 *
10/24	1737	RAH	Selenium	< 0.0100 mg/L			1.45	108.6 *
10/16	1130	CLB	Specific Conductance	187.200 U MHOS			0.16	N/A *
10/24	1737	RAH	Cadmium	< 0.0040 mg/L			0.86	105.9 *
10/26	1245	RAH	Mercury	< 0.0010 mg/L			3.74	94.7 *
10/24	1737	RAH	Lead	< 0.0100 mg/L			0.96	102.0 *
10/17	1045	CLB	Nitrate + Nitrite	1.32 mg/L			2.20	98.9 *

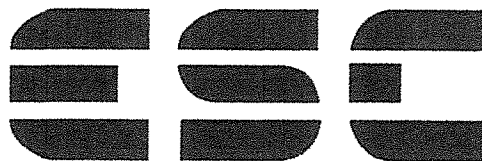
* QA data shown is from a different sample or standard on the same date.

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.

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



Carlsbad, New Mexico
575-887-1ESC

CHAIN OF CUSTODY

[illegible]

am

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: 1704010381
Customer Name : CLINTON, EAST 40.24 LA PB 3
Customer Number : 3004
Report Date : 04/28/17

Sample Date : 04/19/17
Sample Time : 1000
Sample Type : GRAB SOIL
Sample From : EAST LA 40.24 PB3

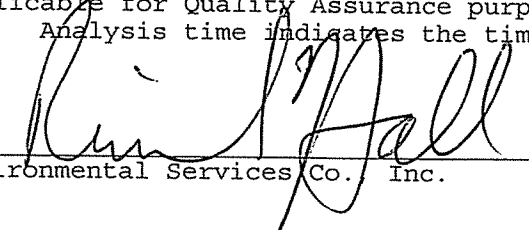
Collected By: JGK
Delivery By : JGK
Work Order :
Purchase Order :

Laboratory Analysis							Quality Assurance	
Analysis							Precision	Accuracy
Date	Time	By	Parameter	Result	Notes	Quantity	% RPD	% Recovery
04/25	1145	TCF	Ammonia Nitrogen	7.2100 mg/kg		SM 1997 4500-NH3 C	0.72	103.0 *
04/27	1350	RAH	Mercury	< 0.1195 mg/Kg		SW-846 7474 02/07	6.31	95.2
04/26	1030	TCF	Nitrate Nitrogen	21.500 mg/kg		SM 2000 4500-NO3 E	0.78	92.0 *
04/26	1430	DAH	Phosphorous, Total (as P)	577.3920 mg/kg		EPA 365.3	4.47	109.0 *
04/25	1619	RAH	Magnesium	768.50 mg/Kg		SW-846 6020A	2.86	107.5
04/25	1619	RAH	Potassium	1045.00 mg/Kg		SW-846 6020A	3.89	114.0
04/25	0900	DAH	pH Soil	6.20 S.U.		SW846 9045C	0.00	N/A
04/25	1619	RAH	Nickel	19.50 mg/Kg		SW-846 6020A	1.24	104.1
04/25	1619	RAH	Copper	6.50 mg/Kg		SW-846 6020A	1.89	112.4
04/25	1619	RAH	Zinc	56.00 mg/Kg		SW-846 6020A	2.71	118.7
04/27	1700	NTR	Nitrogen, Plant Available	28.71 mg/kg		33 MSA 2nd Ed		
04/25	1619	RAH	Arsenic	9.50 mg/Kg		SW-846 6020A	1.51	111.4 *
04/25	0900	DAH	Specific Conductance	6.5000 UMHOS		EPA (MOD)9050A	1.53	N/A
04/25	1619	RAH	Cadmium	< 2.50 mg/Kg		SW-846 6020A	2.54	117.1
04/25	1619	RAH	Lead	16.50 mg/Kg		SW-846 6020A	1.15	105.6

* 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


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: 1704010382
Customer Name : CLINTON, EAST 40.24 LA PB 30
Customer Number : 3003
Report Date : 04/28/17

Sample Date : 04/19/17
Sample Time : 1005
Sample Type : GRAB SOIL
Sample From : EAST LA 40.24 PB30

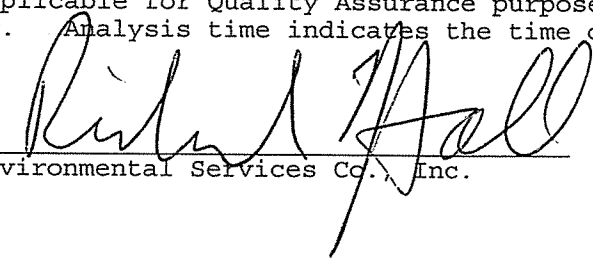
Collected By: JGK
Delivery By : JGK
Work Order :
Purchase Order :

Laboratory Analysis							Quality Assurance	
Analysis							Precision	Accuracy
Date	Time	By	Parameter	Result	Notes	Quantity	% RPD	% Recovery
04/25	1145	TCF	Ammonia Nitrogen	3.4200 mg/kg		SM 1997 4500-NH3 C	0.72	103.0 *
04/27	1350	RAH	Mercury	< 0.1177 mg/Kg		SW-846 7474 02/07	6.31	95.2 *
04/26	1030	TCF	Nitrate Nitrogen	5.650 mg/kg		SM 2000 4500-NO3 E	0.78	92.0 *
04/26	1430	DAH	Phosphorous, Total (as P)	318.4875 mg/kg		EPA 365.3	4.47	109.0 *
04/25	1619	RAH	Magnesium	260.50 mg/Kg		SW-846 6020A	2.86	107.5 *
04/25	1619	RAH	Potassium	224.00 mg/Kg		SW-846 6020A	3.89	114.0 *
04/25	0900	DAH	pH Soil	6.10 S.U.		SW846 9045C	1.60	N/A *
04/25	1619	RAH	Nickel	8.00 mg/Kg		SW-846 6020A	1.24	104.1 *
04/25	1619	RAH	Copper	< 2.50 mg/Kg		SW-846 6020A	1.89	112.4 *
04/25	1619	RAH	Zinc	19.00 mg/Kg		SW-846 6020A	2.71	118.7 *
04/27	1700	NTR	Nitrogen, Plant Available	9.07 mg/kg		33 MSA 2nd Ed		
04/25	1619	RAH	Arsenic	4.50 mg/Kg		SW-846 6020A	1.51	111.4 *
04/25	0900	DAH	Specific Conductance	5.9000 UMHOS		EPA (MOD) 9050A	4.82	N/A *
04/25	1619	RAH	Cadmium	< 2.50 mg/Kg		SW-846 6020A	2.54	117.1 *
04/25	1619	RAH	Lead	6.50 mg/Kg		SW-846 6020A	1.15	105.6 *

* 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


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: 1704010383
Customer Name : CLINTON, EAST 55.57 LA PB 10
Customer/Permit No. : 511 / AR0048836 001
Report Date : 04/28/17

Sample Date : 04/19/17
Sample Time : 0952
Sample Type : GRAB SOIL
Sample From : EAST LA 55.57 PB10

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

Laboratory Analysis							Quality Assurance	
Analysis							Precision	Accuracy
Date	Time	By	Parameter	Result	Notes	Quantity	% RPD	% Recovery
04/25	1145	TCF	Ammonia Nitrogen	5.5400 mg/kg		SM 1997 4500-NH3 C	0.72	103.0 *
04/27	1350	RAH	Mercury	< 0.1151 mg/Kg		SW-846 7474 02/07	6.31	95.2 *
04/26	1030	TCF	Nitrate Nitrogen	1.270 mg/kg		SM 2000 4500-NO3 E	0.78	92.0 *
04/26	1430	DAH	Phosphorous, Total (as P)	564.5250 mg/kg		EPA 365.3	4.47	109.0 *
04/25	1619	RAH	Magnesium	593.00 mg/Kg		SW-846 6020A	2.86	107.5 *
04/25	1619	RAH	Potassium	1100.00 mg/Kg		SW-846 6020A	3.89	114.0 *
04/25	0900	DAH	pH Soil	6.10 S.U.		SW846 9045C	0.00	N/A *
04/25	1619	RAH	Nickel	13.50 mg/Kg		SW-846 6020A	1.24	104.1 *
04/25	1619	RAH	Copper	4.00 mg/Kg		SW-846 6020A	1.89	112.4 *
04/25	1619	RAH	Zinc	38.50 mg/Kg		SW-846 6020A	2.71	118.7 *
04/27	1700	NTR	Nitrogen, Plant Available	6.81 mg/kg		33 MSA 2nd Ed		
04/25	1619	RAH	Arsenic	8.50 mg/Kg		SW-846 6020A	1.51	111.4 *
04/25	0900	DAH	Specific Conductance	10.3000 UMHOS		EPA (MOD) 9050A	1.53	N/A *
04/25	1619	RAH	Cadmium	< 2.50 mg/Kg		SW-846 6020A	2.54	117.1 *
04/25	1619	RAH	Lead	12.00 mg/Kg		SW-846 6020A	1.15	105.6 *

* 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

Richard Hall
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: 1704010384
Customer Name : CLINTON, EAST 55.57 LA PB 3
Customer Number : 3002
Report Date : 04/28/17

Sample Date : 04/19/17
Sample Time : 0939
Sample Type : GRAB SOIL
Sample From : EAST LA 55.57 PB3

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

Laboratory Analysis							Quality Assurance	
Analysis							Precision	Accuracy
Date	Time	By	Parameter	Result	Notes	Quantity	% RPD	% Recovery
04/25	1145	TCF	Ammonia Nitrogen	4.5400 mg/kg		SM 1997 4500-NH3 C	0.72	103.0 *
04/27	1350	RAH	Mercury	< 0.1199 mg/Kg		SW-846 7474 02/07	6.31	95.2 *
04/26	1030	TCF	Nitrate Nitrogen	7.570 mg/kg		SM 2000 4500-NO3 E	0.78	92.0 *
04/26	1430	DAH	Phosphorous, Total (as P)	308.5430 mg/kg		EPA 365.3	4.47	109.0 *
04/25	1619	RAH	Magnesium	472.00 mg/Kg		SW-846 6020A	2.86	107.5 *
04/25	1619	RAH	Potassium	565.50 mg/Kg		SW-846 6020A	3.89	114.0 *
04/25	0900	DAH	pH Soil	5.90 S.U.		SW846 9045C	0.00	N/A *
04/25	1619	RAH	Nickel	11.00 mg/Kg		SW-846 6020A	1.24	104.1 *
04/25	1619	RAH	Copper	3.00 mg/Kg		SW-846 6020A	1.89	112.4 *
04/25	1619	RAH	Zinc	31.50 mg/Kg		SW-846 6020A	2.71	118.7 *
04/27	1700	NTR	Nitrogen, Plant Available	12.11 mg/kg		33 MSA 2nd Ed		
04/25	1619	RAH	Arsenic	5.50 mg/Kg		SW-846 6020A	1.51	111.4 *
04/25	0900	DAH	Specific Conductance	12.2000 UMHOS		EPA (MOD) 9050A	1.53	N/A *
04/25	1619	RAH	Cadmium	< 2.50 mg/Kg		SW-846 6020A	2.54	117.1 *
04/25	1619	RAH	Lead	10.00 mg/Kg		SW-846 6020A	1.15	105.6 *

* 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

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: 1704010385
Customer Name : CLINTON, EAST 55.57 LA PB 30
Customer Number : 3001
Report Date : 04/28/17

Sample Date : 04/19/17
Sample Time : 0945
Sample Type : GRAB SOIL
Sample From : EAST LA 55.57 PB30

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

Laboratory Analysis							Quality Assurance	
Analysis							Precision	Accuracy
Date	Time	By	Parameter	Result	Notes	Quantity	% RPD	% Recovery
04/25	1145	TCF	Ammonia Nitrogen	5.4200 mg/kg			0.72	103.0 *
04/27	1350	RAH	Mercury	< 0.1146 mg/Kg			6.31	95.2 *
04/26	1030	TCF	Nitrate Nitrogen	10.600 mg/kg			0.78	92.0 *
04/26	1430	DAH	Phosphorous, Total (as P)	466.7875 mg/kg			4.47	109.0
04/25	1619	RAH	Magnesium	496.50 mg/Kg			2.86	107.5 *
04/25	1619	RAH	Potassium	746.50 mg/Kg			3.89	114.0 *
04/25	0900	DAH	pH Soil	6.10 S.U.			0.00	N/A *
04/25	1619	RAH	Nickel	11.00 mg/Kg			1.24	104.1 *
04/25	1619	RAH	Copper	3.50 mg/Kg			1.89	112.4 *
04/25	1619	RAH	Zinc	32.50 mg/Kg			2.71	118.7 *
04/27	1700	NTR	Nitrogen, Plant Available	16.02 mg/kg				
04/25	1619	RAH	Arsenic	7.00 mg/Kg			1.51	111.4 *
04/25	0900	DAH	Specific Conductance	6.2000 UMHOS			1.53	N/A *
04/25	1619	RAH	Cadmium	< 2.50 mg/Kg			2.54	117.1 *
04/25	1619	RAH	Lead	10.50 mg/Kg			1.15	105.6 *
* 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

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: 1704010386
Customer Name : CLINTON, EAST LA AIRPORT9
Customer Number : 2959
Report Date : 04/28/17

Sample Date : 04/19/17
Sample Time : 1014
Sample Type : GRAB SOIL
Sample From : EAST LA AIRPORT 9

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

Laboratory Analysis							Quality Assurance	
Analysis							Precision	Accuracy
Date	Time	By	Parameter	Result	Notes	Quantity	% RPD	% Recovery
04/25	1145	TCF	Ammonia Nitrogen	4.0900 mg/kg			0.72	103.0 *
04/27	1350	RAH	Mercury	< 0.1155 mg/Kg			6.31	95.2 *
04/26	1030	TCF	Nitrate Nitrogen	4.590 mg/kg			0.78	92.0 *
04/26	1430	DAH	Phosphorous, Total (as P)	263.9775 mg/kg			4.47	109.0 *
04/25	1619	RAH	Magnesium	387.50 mg/Kg			2.86	107.5 *
04/25	1619	RAH	Potassium	368.00 mg/Kg			3.89	114.0 *
04/25	0900	DAH	pH Soil	5.60 S.U.			0.00	N/A *
04/25	1619	RAH	Nickel	11.00 mg/Kg			1.24	104.1 *
04/25	1619	RAH	Copper	< 2.50 mg/Kg			1.89	112.4 *
04/25	1619	RAH	Zinc	24.50 mg/Kg			2.71	118.7 *
04/27	1700	NTR	Nitrogen, Plant Available	8.68 mg/kg				
04/25	1619	RAH	Arsenic	6.50 mg/Kg			1.51	111.4 *
04/25	0900	DAH	Specific Conductance	5.3000 UMHOS			1.53	N/A *
04/25	1619	RAH	Cadmium	< 2.50 mg/Kg			2.54	117.1 *
04/25	1619	RAH	Lead	11.00 mg/Kg			1.15	105.6 *

* 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

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: 1704010387
Customer Name : CLINTON, EAST LA WD13
Customer Number : 2960
Report Date : 04/28/17

Sample Date : 04/19/17
Sample Time : 0928
Sample Type : GRAB SOIL
Sample From : EAST LA WD13

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

Laboratory Analysis							Quality Assurance	
Analysis							Precision	Accuracy
Date	Time	By	Parameter	Result	Notes	Quantity	% RPD	% Recovery
04/25	1145	TCF	Ammonia Nitrogen	2.5100 mg/kg			0.72	103.0 *
04/27	1350	RAH	Mercury	< 0.1186 mg/Kg			6.31	95.2 *
04/26	1030	TCF	Nitrate Nitrogen	3.060 mg/kg			0.78	92.0 *
04/26	1430	DAH	Phosphorous, Total (as P)	286.7560 mg/kg			4.47	109.0 *
04/25	1619	RAH	Magnesium	545.50 mg/Kg			2.86	107.5 *
04/25	1619	RAH	Potassium	693.50 mg/Kg			3.89	114.0 *
04/25	0900	DAH	pH Soil	6.10 S.U.			1.60	N/A *
04/25	1619	RAH	Nickel	13.50 mg/Kg			1.24	104.1 *
04/25	1619	RAH	Copper	3.50 mg/Kg			1.89	112.4 *
04/25	1619	RAH	Zinc	42.00 mg/Kg			2.71	118.7 *
04/27	1700	NTR	Nitrogen, Plant Available	5.54 mg/kg				
04/25	1619	RAH	Arsenic	7.00 mg/Kg			1.51	111.4 *
04/25	0900	DAH	Specific Conductance	3.9000 UMHOS			4.82	N/A *
04/25	1619	RAH	Cadmium	< 2.50 mg/Kg			2.54	117.1 *
04/25	1619	RAH	Lead	11.50 mg/Kg			1.15	105.6 *

* 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

Environmental Services Co., Inc.

Environmental Services Company, Inc.

Corporate Office

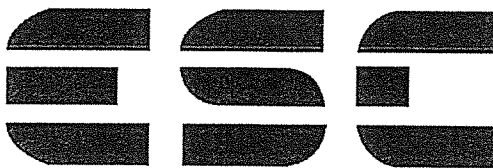
13715 West Markham

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									
Client: Clinton, City of (East Land App)						Permit/Project #:					Metals (See Comments) Nitrate Nitrogen(01.3), Phos(01.9) Soil pH(23.S), Spec Cond(35.M) Ammonia(01.1), PAN(33.AN)									
Address: P.O. Box 277						Purchase Order #:														
Clinton, AR 72031						Work Order #														
Phone: 501-745-4320						Sampler Name(s): Jason Knoernschild														
Fax: Mr. Phil Graham						and Signature(s):														
Contact: 501-745-2164																				
ESC Client Number: Various																				
Sample Identification		Sample Collection				Sample Containers														
Identification	ESC Control #	Date	Time	Type	Matrix	Type	Volume	Preservative	#											
East LA 40.24 PB3 (3004)	1704010381	4/19/17	1000	Grab	Soil	Glass	1 Liter	Cool ≤ 6° C	1	X	X	X	X							
East LA 40.24 PB30 (3003)	1704010382	4/19/17	1005	Grab	Soil	Glass	1 Liter	Cool ≤ 6° C	1	X	X	X	X							
East LA 55.57 PB10 (511)	1704010383	4/19/17	0952	Grab	Soil	Glass	1 Liter	Cool ≤ 6° C	1	X	X	X	X							
East LA 55.57 PB3 (3002)	1704010384	4/19/17	0939	Grab	Soil	Glass	1 Liter	Cool ≤ 6° C	1	X	X	X	X							
East LA 55.57 PB30 (3001)	1704010385	4/19/17	0945	Grab	Soil	Glass	1 Liter	Cool ≤ 6° C	1	X	X	X	X							
East LA Airport9 (2959)	1704010386	4/19/17	1014	Grab	Soil	Glass	1 Liter	Cool ≤ 6° C	1	X	X	X	X							
East LA WD13 (2960)	1704010387	4/19/17	0928	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:												
		4/19/17	1530			4/19/17	1530	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 ___										

DMJ

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: 1702010461
Customer Name : CLINTON, EAST GW13
Customer/Permit No. : 507 / AR0048836 001
Report Date : 03/02/17

Sample Date : 02/23/17
Sample Time : 1250
Sample Type : GRAB WATER
Sample From : WELL #13

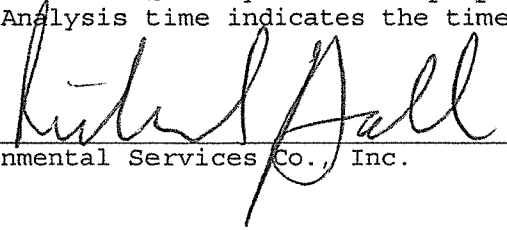
Collected By: TCF
Delivery By : TCF
Work Order :
Purchase Order :

Laboratory Analysis							Quality Assurance	
Analysis							Precision	Accuracy
Date	Time	By	Parameter	Result	Notes	Quantity	% RPD	% Recovery
02/27	1315	DWC	Chloride (as Cl)	20.0 mg/L			0.00	100.9 *
02/23	1250	TCF	pH	6.8 S.U.			0.00	N/A *
02/28	0945	CBJ	Solids, Total Dissolved	138.0 mg/L			1.46	N/A
02/23	1250	TCF	Specific Conductance	58.700 U MHOS			1.02	N/A *
03/01	1230	TCF	Nitrate + Nitrite	1.99 mg/L			3.74	100.1 *
02/23	1250	TCF	Well Depth, Total	15.40 Feet			N/A	N/A
02/23	1250	TCF	Depth to Water	10.20 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: 1702010462
Customer Name : CLINTON, EAST GW14
Customer/Permit No. : 508 / AR0048836 001
Report Date : 03/02/17

Sample Date : 02/23/17
Sample Time : 1303
Sample Type : GRAB WATER
Sample From : WELL #14

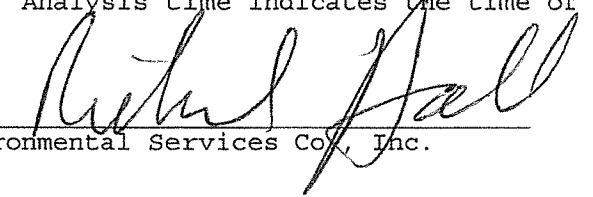
Collected By: TCF
Delivery By : TCF
Work Order :
Purchase Order :

<u>Laboratory Analysis</u>							<u>Quality Assurance</u>	
<u>Analysis</u>			<u>Result</u>	<u>Notes</u>	<u>Quantity</u>	<u>Method</u>	<u>Precision</u>	<u>Accuracy</u>
<u>Date</u>	<u>Time</u>	<u>By</u>					<u>Parameter</u>	<u>% RPD</u>
02/27	1315	DWC	Chloride (as Cl)	< 0.1 mg/L		SM1997 4500ClC	0.00	100.9 *
02/23	1303	TCF	pH	6.3 S.U.		SM 2000 4500-H+B	0.00	N/A *
02/28	0945	CBJ	Solids, Total Dissolved	70.0 mg/L		SM1997 2540 C	1.46	N/A *
02/23	1303	TCF	Specific Conductance	44.800 U MHOS		SM1997 2510B	1.02	N/A *
03/01	1230	TCF	Nitrate + Nitrite	1.12 mg/L		SM2000 4500-NO3 E	3.74	100.1 *
02/23	1303	TCF	Well Depth, Total	13.10 Feet			N/A	N/A
02/23	1303	TCF	Depth to Water	7.80 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: 1702010463
Customer Name : CLINTON, EAST GW16
Customer/Permit No. : 509 / AR0048836 001
Report Date : 03/02/17

Sample Date : 02/23/17
Sample Time : 1319
Sample Type : GRAB WATER
Sample From : WELL #16

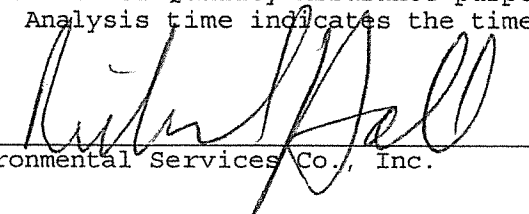
Collected By: TCF
Delivery By : TCF
Work Order :
Purchase Order :

Laboratory Analysis							Quality Assurance	
Analysis							Precision	Accuracy
Date	Time	By	Parameter	Result	Notes	Quantity	% RPD	% Recovery
02/27	1315	DWC	Chloride (as Cl)	< 0.1 mg/L			0.00	100.9 *
02/23	1319	TCF	pH	5.7 S.U.			0.00	N/A *
02/28	0945	CBJ	Solids, Total Dissolved	50.0 mg/L			1.46	N/A *
02/23	1319	TCF	Specific Conductance	36.000 U MHOS			1.02	N/A *
03/01	1230	TCF	Nitrate + Nitrite	1.98 mg/L			3.74	100.1 *
02/23	1319	TCF	Well Depth, Total	14.00 Feet			N/A	N/A
02/23	1319	TCF	Depth to Water	11.70 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: 1702010464
Customer Name : CLINTON, EAST GW17
Customer/Permit No. : 649 / AR0048747 001
Report Date : 03/07/17

Sample Date : 02/23/17
Sample Time : 1335
Sample Type : GRAB WATER
Sample From : WELL #17

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

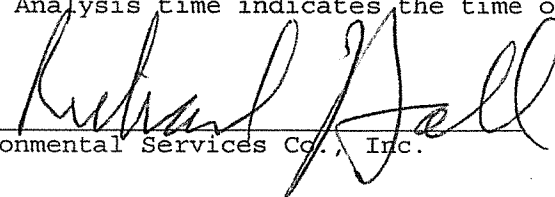
<u>Laboratory Analysis</u>							<u>Quality Assurance</u>	
Analysis							Precision	Accuracy
<u>Date</u>	<u>Time</u>	<u>By</u>	<u>Parameter</u>	<u>Result</u>	<u>Notes</u>	<u>Quantity</u>	<u>% RPD</u>	<u>% Recovery</u>
02/27	1315	DWC	Chloride (as Cl)	< 0.1 mg/L			0.00	100.9 *
02/23	1335	TCF	pH	5.4 S.U.			0.00	N/A *
02/28	0945	CBJ	Solids, Total Dissolved	46.0 mg/L			1.46	N/A *
02/23	1335	TCF	Specific Conductance	39.400 U MHOS			1.02	N/A *
03/01	1230	TCF	Nitrate + Nitrite	5.63 mg/L			3.74	100.1 *
02/23	1335	TCF	Well Depth, Total	17.60 Feet			N/A	N/A
02/23	1335	TCF	Depth to Water	12.80 Feet			N/A	N/A

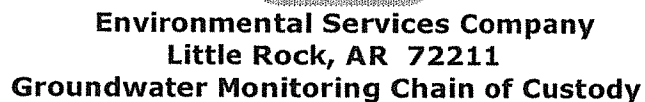
* QA data shown is from a different sample or standard on the same date.

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.





Sampler Name(s): Trevor Forthman
and Signature: Trevor Forthman

Sample Date: 2-23-17

Relinquished by: <u>[Signature]</u>	Time: <u>1545</u>	Received By Lab: <u>[Signature]</u>	Date: <u>2-23-17</u>	Time: <u>1545</u>
Comments:				

Comments:

Environmental Services Company, Inc.

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

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

Control Number: 1709010178
Customer Name : CLINTON, EAST GW13
Customer/Permit No. : 507 / AR0048836 001
Report Date : 09/25/17

Sample Date : 09/18/17
Sample Time : 1125
Sample Type : GRAB WATER
Sample From : #13

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

Laboratory Analysis

Analysis							Quality Assurance	
Date	Time	By	Parameter	Result	Notes	Quantity	Method	Precision
09/22	1325	DWC	Chloride (as Cl)	20.0 mg/L			SM1997 4500ClC	% RPD
09/18	1125	TMO	pH	6.6 S.U.			SM 2000 4500-H+B	% Recovery
09/22	1530	CLB	Solids, Total Dissolved	150.0 mg/L			SM1997 2540 C	
09/18	1125	TMO	Specific Conductance	154.300 U MHOS			SM1997 2510B	
09/18	1125	TMO	Temperature	26.60 °C			SM 2000 2550 B	
09/22	1330	CLB	Nitrate + Nitrite	1.92 mg/L			SM2000 4500-NO3 E	
09/18	1125	TMO	Well Depth, Total	15.40 Feet				
09/18	1125	TMO	Depth to Water	10.00 Feet				

* 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: 1709010179
Customer Name : CLINTON, EAST GW14
Customer/Permit No. : 508 / AR0048836 001
Report Date : 09/25/17

Sample Date : 09/18/17
Sample Time : 1137
Sample Type : GRAB WATER
Sample From : #14

Collected By: TMO
Delivery By : TMO
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>
09/22	1325	DWC	Chloride (as Cl)	10.0 mg/L			SM1997 4500ClC	% RPD	% Recovery
09/18	1137	TMO	pH	6.0 S.U.			SM 2000 4500-H+B	0.00	98.0 *
09/22	1530	CLB	Solids, Total Dissolved	88.0 mg/L			SM1997 2540 C	1.44	N/A *
09/18	1137	TMO	Specific Conductance	118.900 U MHOS			SM1997 2510B	6.45	N/A *
09/18	1137	TMO	Temperature	21.60 °C			SM 2000 2550 B	0.00	N/A *
09/22	1330	CLB	Nitrate + Nitrite	1.03 mg/L			SM2000 4500-NO3 E	0.00	N/A *
09/18	1137	TMO	Well Depth, Total	13.10 Feet				2.81	97.6 *
09/18	1137	TMO	Depth to Water	9.40 Feet				N/A	N/A
								N/A	N/A

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

* 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: 1709010180
Customer Name : CLINTON, EAST GW16
Customer/Permit No. : 509 / AR0048836 001
Report Date : 09/25/17

Sample Date : 09/18/17
Sample Time : 1155
Sample Type : GRAB WATER
Sample From : #16

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

Laboratory Analysis							Quality Assurance	
Analysis							Precision	Accuracy
Date	Time	By	Parameter	Result	Notes	Quantity	% RPD	% Recovery
09/22	1325	DWC	Chloride (as Cl)	10.0 mg/L			0.00	98.0 *
09/18	1155	TMO	pH	4.8 S.U.			1.44	N/A *
09/22	1530	CLB	Solids, Total Dissolved	80.0 mg/L			6.45	N/A *
09/18	1155	TMO	Specific Conductance	71.500 U MHOS			0.00	N/A *
09/18	1155	TMO	Temperature	22.30 °C			0.00	N/A *
09/22	1330	CLB	Nitrate + Nitrite	3.07 mg/L			2.81	97.6 *
09/18	1155	TMO	Well Depth, Total	14.00 Feet			N/A	N/A
09/18	1155	TMO	Depth to Water	12.00 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: 1709010181
Customer Name : CLINTON, EAST GW17
Customer/Permit No. : 649 / AR0048747 001
Report Date : 09/25/17

Sample Date : 09/18/17
Sample Time : 1210
Sample Type : GRAB WATER
Sample From : #17

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

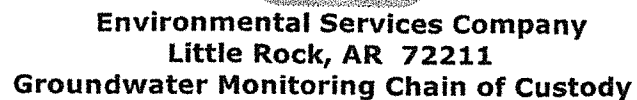
Laboratory Analysis							Quality Assurance	
Analysis							Precision	Accuracy
Date	Time	By	Parameter	Result	Notes	Quantity	% RPD	% Recovery
09/22	1325	DWC	Chloride (as Cl)	10.0 mg/L			0.00	98.0 *
09/18	1210	TMO	pH	4.9 S.U.			1.44	N/A *
09/22	1530	CLB	Solids, Total Dissolved	92.0 mg/L			6.45	N/A *
09/18	1210	TMO	Specific Conductance	79.700 U MHOS			0.00	N/A *
09/18	1210	TMO	Temperature	21.00 °C			0.00	N/A *
09/22	1330	CLB	Nitrate + Nitrite	6.50 mg/L			0.00	N/A *
09/18	1210	TMO	Well Depth, Total	17.60 Feet			2.81	97.6 *
09/18	1210	TMO	Depth to Water	12.00 Feet			N/A	N/A
							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.



Sampler Name(s): Timothy O'Neal
and Signature: Timothy O'Neal

Sample Date: 9-18-17

Relinquished by: <i>James O'Neil</i>	Time: <i>1505</i>	Received By Lab: <i>La Cullout</i>	Date: <i>9-18-17</i>	Time: <i>1505</i>
--------------------------------------	-------------------	------------------------------------	----------------------	-------------------

Comments:

Environmental Services Company, Inc.

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

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

Control Number: 1710010269
Customer Name : CLINTON, EAST GW13
Customer/Permit No. : 507 / AR0048836 001
Report Date : 10/24/17

Sample Date : 10/16/17
Sample Time : 1315
Sample Type : GRAB WATER
Sample From : WELL #13

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

Laboratory Analysis							Quality Assurance	
Analysis							Precision	Accuracy
Date	Time	By	Parameter	Result	Notes	Quantity	% RPD	% Recover
10/20	1530	DWC	Chloride (as Cl)	30.0 mg/L			0.00	96.0
10/16	1415	JJM	pH	5.9 S.U.			1.68	N/A
10/19	0900	CLB	Solids, Total Dissolved	150.0 mg/L			3.92	N/A
10/16	1420	JJM	Specific Conductance	210.000 U MHOS			0.00	N/A
10/16	1422	JJM	Temperature	20.40 °C			0.49	N/A
10/17	1045	CLB	Nitrate + Nitrite	1.86 mg/L			2.20	98.9
10/16	1315	JJM	Well Depth, Total	15.40 Feet			N/A	N/A
10/16	1315	JJM	Depth to Water	10.00 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

Ruthann Bell
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: 1710010270
Customer Name : CLINTON, EAST GW14
Customer/Permit No. : 508 / AR0048836 001
Report Date : 10/24/17

Sample Date : 10/16/17
Sample Time : 1335
Sample Type : GRAB WATER
Sample From : WELL #14

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

Laboratory Analysis							Quality Assurance	
Analysis							Precision	Accuracy
Date	Time	By	Parameter	Result	Notes	Quantity	% RPD	% Recovery
10/20	1530	DWC	Chloride (as Cl)	20.0 mg/L			0.00	96.0 *
10/16	1342	JJM	pH	5.9 S.U.			1.68	N/A *
10/19	0900	CLB	Solids, Total Dissolved	70.0 mg/L			3.92	N/A *
10/16	1344	JJM	Specific Conductance	132.700 U MHOS			0.00	N/A *
10/16	1344	JJM	Temperature	22.50 °C			0.49	N/A *
10/17	1045	CLB	Nitrate + Nitrite	0.68 mg/L			2.20	98.9 *
10/16	1335	JJM	Well Depth, Total	13.01 Feet			N/A	N/A
10/16	1335	JJM	Depth to Water	9.08 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: 1710010271
Customer Name : CLINTON, EAST GW16
Customer/Permit No. : 509 / AR0048836 001
Report Date : 10/19/17

Sample Date : 10/16/17
Sample Time : 1200
Sample Type : DRY WELL
Sample From :

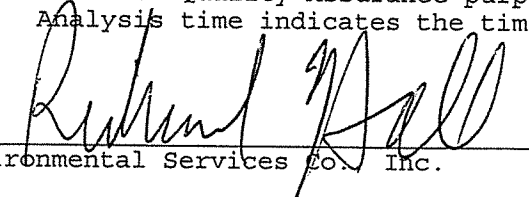
Collected By:
Delivery By :
Work Order :
Purchase Order :

Laboratory Analysis							Quality Assurance	
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>% RPD</u>	<u>% Recover</u>
10/16	1200	JJM	Dry Well	0.00			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: 1710010272
Customer Name : CLINTON, EAST GW17
Customer/Permit No. : 649 / AR0048747 001
Report Date : 10/24/17

Sample Date : 10/16/17
Sample Time : 1240
Sample Type : GRAB WATER
Sample From : WELL #17

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

Laboratory Analysis

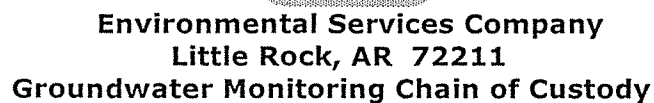
Analysis			Laboratory Analysis				Quality Assurance		
Date	Time	By	Parameter	Result	Notes	Quantity	Method	Precision % RPD	Accuracy % Recovery
10/20	1530	DWC	Chloride (as Cl)	10.0 mg/L			SM1997 4500ClC	0.00	96.0 *
10/16	1240	JJM	pH	5.3 S.U.			SM 2000 4500-H+B	1.68	N/A *
10/19	0900	CLB	Solids, Total Dissolved	110.0 mg/L			SM1997 2540 C	3.92	N/A *
10/16	1245	JJM	Specific Conductance	87.800 U MHOS			SM1997 2510B	0.00	N/A *
10/16	1245	JJM	Temperature	21.20 °C			SM 2000 2550 B	0.49	N/A *
10/17	1045	CLB	Nitrate + Nitrite	5.22 mg/L			SM2000 4500-NO3 E	2.20	98.9 *
10/16	1240	JJM	Well Depth, Total	17.06 Feet				N/A	N/A
10/16	1240	JJM	Depth to Water	13.04 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.



Sampler Name(s): Josh Miller
and Signature: Josh Miller

Sample Date: 10-16-17

Relinquished by: Josh Miller	Time: 6:00	Received By Lab: Kaitlin Hall	Date: 10-16-17	Time: 16:00
Comments:				

10m

01/02/2018 TUE 12:12

FAX 501 745 2164

CLINTON WATER

001

*** FAX TX REPORT ***

TRANSMISSION OK

JOB NO.	2833
DESTINATION ADDRESS	15012211341
PSWD/SUBADDRESS	
DESTINATION ID	ESC
ST. TIME	01/02 12:11
USAGE T	00' 34
PGS.	1
RESULT	OK

CITY OF CLINTON
CLINTON WATER AND SEWER DEPARTMENT
P.O. BOX 277
CLINTON, AR 72031
TELEPHONE (501) 745-4320
FAX (501) 745-2164

TO: ESC
ATTN: Joyce
FAX#: 1-501-221-1341
FROM: Clinton Water & Sewer
PAGES INCLUDING COVER PAGE: 1

MESSAGE:

East Plant: 43.56 mgd, 142.5 ~~acres~~ inches, 1483.18 acres
West Plant: No spray

Crop: brown - Bermuda Hay

East side Owners: Steve Bone and Will Dawson

West side Owners:

CITY OF CLINTON
CLINTON WATER AND SEWER DEPARTMENT

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

TO: ESC

ATTN: Joyce

FAX#: 1-501-221-1341

FROM: Clinton Water & Sewer

PAGES INCLUDING COVER PAGE: 1

MESSAGE:

East Plant: 43.56 mgd, 142.5 ~~acres~~ ^{inches}, 1483.98 acres

West Plant: No spray

Crops: brown - Bermuda Hay

East side Owners: Steve Bone and Will Dawson

West side Owners: Danny Boone

Roy Gray Jennings

CITY OF CLINTON
CLINTON WATER AND SEWER DEPARTMENT

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

TO: ESC

ATTN: Joyce

FAX#: 1-501-221-1341

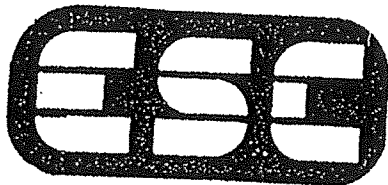
FROM: Clinton Water & Sewer

PAGES INCLUDING COVER PAGE: 5

MESSAGE: April 2017 Paper Work

Thompson
DL

IF ALL PAGES ARE NOT RECEIVED PLEASE NOTIFY AT ONCE!



April 2017

Environmental Services Company, Inc.

Corporate Office:
13715 West Markham
Little Rock, Arkansas 72211
Phone: 501-221-2565
Fax: 501-221-1341

Northwest Branch:
1107 Century Avenue
Springdale, Arkansas 72764
Phone: 501-750-1170
Fax: 501-750-1172

FLOW REPORT SHEET

REPORTING PERIOD:		ESC CLIENT NUMBER:				PERMIT NUMBER:		OUTFALL:
PERMITTEE:		619 East Land Application		AR0078869		East 001		
Clinton, City of		Depth Irrigated (inches)	Area Irrigated (acres)		PH	TEMP. °C		
DAY	MGD		Max of 287					
1								
2								
3								
4								
5								
6								
7								
8								
9								
10								
11								
12								
13								
14								
15								
16								
17	.528	1.5	18.22					
18	.528	1.5	17.25					
19	.528	1.5	16.28					
20	.528	1.5	19.10					
21	.528	1.5	19.26					
22								
23								
24	.528	1.5	18.22					
25	.528	1.5	17.25					
26	.528	1.5	16.28					
27	.528	1.5	19.10					
28	.528	1.5	19.26					
29								
30								
31								
Total		5.28	15	180.22				
HOW OFTEN MUST FLOW BE MEASURED?				WHAT TYPE WEIR IS USED?				
HOW OFTEN MUST PH BE MEASURED?				IS READING:				
				☐ INSTANTANEOUS ☐ TOTALIZER ☐ CONTINUOUS ☐ ESTIMATED				

FOR USE BY ENVIRONMENTAL SERVICES COMPANY ONLY	
FLOW DATA ENTERED BY:	DATE:
DATE FLOW SHEET RECEIVED BY ESC	5-2-17

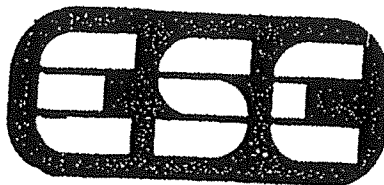
MONTH April 2017

[illegible]

CLINTON WASTEWATER TREATMENT EAST PLANT

MONTH May 2017 E.P.

[illegible]



Environmental Services Company, Inc.

Corporate Office:
13715 West Markham
Little Rock, Arkansas 72211
Phone: 501-221-2565
Fax: 501-221-1341

Northwest Branch:
1107 Century Avenue
Springdale, Arkansas 72764
Phone: 501-750-1170
Fax: 501-750-1172

May 2017 E.P.

FLOW REPORT SHEET

REPORTING PERIOD:		ESC CLIENT NUMBER:				PERMIT NUMBER:		OUTFALL:
PERMITTEE:		619 East Land Application		AR0078869		East 001		
DAY	MGD	Depth Irrigated (inches)	Area Irrigated (acres) Max of 287		PH	TEMP. °C		
1								
2								
3								
4	.528	1.5	18.22					
5	.528	1.5	17.25					
6								
7								
8	.528	1.5	16.28					
9	.528	1.5	19.10					
10	.528	1.5	18.22					
11	.528	1.5	17.25					
12	.528	1.5	16.28					
13								
14								
15	.528	1.5	19.10					
16	.528	1.5	19.26					
17	.528	1.5	18.22					
18								
19	.528	1.5	17.25					
20								
21								
22	.528	1.5	16.28					
23	.528	1.5	19.10					
24								
25	.528	1.5	19.26					
26	.528	1.5	19.10					
27								
28								
29	.528	1.5	18.22					
30								
31								
Totals 8.448		24	288.39					
HOW OFTEN MUST FLOW BE MEASURED?				WHAT TYPE WEIR IS USED?				
HOW OFTEN MUST PH BE MEASURED?				IS READING:				
				☐ INSTANTANEOUS ☐ TOTALIZER ☐ CONTINUOUS ☐ ESTIMATED				

FOR USE BY ENVIRONMENTAL SERVICES COMPANY ONLY	
FLOW DATA ENTERED BY:	DATE:
DATE FLOW SHEET RECEIVED BY ESC	

16 flows entered 6-5-17 aub

CITY OF CLINTON
CLINTON WATER AND SEWER DEPARTMENT

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

TO: ESC

ATTN: Joyce

FAX#: 1-501-221-1341

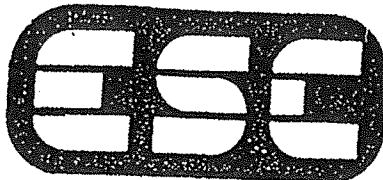
FROM: Clinton Water & Sewer

PAGES INCLUDING COVER PAGE: 4

MESSAGE: June 2017 Paper Work

Handwritten signature
PHL

IF ALL PAGES ARE NOT RECEIVED PLEASE NOTIFY AT ONCE!



Environmental Services Company, Inc.

Corporate Office:
13715 West Markham
Little Rock, Arkansas 72211
Phone: 501-221-2565
Fax: 501-221-1341

Northwest Branch:
1107 Century Avenue
Springdale, Arkansas 72764
Phone: 501-750-1170
Fax: 501-750-1172

FLOW REPORT SHEET

June 2017

REPORTING PERIOD:		ESC CLIENT NUMBER:		PERMIT NUMBER:		OUTFALL:
PERMITTEE:		619 East Land Application		AR0078869		East 001
Clinton, City of		Depth Irrigated (inches)	Area Irrigated (acres)		PH	TEMP. °C
DAY	MGD		Max of 287			
1	.528	1.5	18.29			
2	.528	1.5	16.28			
3						
4						
5	.528	1.5	18.22			
6	.528	1.5	19.26			
7	.528	1.5	19.10			
8	.528	1.5	16.28			
9	.528	1.5	17.25			
10						
11						
12	.528	1.5	18.22			
13	.528	1.5	16.28			
14	.528	1.5	19.10			
15	.528	1.5	18.29			
16	.528	1.5	18.22			
17						
18						
19	.528	1.5	18.22			
20						
21						
22						
23	.528	1.5	18.22			
24						
25						
26	.528	1.5	18.22			
27	.528	1.5	19.10			
28	.528	1.5	17.25			
29	.528	1.5	19.10			
30	.528	1.5	18.22			
31						
Total: 10.032		28.5	343.12			
HOW OFTEN MUST FLOW BE MEASURED?				WHAT TYPE WEIR IS USED?		
HOW OFTEN MUST PH BE MEASURED?				IS READING:		
				___ INSTANTANEOUS ___ TOTALIZER		
				___ CONTINUOUS ___ ESTIMATED		

FOR USE BY ENVIRONMENTAL SERVICES COMPANY ONLY		
FLOW DATA ENTERED BY:		DATE:
DATE FLOW SHEET RECEIVED BY ESC		

CLINTON WASTEWATER TREATMENT DAILY MONITORING EAST PLANT

MONTH June 2017

DATE	FLOW IN MGD	DEPTH IRRIGATED IN INCHES	AREA IRRIGATED	ACRES IRRIGATED
1	1.264	1.5	2E1	8.14
1			1E3	10.15
2			1E1	8.14
1			1E2	8.14
5			2E3	9.11
1			2E5	9.11
6			2E4	9.11
1			1E3	10.15
7			1E4	10.15
1			1E5	8.95
8			1E1	8.14
9			1E2	8.14
9			2E1	8.14
1			2E4	9.11
12			2E3	9.11
1			2E5	9.11
13			1E1	8.14
1			1E2	8.14
14			1E4	10.15
1			1E5	8.95
15			1E3	10.15
1			2E1	8.14
16			2E3	9.11
1			2E5	9.11
19			2E3	9.11
1			2E5	9.11
26			2E3	9.11
27			2E5	9.11
27			1E4	10.15
1			1E5	8.95
28			2E4	9.11
1			2E1	8.14
29			1E4	10.15
1			1E5	8.95
30			2E3	9.11
1			2E5	9.11
23			2E3	9.11
1			2E5	9.11

CITY OF CLINTON
CLINTON WATER AND SEWER DEPARTMENT

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

TO: ESC

ATTN: Joyce

FAX#: 501-221-1341

FROM: Clinton Water & Sewer

PAGES INCLUDING COVER PAGE: 4

MESSAGE: July 2017 Paper Work

Thanks

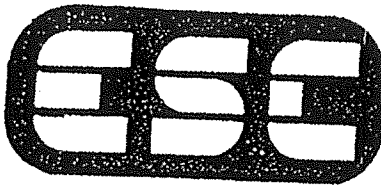
Phil

IF ALL PAGES ARE NOT RECEIVED PLEASE NOTIFY AT ONCE!

MONTH July 2017

[illegible]

Received: 7/31/17 all



Environmental Services Company, Inc.

Corporate Office:
13715 West Markham
Little Rock, Arkansas 72211
Phone: 501-221-2565
Fax: 501-221-1341

Northwest Branch:
1107 Century Avenue
Springdale, Arkansas 72764
Phone: 501-750-1170
Fax: 501-750-1172

FLOW REPORT SHEET

REPORTING PERIOD:		ESC CLIENT NUMBER:				PERMIT NUMBER:		OUTFALL:
PERMITTEE:		619 East Land Application		AR0078869		East 001		
DAY	MGD	Depth Irrigated (inches)	Area Irrigated (acres) Max of 287		PH	TEMP. °C		
1								
2								
3								
4								
5	.528	1.5	18.22					
6	.528	1.5	19.26					
7	.528	1.5	19.10					
8								
9								
10	.528	1.5	18.22					
11	.528	1.5	19.26					
12	.528	1.5	16.28					
13	.528	1.5	19.10					
14								
15								
16								
17	.528	1.5	19.10					
18	.528	1.5	16.28					
19	.528	1.5	18.22					
20	.528	1.5	19.26					
21	.528	1.5	16.28					
22								
23								
24								
25	.528	1.5	19.10					
26	.264	1.5	8.14					
27	.264	1.5	9.11					
28								
29								
30								
31	.264	1.5	9.11					
Totals = 7.656		24	264.04					
HOW OFTEN MUST FLOW BE MEASURED?				WHAT TYPE WEIR IS USED?				
HOW OFTEN MUST PH BE MEASURED?				IS READING:				
				☐ INSTANTANEOUS ☐ TOTALIZER ☐ CONTINUOUS ☐ ESTIMATED				

FOR USE BY ENVIRONMENTAL SERVICES COMPANY ONLY	
FLOW DATA ENTERED BY:	DATE:
DATE FLOW SHEET RECEIVED BY ESC	7/31/17 <i>ay</i>