

Clinton Water & Sewer East Plant

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

Report Revision Date: August 16, 2022



Environmental Services Company, Inc.

Corporate Office

13715 West Markham

Little Rock, Arkansas 72211

501-221-2565 (p)

501-221-1341 (f)

www.esclabs.com

Carlsbad, New Mexico

575-887-7372 (7ESC)

Albuquerque, New Mexico

888-372-3477

Springdale, Arkansas

479-750-1170

Clinton Water and Sewer Department
Clinton, AR
East WWTP 5130-WR-2
Irrigation Water
Calendar Year 2021

Parameter	Annual Concentration (mg/L)	2021 Application Data				Total Application Since 2003 Pounds/Acre
		Million Gallons/Year	Number of Acres	Gallons per Acre-Year	Pounds per Acre	
CBOD	< 2.0000	68.112	86.00	792,000.0	13.219	**
Sodium Absorption Ratio	51.7228	68.112	86.00	792,000.0	341.865	**
Fecal Coliform	< 1.0000	68.112	86.00	792,000.0	6.610	**
Total Suspended Solids	2.5000	68.112	86.00	792,000.0	16.524	**
Potassium	4.6100	68.112	86.00	792,000.0	30.470	**
Total Phosphorus	0.7170	68.112	86.00	792,000.0	4.739	**
Total Kjeldahl Nitrogen	12.9667	68.112	86.00	792,000.0	85.704	871.40
Ammonia Nitrogen	5.1200	68.112	86.00	792,000.0	33.841	241.80
Nitrate + Nitrite Nitrogen	4.6200	68.112	86.00	792,000.0	30.536	163.63
BOD-5	16.2333	68.112	86.00	792,000.0	107.295	1,473.32
Arsenic	< 0.0100	68.112	86.00	792,000.0	0.066	0.70
Cadmium	< 0.0200	68.112	86.00	792,000.0	0.132	0.44
Copper	< 0.0200	68.112	86.00	792,000.0	0.132	0.50
Lead	< 0.0100	68.112	86.00	792,000.0	0.066	0.84
Mercury	< 0.0033	68.112	86.00	792,000.0	0.022	0.13
Selenium	< 0.0150	68.112	86.00	792,000.0	0.099	0.96
Zinc	< 0.0500	68.112	86.00	792,000.0	0.330	5.96
Conductivity, minimum (mhos/cm)*	144.90					
Conductivity, maximum (mhos/cm)*	215.00					
pH, minimum (SU)*	7.30					
pH, maximum (SU)*	8.40					
Nitrogen Application Rate (lbs N/acre/year)	62.97					

* Current year values

Crop Grown: Bermuda Hay

** See sample results from July 25, 2022
(2207010292, page 52 of this report) as
requested by ADEQ

Clinton Water and Sewer Department
Clinton, AR
East WWTP - AR0048836 / 5130-WR-2
Soil
Calendar Year 2021

Sample ID	Clinton East 40.24 LA PB 3							
Control Number	2103010415							
Parameter	1st Quarter		2nd Quarter		3rd Quarter		4th Quarter	
	Sample Date	Analytical Results (mg/Kg)	Sample Date	Analytical Results (mg/Kg)	Sample Date	Analytical Results (mg/Kg)	Sample Date	Analytical Results (mg/Kg)
Nitrate Nitrogen	03/19/21	718.350						
Ammonia Nitrogen	03/19/21	0.1800						
PAN	03/19/21	13.10						
Phosphorous	03/19/21	1.9745						
Potassium	03/19/21	743.67						
Arsenic	03/19/21	6.632						
Cadmium	03/19/21	<0.017						
Copper	03/19/21	7.359						
Lead	03/19/21	15.942						
Magnesium	03/19/21	799.24						
Mercury	03/19/21	0.0800						
Molybdenum	03/19/21	1.320						
Nickel	03/19/21	18.889						
Selenium	03/19/21	1.274						
Zinc	03/19/21	7.359						
Cation Exchange Capacity (meq)	03/19/21	14.2506						
Conductivity (umhos/cm)	03/19/21	213.6459						
Sodium Absorption Ratio	03/19/21	0.1777						
pH (SU)	03/19/21	6.40						

**Clinton Water and Sewer Department
Clinton, AR
East WWTP - AR0048836 / 5130-WR-2
Soil
Calendar Year 2021**

Sample ID	Clinton East 40.24 LA PB 30							
Control Number	2103010416							
Parameter	1st Quarter		2nd Quarter		3rd Quarter		4th Quarter	
	Sample Date	Analytical Results (mg/Kg)	Sample Date	Analytical Results (mg/Kg)	Sample Date	Analytical Results (mg/Kg)	Sample Date	Analytical Results (mg/Kg)
Nitrate Nitrogen	03/19/21	75.810						
Ammonia Nitrogen	03/19/21	0.3120						
PAN	03/19/21	23.80						
Phosphorous	03/19/21	1.1125						
Potassium	03/19/21	1146.90						
Arsenic	03/19/21	12.436						
Cadmium	03/19/21	<0.047						
Copper	03/19/21	20.893						
Lead	03/19/21	24.773						
Magnesium	03/19/21	1745.20						
Mercury	03/19/21	0.1530						
Molybdenum	03/19/21	3.628						
Nickel	03/19/21	31.567						
Selenium	03/19/21	3.439						
Zinc	03/19/21	114.311						
Cation Exchange Capacity (meq)	03/19/21	32.4005						
Conductivity (umhos/cm)	03/19/21	299.7150						
Sodium Absorption Ratio	03/19/21	0.4248						
pH (SU)	03/19/21	6.90						

Clinton Water and Sewer Department
Clinton, AR
East WWTP - AR0048836 / 5130-WR-2
Soil
Calendar Year 2021

Sample ID	Clinton East 55.57 LA PB 10							
Control Number	2103010417							
Parameter	1st Quarter		2nd Quarter		3rd Quarter		4th Quarter	
	Sample Date	Analytical Results (mg/Kg)	Sample Date	Analytical Results (mg/Kg)	Sample Date	Analytical Results (mg/Kg)	Sample Date	Analytical Results (mg/Kg)
Nitrate Nitrogen	03/19/21	176.080						
Ammonia Nitrogen	03/19/21	0.4100						
PAN	03/19/21	8.11						
Phosphorous	03/19/21	0.5872						
Potassium	03/19/21	458.23						
Arsenic	03/19/21	3.628						
Cadmium	03/19/21	<0.024						
Copper	03/19/21	5.095						
Lead	03/19/21	9.206						
Magnesium	03/19/21	589.61						
Mercury	03/19/21	<0.0450						
Molybdenum	03/19/21	1.677						
Nickel	03/19/21	9.919						
Selenium	03/19/21	1.781						
Zinc	03/19/21	28.706						
Cation Exchange Capacity (meq)	03/19/21	10.3785						
Conductivity (umhos/cm)	03/19/21	221.7245						
Sodium Absorption Ratio	03/19/21	0.2123						
pH (SU)	03/19/21	6.80						

Clinton Water and Sewer Department
Clinton, AR
East WWTP - AR0048836 / 5130-WR-2
Soil
Calendar Year 2021

Sample ID	Clinton East 55.57 LA PB 3							
Control Number	2103010418							
Parameter	1st Quarter		2nd Quarter		3rd Quarter		4th Quarter	
	Sample Date	Analytical Results (mg/Kg)	Sample Date	Analytical Results (mg/Kg)	Sample Date	Analytical Results (mg/Kg)	Sample Date	Analytical Results (mg/Kg)
Nitrate Nitrogen	03/19/21	202.960						
Ammonia Nitrogen	03/19/21	0.6620						
PAN	03/19/21	7.21						
Phosphorous	03/19/21	2.3153						
Potassium	03/19/21	526.50						
Arsenic	03/19/21	4.459						
Cadmium	03/19/21	<0.028						
Copper	03/19/21	5.939						
Lead	03/19/21	9.530						
Magnesium	03/19/21	752.59						
Mercury	03/19/21	<0.0310						
Molybdenum	03/19/21	1.950						
Nickel	03/19/21	13.158						
Selenium	03/19/21	2.218						
Zinc	03/19/21	39.203						
Cation Exchange Capacity (meq)	03/19/21	12.7056						
Conductivity (umhos/cm)	03/19/21	199.6038						
Sodium Absorption Ratio	03/19/21	0.3140						
pH (SU)	03/19/21	6.90						

Clinton Water and Sewer Department
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East WWTP - AR0048836 / 5130-WR-2
Soil
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Sample ID	Clinton East 55.57 LA PB 30							
Control Number	2103010419							
Parameter	1st Quarter		2nd Quarter		3rd Quarter		4th Quarter	
	Sample Date	Analytical Results (mg/Kg)	Sample Date	Analytical Results (mg/Kg)	Sample Date	Analytical Results (mg/Kg)	Sample Date	Analytical Results (mg/Kg)
Nitrate Nitrogen	03/19/21	291.360						
Ammonia Nitrogen	03/19/21	0.1960						
PAN	03/19/21	8.56						
Phosphorous	03/19/21	1.4577						
Potassium	03/19/21	693.62						
Arsenic	03/19/21	4.508						
Cadmium	03/19/21	<0.028						
Copper	03/19/21	3.656						
Lead	03/19/21	10.051						
Magnesium	03/19/21	612.17						
Mercury	03/19/21	<0.0440						
Molybdenum	03/19/21	1.977						
Nickel	03/19/21	10.643						
Selenium	03/19/21	2.247						
Zinc	03/19/21	25.087						
Cation Exchange Capacity (meq)	03/19/21	55.6369						
Conductivity (umhos/cm)	03/19/21	245.5300						
Sodium Absorption Ratio	03/19/21	0.0676						
pH (SU)	03/19/21	6.60						

Clinton Water and Sewer Department
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Soil
Calendar Year 2021

Sample ID	Clinton East LA Airport 9							
Control Number	2103010420							
Parameter	1st Quarter		2nd Quarter		3rd Quarter		4th Quarter	
	Sample Date	Analytical Results (mg/Kg)	Sample Date	Analytical Results (mg/Kg)	Sample Date	Analytical Results (mg/Kg)	Sample Date	Analytical Results (mg/Kg)
Nitrate Nitrogen	03/19/21	323.640						
Ammonia Nitrogen	03/19/21	4.2550						
PAN	03/19/21	6.12						
Phosphorous	03/19/21	<0.2567						
Potassium	03/19/21	375.01						
Arsenic	03/19/21	3.933						
Cadmium	03/19/21	<0.021						
Copper	03/19/21	3.528						
Lead	03/19/21	7.595						
Magnesium	03/19/21	396.40						
Mercury	03/19/21	<0.0440						
Molybdenum	03/19/21	1.473						
Nickel	03/19/21	8.489						
Selenium	03/19/21	1.682						
Zinc	03/19/21	16.986						
Cation Exchange Capacity (meq)	03/19/21	9.2592						
Conductivity (umhos/cm)	03/19/21	97.4922						
Sodium Absorption Ratio	03/19/21	0.1891						
pH (SU)	03/19/21	7.10						

**Clinton Water and Sewer Department
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East WWTP - AR0048836 / 5130-WR-2
Soil
Calendar Year 2021**

Sample ID	Clinton East LA WD 13							
Control Number	2103010421							
Parameter	1st Quarter		2nd Quarter		3rd Quarter		4th Quarter	
	Sample Date	Analytical Results (mg/Kg)	Sample Date	Analytical Results (mg/Kg)	Sample Date	Analytical Results (mg/Kg)	Sample Date	Analytical Results (mg/Kg)
Nitrate Nitrogen	03/19/21	6.564						
Ammonia Nitrogen	03/19/21	0.0290						
PAN	03/19/21	5.37						
Phosphorous	03/19/21	0.1101						
Potassium	03/19/21	674.19						
Arsenic	03/19/21	5.415						
Cadmium	03/19/21	<0.038						
Copper	03/19/21	4.988						
Lead	03/19/21	9.896						
Magnesium	03/19/21	735.81						
Mercury	03/19/21	0.0560						
Molybdenum	03/19/21	2.538						
Nickel	03/19/21	13.396						
Selenium	03/19/21	2.699						
Zinc	03/19/21	31.241						
Cation Exchange Capacity (meq)	03/19/21	12.8939						
Conductivity (umhos/cm)	03/19/21	402.1440						
Sodium Absorption Ratio	03/19/21	0.2225						
pH (SU)	03/19/21	6.80						

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: 2103010676
Customer Name : CLINTON, EAST IW
Customer/Permit No. : 619 / AR0048836 001
Report Date : 08/02/22

Sample Date : 03/19/21
Sample Time : 1330
Sample Type : GRAB WWATER
Sample From : IRRIGATION WATER

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

Laboratory Analysis							Quality Assurance	
Analysis							Precision	Accuracy
Date	Time	By	Parameter	Result	Notes	Quantity	% RPD	% Recovery
03/19	1644	EDA	BOD, 5-day	18.0 mg/L			14.97	106.0 *
03/30	1023	AKA	Ammonia as N, (HACH/SM)	5.47 mg/L			1.57	90.3 *
03/25	1017	AKA	Total Kjeldahl Nitrogen	16.7 mg/L			8.01	115.0 *
03/30	1508	KNM	Potassium	4.6100 mg/L			5.34	111.2 *
03/19	1330	HMK	pH	8.4 S.U.			0.00	N/A *
03/30	1508	KNM	Copper	< 0.0200 mg/L			0.41	101.5 *
03/30	1508	KNM	Zinc	< 0.0500 mg/L			4.07	102.0 *
03/30	1508	KNM	Arsenic	< 0.0100 mg/L			0.29	99.7 *
03/30	1508	KNM	Selenium	< 0.0150 mg/L			6.67	99.6 *
04/06	1433	BXW	Spec. Conductance @ 25 C	211.610 umho/c				
03/30	1508	KNM	Cadmium	< 0.02000 mg/L			1.05	105.6 *
03/26	1845	KNM	Mercury	0.0010 mg/L			0.56	111.4 *
03/30	1508	KNM	Lead	< 0.01000 mg/L			0.46	89.2 *
03/22	1331	BXW	Nitrate + Nitrite	6.53 mg/L			0.80	103.0 *
04/01	0800	KNM	Sodium Absorption Ratio	51.7228 Ratio				

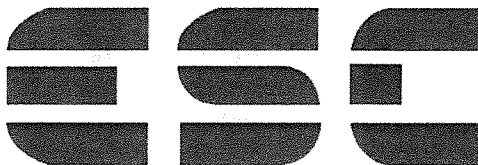
* QA data shown is from a different sample or standard on the same date.

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

Client Information						Project Information					Requested Parameters													
Client:		Clinton, East IW				Permit/Project #:		AR0048836			BOD(3)	NH ₃ -N(15.A), NO ₃ + NO ₂ (91.)	TKN(16.C)	Metals (See Comments)										
Address:		P.O. Box 277 Clinton, AR 72031				Purchase Order #:																		
Phone:		501-745-4320				Work Order #																		
Fax:		501-745-2164				Sampler Name(s):		<i>Kelly Hayden</i>																
Contact:		Mr. Phil Graham				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	2103010676	3/19/21	1330	Grab	Wwater	Plastic	1 Liter	Cool ≤ 6° C	1	X														
	L	L	L	Grab	Wwater	Plastic	8 oz	Cool ≤ 6° C, H ₂ SO ₄ to pH <2	1		X	X												
				Grab	Wwater	Plastic	8 oz	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?														
Relinquished By: (Signature and Printed Name)		Date	Time	Received By: (Signature and Printed Name)		Date	Time	Turnaround:																
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:																
								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), UU.MD						Analyst:	pH:	Time	Analyst	Result	Result	Units												
						Flow Data	Field Test	Time	Analyst	Result	Result	Units												
						Time:	Conduct:	Time	Analyst	Result	Result	Units												
						Reading:																		
						Units:																		
													This Document is Page 1 of 1											

BXW

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: 2107010259
Customer Name : CLINTON, EAST IW
Customer/Permit No. : 619 / AR0048836 001
Report Date : 08/02/21

Sample Date : 07/26/21
Sample Time : 1155
Sample Type : GRAB WWATER
Sample From : IRRIGATION WATER

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

<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>
07/28	0536	BXW	BOD, 5-day	7.9 mg/L		SM 2011 5210 B	16.95	96.0 *
07/28	1010	EJD	Ammonia as N, (HACH/SM)	1.66 mg/L		SM 2011 4500-NH3-G	0.78	97.9 *
07/28	1110	AKA	Total Kjeldahl Nitrogen	7.1 mg/L		02/2014 HACH 10242	0.00	105.0
07/26	1200	DMP	pH	7.3 S.U.		SM 2011 4500-H+B	0.00	N/A *
07/29	2311	NTR	Copper	< 0.0200 mg/L		EPA 200.8	6.34	122.0 *
07/29	2311	NTR	Zinc	< 0.0500 mg/L		EPA 200.8	5.99	109.7 *
07/29	2311	NTR	Arsenic	< 0.0100 mg/L		EPA 200.8	9.89	115.1 *
07/29	2311	NTR	Selenium	< 0.0150 mg/L		EPA 200.8	12.93	96.3 *
07/26	1620	DMP	Spec. Conductance @ 25 C	144.900 umho/c		EPA 120.1	0.07	N/A
07/29	2311	NTR	Cadmium	< 0.0200 mg/L		EPA 200.8	8.32	92.0 *
07/27	1523	KNM	Mercury	< 0.0050 mg/L		EPA 245.1	10.53	99.3
07/29	2311	NTR	Lead	< 0.0100 mg/L		EPA 200.8	4.30	99.3 *
07/27	1155	EJD	Nitrate + Nitrite	3.22 mg/L		HACH 10206	3.32	100.0

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

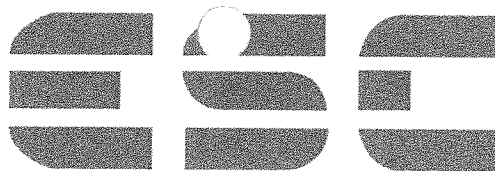
All equipment used is checked and/or calibrated daily. All NPDES testing is conducted in accordance with 40 CFR Part 136. A minimum of 10% spiked and duplicate samples is run on each parameter where applicable for Quality Assurance purposes. Quality Assurance Plan on file with Arkansas Department of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

Signature


Environmental Services Co., Inc.

NIL

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



Springdale, Arkansas
479-750-1170

Carlsbad, New Mexico
575-887-1ESC

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

CHAIN OF CUSTODY

Client Information						Project Information					Requested Parameters												
Client: Clinton, East IW						Permit/Project #: AR0048836					<div style="display: flex; flex-direction: column; align-items: center;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">BOD(3.)</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">NH3-N(15.A), NO3 + NO2(91.)</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">TKN(16.C)</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">Metals (See Comments)</div> </div>												
Address: P.O. Box 277						Purchase Order #:																	
Clinton, AR 72031						Work Order #																	
Phone: 501-745-4320						Sampler Name(s): DAVID PIERCE																	
Fax: 501-745-2164						and Signature(s): David Pierce																	
Contact: Mr. Phil Graham																							
ESC Client Number: 619																							
Sample Identification		Sample Collection				Sample Containers																	
Identification	ESC Control #	Date	Time	Type	Matrix	Type	Volume	Preservative	#														
Irrigation Water	2107010259	07/24/21	1155	Grab	Wwater	Plastic	1 Liter	Cool ≤ 6° C	1	X													
	L	L	L	Grab	Wwater	Plastic	8 oz	Cool ≤ 6° C, H2SO4 to pH <2	1		X	X											
				Grab	Wwater	Plastic	8 oz	HNO3 to pH <2	1				X										
Relinquished By: (Signature and Printed Name)		Date	Time	Received By: (Signature and Printed Name)		Date	Time	Custody Seals:															
								Used? <input checked="" type="checkbox"/> Intact? <input type="checkbox"/>															
Relinquished By: (Signature and Printed Name)		Date	Time	Received By: (Signature and Printed Name)		Date	Time	Turnaround:															
								Regular <input checked="" type="checkbox"/> Special <input type="checkbox"/>															
Relinquished By: (Signature and Printed Name)		Date	Time	Received for Lab By: (Signature and Printed Name)		Date	Time	Were samples properly preserved:															
David Pierce DAVID PIERCE		07/26/21	1640	[Signature]		7/26/21	1640	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>															
Comments: Metals: Hg(50.15), Cu(29.HW), Zn(30.HW), As(33.HW), Se(34.HW)		Flow Data		Field Test		Time	Analyst	Result	Result	Units													
Cd(48.HW), Pb(82.HW), 00.MD				Analyst:		pH:	7/25/20 DLP	7.3	7.5	S.U.													
				Time:		Conduct:	1620 DLP	144.9	144.9	U MHOS													
				Reading:																			
				Units:																			
											This Document is Page 1 of 1												

13XW

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: 2111010350
Customer Name : CLINTON, EAST IW
Customer/Permit No. : 619 / AR0048836 001
Report Date : 12/15/21

Sample Date : 11/15/21
Sample Time : 1010
Sample Type : GRAB WWATER
Sample From : IRRIGATION WATER

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

<u>Laboratory Analysis</u>							<u>Quality Assurance</u>	
<u>Analysis</u>							<u>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>% RPD</u>	<u>% Recovery</u>
11/17	0935	SLL	BOD, 5-day	22.8 mg/L			4.33	108.0 *
11/23	1104	SLL	Ammonia as N, (HACH/SM)	8.23 mg/L			0.00	103.0 *
11/29	0550	NTR	Total Kjeldahl Nitrogen	15.1 mg/L			4.17	96.0 *
11/15	1015	JGK	pH	8.0 S.U.			0.00	N/A *
11/18	0000	NTR	Copper	< 0.0200 mg/L			0.44	96.6 *
11/18	0000	NTR	Zinc	< 0.0500 mg/L			0.96	90.0 *
11/18	0000	NTR	Arsenic	< 0.0100 mg/L			0.01	88.6 *
11/18	0000	NTR	Selenium	< 0.0150 mg/L			1.70	89.7 *
11/15	1015	JGK	Electric Conductivity	215.00 umho/c			0.00	100.0 *
11/18	0000	NTR	Cadmium	< 0.0200 mg/L			0.44	87.0 *
12/14	1200	NTR	Mercury	< 0.0050 mg/L			4.45	81.6 *
11/18	0000	NTR	Lead	< 0.0100 mg/L			0.25	93.1 *
12/01	1000	NTR	Nitrate + Nitrite	4.11 mg/L			5.29	95.5
* QA data shown is from a different sample or standard on the same date.								

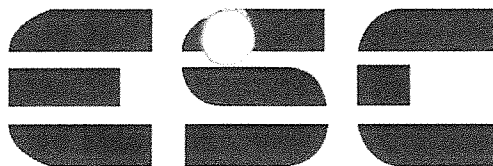
All equipment used is checked and/or calibrated daily. All NPDES testing is conducted in accordance with 40 CFR Part 136. A minimum of 10% spiked and duplicate samples is run on each parameter where applicable for Quality Assurance purposes. Quality Assurance Plan on file with Arkansas Department of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

Signature


Environmental Services Co., Inc.

14

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



Carlsbad, New Mexico
575-887-1ESC

CHAIN OF CUSTODY

Client Information						Project Information							Requested Parameters								
Client:		Clinton, East IW				Permit/Project #:		AR0048836					BOD(3.) NH3-N(15.A), NO3 + NO2(91.) TKN(16.C) Metals (See Comments)								
Address:		P.O. Box 277 Clinton, AR 72031				Purchase Order #:															
Phone:		501-745-4320				Work Order #															
Fax:		501-745-2164				Sampler Name(s):		<u>J. Kneemich</u>													
Contact:		Mr. Phil Graham				and Signature(s):		<u>[Signature]</u>													
ESC Client Number: 619																					
Sample Identification			Sample Collection				Sample Containers														
Identification	ESC Control #	Date	Time	Type	Matrix	Type	Volume	Preservative	#	BOD(3.)	NH3-N(15.A), NO3 + NO2(91.)	TKN(16.C)	Metals (See Comments)								
Irrigation Water	2111010390	11/15/21	1010	Grab	Wwater	Plastic	1 Liter	Cool ≤ 6° C	1	X											
		L	L	Grab	Wwater	Plastic	8 oz	Cool ≤ 6° C, H2SO4 to pH <2	1		X	X									
				Grab	Wwater	Plastic	8 oz	HNO3 to pH <2	1				X								
Relinquished By: (Signature and Printed Name)		Date	Time	Received By: (Signature and Printed Name)			Date	Time	Custody Seals:												
Relinquished By: (Signature and Printed Name)		Date	Time	Received By: (Signature and Printed Name)			Date	Time	Used? <input checked="" type="checkbox"/>		Intact?	<input type="checkbox"/>									
Relinquished By: (Signature and Printed Name)		Date	Time	Received for Lab By: (Signature and Printed Name)			Date	Time	Turnaround:												
Regular <input checked="" type="checkbox"/>		Special	<input type="checkbox"/>	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), 00.MD				Analyst:		pH:	1015	TN	8.0	8.0	S.U.										
				Time:		Conductivity	1015	TN	215	215	U MHOS										
				Reading:																	
				Units:																	
This Document is Page 1 of 1																					

Environmental Services Company, Inc.

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

Control Number: 2103010321
Customer Name : CLINTON, EAST 001
Customer/Permit No. : 495 / AR0048836 001
Report Date : 03/25/21

Composite Date:03/17/21 -03/18/21
Sample Time : 1000-1000/1350(03/18)
Sample Type : COMP/GRAB WWATER
Sample From : FINAL EFFLUENT

Collected By: PHIL GRAHAM/HMK
Delivery By : HMK
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>
03/18	1350	HMK	Dissolved Oxygen	9.30 mg/L		86.80 #/day	0.11	N/A *
03/24	1309	AKA	Ammonia as N, (HACH/SM)	1.38 mg/L		12.88 #/day	0.78	101.0 *
03/18	1350	HMK	pH	8.2 S.U.			0.00	N/A *
03/23	0940	ZWA	Solids, Total Suspended	< 2.50 mg/L		23.33 #/day	33.29	N/A *
03/18	1805	EDA	E. Coliforms	< 1.0 /100ml			0.00	N/A
03/18	1805	EDA	Fecal Coliform	< 1.0 /100ml			0.00	N/A *
03/19	0917	EDA	BOD, Carbonaceous	< 2.0 mg/L		18.67 #/day	14.63	127.0 *
Flow				1.120000	MGD			

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

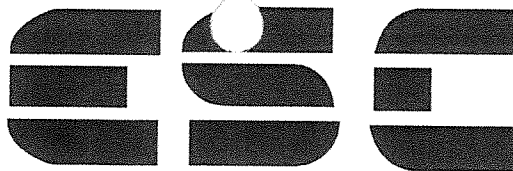
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Signature


Environmental Services Co., Inc.

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Carlsbad, New Mexico
575-887-1ESC

CHAIN OF CUSTODY

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Bew

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

Control Number: 2101010237
Customer Name : CLINTON, EAST 001
Customer/Permit No. : 495 / AR0048836 001
Report Date : 02/10/21

Composite Date: 01/17/21 - 01/18/21
Sample Time : 0900-0900/0900(01/18)
Sample Type : COMP/GRAB WWATER
Sample From : FINAL EFFLUENT

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

Laboratory Analysis

Analysis						Quality Assurance		
Date	Time	By	Parameter	Result	Notes	Quantity	Method	Precision % RPD
01/18	0905	WGW	Dissolved Oxygen	11.11 mg/L		96.29 #/day	SM 2001 4500-O G	0.00
01/21	1100	AKA	Ammonia as N, (HACH/SM)	8.06 mg/L	(b) (c)	69.85 #/day	H/SM 11 10205/4500	3.44
01/18	0905	WGW	pH	8.0 S.U.			SM 2011 4500-H+B	0.00
01/20	1020	AKA	Phosphorus, Total (as P)	0.717 mg/L		6.21 #/day	HACH 10209	1.25
01/19	0845	EDA	Solids, Total Suspended	9.00 mg/L		78.00 #/day	SM 2011 2540 D	22.39
01/18	1653	BXW	E. Coliforms	54.3 /100ml			06/2012 Colilert18	0.00
01/18	1650	BXW	Fecal Coliform	86.9 /100ml			06/2012 Colilert18	0.00
02/10	1247	KNM	Cadmium	6.1100 ug/L	(c) N3	0.05 #/day	EPA 200.8	4.00
01/20	0638	BXW	BOD, Carbonaceous	< 2.0 mg/L		17.33 #/day	SM 2011 5210 B	0.00
01/19	1015	AKA	Nitrate + Nitrite	0.45 mg/L		3.90 #/day	HACH 10206	9.23
				Flow	1.040000	MGD		

N3 The sample detection is too low to permit accurate quantification, but estimated concentration is less than the laboratory PQL and greater than the laboratory method detection limit.

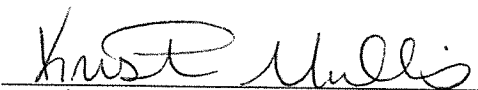
* QA data shown is from a different sample or standard on the same date.

(b) Exceeds Permit Limits for Average Concentration

(c) Exceeds Permit Limits for Average Quantity

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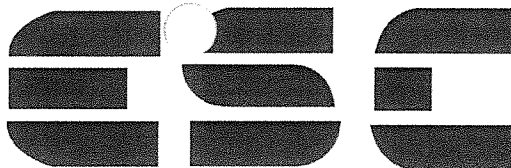
Signature



Environmental Services Co., Inc.

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website: www.esclabs.com



Springdale, Arkansas
479-750-1170

Carlsbad, New Mexico
575-887-1ESC

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

CHAIN OF CUSTODY

Client Information						Project Information						Requested Parameters									
Client: Clinton, East 001						Permit/Project #: AR0048836						<div style="display: flex; flex-direction: column; align-items: center;"> <div>CBOD(70), TSS(28.)</div> <div>NH3-N(15.A)</div> <div>Fecal Coliform (43.IF), E. Coli(43.IE)</div> <div>48. PS <i>Wm</i></div> </div>									
Address: P.O. Box 277						Purchase Order #:															
Clinton, AR 72031						Work Order #:															
Phone: 501-745-4320						Sampler Name(s): <i>William Willoughby</i>															
Fax: 501-745-2164						and Signature(s): <i>William Willoughby</i>															
Contact: Mr. Phil Graham																					
ESC Client Number: 495 (3X per week)																					
Sample Identification		Sample Collection				Sample Containers															
Identification	ESC Control #	Date	Time	Type	Matrix	Type	Volume	Preservative	#												
Final Effluent <i>W/W</i>	<i>2101010250</i>	<i>11/17/21-11/18/21</i>	<i>0900-0900</i>	24Hr. Comp	Wwater	Plastic	1/2 Gal	Cool $\leq 6^{\circ}$ C	1	X											
<i>+</i>	<i>2101010237</i>	<i>" L "</i>	<i>" L "</i>	24Hr. Comp	Wwater	Plastic	8 oz	Cool $\leq 6^{\circ}$ C, H2SO4 to pH <2	1	X											
	<i>L</i>	<i>11/18/21</i>	<i>0900</i>	Grab	Wwater	Plastic	100mls	Cool $\leq 10^{\circ}$ C, Na2S2O3	2	X											
	<i>L</i>	<i>11/17-18/21</i>	<i>0900-0900</i>	<i>24 Hr Comp</i>	<i>Wwater</i>	<i>Plastic</i>	<i>80Z</i>	<i>HNO3 pH <2</i>			<i>X</i>										
Relinquished By: (Signature and Printed Name)		Date	Time	Received By: (Signature and Printed Name)		Date	Time	Custody Seals:													
								Used? <input checked="" type="checkbox"/> Intact? <input type="checkbox"/>													
Relinquished By: (Signature and Printed Name)		Date	Time	Received By: (Signature and Printed Name)		Date	Time	Turnaround:													
								Regular <input checked="" type="checkbox"/> Special <input type="checkbox"/>													
Relinquished By: (Signature and Printed Name)		Date	Time	Received for Lab By: (Signature and Printed Name)		Date	Time	Were samples properly preserved:													
<i>William Willoughby William Willoughby</i>		<i>11/18/21</i>	<i>1626</i>	<i>Benjamin Wong</i>		<i>11/18/21</i>	<i>1626</i>	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>													
				Flow Data		Field Test	Time	Analyst	Result	Result	Units										
Comments:				Analyst:		Grab pH:	<i>0905</i>	<i>WGW</i>	<i>8.0</i>	<i>8.0</i>	S.U.										
				Time:		Grab DO:	<i>0905</i>	<i>WGW</i>	<i>11.1</i>	<i>11.1</i>	mg/L										
				Reading:																	
				Units:		E Coli Start	<i>1653</i>	<i>BXW</i>													
						Fecal Start:	<i>1650</i>	<i>BXW</i>	This Document is Page <u>1</u> of <u>1</u>												



Metals Aliquoted from Composite
ICNM

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

Control Number: 2103010415
Customer Name : CLINTON, EAST 40.24 LA PB 3
Customer Number : 3004
Report Date : 04/24/21

Sample Date : 03/19/21
Sample Time : 1155
Sample Type : GRAB SOIL
Sample From : EAST LA 40.24 PB3


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

Laboratory Analysis							Quality Assurance	
Analysis							Precision	Accuracy
Date	Time	By	Parameter	Result	Notes	Quantity	% RPD	% Recovery
04/14	1220	AKA	Ammonia Nitrogen	0.1800 mg/kg		SM 1997 4500-NH3 C	7.21	96.3 *
04/13	1809	KNM	Mercury	0.0800 mg/Kg		SW846 7474 02/07	15.92	97.4
03/25	1345	EDA	Nitrate Nitrogen	718.350 mg/kg		SM 2000 4500-NO3 E	3.28	101.0 *
04/14	0745	KNM	Phosphorous, Total (as P)	1.9745 mg/kg		EPA 365.3	5.65	100.0 *
04/16	1121	KNM	Magnesium	799.24 mg/Kg		SW-846 6020A	6.29	110.8 *
04/16	1121	KNM	Potassium	743.67 mg/Kg		SW-846 6020A	4.78	97.3 *
03/23	1550	ZWA	pH Soil	6.40 S.U.		SW846 9045C	3.08	N/A
04/16	1121	KNM	Nickel	18.889 mg/Kg		SW-846 6020A	4.01	108.4 *
04/16	1121	KNM	Copper	7.359 mg/Kg		SW-846 6020A	3.04	109.8 *
04/16	1121	KNM	Zinc	44.201 mg/Kg		SW-846 6020A	3.11	96.8 *
04/24	0800	KNM	Nitrogen, Plant Available	13.10 mg/kg		SM1997 4500 N		
04/16	1121	KNM	Arsenic	6.632 mg/Kg		SW-846 6020A	2.43	107.4 *
04/16	1132	KNM	Selenium	1.274 mg/Kg		SW-846 6020A	2.98	103.8 *
04/19	1550	ZWA	Specific Conductance	213.6459 umhos		EPA (MOD)9050A	7.20	87.5
04/16	1132	KNM	Molybdenum	1.320 mg/Kg		SW-846 6020A	1.18	108.3 *
04/16	1121	KNM	Cadmium	< 0.017 mg/Kg		SW-846 6020A	3.65	107.8 *
03/22	1124	ZWA	Solids, % Total	74.441 %		SM 1997 2540 G	0.44	N/A *
04/16	1121	KNM	Lead	15.942 mg/Kg		SW-846 6020A	3.42	106.6 *
04/17	0800	KNM	Cation Exchange Capacity	14.2506 meq		EPA 9081		
04/17	0800	KNM	Sodium Absorption Ratio	0.1777 Ratio		AGRN 724		

* 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
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Control Number: 2103010416
Customer Name : CLINTON, EAST 40.24 LA PB 30
Customer Number : 3003
Report Date : 04/24/21

Sample Date : 03/19/21
Sample Time : 1210
Sample Type : GRAB SOIL
Sample From : EAST LA 40.24 PB30

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

Laboratory Analysis							Quality Assurance	
Analysis							Precision	Accuracy
Date	Time	By	Parameter	Result	Notes	Quantity	% RPD	% Recovery
04/14	1220	AKA	Ammonia Nitrogen	0.3120 mg/kg		SM 1997 4500-NH3 C	7.21	96.3 *
04/13	1809	KNM	Mercury	0.1530 mg/Kg		SW846 7474 02/07	15.92	97.4 *
03/25	1345	EDA	Nitrate Nitrogen	75.810 mg/kg		SM 2000 4500-NO3 E	3.28	101.0 *
04/14	0745	KNM	Phosphorous, Total (as P)	1.1125 mg/kg		EPA 365.3	5.65	100.0 *
04/16	1127	KNM	Magnesium	1745.20 mg/Kg		SW-846 6020A	6.29	110.8 *
04/16	1127	KNM	Potassium	1146.90 mg/Kg		SW-846 6020A	4.78	97.3 *
03/23	1550	ZWA	pH Soil	6.90 S.U.		SW846 9045C	3.08	N/A *
04/16	1127	KNM	Nickel	31.567 mg/Kg		SW-846 6020A	4.01	108.4 *
04/16	1127	KNM	Copper	20.893 mg/Kg		SW-846 6020A	3.04	109.8 *
04/16	1127	KNM	Zinc	114.311 mg/Kg		SW-846 6020A	3.11	96.8 *
04/24	0800	KNM	Nitrogen, Plant Available	23.80 mg/kg		SM1997 4500 N		
04/16	1127	KNM	Arsenic	12.436 mg/Kg		SW-846 6020A	2.43	107.4 *
04/16	1132	KNM	Selenium	3.439 mg/Kg		SW-846 6020A	2.98	103.8 *
04/19	1550	ZWA	Specific Conductance	299.7150 umhos		EPA (MOD)9050A	7.20	87.5 *
04/16	1132	KNM	Molybdenum	3.628 mg/Kg		SW-846 6020A	1.18	108.3 *
04/16	1127	KNM	Cadmium	< 0.047 mg/Kg		SW-846 6020A	3.65	107.8 *
03/22	1124	ZWA	Solids, % Total	28.816 %		SM 1997 2540 G	0.44	N/A *
04/16	1127	KNM	Lead	24.773 mg/Kg		SW-846 6020A	3.42	106.6 *
04/17	0800	KNM	Cation Exchange Capacity	32.4005 meq		EPA 9081		
04/17	0800	KNM	Sodium Absorption Ratio	0.4248 Ratio		AGRN 724		

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

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Signature

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

Control Number: 2103010417
Customer Name : CLINTON, EAST 55.57 LA PB 10
Customer/Permit No. : 511 / AR0048836 001
Report Date : 04/24/21

Sample Date : 03/19/21
Sample Time : 1115
Sample Type : GRAB SOIL
Sample From : EAST LA 55.57 PB10


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

Laboratory Analysis							Quality Assurance	
Analysis							Precision	Accuracy
Date	Time	By	Parameter	Result	Notes	Quantity	% RPD	% Recovery
04/14	1220	AKA	Ammonia Nitrogen	0.4100 mg/kg		SM 1997 4500-NH3 C	7.21	96.3 *
04/07	1818	KNM	Mercury	< 0.0450 mg/Kg		SW846 7474 02/07	19.02	80.9 *
03/25	1345	EDA	Nitrate Nitrogen	176.080 mg/kg		SM 2000 4500-NO3 E	3.28	101.0 *
04/14	0745	KNM	Phosphorous, Total (as P)	0.5872 mg/kg		EPA 365.3	5.65	100.0 *
04/16	1132	KNM	Magnesium	589.61 mg/Kg		SW-846 6020A	6.29	110.8 *
04/16	1132	KNM	Potassium	458.23 mg/Kg		SW-846 6020A	4.78	97.3 *
03/23	1550	ZWA	pH Soil	6.80 S.U.		SW846 9045C	3.08	N/A *
04/16	1132	KNM	Nickel	9.919 mg/Kg		SW-846 6020A	4.01	108.4 *
04/16	1132	KNM	Copper	5.095 mg/Kg		SW-846 6020A	3.04	109.8 *
04/16	1132	KNM	Zinc	28.706 mg/Kg		SW-846 6020A	3.11	96.8 *
04/24	0800	KNM	Nitrogen, Plant Available	8.11 mg/kg		SM1997 4500 N		
04/16	1132	KNM	Arsenic	3.628 mg/Kg		SW-846 6020A	2.43	107.4 *
04/16	1132	NTR	Selenium	1.781 mg/Kg		SW-846 6020A	2.98	108.5 *
04/19	1550	ZWA	Specific Conductance	221.7245 umhos		EPA (MOD)9050A	7.20	87.5 *
04/16	1132	KNM	Molybdenum	1.677 mg/Kg		SW-846 6020A	1.18	108.3 *
04/16	1132	KNM	Cadmium	< 0.024 mg/Kg		SW-846 6020A	3.65	107.8 *
03/22	1124	ZWA	Solids, % Total	72.108 %		SM 1997 2540 G	0.44	N/A *
04/16	1132	KNM	Lead	9.206 mg/Kg		SW-846 6020A	3.42	106.6 *
04/17	0800	KNM	Cation Exchange Capacity	10.3785 meq		EPA 9081		
04/17	0800	KNM	Sodium Absorption Ratio	0.2123 Ratio		AGRN 724		

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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: 2103010418
Customer Name : CLINTON, EAST 55.57 LA PB 3
Customer Number : 3002
Report Date : 04/24/21

Sample Date : 03/19/21
Sample Time : 1125
Sample Type : GRAB SOIL
Sample From : EAST LA 55.57 PB3

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

Laboratory Analysis							Quality Assurance	
Analysis							Precision	Accuracy
Date	Time	By	Parameter	Result	Notes	Quantity	% RPD	% Recovery
04/14	1220	AKA	Ammonia Nitrogen	0.6620 mg/kg		SM 1997 4500-NH3 C	7.21	96.3 *
04/07	1818	KNM	Mercury	< 0.0310 mg/Kg		SW846 7474 02/07	19.02	80.9 *
03/25	1345	EDA	Nitrate Nitrogen	202.960 mg/kg		SM 2000 4500-NO3 E	3.28	101.0 *
04/14	0745	KNM	Phosphorous, Total (as P)	2.3153 mg/kg		EPA 365.3	5.65	100.0 *
04/16	1207	KNM	Magnesium	752.59 mg/Kg		SW-846 6020A	6.29	110.8 *
04/16	1207	KNM	Potassium	526.50 mg/Kg		SW-846 6020A	4.78	97.3 *
03/23	1550	ZWA	pH Soil	6.90 S.U.		SW846 9045C	3.08	N/A *
04/16	1207	KNM	Nickel	13.158 mg/Kg		SW-846 6020A	4.01	108.4 *
04/16	1207	KNM	Copper	5.939 mg/Kg		SW-846 6020A	3.04	109.8 *
04/16	1207	KNM	Zinc	39.203 mg/Kg		SW-846 6020A	3.11	96.8 *
04/24	0800	KNM	Nitrogen, Plant Available	7.21 mg/kg		SM1997 4500 N		
04/16	1207	KNM	Arsenic	4.459 mg/Kg		SW-846 6020A	2.43	107.4 *
04/16	1132	KNM	Selenium	2.218 mg/Kg		SW-846 6020A	2.98	103.8 *
04/19	1550	ZWA	Specific Conductance	199.6038 umhos		EPA (MOD)9050A	7.20	87.5 *
04/16	1132	KNM	Molybdenum	1.950 mg/Kg		SW-846 6020A	1.18	108.3 *
04/16	1207	KNM	Cadmium	< 0.028 mg/Kg		SW-846 6020A	3.65	107.8 *
03/22	1124	ZWA	Solids, % Total	76.030 %		SM 1997 2540 G	0.44	N/A *
04/16	1207	KNM	Lead	9.530 mg/Kg		SW-846 6020A	3.42	106.6 *
04/17	0800	KNM	Cation Exchange Capacity	12.7056 meq		EPA 9081		
04/17	0800	KNM	Sodium Absorption Ratio	0.3140 Ratio		AGRN 724		

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

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

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

Laboratory Analysis							Quality Assurance	
Analysis							Precision	Accuracy
Date	Time	By	Parameter	Result	Notes	Quantity	% RPD	% Recovery
04/14	1220	AKA	Ammonia Nitrogen	0.1960 mg/kg		SM 1997 4500-NH3 C	7.21	96.3 *
04/07	1818	KNM	Mercury	< 0.0440 mg/Kg		SW846 7474 02/07	20.56	80.9 *
03/25	1345	EDA	Nitrate Nitrogen	291.360 mg/kg		SM 2000 4500-NO3 E	3.28	101.0 *
04/14	0745	KNM	Phosphorous, Total (as P)	1.4577 mg/kg		EPA 365.3	5.65	100.0 *
04/16	1156	KNM	Magnesium	612.17 mg/Kg		SW-846 6020A	6.29	110.8 *
04/16	1156	KNM	Potassium	693.62 mg/Kg		SW-846 6020A	4.78	97.3 *
03/23	1550	ZWA	pH Soil	6.60 S.U.		SW846 9045C	3.08	N/A *
04/16	1156	KNM	Nickel	10.643 mg/Kg		SW-846 6020A	4.01	108.4 *
04/16	1156	KNM	Copper	3.656 mg/Kg		SW-846 6020A	3.04	109.8 *
04/16	1156	KNM	Zinc	25.087 mg/Kg		SW-846 6020A	3.11	96.8 *
04/24	0800	KNM	Nitrogen, Plant Available	8.56 mg/kg		SM1997 4500 N		
04/16	1156	KNM	Arsenic	4.508 mg/Kg		SW-846 6020A	2.43	107.4 *
04/16	1132	KNM	Selenium	2.247 mg/Kg		SW-846 6020A	2.98	103.8 *
04/19	1550	ZWA	Specific Conductance	245.5300 umhos		EPA (MOD)9050A	7.20	87.5 *
04/16	1132	KNM	Molybdenum	1.977 mg/Kg		SW-846 6020A	1.19	108.2 *
04/16	1156	KNM	Cadmium	< 0.028 mg/Kg		SW-846 6020A	3.65	107.8 *
03/22	1124	ZWA	Solids, % Total	70.386 %		SM 1997 2540 G	0.44	N/A *
04/16	1156	KNM	Lead	10.051 mg/Kg		SW-846 6020A	3.42	106.6 *
04/17	0800	KNM	Cation Exchange Capacity	55.6369 meq		EPA 9081		
04/17	0800	KNM	Sodium Absorption Ratio	0.0676 Ratio		AGRN 724		

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Control Number: 2103010420
Customer Name : CLINTON, EAST LA AIRPORT9
Customer Number : 2959
Report Date : 04/24/21

Sample Date : 03/19/21
Sample Time : 1250
Sample Type : GRAB SOIL
Sample From : EAST LA AIRPORT9

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

Laboratory Analysis							Quality Assurance	
Analysis							Precision	Accuracy
Date	Time	By	Parameter	Result	Notes	Quantity	% RPD	% Recovery
04/14	1220	AKA	Ammonia Nitrogen	4.2550 mg/kg			7.21	96.3 *
04/07	1818	KNM	Mercury	< 0.0440 mg/Kg			20.56	80.9 *
03/25	1345	EDA	Nitrate Nitrogen	323.640 mg/kg			3.28	101.0
04/14	0745	KNM	Phosphorous, Total (as P)	< 0.2567 mg/kg			5.65	100.0 *
04/16	1202	KNM	Magnesium	396.40 mg/Kg			6.29	110.8 *
04/16	1202	KNM	Potassium	375.01 mg/Kg			4.78	97.3 *
03/23	1550	ZWA	pH Soil	7.10 S.U.			3.08	N/A *
04/16	1202	KNM	Nickel	8.485 mg/Kg			4.01	108.4 *
04/16	1202	KNM	Copper	3.528 mg/Kg			3.04	109.8 *
04/16	1202	KNM	Zinc	16.986 mg/Kg			3.11	96.8 *
04/24	0800	KNM	Nitrogen, Plant Available	6.12 mg/kg				
04/16	1202	KNM	Arsenic	3.933 mg/Kg			2.43	107.4 *
04/16	1132	KNM	Selenium	1.682 mg/Kg			19.97	108.5
04/19	1550	ZWA	Specific Conductance	97.4922 umhos			7.20	87.5 *
04/16	1132	KNM	Molybdenum	1.473 mg/Kg			1.19	108.2 *
04/16	1202	KNM	Cadmium	< 0.021 mg/Kg			3.65	107.8 *
03/22	1124	ZWA	Solids, % Total	77.862 %			0.44	N/A *
04/16	1202	KNM	Lead	7.595 mg/Kg			3.42	106.6 *
04/17	0800	KNM	Cation Exchange Capacity	9.2592 meq				
04/17	0800	KNM	Sodium Absorption Ratio	0.1891 Ratio				

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

Control Number: 2103010421
Customer Name : CLINTON, EAST LA WD13
Customer Number : 2960
Report Date : 04/24/21

Sample Date : 03/19/21
Sample Time : 1320
Sample Type : GRAB SOIL
Sample From : EAST LA WD13

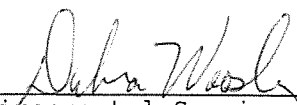
Collected By: HMK
Delivery By : HMK
Work Order :
Purchase Order :

Laboratory Analysis							Quality Assurance	
Analysis							Precision	Accuracy
Date	Time	By	Parameter	Result	Notes	Quantity	% RPD	% Recovery
04/14	1220	AKA	Ammonia Nitrogen	0.0290 mg/kg		SM 1997 4500-NH3 C	7.21	96.3 *
04/07	1818	KNM	Mercury	0.0560 mg/Kg		SW846 7474 02/07	19.02	80.9 *
03/24	1600	EDA	Nitrate Nitrogen	6.564 mg/kg		SM 2000 4500-NO3 E	0.54	100.0 *
04/14	0745	KNM	Phosphorous, Total (as P)	0.1101 mg/kg		EPA 365.3	4.67	100.0
04/16	1213	KNM	Magnesium	735.81 mg/Kg		SW-846 6020A	6.29	110.8 *
04/16	1213	KNM	Potassium	674.19 mg/Kg		SW-846 6020A	15.19	97.3 *
03/23	1550	ZWA	pH Soil	6.80 S.U.		SW846 9045C	3.08	N/A *
04/16	1213	KNM	Nickel	13.396 mg/Kg		SW-846 6020A	4.92	108.4 *
04/16	1213	KNM	Copper	4.988 mg/Kg		SW-846 6020A	3.61	109.8 *
04/16	1213	KNM	Zinc	31.241 mg/Kg		SW-846 6020A	5.01	96.8 *
04/24	0800	KNM	Nitrogen, Plant Available	5.37 mg/kg		SM1997 4500 N		
04/16	1213	KNM	Arsenic	5.415 mg/Kg		SW-846 6020A	2.93	107.4 *
04/16	1132	KNM	Selenium	2.699 mg/Kg		SW-846 6020A	19.97	108.5 *
04/19	1550	ZWA	Specific Conductance	402.1440 umhos		EPA (MOD)9050A	7.20	87.5 *
04/16	1132	KNM	Molybdenum	2.538 mg/Kg		SW-846 6020A	1.19	108.2 *
04/16	1213	KNM	Cadmium	< 0.038 mg/Kg		SW-846 6020A	3.70	107.8 *
03/22	1124	ZWA	Solids, % Total	76.395 %		SM 1997 2540 G	0.44	N/A *
04/16	1213	KNM	Lead	9.896 mg/Kg		SW-846 6020A	4.02	106.6 *
04/17	0800	KNM	Cation Exchange Capacity	12.8939 meq		EPA 9081		
04/17	080	KNM	Sodium Absorption Ratio	0.2225 Ratio		AGRN 724		

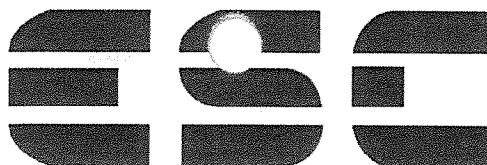
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website: www.esclabs.com



Springdale, Arkansas
479-750-1170

Carlsbad, New Mexico
575-887-1ESC

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

CHAIN OF CUSTODY

Client Information						Project Information					Requested Parameters							
Client: Clinton, City of (East Land App)						Permit/Project #:					<div style="display: flex; flex-direction: column; align-items: center;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">Metals (See Comments)</div> <div>Nitrate Nitrogen(01.3), Phos(01.9)</div> <div>Soil pH(23.S), Spec Cond(35.M)</div> <div>Ammonia(01.1), PAN(33.AN)</div> </div>							
Address: P.O. Box 277						Purchase Order #:												
Clinton, AR 72031						Work Order #												
Phone: 501-745-4320						Sampler Name(s): <i>Hayden Kelly</i>												
Fax: Mr. Phil Graham						and Signature(s): <i>[Signature]</i>												
Contact: 501-745-2164																		
ESC Client Number: Various																		
Sample Identification		Sample Collection				Sample Containers												
Identification	ESC Control #	Date	Time	Type	Matrix	Type	Volume	Preservative	#									
East LA 40.24 PB3 (3004)	2103010415	3/19/21	1155	Grab	Soil	Glass	1 Liter	Cool ≤ 6° C	1	X	X	X	X					
East LA 40.24 PB30 (3003)	2103010416		1210	Grab	Soil	Glass	1 Liter	Cool ≤ 6° C	1	X	X	X	X					
East LA 55.57 PB10 (511)	2103010417		1115	Grab	Soil	Glass	1 Liter	Cool ≤ 6° C	1	X	X	X	X					
East LA 55.57 PB3 (3002)	2103010418		1125	Grab	Soil	Glass	1 Liter	Cool ≤ 6° C	1	X	X	X	X					
East LA 55.57 PB30 (3001)	2103010419		1140	Grab	Soil	Glass	1 Liter	Cool ≤ 6° C	1	X	X	X	X					
East LA Airport9 (2959)	2103010420		1250	Grab	Soil	Glass	1 Liter	Cool ≤ 6° C	1	X	X	X	X					
East LA WD13 (2960)	2103010421		1320	Grab	Soil	Glass	1 Liter	Cool ≤ 6° C	1	X	X	X	X					
Relinquished By: (Signature and Printed Name)		Date	Time	Received By: (Signature and Printed Name)		Date	Time	Custody Seals:										
Relinquished By: (Signature and Printed Name)		Date	Time	Received By: (Signature and Printed Name)		Date	Time	Used? <input checked="" type="checkbox"/> Intact? <input type="checkbox"/>										
Relinquished By: (Signature and Printed Name)		Date	Time	Received for Lab By: (Signature and Printed Name)		Date	Time	Turnaround: Regular <input checked="" type="checkbox"/> Special <input type="checkbox"/>										
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: Hg(01.14), Mn(12.HS), K(19.HS), Ni(28.HS), Cu(29.HS), Zn(30.HS) As(33.HS), Cd(48.HS), Pb(82.HS), 00.MS						Flow Data	Field Test	Time	Analyst	Result	Result	Units						
Analyst:																		
Time:																		
Reading:																		
Units:																		
This Document is Page 1 of 1																		

BXW

Environmental Services Company, Inc.

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Northwest Arkansas Branch
1107 Century Avenue
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Control Number: 2103010411
Customer Name : CLINTON, EAST GW13
Customer/Permit No. : 507 / AR0048836 001
Report Date : 04/08/21

Sample Date : 03/19/21
Sample Time : 1100
Sample Type : GRAB WELL
Sample From : CLINTON WELL #13

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

Laboratory Analysis							Quality Assurance	
Analysis							Precision	Accuracy
Date	Time	By	Parameter	Result	Notes	Quantity	% RPD	% Recovery
03/23	1330	EDA	Chloride (as Cl)	9.9 mg/L			0.00	89.9 *
03/19	1100	HMK	pH	6.5 S.U.			0.00	N/A
03/30	1542	BXW	Solids, Total Dissolved	249.0 mg/L			5.41	N/A *
03/19	1100	HMK	Spec. Conductance @ 25 C	213.000 umho/c			0.00	N/A
03/22	1331	BXW	Nitrate + Nitrite	0.55 mg/L			0.80	103.0
03/19	1100	HMK	Well Depth, Total	15.33 Feet			N/A	N/A
03/19	1100	HMK	Depth to Water	9.75 Feet			N/A	N/A

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Signature


Environmental Services Co., Inc.

CNA

Environmental Services Company, Inc.

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Control Number: 2103010412
Customer Name : CLINTON, EAST GW14
Customer/Permit No. : 508 / AR0048836 001
Report Date : 04/08/21

Sample Date : 03/19/21
Sample Time : 1045
Sample Type : GRAB WELL
Sample From : CLINON WELL #14

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

Laboratory Analysis							Quality Assurance	
Analysis							Precision	Accuracy
Date	Time	By	Parameter	Result	Notes	Quantity	% RPD	% Recovery
03/23	1330	EDA	Chloride (as Cl)	< 0.5 mg/L			0.00	89.9 *
03/19	1045	HMK	pH	5.9 S.U.			0.00	N/A *
03/30	1542	BXW	Solids, Total Dissolved	164.0 mg/L			0.60	N/A *
03/19	1045	HMK	Spec. Conductance @ 25 C	123.000 umho/c			0.00	N/A *
03/22	1331	BXW	Nitrate + Nitrite	7.73 mg/L			0.80	103.0 *
03/19	1045	HMK	Well Depth, Total	13.08 Feet			N/A	N/A
03/19	1045	HMK	Depth to Water	9.33 Feet			N/A	N/A

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Environmental Services Co., Inc.

KWA

Environmental Services Company, Inc.

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Control Number: 2103010413
Customer Name : CLINTON, EAST GW16
Customer/Permit No. : 509 / AR0048836 001
Report Date : 04/08/21


Sample Date : 03/19/21
Sample Time :
Sample Type : NO FLOW
Sample From :

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

Laboratory Analysis							Quality Assurance	
Analysis							Precision	Accuracy
Date	Time	By	Parameter	Result	Notes	Quantity	% RPD	% Recovery
03/19			No Flow	0			N/A	N/A
* QA data shown is from a different sample or standard on the same date.								

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KNM

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

Control Number: 2103010414
Customer Name : CLINTON, EAST GW17
Customer/Permit No. : 649 / AR0048747 001
Report Date : 04/08/21

Sample Date : 03/19/21
Sample Time : 1015
Sample Type : GRAB WELL
Sample From : CLINTON WELL #17

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

Laboratory Analysis							Quality Assurance	
Analysis							Precision	Accuracy
Date	Time	By	Parameter	Result	Notes	Quantity	% RPD	% Recovery
03/23	1330	EDA	Chloride (as Cl)	< 0.5 mg/L			0.00	89.9 *
03/19	1015	HMK	pH	5.5 S.U.			0.00	N/A *
03/30	1542	BXW	Solids, Total Dissolved	64.0 mg/L			0.60	N/A *
03/19	1015	HMK	Spec. Conductance @ 25 C	109.000 umho/c			0.00	N/A *
03/22	1331	BXW	Nitrate + Nitrite	0.84 mg/L			0.80	103.0 *
03/19	1015	HMK	Well Depth, Total	17.50 Feet			N/A	N/A
03/19	1015	HMK	Depth to Water	11.83 Feet			N/A	N/A

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Signature


Environmental Services Co., Inc.

KMK



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

Sample Date: 3/19/21

[illegible]

Relinquished by:

Hayden Kelly

Time:

3/19/21

Received By Lab

Emily Al

Date: 3/19/21

Time: 1750

Comments:

BXLW

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: 2106010566
Customer Name : CLINTON, EAST GW13
Customer/Permit No. : 507 / AR0048836 001
Report Date : 06/28/21

Sample Date : 06/24/21
Sample Time : 0850
Sample Type : GRAB WELL WATER
Sample From : WELL#13

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

Laboratory Analysis							Quality Assurance	
Analysis							Precision	Accuracy
Date	Time	By	Parameter	Result	Notes	Quantity	% RPD	% Recovery
06/28	1035	BXW	Chloride (as Cl)	4.9 mg/L			0.00	100.0 *
06/24	0855	WGW	pH	7.2 S.U.			0.00	N/A *
06/25	1020	AKA	Solids, Total Dissolved	56.7 mg/L			6.14	N/A *
06/24	0855	WGW	Spec. Conductance @ 25 C	1027.000 umho/c			0.00	N/A *
06/28	0913	EJD	Nitrate + Nitrite	1.53 mg/L			0.27	99.0 *
06/24	0855	WGW	Well Depth, Total	15.40 Feet			N/A	N/A
06/24	0855	WGW	Depth to Water	13.50 Feet			N/A	N/A

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

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

Signature


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

Control Number: 2106010567
Customer Name : CLINTON, EAST GW14
Customer/Permit No. : 508 / AR0048836 001
Report Date : 06/28/21

Sample Date : 06/24/21
Sample Time : 0910
Sample Type : GRAB WELL WATER
Sample From : WELL #14

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

Laboratory Analysis							Quality Assurance	
Analysis							Precision	Accuracy
Date	Time	By	Parameter	Result	Notes	Quantity	% RPD	% Recovery
06/28	1035	BXW	Chloride (as Cl)	< 0.5 mg/L			0.00	100.0 *
06/24	0915	WGW	pH	7.2 S.U.			0.00	N/A *
06/25	1020	AKA	Solids, Total Dissolved	65.0 mg/L			6.14	N/A *
06/24	0915	WGW	Spec. Conductance @ 25 C	101.000 umho/c			0.00	N/A *
06/28	0913	EJD	Nitrate + Nitrite	0.75 mg/L			0.27	99.0 *
06/24	0915	WGW	Well Depth, Total	13.10 Feet			N/A	N/A
06/24	0915	WGW	Depth to Water	11.10 Feet			N/A	N/A

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

Control Number: 2106010568
Customer Name : CLINTON, EAST GW16
Customer/Permit No. : 509 / AR0048836 001
Report Date : 07/01/21

Sample Date : 06/24/21
Sample Time : 0900
Sample Type : DRY WELL
Sample From :

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

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>
06/24	0900	WGW	Dry Well	1.00				% RPD	% Recovery
								N/A	N/A

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

Control Number: 2106010569
Customer Name : CLINTON, EAST GW17
Customer/Permit No. : 649 / AR0048747 001
Report Date : 06/28/21

Sample Date : 06/24/21
Sample Time : 0830
Sample Type : GRAB WEEL WATER
Sample From : WELL#17

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

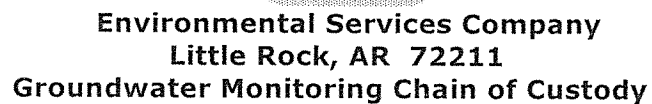
Laboratory Analysis							Quality Assurance	
Analysis							Precision	Accuracy
Date	Time	By	Parameter	Result	Notes	Quantity	% RPD	% Recovery
06/28	1035	BXW	Chloride (as Cl)	< 0.5 mg/L			0.00	100.0 *
06/24	0835	WGW	pH	7.1 S.U.			0.00	N/A *
06/25	1020	AKA	Solids, Total Dissolved	60.0 mg/L			6.14	N/A *
06/24	0835	WGW	Spec. Conductance @ 25 C	69.200 umho/c			0.00	N/A *
06/28	0913	EJD	Nitrate + Nitrite	5.10 mg/L			0.27	99.0 *
06/24	0835	WGW	Well Depth, Total	17.60 Feet			N/A	N/A
06/24	0835	WGW	Depth to Water	12.60 Feet			N/A	N/A

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Signature


Environmental Services Co., Inc.



Sampler Name(s): William Willoughby
and Signature: William Willoughby

Sample Date: 6/24/21

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

Comments:

axv

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Control Number: 2107010261
Customer Name : CLINTON, EAST GW13
Customer/Permit No. : 507 / AR0048836 001
Report Date : 07/30/21

Sample Date : 07/26/21
Sample Time : 1410
Sample Type : GRAB WATER
Sample From : WELL#13

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

<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>% RPD</u>	<u>% Recovery</u>
07/30	1410	EJD	Chloride (as Cl)		10.0 mg/L	SM 2011 4500 Cl C	18.18	101.0
07/26	1415	DMP	pH		6.3 S.U.	SM 2011 4500-H+B	0.00	N/A *
07/28	1125	AKA	Solids, Total Dissolved		106.7 mg/L	SM 2011 2540 C	3.05	N/A
07/26	1625	DMP	Spec. Conductance @ 25 C		167.000 umho/c	EPA 120.1	0.07	N/A *
07/27	1155	EJD	Nitrate + Nitrite		0.48 mg/L	HACH 10206	3.32	100.0 *
07/26	1410	DMP	Well Depth, Total		15.40 Feet		N/A	N/A
07/26	1410	DMP	Depth to Water		8.10 Feet		N/A	N/A

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Springdale, AR 72764

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

CHAIN OF CUSTODY

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

Client Information						Project Information					Requested Parameters														
Company Name: Clinton, East GW13						Permit/Project #: AR0048836					<div style="display: flex; flex-direction: column; align-items: center;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">TDS(27.), Chloride(7.)</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">NO2 + NO3(91.)</div> </div>														
Address: P.O. Box 277						Purchase Order #:																			
Clinton, AR 72031						Work Order #																			
Telephone: 501-745-4320						Sampler Name(s): DAVID PIERCE																			
Contact: Mr. Phil Graham						and Signature(s): David Pierce																			
FAX: 501-745-2164																									
ESC Client Number: 507																									
Sample Identification		Sample Collection				Sample Containers																			
	ESC Control #	Date	Time	Type	Matrix	Type	Volume	Preservative	#																
Well #13	2107010261	07/26/21	1410	Grab	Water	Plastic	1 Liter	≤ 6 Deg C	1	X															
	I	I	I	Grab	Water	Plastic	1 Liter	H2SO4	1		X														
Relinquished By: (Signature and Printed Name)		Date	Time	Received By: (Signature and Printed Name)			Date	Time	Custody Seals:																
									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:																
David Pierce DAVID PIERCE		07/26/21	1640	Jenny Beyer			7/26/21	1340	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>																
Cool all samples to ≤ 6 degrees C with ice.												Flow Data		Field/Test		Time		Analyst		Result		Result		Units	
Comments:												Analyst:		pH:		1415		DMP		6.3		6.7		S.V.	
												Time:		Sp Cond:		1625		DMP		167.0		167.0		U MHOS	
												Reading:													
												Units:													
Total Depth-99.10:		15 ft 4 in																							
H2O Depth - 99.9:		8 ft 1 in																							
												Chlorinated? Y N		Fecal Start:											

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

Control Number: 2107010262
Customer Name : CLINTON, EAST GW14
Customer/Permit No. : 508 / AR0048836 001
Report Date : 07/30/21

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

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

<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>	<u>% RPD</u>	<u>% Recovery</u>
07/30	1410	EJD	Chloride (as Cl)	10.0 mg/L			SM 2011 4500 Cl C	18.18	101.0 *
07/26	1335	DMP	pH	6.0 S.U.			SM 2011 4500-H+B	0.00	N/A *
07/28	1125	AKA	Solids, Total Dissolved	80.0 mg/L			SM 2011 2540 C	3.05	N/A *
07/26	1630	DMP	Spec. Conductance @ 25 C	103.300 umho/c			EPA 120.1	0.07	N/A *
07/27	1155	EJD	Nitrate + Nitrite	0.78 mg/L			HACH 10206	3.32	100.0 *
07/26	1330	DMP	Well Depth, Total	13.10 Feet				N/A	N/A
07/26	1330	DMP	Depth to Water	9.45 Feet				N/A	N/A

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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 GW14						Permit/Project #: AR0048836					TDS(27°), Chloride(7°) NO2 + NO3(91°)									
Address: P.O. Box 277						Purchase Order #:														
Clinton, AR 72031						Work Order #														
Telephone: 501-745-4320						Sampler Name(s): DAVID PIERCE														
Contact: Mr. Todd Burgess						and Signature(s): David Pierce														
FAX: 501-745-2164																				
ESC Client Number: 508																				
Sample Identification			Sample Collection				Sample Containers													
	ESC Control #	Date	Time	Type	Matrix	Type	Volume	Preservative	#											
Well # 14	2107010262	07/26/21	1330	Grab	Water	Plastic	1 Liter	≤ 6 Deg C	1	X										
	L	L	L	Grab	Water	Plastic	1 Liter	H2SO4	1	X										
Relinquished By: (Signature and Printed Name)		Date	Time	Received By: (Signature and Printed Name)			Date	Time	Custody Seals:											
Relinquished By: (Signature and Printed Name)		Date	Time	Received By: (Signature and Printed Name)			Date	Time	Used? <input checked="" type="checkbox"/> Intact? <input type="checkbox"/>											
Relinquished By: (Signature and Printed Name)		Date	Time	Received By: (Signature and Printed Name)			Date	Time	Turnaround: Regular <input checked="" type="checkbox"/> Special <input type="checkbox"/>											
Relinquished By: (Signature and Printed Name)		Date	Time	Received for Lab By: (Signature and Printed Name)			Date	Time	Were samples properly preserved: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>											
Cool all samples to ≤ 6 degrees C with ice.						Flow Data	Field Test	Time	Analyst	Result	Result	Units								
Comments:						Analyst:	pH:	1335	DRP	6.0	6.0	S.V.								
						Time:	Sp Cond:	1630	DRP	103.3	103.3	UMHOS								
						Reading:														
						Units:														
Total Depth-99.10:		13F4 17m																		
H2O Depth - 99.9:		9F+ 4.51m																		
						Chlorinated? Y N	Fecal Start:	This Document is Page 1												

BXV

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Control Number: 2107010263
Customer Name : CLINTON, EAST GW16
Customer/Permit No. : 509 / AR0048836 001
Report Date : 07/30/21

Sample Date : 07/26/21
Sample Time : 1250
Sample Type : DRY WELL
Sample From :

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

Laboratory Analysis							Quality Assurance	
Analysis							Precision	Accuracy
Date	Time	By	Parameter	Result	Notes	Quantity	% RPD	% Recovery
07/26	1250	DMP	Dry Well	0.00			N/A	N/A

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CHAIN OF CUSTODY

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

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

Control Number: 2107010264
Customer Name : CLINTON, EAST GW17
Customer/Permit No. : 649 / AR0048747 001
Report Date : 07/30/21

Sample Date : 07/26/21
Sample Time : 1220
Sample Type : GRAB WATER
Sample From : WELL#17

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

<u>Laboratory Analysis</u>							<u>Quality Assurance</u>	
Analysis							Precision	Accuracy
Date	Time	By	Parameter	Result	Notes	Quantity	% RPD	% Recovery
07/30	1410	EJD	Chloride (as Cl)	10.0 mg/L			18.18	101.0 *
07/26	1225	DMP	pH	5.5 S.U.			0.00	N/A *
07/28	1125	AKA	Solids, Total Dissolved	63.3 mg/L			3.05	N/A *
07/26	1635	DMP	Spec. Conductance @ 25 C	65.200 umho/c			0.07	N/A *
07/27	1155	EJD	Nitrate + Nitrite	5.50 mg/L			3.32	100.0 *
07/26	1220	DMP	Well Depth, Total	17.60 Feet			N/A	N/A
07/26	1220	DMP	Depth to Water	11.80 Feet			N/A	N/A

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

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

Control Number: 2112010370
Customer Name : CLINTON, EAST GW13
Customer/Permit No. : 507 / AR0048836 001
Report Date : 01/04/22

Sample Date : 12/13/21
Sample Time : 0920
Sample Type : GRAB WELL WATER
Sample From : #13 (507)

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


Analysis			<u>Laboratory Analysis</u>				<u>Quality Assurance</u>		
<u>Date</u>	<u>Time</u>	<u>By</u>	<u>Parameter</u>	<u>Result</u>	<u>Notes</u>	<u>Quantity</u>	<u>Method</u>	<u>Precision</u>	<u>Accuracy</u>
								<u>% RPD</u>	<u>% Recovery</u>
12/15	0940	DWC	Chloride (as Cl)	20.0 mg/L			SM 2011 4500 Cl C	0.00	98.0 *
12/13	0920	JGK	pH	6.1 S.U.			SM 2011 4500-H+B	0.00	N/A *
12/20	0550	NTR	Solids, Total Dissolved	180.0 mg/L			SM 2011 2540 C	2.26	N/A *
12/13	0920	JGK	Spec. Conductance @ 25 C	168.200 umho/c			EPA 120.1	0.12	N/A
12/13	0920	JGK	Temperature	9.80 °C			SM 2000 2550 B	0.00	N/A
12/13	1000	NTR	Nitrate + Nitrite	0.89 mg/L			HACH 10206	4.21	101.8 *
12/13	0920	JGK	Well Depth, Total	15.25 Feet				N/A	N/A
12/13	0920	JGK	Depth to Water	9.66 Feet				N/A	N/A

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Signature


Environmental Services Co., Inc.

RAH

Environmental Services Company, Inc.

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

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

Control Number: 2112010371
Customer Name : CLINTON, EAST GW14
Customer/Permit No. : 508 / AR0048836 001
Report Date : 01/04/22

Sample Date : 12/13/21
Sample Time : 0910
Sample Type : GRAB WELL WATER
Sample From : #14 (508)

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

<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>% RPD</u>	<u>% Recovery</u>
12/15	0940	DWC	Chloride (as Cl)	10.0 mg/L			0.00	98.0 *
12/13	0910	JGK	pH	5.7 S.U.			0.00	N/A *
12/20	0550	NTR	Solids, Total Dissolved	72.0 mg/L			2.26	N/A *
12/13	0910	JGK	Spec. Conductance @ 25 C	108.200 umho/c			0.12	N/A *
12/13	0910	JGK	Temperature	13.70 °C			0.00	N/A *
12/13	1000	NTR	Nitrate + Nitrite	0.81 mg/L			4.21	101.8 *
12/13	0910	JGK	Well Depth, Total	13.08 Feet			N/A	N/A
12/13	0910	JGK	Depth to Water	10.25 Feet			N/A	N/A

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Signature



Environmental Services Co., Inc.

258

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13715 West Markham
Little Rock, AR 72211
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Northwest Arkansas Branch
1107 Century Avenue
Springdale, AR 72762
Tel. (479)750-1170 Fax (479)750-1172

Control Number: 2112010372
Customer Name : CLINTON, EAST GW16
Customer/Permit No. : 509 / AR0048836 001
Report Date : 01/04/22

Sample Date : 12/13/21
Sample Time : 0945
Sample Type : DRY WELL
Sample From : #16 (509)

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

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

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Environmental Services Co., Inc.

[Handwritten initials]

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

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

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

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

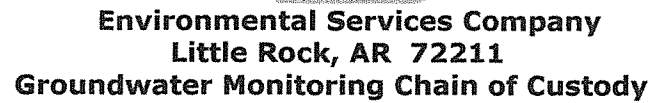
<u>Laboratory Analysis</u>							<u>Quality Assurance</u>	
Analysis							Precision	Accuracy
<u>Date</u>	<u>Time</u>	<u>By</u>	<u>Parameter</u>	<u>Result</u>	<u>Notes</u>	<u>Quantity</u>	<u>% RPD</u>	<u>% Recovery</u>
12/15	0940	DWC	Chloride (as Cl)	10.0 mg/L			0.00	98.0 *
12/13	0900	JGK	pH	5.1 S.U.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

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Environmental Services Co., Inc.



Sampler Name(s): J. Koverschil
and Signature: [Signature]

Sample Date: ✓ 12/13/21

[illegible]

Relinquished by:

Time: 1607

Received By Lab: *Amelia* *ATBent*

Date: 12/13/21

Time: 1607

Comments:

2057

CITY OF CLINTON
CLINTON WATER AND SEWER DEPARTMENT

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

TO: ESC

ATTN: JOYCE

FAX#: 501-221-1341

FROM: Clinton Water & Sewer

PAGES INCLUDING COVER PAGE: 1

MESSAGE: Yearly Report 2021

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

West Plant: No Discharge

Crops Grown : Bermuda Hay

East Side Land Owners : Steve Bone & Will Dawson

West Side Land Owners : Danny Boone & Ray Grey Jennings

IF ALL PAGES ARE NOT RECEIVED PLEASE NOTIFY AT ONCE!

Environmental Services Company, Inc.

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

Control Number: 2207010292
Customer Name : CLINTON, EAST IW
Customer/Permit No. : 619 / AR0048836 001
Report Date : 08/02/22

Sample Date : 07/25/22
Sample Time : 1222
Sample Type : GRAB/WWATER
Sample From : IRRIGATION WATER

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

Analysis			Laboratory Analysis				Quality Assurance	
Date	Time	By	Parameter	Result	Notes	Quantity	Method	Precision
								% RPD
								% Recovery
07/29	1800	JFT	Sodium	17.6321 mg/L			EPA 200.8	0.45
07/29	1800	JFT	Magnesium	2.0023 mg/L			EPA 200.8	0.25
07/28	1200	ACL	Ammonia as N, (HACH/SM)	< 0.01 mg/L			SM 2011 4500-NH3-G	1.51
07/29	1100	AAC	Total Kjeldahl Nitrogen	6.2 mg/L			02/2014 HACH 10242	2.74
07/27	1440	ACL	Nitrate Nitrogen	1.6610 mg/L			HACH 10206	0.00
07/27	1440	ACL	Nitrite Nitrogen	0.1390 mg/L			EPA 354.1	1.80
07/29	1800	JFT	Potassium	6.6241 mg/L			EPA 200.8	1.64
07/29	1600	JFT	Calcium	5.6312 mg/L			EPA 200.8	0.81
07/26	0930	ACL	Oil & Grease, Total	< 5.00 mg/L			EPA 1664 B	0.76
07/25	1225	JTH	pH	9.0 S.U.			SM 2011 4500-H+B	1.65
07/26	1015	ACL	Phosphorus, Total (as P)	3.020 mg/L			EPA 365.1	0.90
07/27	1018	AAC	Solids, Total Suspended	55.00 mg/L			SM 2011 2540 D	0.00
07/29	1800	JFT	Nickel	< 0.02000 mg/L			EPA 200.8	0.62
07/29	1800	JFT	Copper	< 0.0200 mg/L			EPA 200.8	1.40
07/29	1800	JFT	Zinc	0.0447 mg/L			EPA 200.8	0.71
07/29	1800	JFT	Arsenic	0.0109 mg/L			EPA 200.8	0.46
07/30	0600	NTR	Nitrogen, Plant Available	3.66 mg/L			33 MSA 2nd Ed	
07/29	1800	JFT	Selenium	< 0.0150 mg/L			EPA 200.8	0.81
07/26	1458	ACL	Electric Conductivity	1831.00 umho/c			EPA 9050A(MOD)	0.44
07/29	1800	JFT	Molybdenum	< 0.0500 mg/L			EPA 200.8	0.60
07/25	1326	JFT	Fecal Coliform	1732.9 /100ml			06/2012 Colilert18	0.00

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

Report for Control Number: 2207010292 Continued on Next Page

Customer Name : CLINTON, EAST IW
Control Number: 2207010292

Page 2

Analysis			Laboratory Analysis				Quality Assurance		
Date	Time	By	Parameter	Result	Notes	Quantity	Method	Precision % RPD	Accuracy % Recovery
07/29	1800	JFT	Cadmium	< 0.02000 mg/L			EPA 200.8	0.33	99.9 *
07/28	1214	AAC	Mercury	< 0.0050 mg/L			EPA 245.7	0.00	82.0 *
07/27	1315	ACL	BOD, Carbonaceous	8.7 mg/L			SM 2011 5210 B	22.09	101.0 *
07/27	1440	AAC	Solids, % Total	< 1.000 %			SM 1997 2540 G	0.00	N/A
07/29	1800	JFT	Lead	0.01458 mg/L			EPA 200.8	0.12	96.5 *
07/29	1800	JFT	Sodium Absorption Ratio	51.3731 Ratio			AGRN 724	0.45	86.1 *

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Corporate Office

13715 West Markham

P.O. Box 55146

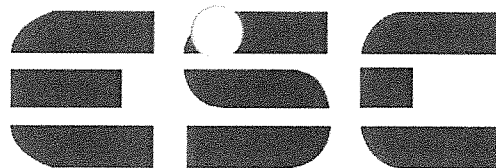
Little Rock, AR 72211

Little Rock, AR 72215

website: www.esclabs.com

Phone: 501-221-2565

Fax: 501-221-1341



Springdale, Arkansas

479-750-1170

Carlsbad, New Mexico

575-887-1ESC

CHAIN OF CUSTODY

Client Information						Project Information					Requested Parameters							
Client:		Clinton, East IW				Permit/Project #:		AR0048836			CBOD(70.), TSS(28) % Solids (82)	NO3 (18), NO2(19.)	TKN(16.C), NH3-N (15.A), Total P (25)	Metals (See Comments)	Oil & Grease (21)	(Fecal Coliform (43.IF)		
Address:		P.O. Box 277				Purchase Order #:												
		Clinton, AR 72031				Work Order #												
Phone:		501-745-4320				Sampler Name(s):		James Holden										
Fax:		501-745-2164				and Signature(s):		James Holden										
Contact:		Mr. Phil Graham				ESC Client Number:		619										
Sample Identification		Sample Collection				Sample Containers												
Identification	ESC Control #	Date	Time	Type	Matrix	Type	Volume	Preservative	#									
Irrigation Water	2207010202	7-25-22	1202	Grab	Wwater	Plastic	1 Liter	Cool ≤ 6° C	1	X	X							
				Grab	Wwater	Plastic	8 oz	Cool ≤ 6° C, H2SO4 to pH <2	1			X						
				Grab	Wwater	Plastic	8 oz	HNO3 to pH <2	1				X					
				Grab	Wwater	Glass	250 ml	Cool ≤ 6° C, H2SO4 to pH <2	1					X				
				Grab	Wwater	Plastic	100 ml	Cool ≤ 6° C	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)		Analyst:		pH:	7.25	Time	5:45	Result	9.06	Result	9.08	Units	S.U.			
		Cd(48.HW), Pb(82.HW), Mo (42.HW), Ni (28.HW) 00.MD, 00.Hg		Time:		Ele. Cond:	125.153				126.9		126.9		U MHOS			
		K (19.HW), Na (11.HW), Mg (12.HW), 20.HW, SAR (99.L), PAN		Reading:		7-25-22												
		Ca (20.HW)		Units:														
This Document is Page 1 of 1																		