

Huntsville Water
Utilities
2015

Annual Sludge Report

Biosolids Analysis

All analysis were performed in accordance with EPA Document SW – 846, “Test Methods for Evaluation of Solid Waste.”

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: 1502020090
 Customer Name : HUNTSVILLE WASTEWATER-SLUDGE
 Customer Number : 1652
 Report Date : 03/13/15

Sample Date : 02/02/15
 Sample Time : 1130
 Sample Type : GRAB SLUDGE
 Sample From : 1ST QUARTER SLUDGE

Collected By: EB
 Delivery By : WDS
 Work Order :
 Purchase Order :

<u>Laboratory Analysis</u>							<u>Quality Assurance</u>	
<u>Analysis</u>			<u>Result</u>	<u>Notes</u>	<u>Quantity</u>	<u>Method</u>	<u>Precision</u>	<u>Accuracy</u>
<u>Date</u>	<u>Time</u>	<u>By</u>					<u>Parameter</u>	<u>% RPD</u>
03/02	1036	RAH	TCLP Mercury	< 0.0010 mg/L		EPA 1311/245.1	4.70	94.7 *
02/27	1000	RAH	Mercury Digestion	1		02/2005 EPA 245.7		
02/10	0945	RAH	Metals Digestion	1		1996 EPA 3050B	0.00	100.0
02/09	1315	TSB	Ammonia Nitrogen	12823.66 mg/kg		SM 1997 4500-NH3 C	1.91	99.7
03/02	1451	RAH	Mercury	< 0.4521 mg/kg		SW-846 7471	4.81	94.7
02/25	1300	TSB	Kjeldahl Nitrogen Total	37312.87 mg/kg		SM 1997 4500-NorgB	3.27	105.1 *
02/11	1300	TSB	Nitrate Nitrogen	101.289 mg/kg		SM 2000 4500-NO3 E	1.02	94.3
02/11	1300	TSB	Nitrite Nitrogen	8.794 mg/kg		SM 2000 4500-NO2 B	0.00	94.3
02/09	1345	TSB	Phosphorous, Total (as P)	38243.9210 mg/kg		EPA 365.3	5.60	88.0
02/13	1328	RAH	Sodium	400.50 mg/kg		SW846 6020A	9.72	114.9
02/13	1328	RAH	Magnesium, Total	1183.50 mg/kg		SW846 6020A	13.65	89.7
02/13	1328	RAH	Potassium, Total	1519.00 mg/kg		SW846 6020A	9.60	103.7
02/13	1328	RAH	Calcium, Total	9668.50 mg/kg		SW846 6020A	5.40	91.3
02/20	1400	WDS	pH, Soil	8.80 S.U.		SM 2000 4500-H+ B	0.00	0.0
02/26	1658	RAH	TCLP Chromium	0.009 mg/L		EPA 1311/200.8	0.54	87.3 *
02/24	1600	KIK	Paint Filter Test	Pass		EPA 9095	N/A	N/A
02/13	1328	RAH	Nickel, Total	6.50 mg/kg		SW846 6020A	1.75	101.9
02/13	1328	RAH	Copper, Total	24.00 mg/kg		SW846 6020A	2.32	102.3
02/13	1328	RAH	Zinc, Total	91.00 ug/kg		SW846 6020A	4.15	104.8
02/13	1328	RAH	Arsenic, Total	< 2.50 mg/kg		SW846 6020A	1.30	98.6
02/26	1658	RAH	TCLP Arsenic	0.020 mg/L		EPA 1311/200.8	0.82	92.0 *

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

Laboratory Analysis							Quality Assurance	
Analysis			Result	Notes	Quantity	Method	Precision	Accuracy
Date	Time	By					Parameter	% RPD
02/13	1328	RAH	Selenium, Total	< 2.50 mg/kg		SW846 6020A	1.75	105.4
02/26	1658	RAH	TCLP Selenium	< 0.010 mg/L		EPA 1311/200.8	1.14	97.0 *
02/20	1400	WDS	Specific Conductance	1770.00 U MHOS		EPA 120.1	0.00	N/A
02/13	1328	RAH	Molybdenum, Total	< 2.50 mg/kg		SW846 6020A	1.45	89.4
02/26	1658	RAH	TCLP Silver	< 0.001 mg/L		EPA 1311/200.8	0.28	88.2 *
02/13	1328	RAH	Cadmium, Total	< 2.50 mg/kg		SW846 6020A	0.25	97.6
02/26	1658	RAH	TCLP Cadmium	0.007 mg/L		EPA 1311/200.8	1.39	91.7 *
02/26	1658	RAH	TCLP Barium	0.050 mg/L		EPA 1311/200.8	0.14	86.2 *
02/13	1130	TSB	Phosphorus, WEP	2097.35 mg/L		EPA 365.3	0.98	94.1
02/24	1340	RHB	Debris	0.00 cm				
02/09	1630	KIK	Solids, % Total	22.129 %		SM 1997 2540 G	1.20	N/A *
02/13	1328	RAH	Lead, Total	< 2.50 mg/kg		SW846 6020A	1.32	80.0
02/26	1658	RAH	TCLP Lead	< 0.010 mg/L		EPA 1311/200.8	0.05	87.0 *
03/11	1330	TSB	Ignitability solid	< 2.20 mm/sec		EPA 1030	0.00	0.0 *
02/13	1328	RAH	Sodium Absorption Ratio	0.1447		AGRN 724	9.72	114.9
02/17	1515	KIK	Reactivity	Non-Reactive		40 CFR PART 261	N/A	N/A
02/10	1600	RAH	TCLP Extraction - Metals	1		1311 EPA Method		
02/18	1305	KIK	Corrosivity	Non-Corrosive	< 6.35 mm/yr	40 CFR PART 261	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

Richard Brown

Environmental Services Co., Inc.



Environmental Services Company, Inc.

Corporate Office
13715 West Markham
Little Rock, Arkansas 72211
501-221-2565 (p)
501-221-1341 (f)

Carlsbad, New Mexico
575-887-7-ESC (372)
Springdale, Arkansas
479-750-1170
www.esclabs.com

LABORATORY REPORT

Page 1 of 1

Client: Huntsville Waste Water Sample Date: 02/02/15
Control Number: 1502020090 Receipt Date: 02/05/15
Sample Type: Grab - Sludge Report Date: 03/26/15
Sample Identification: 1st Quarter Sludge

PCB ($\mu\text{g}/\text{kg}$ or ppb)

<u>ANALYTE</u>	<u>RESULT</u>	<u>DETECTION LIMIT</u>
PCB-1242	ND	0.050
PCB-1254	ND	0.050
PCB-1221	ND	0.050
PCB-1232	ND	0.050
PCB-1248	ND	0.050
PCB-1260	ND	0.050
PCB-1016	ND	0.050

QUALITY ASSURANCE DATA

Method: EPA 8082A

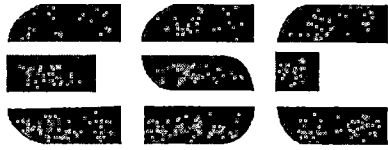
<u>System Monitoring Compounds</u>	<u>% Recoveries</u>
2,4,5,6-tetrachloro- <i>m</i> -xylene	94.17%
Decachlorobiphenyl	73.58%

Analysis Date: 03/17/15
Analysis Time: 12:07
Analyst: RHB

A laboratory blank was monitored for all analytes of interest.

Data release authorized by :

Richard Brown



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LABORATORY REPORT

Client:	Huntsville Waste Water	Sample Date:	02/02/15
Control Number:	1502020090	Receipt Date:	02/05/15
Sample Type:	Grab / TCLP Extract	Report Date:	03/26/15
Sample Identification:	1 st Quarter Sludge		

ANALYTICAL RESULTS (mg/L or ppm)

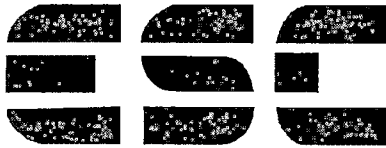
TCLP Volatiles

Analytes	Results	Detection Limits	Regulatory Limits
Benzene	ND	0.0043	0.5
Carbon Tetrachloride	ND	0.0055	0.5
Chlorobenzene	ND	0.0046	100
Chloroform	ND	0.0039	6
1,2-Dichlorethane	ND	0.0048	0.5
1,1-Dichloroethene	ND	0.0052	0.7
Methyl Ethyl Ketone	ND	0.0099	200
Tetrachloroethene	ND	0.0037	0.7
Trichloroethene	ND	0.0043	0.5
Vinyl Chloride	ND	0.0071	0.2

QUALITY ASSURANCE DATA

Method:	USEPA SW-846 Method 8260
Analysis Date:	03/03/15
Analysis Time :	17:09
Analyst :	RHB

System Monitoring Compounds	% Recovery
1,2-Dichloroethane-d4	82.05%
Toluene-d8	90.21%
4-Bromofluorobenzene	73.00%



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LABORATORY REPORT (continued)

Client:	Huntsville Waste Water	Sample Date:	02/02/15
Control Number:	1502020090	Receipt Date:	02/05/15
Sample Type:	Grab / TCLP Extract	Report Date:	03/26/15
Sample Identification:	1 st Quarter Sludge		

ANALYTICAL RESULTS (mg/L or ppm)

TCLP Semi-Volatiles

Analytes	Results	Detection Limits	Regulatory Limits
o-Cresol	ND	0.0122	200
m&p-Cresol	ND	0.0031	400
1,4-Dichlorobenzene	ND	0.0128	7.5
2,4-Dinitrotoluene	ND	0.0010	0.1
Hexachlorobenzene	ND	0.0017	0.1
Hexachlorobutadiene	ND	0.0013	0.5
Hexachloroethane	ND	0.0016	3
Nitrobenzene	ND	0.0004	2
Pentachlorophenol	ND	0.0027	100
Pyridine	ND	0.0014	5
2,4,5-Trichlorophenol	ND	0.0019	400
2,4,6-Trichlorophenol	ND	0.0022	2

QUALITY ASSURANCE DATA

Method:	USEPA SW-846 Method 8270
Analysis Date:	03/14/15
Analysis Time:	19:30
Analyst:	RHB
System Monitoring Compounds	% Recovery
2-Fluorophenol	53.42%
Phenol-d5	40.21%
Nitrobenzene-d5	51.77%
2-Fluorobiphenyl	79.63%
2,4,6-Tribromophenol	109.88%
Terphenyl-d14	133.72%



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LABORATORY REPORT (continued)

Client:	Huntsville Waste Water	Sample Date:	02/02/15
Control Number:	1502020090	Receipt Date:	02/05/15
Sample Type:	Grab / TCLP Extract	Report Date:	03/26/15
Sample Identification:	1 st Quarter Sludge		

ANALYTICAL RESULTS (mg/L or ppm)

TCLP Pesticides

Analytes	Results	Detection Limits	Regulatory Limits
gamma-BHC	ND	0.0004	0.4
Chlordane	ND	0.0001	0.03
Endrin	ND	0.0019	0.02
Heptachlor	ND	0.0035	0.008
Heptachlor Epoxide	ND	0.0005	0.008
Methoxychlor	ND	0.0005	10
Toxaphene	ND	0.0005	0.5

TCLP Herbicides

2,4-D	ND	0.0002	10
2,4,5-TP (Silvex)	ND	0.0002	1

QUALITY ASSURANCE DATA

TCLP Pesticides		TCLP Herbicides	
Method:	USEPA SW-846 Method 8081	Method:	USEPA SW-846 Method 8151
Analysis Date:	03/17/15	Analysis Date:	03/18/15
Analysis Time:	11:35	Analysis Time:	14:23
Analyst:	RHB	Analyst:	RHB
System Monitoring Compounds	Recovery	System Monitoring Compounds	Recovery
2,3,4,5-tetrachloro-m-xylene	124.43%	2,4-dichlorophenylacetic acid	85.10%

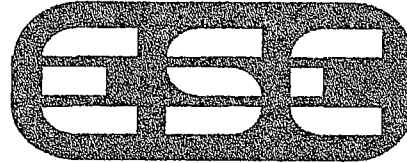
A lab blank was monitored for all analytes of interest.

Data Release Authorized By:

Richard Brown

Richard Brown

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



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

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

CHAIN OF CUSTODY

Phone 501-750-1170 Fax: 501-750-1172

Client Information				Project Information				Requested Parameters										
Company Name:		Huntsville Waste Water		Permit/Project #:		5157-W - Sludge		pH (23.1), NO ₃ (01.3), T-P (01.9)	% Solids (82), Spec Cond (35)	TKN (01.2), NH ₃ (01.1), NO ₂ (01.4)	SAR (99.L), Debris (67)	Metals (See Below)	TCCLP, PCB					
Address:		P O Box 430 Huntsville AR 72740		Purchase Order #:														
Telephone:		479-738-2081		Sampler Name(s):		Eric Blocker / [Signature]												
FAX:		479-738-1285		and Signature(s):														
ESC Client Number:		1652																
Sample Identification		Sample Collection				Sample Containers												
Identification	ESC Control #	Date	Time	Type	Matrix	Type	Volume	Preservative	#									
1ST QUARTER SLUDGE	1502020090	2/2/15	1130	GRAB	SLUDGE	BAG	2 bags	NONE 4°C		X	X	X	X	X	X			
Relinquished By: (Signature and Printed Name)		Date	Time	Received By: (Signature and Printed Name)		Date	Time	Custody Seals:		Used?	Intact?							
[Signature] Eric Blocker		2-5-15	6:40	[Signature] Wade Schmitt		2-5-15	6:40	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	Special							
[Signature] Wade Schmitt		2-5-15	14:35	Richard Brown				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	No							
[Signature] Wade Schmitt				Richard Brown		2-5-15	14:35	Yes <input checked="" type="checkbox"/>		No <input type="checkbox"/>								
Comments: Hg (01.14), Na (11.HS), Mg (12.HS), K (19.HS), Ca (20.HS), Ni (28.HS), Cu (29.HS), Zn (30.HS), As (33.HS)				FLOW DATA		Field Test	Time	Analyst	Result	Result	Units							
Se (34.HS), Mo (42.HS), Cd (48.HS), Pb (82.HS)				Analyst:		pH:												
				Time:		Temp.:					°C	°F						
				Reading:		DO:												
				Units:		Debris:												
Cool all samples to 4 degrees C.							Chlorinated? Yes No		This Document is Page ___ of ___									

Soils Analysis

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 13715 West Markham
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Control Number: 1602020086
 Customer Name : HUNTSVILLE WASTEWATER-SLUDGE
 Customer Number : 1652
 Report Date : 02/19/16

Sample Date : 01/04/16
 Sample Time : 1000
 Sample Type : GRAB SOIL
 Sample From : HATFIELD 1

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

<u>Laboratory Analysis</u>							<u>Quality Assurance</u>	
<u>Analysis</u>			<u>Result</u>	<u>Notes</u>	<u>Quantity</u>	<u>Method</u>	<u>Precision</u>	<u>Accuracy</u>
<u>Date</u>	<u>Time</u>	<u>By</u>	<u>Parameter</u>				<u>% RPD</u>	<u>% Recover</u>
02/11	0800	RAH	Mercury Digestion	1		02/2005 EPA 245.7		
02/09	0945	RAH	Metals Digestion	1		1996 EPA 3050B		
02/12	1511	RAH	Mercury	< 0.1000	mg/kg	SW-846 7471	2.15	97.7
02/11	1210	RAH	Sodium	51.50	mg/kg	SW846 6020A	8.78	104.1
02/11	1210	RAH	Magnesium, Total	513.50	mg/kg	SW846 6020A	12.48	104.4
02/11	1210	RAH	Potassium, Total	336.50	mg/kg	SW846 6020A	0.89	86.5
02/11	1210	RAH	Calcium, Total	2896.50	mg/kg	SW846 6020A	0.19	106.1
02/11	1210	RAH	Nickel, Total	6.50	mg/kg	SW846 6020A	0.13	100.8
02/11	1210	RAH	Copper, Total	26.50	mg/kg	SW846 6020A	0.83	102.6
02/11	1210	RAH	Zinc, Total	85.00	mg/kg	SW846 6020A	1.44	100.8
02/11	1210	RAH	Arsenic, Total	6.50	mg/kg	SW846 6020A	0.74	100.6
02/11	1210	RAH	Selenium, Total	5.50	mg/kg	SW846 6020A	0.26	105.4
02/11	1210	RAH	Molybdenum, Total	4.50	mg/kg	SW846 6020A	0.12	101.4
02/11	1210	RAH	Cadmium, Total	< 2.50	mg/kg	SW846 6020A	3.11	104.3
02/11	1210	RAH	Lead, Total	17.50	mg/kg	SW846 6020A	0.43	103.7
02/11	1210	RAH	Sodium Absorption Ratio	0.0328		AGRN 724	16.68	104.1

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

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

Control Number: 1602020087
 Customer Name : HUNTSVILLE WASTEWATER-SLUDGE
 Customer Number : 1652
 Report Date : 02/19/16

Sample Date : 01/04/16
 Sample Time : 1015
 Sample Type : GRAB SOIL
 Sample From : HATFIELD 2

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

<u>Laboratory Analysis</u>							<u>Quality Assurance</u>	
<u>Analysis</u>			<u>Result</u>	<u>Notes</u>	<u>Quantity</u>	<u>Method</u>	<u>Precision</u>	<u>Accuracy</u>
<u>Date</u>	<u>Time</u>	<u>By</u>	<u>Parameter</u>				<u>% RPD</u>	<u>% Recover</u>
02/11	0800	RAH	Mercury Digestion	1		02/2005 EPA 245.7		
02/09	0945	RAH	Metals Digestion	1		1996 EPA 3050B		
02/12	1511	RAH	Mercury	< 0.1000	mg/kg	SW-846 7471	2.15	97.7
02/11	1210	RAH	Sodium	36.00	mg/kg	SW846 6020A	8.78	104.1
02/11	1210	RAH	Magnesium, Total	464.00	mg/kg	SW846 6020A	12.48	104.4
02/11	1210	RAH	Potassium, Total	307.00	mg/kg	SW846 6020A	0.89	86.5
02/11	1210	RAH	Calcium, Total	1577.00	mg/kg	SW846 6020A	0.19	106.1
02/11	1210	RAH	Nickel, Total	5.50	mg/kg	SW846 6020A	0.13	100.8
02/11	1210	RAH	Copper, Total	26.00	mg/kg	SW846 6020A	0.83	102.6
02/11	1210	RAH	Zinc, Total	85.00	mg/kg	SW846 6020A	1.44	100.8
02/11	1210	RAH	Arsenic, Total	5.00	mg/kg	SW846 6020A	0.74	100.6
02/11	1210	RAH	Selenium, Total	3.50	mg/kg	SW846 6020A	0.26	105.4
02/11	1210	RAH	Molybdenum, Total	< 2.50	mg/kg	SW846 6020A	0.12	101.4
02/11	1210	RAH	Cadmium, Total	< 2.50	mg/kg	SW846 6020A	3.11	104.3
02/11	1210	RAH	Lead, Total	13.50	mg/kg	SW846 6020A	0.43	103.7
02/11	1210	RAH	Sodium Absorption Ratio	0.0290		AGRN 724	16.68	104.1

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

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Control Number: 1602020088
 Customer Name : HUNTSVILLE WASTEWATER-SLUDGE
 Customer Number : 1652
 Report Date : 02/19/16

Sample Date : 01/04/16
 Sample Time : 1030
 Sample Type : GRAB SOIL
 Sample From : MR 7

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

<u>Laboratory Analysis</u>							<u>Quality Assurance</u>	
<u>Analysis</u>			<u>Result</u>	<u>Notes</u>	<u>Quantity</u>	<u>Method</u>	<u>Precision</u>	<u>Accuracy</u>
<u>Date</u>	<u>Time</u>	<u>By</u>	<u>Parameter</u>				<u>% RPD</u>	<u>% Recover</u>
02/11	0800	RAH	Mercury Digestion	1		02/2005 EPA 245.7		
02/09	0945	RAH	Metals Digestion	1		1996 EPA 3050B		
02/12	1511	RAH	Mercury	< 0.1000	mg/kg	SW-846 7471	2.15	97.7
02/11	1210	RAH	Sodium	50.50	mg/kg	SW846 6020A	8.78	104.1
02/11	1210	RAH	Magnesium, Total	668.50	mg/kg	SW846 6020A	12.48	104.4
02/11	1210	RAH	Potassium, Total	362.50	mg/kg	SW846 6020A	0.89	86.5
02/11	1210	RAH	Calcium, Total	10394.00	mg/kg	SW846 6020A	0.19	106.1
02/11	1210	RAH	Nickel, Total	5.00	mg/kg	SW846 6020A	0.13	100.8
02/11	1210	RAH	Copper, Total	17.50	mg/kg	SW846 6020A	0.83	102.6
02/11	1210	RAH	Zinc, Total	64.00	mg/kg	SW846 6020A	1.44	100.8
02/11	1210	RAH	Arsenic, Total	4.50	mg/kg	SW846 6020A	0.74	100.6
02/11	1210	RAH	Selenium, Total	< 2.50	mg/kg	SW846 6020A	0.26	105.4
02/11	1210	RAH	Molybdenum, Total	< 2.50	mg/kg	SW846 6020A	0.12	101.4
02/11	1210	RAH	Cadmium, Total	< 2.50	mg/kg	SW846 6020A	3.11	104.3
02/11	1210	RAH	Lead, Total	12.00	mg/kg	SW846 6020A	0.43	103.7
02/11	1210	RAH	Sodium Absorption Ratio	0.0183		AGRN 724	16.68	104.1

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Signature Richard Brown
 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: 1602020089
 Customer Name : HUNTSVILLE WASTEWATER-SLUDGE
 Customer Number : 1652
 Report Date : 02/19/16

Sample Date : 01/04/16
 Sample Time : 1040
 Sample Type : GRAB SOIL
 Sample From : MR 8

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

<u>Laboratory Analysis</u>							<u>Quality Assurance</u>	
<u>Analysis</u>			<u>Result</u>	<u>Notes</u>	<u>Quantity</u>	<u>Method</u>	<u>Precision</u>	<u>Accuracy</u>
<u>Date</u>	<u>Time</u>	<u>By</u>	<u>Parameter</u>				<u>% RPD</u>	<u>% Recover</u>
02/11	0800	RAH	Mercury Digestion	1		02/2005 EPA 245.7		
02/09	0945	RAH	Metals Digestion	1		1996 EPA 3050B		
02/12	1511	RAH	Mercury	< 0.1000	mg/kg	SW-846 7471	2.15	97.7
02/11	1210	RAH	Sodium	23.50	mg/kg	SW846 6020A	8.78	104.1
02/11	1210	RAH	Magnesium, Total	485.50	mg/kg	SW846 6020A	12.48	104.4
02/11	1210	RAH	Potassium, Total	531.50	mg/kg	SW846 6020A	0.89	86.5
02/11	1210	RAH	Calcium, Total	1940.00	mg/kg	SW846 6020A	0.19	106.1
02/11	1210	RAH	Nickel, Total	7.50	mg/kg	SW846 6020A	0.13	100.8
02/11	1210	RAH	Copper, Total	23.00	mg/kg	SW846 6020A	0.83	102.6
02/11	1210	RAH	Zinc, Total	70.50	mg/kg	SW846 6020A	1.44	100.8
02/11	1210	RAH	Arsenic, Total	4.50	mg/kg	SW846 6020A	0.74	100.6
02/11	1210	RAH	Selenium, Total	3.50	mg/kg	SW846 6020A	0.26	105.4
02/11	1210	RAH	Molybdenum, Total	< 2.50	mg/kg	SW846 6020A	0.12	101.4
02/11	1210	RAH	Cadmium, Total	> 2.50	mg/kg	SW846 6020A	3.11	104.3
02/11	1210	RAH	Lead, Total	14.50	mg/kg	SW846 6020A	0.43	103.7
02/11	1210	RAH	Sodium Absorption Ratio	0.0175		AGRN 724	16.68	104.1

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Signature Richard Brown
 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: 1602020090
 Customer Name : HUNTSVILLE WASTEWATER-SLUDGE
 Customer Number : 1652
 Report Date : 02/19/16

Sample Date : 01/04/16
 Sample Time : 1050
 Sample Type : GRAB SOIL
 Sample From : MR 15

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

<u>Laboratory Analysis</u>							<u>Quality Assurance</u>	
<u>Analysis</u>			<u>Result</u>	<u>Notes</u>	<u>Quantity</u>	<u>Method</u>	<u>Precision</u>	<u>Accuracy</u>
<u>Date</u>	<u>Time</u>	<u>By</u>	<u>Parameter</u>				<u>% RPD</u>	<u>% Recovery</u>
02/11	0800	RAH	Mercury Digestion	1		02/2005 EPA 245.7		
02/09	0945	RAH	Metals Digestion	1		1996 EPA 3050B		
02/12	1511	RAH	Mercury	< 0.1000	mg/kg	SW-846 7471	2.15	97.7 *
02/11	1210	RAH	Sodium	35.50	mg/kg	SW846 6020A	8.78	104.1 *
02/11	1210	RAH	Magnesium, Total	424.50	mg/kg	SW846 6020A	12.48	104.4 *
02/11	1210	RAH	Potassium, Total	467.00	mg/kg	SW846 6020A	0.89	86.5 *
02/11	1210	RAH	Calcium, Total	1386.00	mg/kg	SW846 6020A	0.19	106.1 *
02/11	1210	RAH	Nickel, Total	8.50	mg/kg	SW846 6020A	0.13	100.8 *
02/11	1210	RAH	Copper, Total	14.50	mg/kg	SW846 6020A	0.83	102.6 *
02/11	1210	RAH	Zinc, Total	52.00	mg/kg	SW846 6020A	1.44	100.8 *
02/11	1210	RAH	Arsenic, Total	3.50	mg/kg	SW846 6020A	0.74	100.6 *
02/11	1210	RAH	Selenium, Total	3.50	mg/kg	SW846 6020A	0.26	105.4 *
02/11	1210	RAH	Molybdenum, Total	< 2.50	mg/kg	SW846 6020A	0.12	101.4 *
02/11	1210	RAH	Cadmium, Total	< 2.50	mg/kg	SW846 6020A	3.11	104.3 *
02/11	1210	RAH	Lead, Total	16.50	mg/kg	SW846 6020A	0.43	103.7 *
02/11	1210	RAH	Sodium Absorption Ratio	0.0303		AGRN 724	16.68	104.1 *

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Signature Richard Brown
 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: 1602020091
 Customer Name : HUNTSVILLE WASTEWATER-SLUDGE
 Customer Number : 1652
 Report Date : 02/19/16

Sample Date : 01/04/16
 Sample Time : 1100
 Sample Type : GRAB SOIL
 Sample From : MR 16

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

<u>Laboratory Analysis</u>							<u>Quality Assurance</u>	
<u>Analysis</u>			<u>Result</u>	<u>Notes</u>	<u>Quantity</u>	<u>Method</u>	<u>Precision</u>	<u>Accuracy</u>
<u>Date</u>	<u>Time</u>	<u>By</u>	<u>Parameter</u>				<u>% RPD</u>	<u>% Recovery</u>
02/11	0800	RAH	Mercury Digestion	1		02/2005 EPA 245.7		
02/09	0945	RAH	Metals Digestion	1		1996 EPA 3050B		
02/12	1511	RAH	Mercury	< 0.1000	mg/kg	SW-846 7471	2.15	97.7 *
02/11	1210	RAH	Sodium	30.50	mg/kg	SW846 6020A	8.78	104.1 *
02/11	1210	RAH	Magnesium, Total	542.00	mg/kg	SW846 6020A	12.48	104.4 *
02/11	1210	RAH	Potassium, Total	475.50	mg/kg	SW846 6020A	0.89	86.5 *
02/11	1210	RAH	Calcium, Total	891.00	mg/kg	SW846 6020A	0.19	106.1 *
02/11	1210	RAH	Nickel, Total	16.00	mg/kg	SW846 6020A	0.13	100.8 *
02/11	1210	RAH	Copper, Total	11.50	mg/kg	SW846 6020A	0.83	102.6 *
02/11	1210	RAH	Zinc, Total	62.50	mg/kg	SW846 6020A	1.44	100.8 *
02/11	1210	RAH	Arsenic, Total	8.00	mg/kg	SW846 6020A	0.74	100.6 *
02/11	1210	RAH	Selenium, Total	3.50	mg/kg	SW846 6020A	0.26	105.4 *
02/11	1210	RAH	Molybdenum, Total	< 2.50	mg/kg	SW846 6020A	0.12	101.4 *
02/11	1210	RAH	Cadmium, Total	< 2.50	mg/kg	SW846 6020A	3.11	104.3 *
02/11	1210	RAH	Lead, Total	10.50	mg/kg	SW846 6020A	0.43	103.7 *
02/11	1210	RAH	Sodium Absorption Ratio	0.0281		AGRN 724	16.68	104.1 *

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Signature Richard Brown
 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: 1602020092
 Customer Name : HUNTSVILLE WASTEWATER-SLUDGE
 Customer Number : 1652
 Report Date : 02/19/16

Sample Date : 01/04/16
 Sample Time : 1115
 Sample Type : GRAB SOIL
 Sample From : MR 17

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

<u>Laboratory Analysis</u>							<u>Quality Assurance</u>	
<u>Analysis</u>			<u>Result</u>	<u>Notes</u>	<u>Quantity</u>	<u>Method</u>	<u>Precision</u>	<u>Accuracy</u>
<u>Date</u>	<u>Time</u>	<u>By</u>	<u>Parameter</u>				<u>% RPD</u>	<u>% Recovery</u>
02/11	0800	RAH	Mercury Digestion	1		02/2005 EPA 245.7		
02/09	0945	RAH	Metals Digestion	1		1996 EPA 3050B		
02/12	1511	RAH	Mercury	< 0.1000	mg/kg	SW-846 7471	2.15	97.7 *
02/11	1210	RAH	Sodium	58.00	mg/kg	SW846 6020A	8.78	104.1 *
02/11	1210	RAH	Magnesium, Total	483.50	mg/kg	SW846 6020A	12.48	104.4 *
02/11	1210	RAH	Potassium, Total	567.00	mg/kg	SW846 6020A	0.89	86.5 *
02/11	1210	RAH	Calcium, Total	1558.50	mg/kg	SW846 6020A	0.19	106.1 *
02/11	1210	RAH	Nickel, Total	8.00	mg/kg	SW846 6020A	0.13	100.8 *
02/11	1210	RAH	Copper, Total	15.50	mg/kg	SW846 6020A	0.83	102.6 *
02/11	1210	RAH	Zinc, Total	54.50	mg/kg	SW846 6020A	1.44	100.8 *
02/11	1210	RAH	Arsenic, Total	4.50	mg/kg	SW846 6020A	0.74	100.6 *
02/11	1210	RAH	Selenium, Total	3.00	mg/kg	SW846 6020A	0.26	105.4 *
02/11	1210	RAH	Molybdenum, Total	< 2.50	mg/kg	SW846 6020A	0.12	101.4 *
02/11	1210	RAH	Cadmium, Total	< 2.50	mg/kg	SW846 6020A	3.11	104.3 *
02/11	1210	RAH	Lead, Total	10.50	mg/kg	SW846 6020A	0.43	103.7 *
02/11	1210	RAH	Sodium Absorption Ratio	0.0465		AGRN 724	16.68	104.1 *

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Signature Richard Brown
 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: 1602020093
 Customer Name : HUNTSVILLE WASTEWATER-SLUDGE
 Customer Number : 1652
 Report Date : 02/19/16

Sample Date : 01/04/16
 Sample Time : 1130
 Sample Type : GRAB SOIL
 Sample From : WALDEN 21

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

<u>Laboratory Analysis</u>							<u>Quality Assurance</u>	
<u>Analysis</u>			<u>Result</u>	<u>Notes</u>	<u>Quantity</u>	<u>Method</u>	<u>Precision</u>	<u>Accuracy</u>
<u>Date</u>	<u>Time</u>	<u>By</u>	<u>Parameter</u>				<u>% RPD</u>	<u>% Recovery</u>
02/11	0800	RAH	Mercury Digestion	1		02/2005 EPA 245.7		
02/09	0945	RAH	Metals Digestion	1		1996 EPA 3050B		
02/12	1511	RAH	Mercury	< 0.1000	mg/kg	SW-846 7471	2.15	97.7 *
02/11	1210	RAH	Sodium	< 2.50	mg/kg	SW846 6020A	8.78	104.1 *
02/11	1210	RAH	Magnesium, Total	433.00	mg/kg	SW846 6020A	12.48	104.4 *
02/11	1210	RAH	Potassium, Total	258.50	mg/kg	SW846 6020A	0.89	86.5 *
02/11	1210	RAH	Calcium, Total	1542.00	mg/kg	SW846 6020A	0.19	106.1 *
02/11	1210	RAH	Nickel, Total	7.50	mg/kg	SW846 6020A	0.13	100.8 *
02/11	1210	RAH	Copper, Total	14.00	mg/kg	SW846 6020A	0.83	102.6 *
02/11	1210	RAH	Zinc, Total	64.00	mg/kg	SW846 6020A	1.44	100.8 *
02/11	1210	RAH	Arsenic, Total	< 2.50	mg/kg	SW846 6020A	0.74	100.6 *
02/11	1210	RAH	Selenium, Total	3.50	mg/kg	SW846 6020A	0.26	105.4 *
02/11	1210	RAH	Molybdenum, Total	< 2.50	mg/kg	SW846 6020A	0.12	101.4 *
02/11	1210	RAH	Cadmium, Total	< 2.50	mg/kg	SW846 6020A	3.11	104.3 *
02/11	1210	RAH	Lead, Total	10.00	mg/kg	SW846 6020A	0.43	103.7 *
02/11	1210	RAH	Sodium Absorption Ratio	0.0020		AGRN 724	16.68	104.1 *

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Signature Richard Broom
 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: 1602020094
 Customer Name : HUNTSVILLE WASTEWATER-SLUDGE
 Customer Number : 1652
 Report Date : 02/19/16

Sample Date : 01/04/16
 Sample Time : 1140
 Sample Type : GRAB SOIL
 Sample From : WALDEN 22

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

<u>Laboratory Analysis</u>							<u>Quality Assurance</u>	
<u>Analysis</u>			<u>Result</u>	<u>Notes</u>	<u>Quantity</u>	<u>Method</u>	<u>Precision</u>	<u>Accuracy</u>
<u>Date</u>	<u>Time</u>	<u>By</u>	<u>Parameter</u>				<u>% RPD</u>	<u>% Recovery</u>
02/11	0800	RAH	Mercury Digestion	1		02/2005 EPA 245.7		
02/09	0945	RAH	Metals Digestion	1		1996 EPA 3050B		
02/12	1511	RAH	Mercury	< 0.1000	mg/kg	SW-846 7471	2.15	97.7 *
02/11	1210	RAH	Sodium	48.50	mg/kg	SW846 6020A	8.78	104.1 *
02/11	1210	RAH	Magnesium, Total	616.00	mg/kg	SW846 6020A	12.48	104.4 *
02/11	1210	RAH	Potassium, Total	323.50	mg/kg	SW846 6020A	0.89	86.5 *
02/11	1210	RAH	Calcium, Total	5947.00	mg/kg	SW846 6020A	0.19	106.1 *
02/11	1210	RAH	Nickel, Total	5.50	mg/kg	SW846 6020A	0.13	100.8 *
02/11	1210	RAH	Copper, Total	28.50	mg/kg	SW846 6020A	0.83	102.6 *
02/11	1210	RAH	Zinc, Total	83.00	mg/kg	SW846 6020A	1.44	100.8 *
02/11	1210	RAH	Arsenic, Total	3.00	mg/kg	SW846 6020A	0.74	100.6 *
02/11	1210	RAH	Selenium, Total	< 2.50	mg/kg	SW846 6020A	0.26	105.4 *
02/11	1210	RAH	Molybdenum, Total	< 2.50	mg/kg	SW846 6020A	0.12	101.4 *
02/11	1210	RAH	Cadmium, Total	< 2.50	mg/kg	SW846 6020A	3.11	104.3 *
02/11	1210	RAH	Lead, Total	10.00	mg/kg	SW846 6020A	0.43	103.7 *
02/11	1210	RAH	Sodium Absorption Ratio	0.0226		AGRN 724	16.68	104.1 *

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 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: 1602020095
 Customer Name : HUNTSVILLE WASTEWATER-SLUDGE
 Customer Number : 1652
 Report Date : 02/19/16

Sample Date : 01/04/16
 Sample Time : 1200
 Sample Type : GRAB SOIL
 Sample From : MCLOUD 1

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

<u>Laboratory Analysis</u>							<u>Quality Assurance</u>	
<u>Analysis</u>			<u>Result</u>	<u>Notes</u>	<u>Quantity</u>	<u>Method</u>	<u>Precision</u>	<u>Accuracy</u>
<u>Date</u>	<u>Time</u>	<u>By</u>	<u>Parameter</u>				<u>% RPD</u>	<u>% Recovery</u>
02/11	0800	RAH	Mercury Digestion	1		02/2005 EPA 245.7		
02/09	0945	RAH	Metals Digestion	1		1996 EPA 3050B		
02/12	1511	RAH	Mercury	< 0.1000	mg/kg	SW-846 7471	2.15	97.7 *
02/11	1210	RAH	Sodium	45.00	mg/kg	SW846 6020A	8.78	104.1 *
02/11	1210	RAH	Magnesium, Total	1066.00	mg/kg	SW846 6020A	10.59	104.4 *
02/11	1210	RAH	Potassium, Total	715.00	mg/kg	SW846 6020A	0.89	86.5 *
02/11	1210	RAH	Calcium, Total	3164.00	mg/kg	SW846 6020A	0.19	106.1 *
02/11	1210	RAH	Nickel, Total	19.50	mg/kg	SW846 6020A	0.13	100.8 *
02/11	1210	RAH	Copper, Total	29.50	mg/kg	SW846 6020A	0.83	102.6 *
02/11	1210	RAH	Zinc, Total	94.50	mg/kg	SW846 6020A	1.44	100.8 *
02/11	1210	RAH	Arsenic, Total	8.00	mg/kg	SW846 6020A	0.74	100.6 *
02/11	1210	RAH	Selenium, Total	3.50	mg/kg	SW846 6020A	0.26	105.4 *
02/11	1210	RAH	Molybdenum, Total	< 2.50	mg/kg	SW846 6020A	0.12	101.4 *
02/11	1210	RAH	Cadmium, Total	< 2.50	mg/kg	SW846 6020A	3.11	104.3 *
02/11	1210	RAH	Lead, Total	12.50	mg/kg	SW846 6020A	0.43	103.7 *
02/11	1210	RAH	Sodium Absorption Ratio	0.0250		AGRN 724	16.68	104.1 *

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Signature Richard Brown
 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: 1602020096
 Customer Name : HUNTSVILLE WASTEWATER-SLUDGE
 Customer Number : 1652
 Report Date : 02/19/16

Sample Date : 01/04/16
 Sample Time : 1350
 Sample Type : GRAB SOIL
 Sample From : BOH 1

Collected By: BE
 Delivery By : WDS
 Work Order :
 Purchase Order :

<u>Laboratory Analysis</u>							<u>Quality Assurance</u>	
<u>Analysis</u>			<u>Result</u>	<u>Notes</u>	<u>Quantity</u>	<u>Method</u>	<u>Precision</u>	<u>Accuracy</u>
<u>Date</u>	<u>Time</u>	<u>By</u>	<u>Parameter</u>				<u>% RPD</u>	<u>% Recover</u>
02/11	0800	RAH	Mercury Digestion	1		02/2005 EPA 245.7		
02/09	0945	RAH	Metals Digestion	1		1996 EPA 3050B		
02/12	1511	RAH	Mercury	< 0.1000	mg/kg	SW-846 7471	2.15	97.7
02/11	1210	RAH	Sodium	169.00	mg/kg	SW846 6020A	8.78	104.1
02/11	1210	RAH	Magnesium, Total	1134.00	mg/kg	SW846 6020A	10.59	104.4
02/11	1210	RAH	Potassium, Total	923.00	mg/kg	SW846 6020A	0.89	86.5
02/11	1210	RAH	Calcium, Total	4942.50	mg/kg	SW846 6020A	0.19	106.1
02/11	1210	RAH	Nickel, Total	4.50	mg/kg	SW846 6020A	0.13	100.8
02/11	1210	RAH	Copper, Total	30.50	mg/kg	SW846 6020A	0.83	102.6
02/11	1210	RAH	Zinc, Total	115.00	mg/kg	SW846 6020A	1.44	100.8
02/11	1210	RAH	Arsenic, Total	< 2.50	mg/kg	SW846 6020A	0.74	100.6
02/11	1210	RAH	Selenium, Total	2.50	mg/kg	SW846 6020A	0.26	105.4
02/11	1210	RAH	Molybdenum, Total	< 2.50	mg/kg	SW846 6020A	0.12	101.4
02/11	1210	RAH	Cadmium, Total	< 2.50	mg/kg	SW846 6020A	3.11	104.3
02/11	1210	RAH	Lead, Total	4.50	mg/kg	SW846 6020A	0.43	103.7
02/11	1210	RAH	Sodium Absorption Ratio	0.0797		AGRN 724	16.68	104.1

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Signature Richard Brown
 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: 1602020097
 Customer Name : HUNTSVILLE WASTEWATER-SLUDGE
 Customer Number : 1652
 Report Date : 02/19/16

Sample Date : 01/04/16
 Sample Time : 1400
 Sample Type : GRAB SOIL
 Sample From : BOH 2

Collected By: BE
 Delivery By : WDS
 Work Order :
 Purchase Order :

<u>Laboratory Analysis</u>							<u>Quality Assurance</u>	
<u>Analysis</u>			<u>Result</u>	<u>Notes</u>	<u>Quantity</u>	<u>Method</u>	<u>Precision</u>	<u>Accuracy</u>
<u>Date</u>	<u>Time</u>	<u>By</u>	<u>Parameter</u>				<u>% RPD</u>	<u>% Recover</u>
02/11	0800	RAH	Mercury Digestion	1		02/2005 EPA 245.7		
02/09	0945	RAH	Metals Digestion	1		1996 EPA 3050B		
02/12	1511	RAH	Mercury	< 0.1000	mg/kg	SW-846 7471	2.15	97.7
02/11	1210	RAH	Sodium	32.00	mg/kg	SW846 6020A	8.78	104.1
02/11	1210	RAH	Magnesium, Total	397.50	mg/kg	SW846 6020A	10.59	104.4
02/11	1210	RAH	Potassium, Total	428.50	mg/kg	SW846 6020A	0.89	86.5
02/11	1210	RAH	Calcium, Total	1208.00	mg/kg	SW846 6020A	0.19	106.1
02/11	1210	RAH	Nickel, Total	3.50	mg/kg	SW846 6020A	0.13	100.8
02/11	1210	RAH	Copper, Total	11.50	mg/kg	SW846 6020A	0.83	102.6
02/11	1210	RAH	Zinc, Total	45.50	mg/kg	SW846 6020A	1.44	100.8
02/11	1210	RAH	Arsenic, Total	< 2.50	mg/kg	SW846 6020A	0.74	100.6
02/11	1210	RAH	Selenium, Total	< 2.50	mg/kg	SW846 6020A	0.26	105.4
02/11	1210	RAH	Molybdenum, Total	< 2.50	mg/kg	SW846 6020A	0.12	101.4
02/11	1210	RAH	Cadmium, Total	< 2.50	mg/kg	SW846 6020A	3.11	104.3
02/11	1210	RAH	Lead, Total	5.00	mg/kg	SW846 6020A	0.43	103.7
02/11	1210	RAH	Sodium Absorption Ratio	0.0289		AGRN 724	16.68	104.1

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 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: 1602020098
 Customer Name : HUNTSVILLE WASTEWATER-SLUDGE
 Customer Number : 1652
 Report Date : 02/19/16

Sample Date : 01/04/16
 Sample Time : 1415
 Sample Type : GRAB SOIL
 Sample From : BOH 3

Collected By: BE
 Delivery By : WDS
 Work Order :
 Purchase Order :

<u>Laboratory Analysis</u>							<u>Quality Assurance</u>	
<u>Analysis</u>			<u>Result</u>	<u>Notes</u>	<u>Quantity</u>	<u>Method</u>	<u>Precision</u>	<u>Accuracy</u>
<u>Date</u>	<u>Time</u>	<u>By</u>	<u>Parameter</u>				<u>% RPD</u>	<u>% Recovery</u>
02/11	0800	RAH	Mercury Digestion	1		02/2005 EPA 245.7		
02/09	0945	RAH	Metals Digestion	1		1996 EPA 3050B		
02/12	1511	RAH	Mercury	< 0.1000	mg/kg	SW-846 7471	2.15	97.7 *
02/11	1210	RAH	Sodium	26.50	mg/kg	SW846 6020A	8.78	104.1 *
02/11	1210	RAH	Magnesium, Total	401.00	mg/kg	SW846 6020A	10.59	104.4 *
02/11	1210	RAH	Potassium, Total	368.00	mg/kg	SW846 6020A	0.89	86.5 *
02/11	1210	RAH	Calcium, Total	1138.50	mg/kg	SW846 6020A	0.19	106.1 *
02/11	1210	RAH	Nickel, Total	4.00	mg/kg	SW846 6020A	0.13	100.8 *
02/11	1210	RAH	Copper, Total	< 2.50	mg/kg	SW846 6020A	0.83	102.6 *
02/11	1210	RAH	Zinc, Total	23.00	mg/kg	SW846 6020A	1.44	100.8 *
02/11	1210	RAH	Arsenic, Total	< 2.50	mg/kg	SW846 6020A	0.74	100.6 *
02/11	1210	RAH	Selenium, Total	< 2.50	mg/kg	SW846 6020A	0.26	105.4 *
02/11	1210	RAH	Molybdenum, Total	< 2.50	mg/kg	SW846 6020A	0.12	101.4 *
02/11	1210	RAH	Cadmium, Total	< 2.50	mg/kg	SW846 6020A	3.11	104.3 *
02/11	1210	RAH	Lead, Total	6.00	mg/kg	SW846 6020A	0.43	103.7 *
02/11	1210	RAH	Sodium Absorption Ratio	0.0243		AGRN 724	16.68	104.1 *

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 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: 1602020099
 Customer Name : HUNTSVILLE WASTEWATER-SLUDGE
 Customer Number : 1652
 Report Date : 02/19/16

Sample Date : 01/04/16
 Sample Time : 1425
 Sample Type : GRAB SOIL
 Sample From : BOH 4

Collected By: BE
 Delivery By : WDS
 Work Order :
 Purchase Order :

<u>Laboratory Analysis</u>							<u>Quality Assurance</u>	
<u>Analysis</u>			<u>Result</u>	<u>Notes</u>	<u>Quantity</u>	<u>Method</u>	<u>Precision</u>	<u>Accuracy</u>
<u>Date</u>	<u>Time</u>	<u>By</u>	<u>Parameter</u>				<u>% RPD</u>	<u>% Recovery</u>
02/11	0800	RAH	Mercury Digestion	1		02/2005 EPA 245.7		
02/09	0945	RAH	Metals Digestion	1		1996 EPA 3050B		
02/12	1511	RAH	Mercury	< 0.1000	mg/kg	SW-846 7471	2.15	97.7 *
02/11	1210	RAH	Sodium	16.00	mg/kg	SW846 6020A	8.78	104.1 *
02/11	1210	RAH	Magnesium, Total	379.50	mg/kg	SW846 6020A	10.59	104.4 *
02/11	1210	RAH	Potassium, Total	457.00	mg/kg	SW846 6020A	0.89	86.5 *
02/11	1210	RAH	Calcium, Total	473.50	mg/kg	SW846 6020A	0.19	106.1 *
02/11	1210	RAH	Nickel, Total	8.00	mg/kg	SW846 6020A	0.13	100.8 *
02/11	1210	RAH	Copper, Total	8.00	mg/kg	SW846 6020A	0.83	102.6 *
02/11	1210	RAH	Zinc, Total	38.50	mg/kg	SW846 6020A	1.44	100.8 *
02/11	1210	RAH	Arsenic, Total	4.00	mg/kg	SW846 6020A	0.74	100.6 *
02/11	1210	RAH	Selenium, Total	< 2.50	mg/kg	SW846 6020A	0.26	105.4 *
02/11	1210	RAH	Molybdenum, Total	< 2.50	mg/kg	SW846 6020A	0.12	101.4 *
02/11	1210	RAH	Cadmium, Total	< 2.50	mg/kg	SW846 6020A	3.11	104.3 *
02/11	1210	RAH	Lead, Total	11.00	mg/kg	SW846 6020A	0.43	103.7 *
02/11	1210	RAH	Sodium Absorption Ratio	0.0188		AGRN 724	16.68	104.1 *

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 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: 1602020100
 Customer Name : HUNTSVILLE WASTEWATER-SLUDGE
 Customer Number : 1652
 Report Date : 02/19/16

Sample Date : 01/04/16
 Sample Time : 1440
 Sample Type : GRAB SOIL
 Sample From : BOH 1H

Collected By: BE
 Delivery By : WDS
 Work Order :
 Purchase Order :

<u>Laboratory Analysis</u>							<u>Quality Assurance</u>	
Analysis			Result	Notes	Quantity	Method	Precision % RPD	Accuracy % Recovery
02/11	0800	RAH	Mercury Digestion	1		02/2005 EPA 245.7		
02/09	0945	RAH	Metals Digestion	1		1996 EPA 3050B		
02/12	1511	RAH	Mercury	< 0.1000	mg/kg	SW-846 7471	2.15	97.7 *
02/11	1210	RAH	Sodium	50.50	mg/kg	SW846 6020A	8.78	104.1 *
02/11	1210	RAH	Magnesium, Total	408.50	mg/kg	SW846 6020A	10.59	104.4 *
02/11	1210	RAH	Potassium, Total	473.00	mg/kg	SW846 6020A	0.89	86.5 *
02/11	1210	RAH	Calcium, Total	1276.50	mg/kg	SW846 6020A	0.19	106.1 *
02/11	1210	RAH	Nickel, Total	8.00	mg/kg	SW846 6020A	0.13	100.8 *
02/11	1210	RAH	Copper, Total	11.50	mg/kg	SW846 6020A	0.83	102.6 *
02/11	1210	RAH	Zinc, Total	50.50	mg/kg	SW846 6020A	1.44	100.8 *
02/11	1210	RAH	Arsenic, Total	3.00	mg/kg	SW846 6020A	0.74	100.6 *
02/11	1210	RAH	Selenium, Total	< 2.50	mg/kg	SW846 6020A	0.26	105.4 *
02/11	1210	RAH	Molybdenum, Total	< 2.50	mg/kg	SW846 6020A	0.12	101.4 *
02/11	1210	RAH	Cadmium, Total	< 2.50	mg/kg	SW846 6020A	3.11	104.3 *
02/11	1210	RAH	Lead, Total	9.00	mg/kg	SW846 6020A	0.43	103.7 *
02/11	1210	RAH	Sodium Absorption Ratio	0.0445		AGRN 724	16.68	104.1 *

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 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: 1602020101
 Customer Name : HUNTSVILLE WASTEWATER-SLUDGE
 Customer Number : 1652
 Report Date : 02/19/16

Sample Date : 01/04/16
 Sample Time : 1445
 Sample Type : GRAB SOIL
 Sample From : BOH 2H

Collected By: BE
 Delivery By : WDS
 Work Order :
 Purchase Order :

<u>Laboratory Analysis</u>							<u>Quality Assurance</u>	
<u>Analysis</u>			<u>Result</u>	<u>Notes</u>	<u>Quantity</u>	<u>Method</u>	<u>Precision</u>	<u>Accuracy</u>
<u>Date</u>	<u>Time</u>	<u>By</u>	<u>Parameter</u>				<u>% RPD</u>	<u>% Recovery</u>
02/11	0800	RAH	Mercury Digestion	1		02/2005 EPA 245.7		
02/09	0945	RAH	Metals Digestion	1		1996 EPA 3050B		
02/12	1511	RAH	Mercury	< 0.1000	mg/kg	SW-846 7471	2.15	97.7
02/11	1210	RAH	Sodium	42.00	mg/kg	SW846 6020A	8.78	104.1
02/11	1210	RAH	Magnesium, Total	578.50	mg/kg	SW846 6020A	10.59	104.4
02/11	1210	RAH	Potassium, Total	615.00	mg/kg	SW846 6020A	0.89	86.5
02/11	1210	RAH	Calcium, Total	2752.50	mg/kg	SW846 6020A	0.19	106.1
02/11	1210	RAH	Nickel, Total	3.00	mg/kg	SW846 6020A	0.13	100.8
02/11	1210	RAH	Copper, Total	5.50	mg/kg	SW846 6020A	0.83	102.6
02/11	1210	RAH	Zinc, Total	44.50	mg/kg	SW846 6020A	1.44	100.8
02/11	1210	RAH	Arsenic, Total	3.00	mg/kg	SW846 6020A	0.74	100.6
02/11	1210	RAH	Selenium, Total	< 2.50	mg/kg	SW846 6020A	0.26	105.4
02/11	1210	RAH	Molybdenum, Total	< 2.50	mg/kg	SW846 6020A	0.12	101.4
02/11	1210	RAH	Cadmium, Total	< 2.50	mg/kg	SW846 6020A	3.11	104.3
02/11	1210	RAH	Lead, Total	7.50	mg/kg	SW846 6020A	0.43	103.7
02/11	1210	RAH	Sodium Absorption Ratio	0.0269		AGRN 724	16.68	104.1

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Signature Richard Broom
 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: 1602020102
 Customer Name : HUNTSVILLE WASTEWATER-SLUDGE
 Customer Number : 1652
 Report Date : 02/19/16

Sample Date : 01/04/16
 Sample Time : 1510
 Sample Type : GRAB SOIL
 Sample From : BOH 2BH

Collected By: BE
 Delivery By : WDS
 Work Order :
 Purchase Order :

<u>Laboratory Analysis</u>							<u>Quality Assurance</u>	
<u>Analysis</u>			<u>Result</u>	<u>Notes</u>	<u>Quantity</u>	<u>Method</u>	<u>Precision</u>	<u>Accuracy</u>
<u>Date</u>	<u>Time</u>	<u>By</u>	<u>Parameter</u>				<u>% RPD</u>	<u>% Recovery</u>
02/11	0800	RAH	Mercury Digestion	1		02/2005 EPA 245.7		
02/09	0945	RAH	Metals Digestion	541		1996 EPA 3050B		
02/12	1511	RAH	Mercury	< 0.1000	mg/kg	SW-846 7471	2.15	97.7 %
02/11	1210	RAH	Sodium	22.50	mg/kg	SW846 6020A	8.78	104.1 %
02/11	1210	RAH	Magnesium, Total	429.50	mg/kg	SW846 6020A	10.59	104.4 %
02/11	1210	RAH	Potassium, Total	391.00	mg/kg	SW846 6020A	0.89	86.5 %
02/11	1210	RAH	Calcium, Total	1867.50	mg/kg	SW846 6020A	0.19	106.1 %
02/11	1210	RAH	Nickel, Total	4.50	mg/kg	SW846 6020A	0.13	100.8 %
02/11	1210	RAH	Copper, Total	16.50	mg/kg	SW846 6020A	0.83	102.6 %
02/11	1210	RAH	Zinc, Total	53.50	mg/kg	SW846 6020A	1.44	100.8 %
02/11	1210	RAH	Arsenic, Total	4.00	mg/kg	SW846 6020A	0.74	100.6 %
02/11	1210	RAH	Selenium, Total	< 2.50	mg/kg	SW846 6020A	0.26	105.4 %
02/11	1210	RAH	Molybdenum, Total	< 2.50	mg/kg	SW846 6020A	0.12	101.4 %
02/11	1210	RAH	Cadmium, Total	< 2.50	mg/kg	SW846 6020A	3.11	104.3 %
02/11	1210	RAH	Lead, Total	9.00	mg/kg	SW846 6020A	0.43	103.7 %
02/11	1210	RAH	Sodium Absorption Ratio	0.0173		AGRN 724	16.68	104.1 %

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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: 1602020103
 Customer Name : HUNTSVILLE WASTEWATER-SLUDGE
 Customer Number : 1652
 Report Date : 02/19/16

Sample Date : 01/04/16
 Sample Time : 1525
 Sample Type : GRAB SOIL
 Sample From : BOH 3H

Collected By: BE
 Delivery By : WDS
 Work Order :
 Purchase Order :

<u>Laboratory Analysis</u>							<u>Quality Assurance</u>	
<u>Analysis</u>			<u>Result</u>	<u>Notes</u>	<u>Quantity</u>	<u>Method</u>	<u>Precision</u>	<u>Accuracy</u>
<u>Date</u>	<u>Time</u>	<u>By</u>	<u>Parameter</u>				<u>% RPD</u>	<u>% Recovery</u>
02/11	0800	RAH	Mercury Digestion	1		02/2005 EPA 245.7		
02/09	0945	RAH	Metals Digestion	1		1996 EPA 3050B		
02/12	1511	RAH	Mercury	< 0.1000	mg/kg	SW-846 7471	2.15	97.7 *
02/11	1210	RAH	Sodium	39.50	mg/kg	SW846 6020A	8.78	104.1 *
02/11	1210	RAH	Magnesium, Total	420.50	mg/kg	SW846 6020A	10.59	104.4 *
02/11	1210	RAH	Potassium, Total	415.00	mg/kg	SW846 6020A	0.89	86.5 *
02/11	1210	RAH	Calcium, Total	1405.50	mg/kg	SW846 6020A	0.19	106.1 *
02/11	1210	RAH	Nickel, Total	3.50	mg/kg	SW846 6020A	0.13	100.8 *
02/11	1210	RAH	Copper, Total	5.00	mg/kg	SW846 6020A	0.83	102.6 *
02/11	1210	RAH	Zinc, Total	35.50	mg/kg	SW846 6020A	1.44	100.8 *
02/11	1210	RAH	Arsenic, Total	3.00	mg/kg	SW846 6020A	0.74	100.6 *
02/11	1210	RAH	Selenium, Total	< 2.50	mg/kg	SW846 6020A	0.26	105.4 *
02/11	1210	RAH	Molybdenum, Total	< 2.50	mg/kg	SW846 6020A	0.12	101.4 *
02/11	1210	RAH	Cadmium, Total	< 2.50	mg/kg	SW846 6020A	3.11	104.3 *
02/11	1210	RAH	Lead, Total	7.50	mg/kg	SW846 6020A	0.43	103.7 *
02/11	1210	RAH	Sodium Absorption Ratio	0.0336		AGRN 724	16.68	104.1 *

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 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: 1602020104
 Customer Name : HUNTSVILLE WASTEWATER-SLUDGE
 Customer Number : 1652
 Report Date : 02/19/16

Sample Date : 01/04/16
 Sample Time : 1540
 Sample Type : GRAB SOIL
 Sample From : BOH 4H

Collected By: BE
 Delivery By : WDS
 Work Order :
 Purchase Order :

<u>Laboratory Analysis</u>							<u>Quality Assurance</u>	
<u>Analysis</u>			<u>Result</u>	<u>Notes</u>	<u>Quantity</u>	<u>Method</u>	<u>Precision</u>	<u>Accuracy</u>
<u>Date</u>	<u>Time</u>	<u>By</u>	<u>Parameter</u>				<u>% RPD</u>	<u>% Recovery</u>
02/11	0800	RAH	Mercury Digestion	1		02/2005 EPA 245.7		
02/09	0945	RAH	Metals Digestion	1		1996 EPA 3050B		
02/12	1511	RAH	Mercury	< 0.1000	mg/kg	SW-846 7471	2.15	97.7 %
02/11	1210	RAH	Sodium	30.00	mg/kg	SW846 6020A	8.78	104.1 %
02/11	1210	RAH	Magnesium, Total	512.50	mg/kg	SW846 6020A	10.59	104.4 %
02/11	1210	RAH	Potassium, Total	586.00	mg/kg	SW846 6020A	0.89	86.5 %
02/11	1210	RAH	Calcium, Total	1595.50	mg/kg	SW846 6020A	0.19	106.1 %
02/11	1210	RAH	Nickel, Total	4.00	mg/kg	SW846 6020A	0.13	100.8 %
02/11	1210	RAH	Copper, Total	6.50	mg/kg	SW846 6020A	0.83	102.6 %
02/11	1210	RAH	Zinc, Total	42.50	mg/kg	SW846 6020A	1.44	100.8 %
02/11	1210	RAH	Arsenic, Total	4.50	mg/kg	SW846 6020A	0.74	100.6 %
02/11	1210	RAH	Selenium, Total	< 2.50	mg/kg	SW846 6020A	0.26	105.4 %
02/11	1210	RAH	Molybdenum, Total	< 2.50	mg/kg	SW846 6020A	0.12	101.4 %
02/11	1210	RAH	Cadmium, Total	< 2.50	mg/kg	SW846 6020A	3.11	104.3 %
02/11	1210	RAH	Lead, Total	9.50	mg/kg	SW846 6020A	0.43	103.7 %
02/11	1210	RAH	Sodium Absorption Ratio	0.0236		AGRN 724	16.68	104.1 %

* 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 Richard Brown
 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: 1602020105
 Customer Name : HUNTSVILLE WASTEWATER-SLUDGE
 Customer Number : 1652
 Report Date : 02/19/16

Sample Date : 01/04/16
 Sample Time : 1150
 Sample Type : GRAB SOIL
 Sample From : WALDEN 13

Collected By: BE
 Delivery By : WDS
 Work Order :
 Purchase Order :

<u>Laboratory Analysis</u>							<u>Quality Assurance</u>	
<u>Analysis</u>			<u>Result</u>	<u>Notes</u>	<u>Quantity</u>	<u>Method</u>	<u>Precision</u>	<u>Accuracy</u>
<u>Date</u>	<u>Time</u>	<u>By</u>	<u>Parameter</u>				<u>% RPD</u>	<u>% Recovery</u>
02/11	0800	RAH	Mercury Digestion	1		02/2005 EPA 245.7		
02/09	0945	RAH	Metals Digestion	1		1996 EPA 3050B		
02/12	1511	RAH	Mercury	< 0.1000	mg/kg	SW-846 7471	2.15	97.7 %
02/11	1210	RAH	Sodium	20.50	mg/kg	SW846 6020A	8.78	104.1 %
02/11	1210	RAH	Magnesium, Total	574.50	mg/kg	SW846 6020A	10.59	104.4 %
02/11	1210	RAH	Potassium, Total	293.00	mg/kg	SW846 6020A	0.89	86.5 %
02/11	1210	RAH	Calcium, Total	2139.50	mg/kg	SW846 6020A	0.19	106.1 %
02/11	1210	RAH	Nickel, Total	4.50	mg/kg	SW846 6020A	0.13	100.8 %
02/11	1210	RAH	Copper, Total	24.50	mg/kg	SW846 6020A	0.83	102.6 %
02/11	1210	RAH	Zinc, Total	70.00	mg/kg	SW846 6020A	1.44	100.8 %
02/11	1210	RAH	Arsenic, Total	3.50	mg/kg	SW846 6020A	0.74	100.6 %
02/11	1210	RAH	Selenium, Total	< 2.50	mg/kg	SW846 6020A	0.26	105.4 %
02/11	1210	RAH	Molybdenum, Total	< 2.50	mg/kg	SW846 6020A	0.12	101.4 %
02/11	1210	RAH	Cadmium, Total	< 2.50	mg/kg	SW846 6020A	3.11	104.3 %
02/11	1210	RAH	Lead, Total	10.00	mg/kg	SW846 6020A	0.43	103.7 %
02/11	1210	RAH	Sodium Absorption Ratio	0.0144		AGRN 724	16.68	104.1 %

* 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 Richard Brown
 Environmental Services Co., Inc.

Environmental Services Company, Inc.
 Northwest Arkansas
 1107 Century Street
 Springdale, Arkansas 72762
 website: www.esclabs.com

Corporate Office, Little Rock, Arkansas
 501-221-2565

Carlsbad, New Mexico
 575-887-1ESC

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

CHAIN OF CUSTODY

Client Information				Project Information				Requested Parameters						
Company Name: <u>Huntsville Waste Water</u>				Permit/Project #: <u>5157-W Soil</u>				Spec. Conductivity (36)	Metals (See Comments)	SAR (99.L)				
Address: <u>P O Box 430</u>				Purchase Order #:										
<u>Huntsville, AR 72740</u>				Sampler Name(s):										
Telephone: <u>479-738-2081</u>				and Signature(s):										
FAX: <u>479-738-1285</u>														
ESC Client Number: <u>1652</u>														
Sample Identification		Sample Collection			Sample Containers									
Identification	ESC Control #	Date	Time	Type	Matrix	Type	Volume	Preservative	#					
<u>HATfield 1</u>	<u>1602020086</u>	<u>1/4/16</u>	<u>10:00</u>	<u>SOIL</u>								X		
<u>HATfield 2</u>	<u>1602020087</u>	<u>1/4/16</u>	<u>10:15</u>									X		
<u>MR 7</u>	<u>1602020088</u>	<u>1/4/16</u>	<u>10:30</u>									X		
<u>MR 8</u>	<u>1602020089</u>	<u>1/4/16</u>	<u>10:40</u>									X		
<u>MR 15</u>	<u>1602020090</u>	<u>1/4/16</u>	<u>10:50</u>									X		
<u>MR 16</u>	<u>1602020091</u>	<u>1/4/16</u>	<u>10:00</u>									X		
<u>MR 17</u>	<u>1602020092</u>	<u>1/4/16</u>	<u>11:15</u>									X		
<u>WALDEN 21</u>	<u>1602020093</u>	<u>1/4/16</u>	<u>11:30</u>									X		
<u>WALDEN 22</u>	<u>1602020094</u>	<u>1/4/16</u>	<u>11:40</u>									X		
<u>McCloud 1</u>	<u>1602020095</u>	<u>1/4/16</u>	<u>12:00</u>									X		
Relinquished By: (Signature and Printed Name) <u>BILLON BILL EFF</u>		Date <u>2-4-16</u>	Time <u>7:30</u>	Received By: (Signature and Printed Name) <u>Wade Schmitt</u>		Date <u>2-4-16</u>	Time <u>7:30</u>	Custody Seals: Used? <input checked="" type="checkbox"/> Intact? <input type="checkbox"/>						
Relinquished By: (Signature and Printed Name) <u>Wade Schmitt</u>		Date <u>2-4-16</u>	Time <u>15:40</u>	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) <u>Richard Brown</u>		Date <u>2-4-16</u>	Time <u>15:40</u>	Were samples properly preserved: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>						
Comments: <u>Hg (01.14) (00.HG), Na (11.HS), Ni (28.HS), As (33.HS)</u>				FLOW DATA		Field Test	Time	Analyst	Result	Result	Units			
<u>Se (34.HS), Mo (42.HS), Cd (48.HS), Pb (82.HS), Mg (12.HS), K (19.HS)</u>				Analyst:		pH:								
<u>Ca (20.HS), (00.MS), Cu, Zn</u>				Time:		Temp.:						°C	°F	
<u>(29.HS) (30.HS)</u>				Reading:		DO:								
				Units:		Debris:								
Cool all samples to 4 degrees C.						Chlorinated? Yes No		This Document is Page ___ of ___						

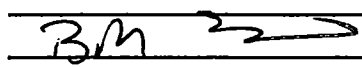
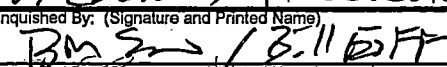
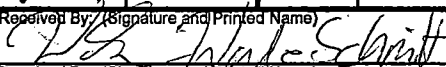

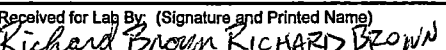
Environmental Services Company, Inc.
 Northwest Arkansas
 1107 Century Street
 Springdale, Arkansas 72762
 website: www.esclabs.com

Corporate Office, Little Rock, Arkansas
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Phone: 479-750-1170 Fax: 479-750-1172

CHAIN OF CUSTODY

Client Information				Project Information						Requested Parameters										
Company Name:		Huntsville Waste Water		Permit/Project #:		5157-W Soil				Spec Conductivity (25)	Metals (See Comments)	SAR (99.L)								
Address:		P O Box 430 Huntsville, AR 72740		Purchase Order #:																
Telephone:		479-738-2081		Sampler Name(s):		Bill EFF														
FAX:		479-738-1285		and Signature(s):		BM 														
ESC Client Number:		1652																		
Sample Identification			Sample Collection			Sample Containers														
Identification	ESC Control #	Date	Time	Type	Matrix	Type	Volume	Preservative	#											
BoH 1	1602020096	1/4/16	13:50	SOIL							X	X								
BoH 2	1602020097	1/4/16	14:20								X	X								
BoH 3	1602020098	1/4/16	14:15								X	X								
BoH 4	1602020099	1/4/16	14:25								X	X								
BoH 1H	1602020100	1/4/16	14:40								X	X								
BoH 2H	1602020101	1/4/16	14:45								X	X								
BoH 2BH	1602020102	1/4/16	15:10								X	X								
BoH 3H	1602020103	1/4/16	15:25								X	X								
BoH 4H	1602020104	1/4/16	15:40								X	X								
WARDEN 13	1602020105	1/4/16	11:50								X	X								
Relinquished By: (Signature and Printed Name)		Date	Time	Received By: (Signature and Printed Name)		Date	Time	Custody Seals:		Used?	Intact?									
 Bill EFF		2-4-16	7:30	 Wade Schmitt		2-4-16	7:30	Regular <input checked="" type="checkbox"/>		Special <input type="checkbox"/>										
Relinquished By: (Signature and Printed Name)		Date	Time	Received By: (Signature and Printed Name)		Date	Time	Were samples properly preserved:		Yes	No									
 Wade Schmitt		2-4-16	15:40	 Richard Brown		2-4-16	15:40	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>												
Comments:		Hg (01.14) (00.HG), Na (11.HS), Ni (28.HS), As (33.HS)		FLOW DATA		Field Test	Time	Analyst	Result	Result	Units									
		Se (34.HS), Mo (42.HS), Cd (48.HS), Pb (82.HS), Mg (12.HS), K (19.HS)		Analyst:		pH:														
		Ca (20.HS), (00.MS), Cu, Zn		Time:		Temp.:						°C	°F							
				Reading:		DO:														
				Units:		Debris:														
Cool all samples to 4 degrees C.						Chlorinated? Yes No			This Document is Page ___ of ___											

Cooperative Extension Service
Soil Testing And Research Laboratory
Marianna, AR 72360
<http://soiltest.uark.edu>

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HUNTSVILLE WATER UTILITIES PO BOX 430 HUNTSVILLE	Client ID: 4797382081 AR 72740
Date Processed:	2/10/2016
Field ID:	1
Acres:	75
Lime Applied in the last 4 years:	No
Leveled in past 4 years:	No
Irrigation:	Unknown
County:	Madison
Lab Number:	12926
Sample Number:	4172145

1. Nutrient Availability Index

Nutrient	Concentration		Soil Test Level (Mehlich 3)
	ppm	lb/acre	
P	428	856	Above Optimum
K	245	490	Above Optimum
Ca	2658	5316	--
Mg	205	410	--
SO4-S	45	90	--
Zn	22.4	44.8	--
Fe	123	246	--
Mn	266	532	--
Cu	5.8	11.6	--
B	0.5	1	--
NO3-N	107	214	--

2. Soil Properties

Property	Value	Units		
Soil pH (1:2 soil-water)	6.6	--		
Soil EC (1:2 soil-water)	145	umhos/cm		
Soil Estimated CEC	18.79	cmolc/kg		
Organic Matter (Loss on Ignition)		%		
Estimated Soil Texture	Silty Clay Loam - Clay Loam			
Estimated Base Saturation (%)				
Total	Ca	Mg	K	Na
84.03	70.74	9.09	3.34	0.86

3. Recommendations (Notice: State and/or federal nutrient management regulations may supersede these agronomic recommendations.)

Crop		N	P2O5	K2O	SO4-S	Zn	B	Lime
Last Crop	Pasture (203)	----- lb/acre -----						
Crop 1	Warm-Season Grasses (MNT) (207)	60	0	0	0	0	0	0
Crop 2								
Crop 3								

4. Crop 1 Notes:

Apply the recommended rates of N, P, and K, in spring when night temperatures are > 60 degrees F for 1 week. For higher production, topdress an additional 60 lb N/Acre after every 4 to 6 weeks of grazing. For fall grazing apply 50 lb N/Acre in early August. Do not apply N after September 1.

5. Crop 2 Notes:

6. Crop 3 Notes:


Darrin Henderson
County Extension Agent -
Staff Chair

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HUNTSVILLE WATER UTILITIES	Client ID: 4797382081
PO BOX 430	
HUNTSVILLE	AR 72740
Date Processed:	2/10/2016
Field ID:	2
Acres:	52
Lime Applied in the last 4 years:	No
Leveled in past 4 years:	No
Irrigation:	Unknown
County:	Madison
Lab Number:	12927
Sample Number:	4172146

1. Nutrient Availability Index

Nutrient	Concentration		Soil Test Level (Mehlich 3)
	ppm	lb/acre	
P	299	598	Above Optimum
K	383	766	Above Optimum
Ca	2121	4242	--
Mg	252	504	--
SO4-S	24	48	--
Zn	23.6	47.2	--
Fe	122	244	--
Mn	150	300	--
Cu	5.5	11	--
B	0.9	1.8	--
NO3-N	57	114	--

2. Soil Properties

Property	Value	Units		
Soil pH (1:2 soil-water)	6.5	--		
Soil EC (1:2 soil-water)	80	umhos/cm		
Soil Estimated CEC	16.87	cmolc/kg		
Organic Matter (Loss on Ignition)		%		
Estimated Soil Texture	Silty Clay Loam - Clay Loam			
Estimated Base Saturation (%)				
Total	Ca	Mg	K	Na
82.22	62.85	12.45	5.82	1.11

3. Recommendations (Notice: State and/or federal nutrient management regulations may supersede these agronomic recommendations.)

Crop		N	P2O5	K2O	SO4-S	Zn	B	Lime
Last Crop	Pasture (203)	----- lb/acre -----						
Crop 1	Warm-Season Grasses (MNT) (207)	60	0	0	0	0	0	0
Crop 2								
Crop 3								

4. Crop 1 Notes:

Apply the recommended rates of N, P, and K, in spring when night temperatures are > 60 degrees F for 1 week. For higher production, topdress an additional 60 lb N/Acre after every 4 to 6 weeks of grazing. For fall grazing apply 50 lb N/Acre in early August. Do not apply N after September 1.

5. Crop 2 Notes:

6. Crop 3 Notes:


Darrin Henderson
County Extension Agent -
Staff Chair

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Soil Testing And Research Laboratory
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HUNTSVILLE WATER UTILITIES		Client ID: 4797382081
PO BOX 430		
HUNTSVILLE	AR	72740
Date Processed:	2/10/2016	
Field ID:	3	
Acres:	14	
Lime Applied in the last 4 years:	No	
Leveled in past 4 years:	No	
Irrigation:	Unknown	
County:	Madison	
Lab Number:	12928	
Sample Number:	4172147	

1. Nutrient Availability Index

Nutrient	Concentration		Soil Test Level (Mehlich 3)
	ppm	lb/acre	
P	166	332	Above Optimum
K	198	396	Above Optimum
Ca	2116	4232	--
Mg	204	408	--
SO4-S	19	38	--
Zn	10.2	20.4	--
Fe	121	242	--
Mn	146	292	--
Cu	1.9	3.8	--
B	0.3	0.6	--
NO3-N	48	96	--

2. Soil Properties

Property	Value	Units		
Soil pH (1:2 soil-water)	6.2	--		
Soil EC (1:2 soil-water)	50	umhos/cm		
Soil Estimated CEC	16.32	cmolc/kg		
Organic Matter (Loss on Ignition)		%		
Estimated Soil Texture	Silty Clay Loam - Clay Loam			
Estimated Base Saturation (%)				
Total	Ca	Mg	K	Na
78.56	64.82	10.42	3.11	0.21

3. Recommendations (Notice: State and/or federal nutrient management regulations may supersede these agronomic recommendations.)


Crop	N	P2O5	K2O	SO4-S	Zn	B	Lime
Last Crop Pasture (203)	----- lb/acre -----						
Crop 1 Warm-Season Grasses (MNT) (207)	60	0	0	0	0	0	0
Crop 2							
Crop 3							

4. Crop 1 Notes:

Apply the recommended rates of N, P, and K, in spring when night temperatures are > 60 degrees F for 1 week. For higher production, topdress an additional 60 lb N/Acre after every 4 to 6 weeks of grazing. For fall grazing apply 50 lb N/Acre in early August. Do not apply N after September 1.

5. Crop 2 Notes:

6. Crop 3 Notes:


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County Extension Agent -
Staff Chair

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HUNTSVILLE WATER UTILITIES	Client ID: 4797382081
PO BOX 430	
HUNTSVILLE	AR 72740
Date Processed:	2/10/2016
Field ID:	4
Acres:	25
Lime Applied in the last 4 years:	No
Leveled in past 4 years:	No
Irrigation:	Unknown
County:	Madison
Lab Number:	12929
Sample Number:	4172148

1. Nutrient Availability Index

Nutrient	Concentration		Soil Test Level (Mehlich 3)
	ppm	lb/acre	
P	150	300	Above Optimum
K	176	352	Above Optimum
Ca	1014	2028	--
Mg	131	262	--
SO4-S	17	34	--
Zn	13.3	26.6	--
Fe	147	294	--
Mn	216	432	--
Cu	4.7	9.4	--
B	0.2	0.4	--
NO3-N	74	148	--

2. Soil Properties

Property	Value	Units		
Soil pH (1:2 soil-water)	5.6	--		
Soil EC (1:2 soil-water)	38	umhos/cm		
Soil Estimated CEC	10.65	cmolc/kg		
Organic Matter (Loss on Ignition)		%		
Estimated Soil Texture	Silt Loam - Silty Clay Loam			
Estimated Base Saturation (%)				
Total	Ca	Mg	K	Na
62.43	47.62	10.25	4.24	0.33

3. Recommendations (Notice: State and/or federal nutrient management regulations may supersede these agronomic recommendations.)

Crop		N	P2O5	K2O	SO4-S	Zn	B	Lime
Last Crop	Pasture (203)	----- lb/acre -----						
Crop 1	Warm-Season Grasses (MNT) (207)	60	0	0	0	0	0	4000
Crop 2								
Crop 3								

4. Crop 1 Notes:

Apply the recommended rates of N, P, and K, in spring when night temperatures are > 60 degrees F for 1 week. For higher production, topdress an additional 60 lb N/Acre after every 4 to 6 weeks of grazing. For fall grazing apply 50 lb N/Acre in early August. Do not apply N after September 1.

5. Crop 2 Notes:

6. Crop 3 Notes:



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HUNTSVILLE WATER UTILITIES PO BOX 430 HUNTSVILLE	Client ID: 4797382081 AR 72740
Date Processed: Field ID: Acres: Lime Applied in the last 4 years: Leveled in past 4 years: Irrigation:	2/10/2016 1H 28 No No Unknown
County: Lab Number: Sample Number:	Madison 12930 4172149

1. Nutrient Availability Index

Nutrient	Concentration		Soil Test Level (Mehlich 3)
	ppm	lb/acre	
P	739	1478	Above Optimum
K	825	1650	Above Optimum
Ca	4144	8288	--
Mg	612	1224	--
SO4-S	75	150	--
Zn	62.9	125.8	--
Fe	101	202	--
Mn	177	354	--
Cu	8.5	17	--
B	2.1	4.2	--
NO3-N	260	520	--

2. Soil Properties

Property	Value	Units		
Soil pH (1:2 soil-water)	6.8	--		
Soil EC (1:2 soil-water)	204	umhos/cm		
Soil Estimated CEC	31.07	cmolc/kg		
Organic Matter (Loss on Ignition)		%		
Estimated Soil Texture	Clay			
Estimated Base Saturation (%)				
Total	Ca	Mg	K	Na
91.95	66.70	16.42	6.81	2.03

3. Recommendations (Notice: State and/or federal nutrient management regulations may supersede these agronomic recommendations.)


Crop	N	P2O5	K2O	SO4-S	Zn	B	Lime
Last Crop	Pasture (203)						
Crop 1	-----lb/acre----- Warm-Season Grasses (MNT) (207)						
Crop 2	60	0	0	0	0	0	0
Crop 3							

4. Crop 1 Notes:

Apply the recommended rates of N, P, and K, in spring when night temperatures are > 60 degrees F for 1 week. For higher production, topdress an additional 60 lb N/Acre after every 4 to 6 weeks of grazing. For fall grazing apply 50 lb N/Acre in early August. Do not apply N after September 1.

5. Crop 2 Notes:

6. Crop 3 Notes:


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Staff Chair

Cooperative Extension Service
Soil Testing And Research Laboratory
Marianna, AR 72360
<http://soiltest.uark.edu>

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HUNTSVILLE WATER UTILITIES	Client ID: 4797382081
PO BOX 430	
HUNTSVILLE	AR 72740
Date Processed:	2/10/2016
Field ID:	2H
Acres:	23
Lime Applied in the last 4 years:	No
Leveled in past 4 years:	No
Irrigation:	Unknown
County:	Madison
Lab Number:	12931
Sample Number:	4172150

1. Nutrient Availability Index

Nutrient	Concentration		Soil Test Level (Mehlich 3)
	ppm	lb/acre	
P	265	530	Above Optimum
K	418	836	Above Optimum
Ca	2602	5204	--
Mg	319	638	--
SO4-S	24	48	--
Zn	19.1	38.2	--
Fe	99	198	--
Mn	173	346	--
Cu	2.5	5	--
B	0.6	1.2	--
NO3-N	123	246	--

2. Soil Properties

Property	Value	Units		
Soil pH (1:2 soil-water)	6.8	--		
Soil EC (1:2 soil-water)	143	umhos/cm		
Soil Estimated CEC	19.29	cmolc/kg		
Organic Matter (Loss on Ignition)		%		
Estimated Soil Texture	Silty Clay Loam - Clay Loam			
Estimated Base Saturation (%)				
Total	Ca	Mg	K	Na
87.04	67.44	13.78	5.56	0.27

3. Recommendations (Notice: State and/or federal nutrient management regulations may supersede these agronomic recommendations.)

Crop	N	P2O5	K2O	SO4-S	Zn	B	Lime
Last Crop Pasture (203)	----- lb/acre -----						
Crop 1 Warm-Season Grasses (MNT) (207)	60	0	0	0	0	0	0
Crop 2							
Crop 3							

4. Crop 1 Notes:

Apply the recommended rates of N, P, and K, in spring when night temperatures are > 60 degrees F for 1 week. For higher production, topdress an additional 60 lb N/Acre after every 4 to 6 weeks of grazing. For fall grazing apply 50 lb N/Acre in early August. Do not apply N after September 1.

5. Crop 2 Notes:

6. Crop 3 Notes:


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HUNTSVILLE WATER UTILITIES PO BOX 430 HUNTSVILLE	Client ID: 4797382081 AR 72740
Date Processed: Field ID: Acres: Lime Applied in the last 4 years: Leveled in past 4 years: Irrigation:	2/10/2016 2BH 15 No No Unknown
County: Lab Number: Sample Number:	Madison 12932 4172151

1. Nutrient Availability Index

Nutrient	Concentration		Soil Test Level (Mehlich 3)
	ppm	lb/acre	
P	285	570	Above Optimum
K	234	468	Above Optimum
Ca	3063	6126	--
Mg	221	442	--
SO4-S	30	60	--
Zn	30.8	61.6	--
Fe	165	330	--
Mn	114	228	--
Cu	8.4	16.8	--
B	0.4	0.8	--
NO3-N	87	174	--

2. Soil Properties

Property	Value	Units		
Soil pH (1:2 soil-water)	6.8	--		
Soil EC (1:2 soil-water)	74	umhos/cm		
Soil Estimated CEC	20.32	cmolc/kg		
Organic Matter (Loss on Ignition)		%		
Estimated Soil Texture	Clay			
Estimated Base Saturation (%)				
Total	Ca	Mg	K	Na
87.70	75.36	9.06	2.95	0.32

3. Recommendations (Notice: State and/or federal nutrient management regulations may supersede these agronomic recommendations.)


Crop	N	P2O5	K2O	SO4-S	Zn	B	Lime
Last Crop	Pasture (203)						
Crop 1	60	0	0	0	0	0	0
Crop 2							
Crop 3							

4. Crop 1 Notes:

Apply the recommended rates of N, P, and K, in spring when night temperatures are > 60 degrees F for 1 week. For higher production, topdress an additional 60 lb N/Acre after every 4 to 6 weeks of grazing. For fall grazing apply 50 lb N/Acre in early August. Do not apply N after September 1.

5. Crop 2 Notes:

6. Crop 3 Notes:


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HUNTSVILLE WATER UTILITIES	Client ID: 4797382081
PO BOX 430	
HUNTSVILLE	AR 72740
Date Processed:	2/10/2016
Field ID:	3H
Acres:	66
Lime Applied in the last 4 years:	No
Leveled in past 4 years:	No
Irrigation:	Unknown
County:	Madison
Lab Number:	12933
Sample Number:	4172152

1. Nutrient Availability Index

Nutrient	Concentration		Soil Test Level (Mehlich 3)
	ppm	lb/acre	
P	244	488	Above Optimum
K	198	396	Above Optimum
Ca	1785	3570	--
Mg	161	322	--
SO4-S	21	42	--
Zn	11	22	--
Fe	131	262	--
Mn	101	202	--
Cu	2.8	5.6	--
B	0.3	0.6	--
NO3-N	71	142	--

2. Soil Properties

Property	Value	Units		
Soil pH (1:2 soil-water)	6.2	--		
Soil EC (1:2 soil-water)	57	umhos/cm		
Soil Estimated CEC	14.32	cmolc/kg		
Organic Matter (Loss on Ignition)		%		
Estimated Soil Texture	Silt Loam - Silty Clay Loam			
Estimated Base Saturation (%)				
Total	Ca	Mg	K	Na
75.56	62.32	9.37	3.54	0.33

3. Recommendations (Notice: State and/or federal nutrient management regulations may supersede these agronomic recommendations.)


Crop	N	P2O5	K2O	SO4-S	Zn	B	Lime
Last Crop	Pasture (203)						
Crop 1	-----lb/acre-----						
Crop 1	60	0	0	0	0	0	0
Crop 2							
Crop 3							

4. Crop 1 Notes:

Apply the recommended rates of N, P, and K, in spring when night temperatures are > 60 degrees F for 1 week. For higher production, topdress an additional 60 lb N/Acre after every 4 to 6 weeks of grazing. For fall grazing apply 50 lb N/Acre in early August. Do not apply N after September 1.

5. Crop 2 Notes:

6. Crop 3 Notes:


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HUNTSVILLE WATER UTILITIES PO BOX 430 HUNTSVILLE	Client ID: 4797382081 AR 72740
Date Processed: Field ID: Acres: Lime Applied in the last 4 years: Leveled in past 4 years: Irrigation:	2/10/2016 4H 32 No No Unknown
County: Lab Number: Sample Number:	Madison 12934 4172154

1. Nutrient Availability Index

Nutrient	Concentration		Soil Test Level (Mehlich 3)
	ppm	lb/acre	
P	182	364	Above Optimum
K	283	566	Above Optimum
Ca	1580	3160	--
Mg	193	386	--
SO4-S	19	38	--
Zn	14.8	29.6	--
Fe	147	294	--
Mn	136	272	--
Cu	2.7	5.4	--
B	0.3	0.6	--
NO3-N	67	134	--

2. Soil Properties

Property	Value	Units		
Soil pH (1:2 soil-water)	6	--		
Soil EC (1:2 soil-water)	39	umhos/cm		
Soil Estimated CEC	13.78	cmolc/kg		
Organic Matter (Loss on Ignition)		%		
Estimated Soil Texture	Silty Clay Loam - Clay Loam			
Estimated Base Saturation (%)				
Total	Ca	Mg	K	Na
74.60	57.32	11.67	5.27	0.35

3. Recommendations (Notice: State and/or federal nutrient management regulations may supersede these agronomic recommendations.)

Crop	N	P2O5	K2O	SO4-S	Zn	B	Lime
Last Crop	Pasture (203)						
Crop 1	-----lb/acre-----						
Crop 1	60	0	0	0	0	0	0
Crop 2							
Crop 3							

4. Crop 1 Notes:

Apply the recommended rates of N, P, and K, in spring when night temperatures are > 60 degrees F for 1 week. For higher production, topdress an additional 60 lb N/Acre after every 4 to 6 weeks of grazing. For fall grazing apply 50 lb N/Acre in early August. Do not apply N after September 1.

5. Crop 2 Notes:

6. Crop 3 Notes:



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Page 1 of 1 Agent _____ Date _____ Grower BOHANNON Grower E-mail _____ optional

Client ID Phone # 4797382081 County Office 49 If Address has Changed Enter 1 University of Arkansas Cooperative Extension Service
 Name HUNTSVILLE WATER UTILITIES Soil Testing and Research Laboratory
 Address PO BOX 430 P. O. Box 767 or 008 Lee 214
 City, State, Zip HUNTSVILLE AR 72740 Marianna, AR 72360-9987
<http://www.uark.edu/depts/soiltest>

Research only Cost Center # _____

Lime applied in last 4 years, 0 = no 1 = yes Enter 1 if field recently leveled (past 4 years)

By Request Only
 1 = nitrate
 2 = EC
 3 = both
 Fee-based Additional Analysis
 4 = organic
 5 = chloride
 6 = both

Lab use only Lab Number	Sample Number Sample # must be printed on soil box	Grower's Field ID PLEASE PRINT 8 character limit	Acres	Lime	Soil Assn #	Last Crop	Crop 1	Rice Subcode	Crop 2	Rice Subcode	Crop 3	Rice Subcode	By Request Only	Fee-based Additional Analysis
	4172145	1	75			203			207				3	
	4172146	2	52			203			207				3	
	4172147	3	14			203			207				3	
	4172148	4	25			203			207				3	
	4172149	1H	27.7			203			207				3	
	4172150	2H	23			203			207				3	
	4172151	2BH	75			203			207				3	
	4172152	3H	66			203			207				3	
	4172153	4H												
	4172154	44	32			203			207				3	
	4172155													

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HUNTSVILLE WATER UTILITIES PO BOX 430 HUNTSVILLE	Client ID: 4797382081 AR 72740
Date Processed: Field ID: Acres: Lime Applied in the last 4 years: Leveled in past 4 years: Irrigation:	2/10/2016 1 10 No No Unknown
County: Lab Number: Sample Number:	Madison 12935 4172167

1. Nutrient Availability Index

Nutrient	Concentration		Soil Test Level (Mehlich 3)
	ppm	lb/acre	
P	436	872	Above Optimum
K	64	128	Low
Ca	3570	7140	--
Mg	180	360	--
SO4-S	17	34	--
Zn	25.8	51.6	--
Fe	168	336	--
Mn	95	190	--
Cu	11.3	22.6	--
B	0.5	1	--
NO3-N	51	102	--

2. Soil Properties

Property	Value	Units		
Soil pH (1:2 soil-water)	7.2	--		
Soil EC (1:2 soil-water)	47	umhos/cm		
Soil Estimated CEC	21.58	cmolc/kg		
Organic Matter (Loss on Ignition)		%		
Estimated Soil Texture	Clay			
Estimated Base Saturation (%)				
Total	Ca	Mg	K	Na
90.73	82.72	6.95	0.76	0.30

3. Recommendations (Notice: State and/or federal nutrient management regulations may supersede these agronomic recommendations.)

Crop	N	P2O5	K2O	SO4-S	Zn	B	Lime
Last Crop Pasture (203)	-----lb/acre-----						
Crop 1 Warm-Season Grasses (MNT) (207)	60	0	110	0	0	0	0
Crop 2							
Crop 3							

4. Crop 1 Notes:

Apply the recommended rates of N, P, and K, in spring when night temperatures are > 60 degrees F for 1 week. For higher production, topdress an additional 60 lb N/Acre after every 4 to 6 weeks of grazing. For fall grazing apply 50 lb N/Acre in early August. Do not apply N after September 1.

5. Crop 2 Notes:

6. Crop 3 Notes:


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HUNTSVILLE WATER UTILITIES	Client ID: 4797382081
PO BOX 430	
HUNTSVILLE	AR 72740
Date Processed:	2/10/2016
Field ID:	2
Acres:	9
Lime Applied in the last 4 years:	No
Leveled in past 4 years:	No
Irrigation:	Unknown
County:	Madison
Lab Number:	12936
Sample Number:	4172168

1. Nutrient Availability Index

Nutrient	Concentration		Soil Test Level (Mehlich 3)
	ppm	lb/acre	
P	334	668	Above Optimum
K	69	138	Low
Ca	2105	4210	--
Mg	165	330	--
SO4-S	19	38	--
Zn	27.1	54.2	--
Fe	181	362	--
Mn	89	178	--
Cu	11.3	22.6	--
B	0.5	1	--
NO3-N	51	102	--

2. Soil Properties

Property	Value	Units		
Soil pH (1:2 soil-water)	6.6	--		
Soil EC (1:2 soil-water)	49	umhos/cm		
Soil Estimated CEC	15.15	cmolc/kg		
Organic Matter (Loss on Ignition)		%		
Estimated Soil Texture	Silty Clay Loam - Clay Loam			
Estimated Base Saturation (%)				
Total	Ca	Mg	K	Na
80.19	69.49	9.08	1.17	0.46

3. Recommendations (Notice: State and/or federal nutrient management regulations may supersede these agronomic recommendations.)

Crop	N	P2O5	K2O	SO4-S	Zn	B	Lime
Last Crop	Pasture (203)						
Crop 1	----- lb/acre -----						
Crop 2	60	0	110	0	0	0	0
Crop 3							

4. Crop 1 Notes:

Apply the recommended rates of N, P, and K, in spring when night temperatures are > 60 degrees F for 1 week. For higher production, topdress an additional 60 lb N/Acre after every 4 to 6 weeks of grazing. For fall grazing apply 50 lb N/Acre in early August. Do not apply N after September 1.

5. Crop 2 Notes:

6. Crop 3 Notes:



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Page 1 of 1 Agent _____ Date _____ Grower HATFIELD Grower E-mail _____ optional

Client ID Phone #	4	7	9	7	3	8	2	0	8	1	County Office	4	9	If Address has Changed Enter 1											
Name	H	U	N	T	S	V	I	L	L	E	W	A	T	E	R	U	T	I	L	I	T	I	E	S	
Address	P	O	B	O	X	4	3	0																	
City, State, Zip	H	U	N	T	S	V	I	L	L	E									A	R	7	2	7	4	0

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Soil Testing and Research Laboratory
P. O. Box 767 or 008 Lee 214
Marianna, AR 72360-9987
<http://www.uark.edu/depts/soiltest>

Research only
Cost Center # _____

1 = well 2 = reservoir 3 = stream

Lime applied in last 4 years, 0 = no 1 = yes

Enter 1 if field recently leveled (past 4 years)

By Request Only
1 = nitrate
2 = EC
3 = both
4 = organic
5 = chloride
6 = both

Lab use only Lab Number	Sample Number Sample # must be printed on soil box	Grower's Field ID PLEASE PRINT 8 character limit	Acres	Lime	Soil Assn #	Last Crop	Crop 1	Rice Subcode	Crop 2	Rice Subcode	Crop 3	Rice Subcode				
	4172167	1	10.4				203		207							3
	4172168	2	9.2				203		207							3
	4172169															
	4172170															
	4172171															
	4172172															
	4172173															
	4172174															
	4172175															
	4172176															
	4172177															

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HUNTSVILLE WATER UTILITIES	Client ID: 4797382081
PO BOX 430	
HUNTSVILLE	AR 72740
Date Processed:	2/10/2016
Field ID:	7
Acres:	7
Lime Applied in the last 4 years:	No
Leveled in past 4 years:	No
Irrigation:	Unknown
County:	Madison
Lab Number:	12943
Sample Number:	4172178

1. Nutrient Availability Index

Nutrient	Concentration		Soil Test Level (Mehlich 3)
	ppm	lb/acre	
P	304	608	Above Optimum
K	96	192	Medium
Ca	9156	18312	--
Mg	322	644	--
SO4-S	38	76	--
Zn	20.5	41	--
Fe	88	176	--
Mn	38	76	--
Cu	8.4	16.8	--
B	0.7	1.4	--
NO3-N	37	74	--

2. Soil Properties

Property	Value	Units		
Soil pH (1:2 soil-water)	7.7	--		
Soil EC (1:2 soil-water)	69	umhos/cm		
Soil Estimated CEC	50.77	cmolc/kg		
Organic Matter (Loss on Ignition)		%		
Estimated Soil Texture	Clay			
Estimated Base Saturation (%)				
Total	Ca	Mg	K	Na
96.06	90.18	5.29	0.48	0.11

3. Recommendations (Notice: State and/or federal nutrient management regulations may supersede these agronomic recommendations.)

Last Crop	Crop	N	P2O5	K2O	SO4-S	Zn	B	Lime
Crop 1	Pasture - Cool-Season Grasses (MNT) (203)	60	0	50	0	0	0	0
Crop 2	Warm-Season Grasses (MNT) (207)	60	0	60	0	0	0	0
Crop 3								

4. Crop 1 Notes:

Apply the recommended rate of N, P, and K in late winter. For higher production apply an additional 50 lb N/Acre after every 4 to 6 weeks of grazing. For fall/winter grazing, apply 50 lbs N/Acre in late summer.

5. Crop 2 Notes:

Apply the recommended rates of N, P, and K, in spring when night temperatures are > 60 degrees F for 1 week. For higher production, topdress an additional 60 lb N/Acre after every 4 to 6 weeks of grazing. For fall grazing apply 50 lb N/Acre in early August. Do not apply N after September 1.

6. Crop 3 Notes:


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HUNTSVILLE WATER UTILITIES	Client ID: 4797382081
PO BOX 430	
HUNTSVILLE	AR 72740
Date Processed:	2/10/2016
Field ID:	8
Acres:	21
Lime Applied in the last 4 years:	No
Leveled in past 4 years:	No
Irrigation:	Unknown
County:	Madison
Lab Number:	12944
Sample Number:	4172179

1. Nutrient Availability Index

Nutrient	Concentration		Soil Test Level (Mehlich 3)
	ppm	lb/acre	
P	436	872	Above Optimum
K	153	306	Optimum
Ca	3015	6030	--
Mg	143	286	--
SO4-S	18	36	--
Zn	25.3	50.6	--
Fe	172	344	--
Mn	128	256	--
Cu	8.9	17.8	--
B	0.7	1.4	--
NO3-N	29	58	--

2. Soil Properties

Property	Value	Units		
Soil pH (1:2 soil-water)	7.1	--		
Soil EC (1:2 soil-water)	53	umhos/cm		
Soil Estimated CEC	18.70	cmol/kg		
Organic Matter (Loss on Ignition)		%		
Estimated Soil Texture	Silty Clay Loam - Clay Loam			
Estimated Base Saturation (%)				
Total	Ca	Mg	K	Na
89.31	80.60	6.37	2.10	0.23

3. Recommendations (Notice: State and/or federal nutrient management regulations may supersede these agronomic recommendations.)

Last Crop	Crop	N	P2O5	K2O	SO4-S	Zn	B	Lime
Crop 1	Pasture - Cool-Season Grasses (MNT) (203)	60	0	0	0	0	0	0
Crop 2	Warm-Season Grasses (MNT) (207)	60	0	0	0	0	0	0
Crop 3								


4. Crop 1 Notes:

Apply the recommended rate of N, P, and K in late winter. For higher production apply an additional 50 lb N/Acre after every 4 to 6 weeks of grazing. For fall/winter grazing, apply 50 lbs N/Acre in late summer.

5. Crop 2 Notes:

Apply the recommended rates of N, P, and K, in spring when night temperatures are > 60 degrees F for 1 week. For higher production, topdress an additional 60 lb N/Acre after every 4 to 6 weeks of grazing. For fall grazing apply 50 lb N/Acre in early August. Do not apply N after September 1.

6. Crop 3 Notes:


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HUNTSVILLE WATER UTILITIES	Client ID: 4797382081
PO BOX 430	
HUNTSVILLE	AR 72740
Date Processed:	2/10/2016
Field ID:	15
Acres:	65
Lime Applied in the last 4 years:	No
Leveled in past 4 years:	No
Irrigation:	Unknown
County:	Madison
Lab Number:	12945
Sample Number:	4172180

1. Nutrient Availability Index

Nutrient	Concentration		Soil Test Level (Mehlich 3)
	ppm	lb/acre	
P	323	646	Above Optimum
K	80	160	Low
Ca	2162	4324	--
Mg	137	274	--
SO4-S	16	32	--
Zn	17.7	35.4	--
Fe	142	284	--
Mn	272	544	--
Cu	8.9	17.8	--
B	0.6	1.2	--
NO3-N	27	54	--

2. Soil Properties

Property	Value	Units		
Soil pH (1:2 soil-water)	6.7	--		
Soil EC (1:2 soil-water)	41	umhos/cm		
Soil Estimated CEC	15.21	cmolc/kg		
Organic Matter (Loss on Ignition)		%		
Estimated Soil Texture	Silty Clay Loam - Clay Loam			
Estimated Base Saturation (%)				
Total	Ca	Mg	K	Na
80.27	71.08	7.51	1.35	0.34

3. Recommendations (Notice: State and/or federal nutrient management regulations may supersede these agronomic recommendations.)

Last Crop	Crop	N	P2O5	K2O	SO4-S	Zn	B	Lime
Crop 1	Pasture - Cool-Season Grasses (MNT) (203)	60	0	80	0	0	0	0
Crop 2	Warm-Season Grasses (MNT) (207)	60	0	110	0	0	0	0
Crop 3								

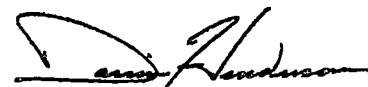
4. Crop 1 Notes:

Apply the recommended rate of N, P, and K in late winter. For higher production apply an additional 50 lb N/Acre after every 4 to 6 weeks of grazing. For fall/winter grazing, apply 50 lbs N/Acre in late summer.

5. Crop 2 Notes:

Apply the recommended rates of N, P, and K, in spring when night temperatures are > 60 degrees F for 1 week. For higher production, topdress an additional 60 lb N/Acre after every 4 to 6 weeks of grazing. For fall grazing apply 50 lb N/Acre in early August. Do not apply N after September 1.

6. Crop 3 Notes:



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Marianna, AR 72360
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HUNTSVILLE WATER UTILITIES	Client ID: 4797382081
PO BOX 430	
HUNTSVILLE	AR 72740
Date Processed:	2/10/2016
Field ID:	16
Acres:	48
Lime Applied in the last 4 years:	No
Leveled in past 4 years:	No
Irrigation:	Unknown
County:	Madison
Lab Number:	12946
Sample Number:	4172181

1. Nutrient Availability Index

Nutrient	Concentration		Soil Test Level (Mehlich 3)
	ppm	lb/acre	
P	83	166	Above Optimum
K	57	114	Very Low
Ca	1516	3032	--
Mg	101	202	--
SO4-S	13	26	--
Zn	6.5	13	--
Fe	151	302	--
Mn	124	248	--
Cu	4.6	9.2	--
B	0.4	0.8	--
NO3-N	8	16	--

2. Soil Properties

Property	Value	Units		
Soil pH (1:2 soil-water)	6.3	--		
Soil EC (1:2 soil-water)	15	umhos/cm		
Soil Estimated CEC	11.61	cmolc/kg		
Organic Matter (Loss on Ignition)		%		
Estimated Soil Texture	Silt Loam - Silty Clay Loam			
Estimated Base Saturation (%)				
Total	Ca	Mg	K	Na
74.16	65.28	7.25	1.26	0.37

3. Recommendations (Notice: State and/or federal nutrient management regulations may supersede these agronomic recommendations.)

Last Crop	Crop	N	P2O5	K2O	SO4-S	Zn	B	Lime
Crop 1	Pasture - Cool-Season Grasses (MNT) (203)	60	0	120	0	0	0	0
Crop 2	Warm-Season Grasses (MNT) (207)	60	0	160	0	0	0	0
Crop 3								

4. Crop 1 Notes:

Apply the recommended rate of N, P, and K in late winter. For higher production apply an additional 50 lb N/Acre after every 4 to 6 weeks of grazing. For fall/winter grazing, apply 50 lbs N/Acre in late summer.

5. Crop 2 Notes:

Apply the recommended rates of N, P, and K, in spring when night temperatures are > 60 degrees F for 1 week. For higher production, topdress an additional 60 lb N/Acre after every 4 to 6 weeks of grazing. For fall grazing apply 50 lb N/Acre in early August. Do not apply N after September 1.

6. Crop 3 Notes:



Darrin Henderson
County Extension Agent -
Staff Chair

Cooperative Extension Service
Soil Testing And Research Laboratory
Marianna, AR 72360
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HUNTSVILLE WATER UTILITIES PO BOX 430 HUNTSVILLE	Client ID: 4797382081 AR 72740
Date Processed: Field ID: Acres: Lime Applied in the last 4 years: Leveled in past 4 years: Irrigation:	2/10/2016 17 22 No No Unknown
County: Lab Number: Sample Number:	Madison 12947 4172182

1. Nutrient Availability Index

Nutrient	Concentration ^N		Soil Test Level (Mehlich 3)
	ppm	lb/acre	
P	236	472	Above Optimum
K	101	202	Medium
Ca	1826	3652	--
Mg	136	272	--
SO4-S	16	32	--
Zn	13.3	26.6	--
Fe	178	356	--
Mn	191	382	--
Cu	6.7	13.4	--
B	0.6	1.2	--
NO3-N	29	58	--

2. Soil Properties

Property	Value	Units		
Soil pH (1:2 soil-water)	6.3	--		
Soil EC (1:2 soil-water)	27	umhos/cm		
Soil Estimated CEC	14.10	cmolc/kg		
Organic Matter (Loss on Ignition)		%		
Estimated Soil Texture	Silt Loam - Silty Clay Loam			
Estimated Base Saturation (%)				
Total	Ca	Mg	K	Na
75.19	64.73	8.04	1.84	0.59

3. Recommendations (Notice: State and/or federal nutrient management regulations may supersede these agronomic recommendations.)

Last Crop	Crop	N	P2O5	K2O	SO4-S	Zn	B	Lime
Crop 1	Pasture - Cool-Season Grasses (MNT) (203)	60	0	50	0	0	0	0
Crop 2	Warm-Season Grasses (MNT) (207)	60	0	60	0	0	0	0
Crop 3								

4. Crop 1 Notes:

Apply the recommended rate of N, P, and K in late winter. For higher production apply an additional 50 lb N/Acre after every 4 to 6 weeks of grazing. For fall/winter grazing, apply 50 lbs N/Acre in late summer.

5. Crop 2 Notes:

Apply the recommended rates of N, P, and K, in spring when night temperatures are > 60 degrees F for 1 week. For higher production, topdress an additional 60 lb N/Acre after every 4 to 6 weeks of grazing. For fall grazing apply 50 lb N/Acre in early August. Do not apply N after September 1.

6. Crop 3 Notes:



Darrin Henderson
County Extension Agent -
Staff Chair

Page 1 of 1 Agent _____ Date _____ Grower Misty River Grower E-mail _____ optional

Client ID Phone #	4	7	9	7	3	8	2	0	8	1	County Office	4	9	If Address has Changed Enter 1														
Name	H	U	N	T	S	V	I	L	L	E	W	A	T	E	R	U	T	I	L	I	T	I	E	S				
Address	P	O	B	O	X	4	3	0																				
City, State, Zip	H	U	N	T	S	V	I	L	L	E													AR	7	2	7	4	0

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 P. O. Box 767 or 008 Lee 214
 Marianna, AR 72360-9987
<http://www.uark.edu/depts/soiltest>

Research only Cost Center # _____

1 = well 2 = reservoir 3 = stream

Lime applied in last 4 years, 0 = no 1 = yes

Enter 1 if field recently leveled (past 4 years)

By Request Only
 1 = nitrate
 2 = EC
 3 = both
 Fee-based Additional Analysis
 4 = organic
 5 = chloride
 6 = both

Lab use only Lab Number	Sample Number Sample # must be printed on soil box	Grower's Field ID PLEASE PRINT 8 character limit	Acres	Lime	Soil Assn #	Last Crop	Crop 1	Rice Subcode	Crop 2	Rice Subcode	Crop 3	Rice Subcode				
	4172178	7	6.6				203		207						3	
	4172179	8	21.4				203		207						3	
	4172180	15	64.9				203		207						3	
	4172181	16	48.3				203		207						3	
	4172182	17	22				203		207						3	
	4172183															
	4172184															
	4172185															
	4172186															
	4172187															
	4172188															

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HUNTSVILLE WATER UTILITIES	Client ID: 4797382081
PO BOX 430	
HUNTSVILLE	AR 72740
Date Processed:	2/10/2016
Field ID:	1
Acres:	16
Lime Applied in the last 4 years:	No
Leveled in past 4 years:	No
Irrigation:	Unknown
County:	Madison
Lab Number:	12948
Sample Number:	3579102

1. Nutrient Availability Index

Nutrient	Concentration		Soil Test Level (Mehlich 3)
	ppm	lb/acre	
P	428	856	Above Optimum
K	88	176	Low
Ca	3744	7488	--
Mg	230	460	--
SO4-S	21	42	--
Zn	24.8	49.6	--
Fe	229	458	--
Mn	141	282	--
Cu	12.2	24.4	--
B	1.1	2.2	--
NO3-N	57	114	--

2. Soil Properties

Property	Value	Units		
Soil pH (1:2 soil-water)	6.8	--		
Soil EC (1:2 soil-water)	56	umhos/cm		
Soil Estimated CEC	23.51	cmolc/kg		
Organic Matter (Loss on Ignition)		%		
Estimated Soil Texture	Clay			
Estimated Base Saturation (%)				
Total	Ca	Mg	K	Na
89.36	79.64	8.15	0.96	0.61

3. Recommendations (Notice: State and/or federal nutrient management regulations may supersede these agronomic recommendations.)

Crop	N	P2O5	K2O	SO4-S	Zn	B	Lime
Last Crop	-----lb/acre-----						
Crop 1	Pasture - Cool-Season Grasses (MNT) (203)	60	0	80	0	0	0
Crop 2	Warm-Season Grasses (MNT) (207)	60	0	110	0	0	0
Crop 3							

4. Crop 1 Notes:

Apply the recommended rate of N, P, and K in late winter. For higher production apply an additional 50 lb N/Acre after every 4 to 6 weeks of grazing. For fall/winter grazing, apply 50 lbs N/Acre in late summer.

5. Crop 2 Notes:

Apply the recommended rates of N, P, and K, in spring when night temperatures are > 60 degrees F for 1 week. For higher production, topdress an additional 60 lb N/Acre after every 4 to 6 weeks of grazing. For fall grazing apply 50 lb N/Acre in early August. Do not apply N after September 1.

6. Crop 3 Notes:


Darrin Henderson
County Extension Agent -
Staff Chair

Page 1 of 1 Agent _____ Date _____ Grower McLoud Grower E-mail _____ optional

Client ID Phone #	4	7	9	7	3	8	2	0	8	1	County Office	4	9	If Address has Changed Enter 1																
Name	H	U	N	T	S	V	I	L	L	E	W	A	T	E	R	U	T	I	L	I	T	I	E	S						
Address	P	O	B	O	X	4	3	0																						
City, State, Zip	H	U	N	T	S	V	I	L	L	E														A	R	7	2	7	4	0

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Research only
 Cost Center #

1 = well 2 = reservoir 3 = stream

By Request Only
 1 = nitrate
 2 = EC
 3 = both
 4 = organic
 5 = chloride
 6 = both

Lab use only Lab Number	Sample Number Sample # must be printed on soil box	Grower's Field ID PLEASE PRINT 8 character limit	Lime applied in last 4 years, 0 = no 1 = yes		Soil Assn #	Last Crop	Crop 1	Rice Subcode	Crop 2	Rice Subcode	Crop 3	Rice Subcode	Enter 1 if field recently leveled (past 4 years)		By Request Only	Additional Analysis
			Acres	Lime												
	3579102	1	159				203		207						3	
	3579103															
	3579104															
	3579105															
	3579106															
	3579107															
	3579108															
	3579109															
	3579110															
	3579111															
	3579112															

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HUNTSVILLE WATER UTILITIES PO BOX 430 HUNTSVILLE	Client ID: 4797382081 AR 72740
Date Processed:	2/10/2016
Field ID:	13
Acres:	12
Lime Applied in the last 4 years:	No
Leveled in past 4 years:	No
Irrigation:	Unknown
County:	Madison
Lab Number:	12955
Sample Number:	4172200

1. Nutrient Availability Index

Nutrient	Concentration		Soil Test Level (Mehlich 3)
	ppm	lb/acre	
P	451	902	Above Optimum
K	65	130	Low
Ca	2419	4838	--
Mg	194	388	--
SO4-S	26	52	--
Zn	22.3	44.6	--
Fe	234	468	--
Mn	83	166	--
Cu	9.2	18.4	--
B	0.8	1.6	--
NO3-N	63	126	--

2. Soil Properties

Property	Value	Units		
Soil pH (1:2 soil-water)	6.3	--		
Soil EC (1:2 soil-water)	75	umhos/cm		
Soil Estimated CEC	17.44	cmolc/kg		
Organic Matter (Loss on Ignition)		%		
Estimated Soil Texture	Silty Clay Loam - Clay Loam			
Estimated Base Saturation (%)				
Total	Ca	Mg	K	Na
79.93	69.36	9.27	0.96	0.35

3. Recommendations (Notice: State and/or federal nutrient management regulations may supersede these agronomic recommendations.)

Crop	N	P2O5	K2O	SO4-S	Zn	B	Lime
Last Crop	----- lb/acre -----						
Crop 1	Pasture - Cool-Season Grasses (MNT) (203)	60	0	80	0	0	0
Crop 2	Warm-Season Grasses (MNT) (207)	60	0	110	0	0	0
Crop 3							


4. Crop 1 Notes:

Apply the recommended rate of N, P, and K in late winter. For higher production apply an additional 50 lb N/Acre after every 4 to 6 weeks of grazing. For fall/winter grazing, apply 50 lbs N/Acre in late summer.

5. Crop 2 Notes:

Apply the recommended rates of N, P, and K, in spring when night temperatures are > 60 degrees F for 1 week. For higher production, topdress an additional 60 lb N/Acre after every 4 to 6 weeks of grazing. For fall grazing apply 50 lb N/Acre in early August. Do not apply N after September 1.

6. Crop 3 Notes:


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County Extension Agent -
Staff Chair

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HUNTSVILLE WATER UTILITIES	Client ID: 4797382081
PO BOX 430	
HUNTSVILLE	AR 72740
Date Processed:	2/10/2016
Field ID:	21
Acres:	5
Lime Applied in the last 4 years:	No
Leveled in past 4 years:	No
Irrigation:	Unknown
County:	Madison
Lab Number:	12956
Sample Number:	4172201

1. Nutrient Availability Index

Nutrient	Concentration		Soil Test Level (Mehlich 3)
	ppm	lb/acre	
P	300	600	Above Optimum
K	103	206	Medium
Ca	2583	5166	--
Mg	222	444	--
SO4-S	22	44	--
Zn	22.6	45.2	--
Fe	169	338	--
Mn	87	174	--
Cu	6.9	13.8	--
B	0.7	1.4	--
NO3-N	60	120	--

2. Soil Properties

Property	Value	Units		
Soil pH (1:2 soil-water)	6.6	--		
Soil EC (1:2 soil-water)	72	umhos/cm		
Soil Estimated CEC	18.07	cmolc/kg		
Organic Matter (Loss on Ignition)		%		
Estimated Soil Texture	Silty Clay Loam - Clay Loam			
Estimated Base Saturation (%)				
Total	Ca	Mg	K	Na
83.40	71.46	10.24	1.46	0.24

3. Recommendations (Notice: State and/or federal nutrient management regulations may supersede these agronomic recommendations.)

Crop	N	P2O5	K2O	SO4-S	Zn	B	Lime
Last Crop	----- lb/acre -----						
Crop 1	Pasture - Cool-Season Grasses (MNT) (203)	60	0	50	0	0	0
Crop 2	Warm-Season Grasses (MNT) (207)	60	0	60	0	0	0
Crop 3							

4. Crop 1 Notes:

Apply the recommended rate of N, P, and K in late winter. For higher production apply an additional 50 lb N/Acre after every 4 to 6 weeks of grazing. For fall/winter grazing, apply 50 lbs N/Acre in late summer.

5. Crop 2 Notes:

Apply the recommended rates of N, P, and K, in spring when night temperatures are > 60 degrees F for 1 week. For higher production, topdress an additional 60 lb N/Acre after every 4 to 6 weeks of grazing. For fall grazing apply 50 lb N/Acre in early August. Do not apply N after September 1.

6. Crop 3 Notes:


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Staff Chair

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HUNTSVILLE WATER UTILITIES	Client ID: 4797382081
PO BOX 430	
HUNTSVILLE	AR 72740
Date Processed:	2/10/2016
Field ID:	22
Acres:	8
Lime Applied in the last 4 years:	No
Leveled in past 4 years:	No
Irrigation:	Unknown
County:	Madison
Lab Number:	12957
Sample Number:	4172202

1. Nutrient Availability Index

Nutrient	Concentration		Soil Test Level (Mehlich 3)
	ppm	lb/acre	
P	421	842	Above Optimum
K	57	114	Very Low
Ca	3474	6948	--
Mg	162	324	--
SO4-S	21	42	--
Zn	25.8	51.6	--
Fe	248	496	--
Mn	68	136	--
Cu	10	20	--
B	0.8	1.6	--
NO3-N	51	102	--

2. Soil Properties

Property	Value	Units		
Soil pH (1:2 soil-water)	6.9	--		
Soil EC (1:2 soil-water)	90	umhos/cm		
Soil Estimated CEC	21.42	cmolc/kg		
Organic Matter (Loss on Ignition)		%		
Estimated Soil Texture	Clay			
Estimated Base Saturation (%)				
Total	Ca	Mg	K	Na
88.33	81.10	6.30	0.68	0.24

3. Recommendations (Notice: State and/or federal nutrient management regulations may supersede these agronomic recommendations.)

Last Crop	Crop	N	P2O5	K2O	SO4-S	Zn	B	Lime
Crop 1	Pasture - Cool-Season Grasses (MNT) (203)	60	0	120	0	0	0	0
Crop 2	Warm-Season Grasses (MNT) (207)	60	0	160	0	0	0	0
Crop 3								

4. Crop 1 Notes:

Apply the recommended rate of N, P, and K in late winter. For higher production apply an additional 50 lb N/Acre after every 4 to 6 weeks of grazing. For fall/winter grazing, apply 50 lbs N/Acre in late summer.

5. Crop 2 Notes:

Apply the recommended rates of N, P, and K, in spring when night temperatures are > 60 degrees F for 1 week. For higher production, topdress an additional 60 lb N/Acre after every 4 to 6 weeks of grazing. For fall grazing apply 50 lb N/Acre in early August. Do not apply N after September 1.

6. Crop 3 Notes:



Darrin Henderson
County Extension Agent -
Staff Chair

Page 1 of 1 Agent _____ Date _____ Grower WALDEN Grower E-mail _____ optional

Client ID Phone #	4	7	9	7	3	8	2	0	8	1	County Office	4	9	If Address has Changed - Enter 1															
Name	H	U	N	T	S	V	I	L	L	E	W	A	T	E	R	U	T	I	L	I	T	E	S						
Address	P	O		B	O	X		4	3	0																			
City, State, Zip	H	U	N	T	S	V	I	L	L	E													A	R	7	2	7	4	0

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Research only
Cost Center # _____

1 = well 2 = reservoir 3 = stream

Lime applied in last 4 years, 0 = no 1 = yes

Enter 1 if field recently leveled (past 4 years)

By Request Only
1 = nitrate
2 = EC
3 = both
4 = organic
5 = chloride
6 = both

Lab use only Lab Number	Sample Number Sample # must be printed on soil box	Grower's Field ID PLEASE PRINT 8 character limit	Acres	Lime	Soil Assn #	Last Crop	Crop 1	Rice Subcode	Crop 2	Rice Subcode	Crop 3	Rice Subcode				
	4172200	13	12.4				203		207							3
	4172201	21	5.3				203		207							3
	4172202	22	8.0				203		207							3
	4172203															
	4172204															
	4172205															
	4172206															
	4172207															
	4172208															
	4172209															
	4172210															

FARM BOHANNAN

SLUDGE TYPE	LIME STABILIZED		
FIELD	DATE	ACRES AVAILABLE	POUNDS HAULER
1	4/18/2015	75	23599.8 TAR
1	4/24/2015	75	13485.6 MBJ
1	4/25/2015	75	20228.4 MBJ
1	9/30/2015	75	10114.2 CBP
1	10/1/2015	75	13485.6 CBP
1	10/7/2015	75	20228.4 EJB
1	10/14/2015	75	10114.2 CBP
1	10/30/2015	75	3371.4 CBP
1	12/8/2015	75	6742.8 CBP
1	12/9/2015	75	10114.2 CBP
1	12/10/2015	75	10114.2 CBP

141598.8

METHOD OF DISPOSAL TO ALL SITES - LAND APPLICATION BY DRY SPREADER
CROP ON ALL SITES - FESCUE BERMUDA
SLUDGE APPLIED IN DRY TONS / ACRE / YEAR

FIELD #1 0.943992

NITROGEN APPLIED IN POUNDS / ACRE / YEAR (PAN)

FIELD #1 26.183827

PHOSPHORUS APPLIED IN POUNDS / ACRE / YEAR

FIELD #1 72.203909

TOTAL METALS APPLIED IN POUNDS / ACRE

METAL	FIELD #1
CADMIUM	0.00472
COPPER	0.045312
LEAD	0.00472
NICKEL	0.012272
ZINC	0.171807
SELENIUM	0.00472
MERCURY	0.000854
ARSENIC	0.00472

TOTAL METALS APPLIED YEAR TO DATE IN POUNDS / ACRE

METAL	FIELD #1
CADMIUM	0.00472
COPPER	0.045312
LEAD	0.00472
NICKEL	0.012272
ZINC	0.171807
SELENIUM	0.00472
MERCURY	0.000854
ARSENIC	0.00472

FARM BOHANNAN

SLUDGE TYPE	LIME STABILIZED		
FIELD	DATE	ACRES AVAILABLE	POUNDS HAULER
2	5/16/2015	52	20228.4 TAR
2	5/19/2015	52	6742.8 EJB
2	7/15/2015	52	10114.2 EJB

37085.4

METHOD OF DISPOSAL TO ALL SITES - LAND APPLICATION BY DRY SPREADER
CROP ON ALL SITES - FESCUE BERMUDA
SLUDGE APPLIED IN DRY TONS / ACRE / YEAR

FIELD #2 0.35659

NITROGEN APPLIED IN POUNDS / ACRE / YEAR (PAN)

FIELD #2 9.890869

PHOSPHORUS APPLIED IN POUNDS / ACRE / YEAR

FIELD #2 27.27483

TOTAL METALS APPLIED IN POUNDS / ACRE

METAL	FIELD #2
CADMIUM	0.001783
COPPER	0.017116
LEAD	0.001783
NICKEL	0.004636
ZINC	0.064899
SELENIUM	0.001783
MERCURY	0.000322
ARSENIC	0.001783

TOTAL METALS APPLIED YEAR TO DATE IN POUNDS / ACRE

METAL	FIELD #2
CADMIUM	0.001783
COPPER	0.017116
LEAD	0.001783
NICKEL	0.004636
ZINC	0.064899
SELENIUM	0.001783
MERCURY	0.000322
ARSENIC	0.001783

FARM BOHANNAN

SLUDGE TYPE LIME STABILIZED
FIELD DATE ACRES AVAILABLE POUNDS HAULER
3 7/27/2015 14 16857 CBP

16857

METHOD OF DISPOSAL TO ALL SITES - LAND APPLICATION BY DRY SPREADER
CROP ON ALL SITES - FESCUE BERMUDA
SLUDGE APPLIED IN DRY TONS / ACRE / YEAR

FIELD #3 0.602036

NITROGEN APPLIED IN POUNDS / ACRE / YEAR (PAN)

FIELD #3 16.69887

PHOSPHORUS APPLIED IN POUNDS / ACRE / YEAR

FIELD #3 46.04841

TOTAL METALS APPLIED IN POUNDS / ACRE

METAL	FIELD #3
CADMIUM	0.00301
COPPER	0.028898
LEAD	0.00301
NICKEL	0.007826
ZINC	0.109571
SELENIUM	0.00301
MERCURY	0.000544
ARSENIC	0.00301

TOTAL METALS APPLIED YEAR TO DATE IN POUNDS / ACRE

METAL	FIELD #3
CADMIUM	0.00301
COPPER	0.028898
LEAD	0.00301
NICKEL	0.007826
ZINC	0.109571
SELENIUM	0.00301
MERCURY	0.000544
ARSENIC	0.00301

FARM BOHANNAN

SLUDGE TYPE	LIME STABILIZED		
FIELD	DATE	ACRES AVAILABLE	POUNDS HAULER
4	4/1/2015	25	26971.2 EJB
4	7/24/2015	25	16857 EJB
4	7/30/2015	25	6742.8 CBP
4	7/31/2015	25	13485.6 CBP

64056.6

METHOD OF DISPOSAL TO ALL SITES - LAND APPLICATION BY DRY SPREADER
CROP ON ALL SITES - FESCUE BERMUDA
SLUDGE APPLIED IN DRY TONS / ACRE / YEAR

FIELD #4 1.281132

NITROGEN APPLIED IN POUNDS / ACRE / YEAR (PAN)

FIELD #4 35.53519

PHOSPHORUS APPLIED IN POUNDS / ACRE / YEAR

FIELD #4 97.99102

TOTAL METALS APPLIED IN POUNDS / ACRE

METAL	FIELD #4
CADMIUM	0.006406
COPPER	0.061494
LEAD	0.006406
NICKEL	0.016655
ZINC	0.233166
SELENIUM	0.006406
MERCURY	0.001158
ARSENIC	0.006406

TOTAL METALS APPLIED YEAR TO DATE IN POUNDS / ACRE

METAL	FIELD #4
CADMIUM	0.006406
COPPER	0.061494
LEAD	0.006406
NICKEL	0.016655
ZINC	0.233166
SELENIUM	0.006406
MERCURY	0.001158
ARSENIC	0.006406

FARM BOHANNAN

SLUDGE TYPE	LIME STABILIZED		
FIELD	DATE	ACRES AVAILABLE	POUNDS HAULER
1H	4/2/2015	27.7	13485.6 EJB
1H	4/4/2015	27.7	16857 EJB
1H	7/6/2015	27.7	26971.2 CBP

57313.8

METHOD OF DISPOSAL TO ALL SITES - LAND APPLICATION BY DRY SPREADER
CROP ON ALL SITES - FESCUE BERMUDA
SLUDGE APPLIED IN DRY TONS / ACRE / YEAR

FIELD #1H 1.034545

NITROGEN APPLIED IN POUNDS / ACRE / YEAR (PAN)

FIELD #1H 28.69553

PHOSPHORUS APPLIED IN POUNDS / ACRE / YEAR

FIELD #1H 79.13012

TOTAL METALS APPLIED IN POUNDS / ACRE

METAL	FIELD #1H
CADMIUM	0.005173
COPPER	0.049658
LEAD	0.005173
NICKEL	0.013449
ZINC	0.188287
SELENIUM	0.005173
MERCURY	0.000935
ARSENIC	0.005173

TOTAL METALS APPLIED YEAR TO DATE IN POUNDS / ACRE

METAL	FIELD #1H
CADMIUM	0.005173
COPPER	0.049658
LEAD	0.005173
NICKEL	0.013449
ZINC	0.188287
SELENIUM	0.005173
MERCURY	0.000935
ARSENIC	0.005173

FARM BOHANNAN

SLUDGE TYPE	LIME STABILIZED			
FIELD	DATE	ACRES AVAILABLE	POUNDS	HAULER
2H	5/29/2015	23	13485	EJB
2H	6/11/2015	23	3371.4	CBP
2H	6/12/2015	23	13485.6	EJB
2H	7/14/2015	23	16857	EJB

47199

METHOD OF DISPOSAL TO ALL SITES - LAND APPLICATION BY DRY SPREADER
CROP ON ALL SITES - FESCUE BERMUDA
SLUDGE APPLIED IN DRY TONS / ACRE / YEAR

FIELD #2H 1.026065

NITROGEN APPLIED IN POUNDS / ACRE / YEAR (PAN)

FIELD #2H 28.46032

PHOSPHORUS APPLIED IN POUNDS / ACRE / YEAR

FIELD #2H 78.48151

TOTAL METALS APPLIED IN POUNDS / ACRE

METAL	FIELD #2H
CADMIUM	0.00513
COPPER	0.049251
LEAD	0.00513
NICKEL	0.013339
ZINC	0.186744
SELENIUM	0.00513
MERCURY	0.000928
ARSENIC	0.00513

TOTAL METALS APPLIED YEAR TO DATE IN POUNDS / ACRE

METAL	FIELD #2H
CADMIUM	0.00513
COPPER	0.049251
LEAD	0.00513
NICKEL	0.013339
ZINC	0.186744
SELENIUM	0.00513
MERCURY	0.000928
ARSENIC	0.00513

FARM BOHANNAN

SLUDGE TYPE	LIME STABILIZED		
FIELD	DATE	ACRES AVAILABLE	POUNDS HAULER
2BH	6/1/2015	15	10114.2 EJB
2BH	6/5/2015	15	20228.4 CBP
2BH	7/10/2015	15	6742.8 CBP

37085.4

METHOD OF DISPOSAL TO ALL SITES - LAND APPLICATION BY DRY SPREADER
CROP ON ALL SITES - FESCUE BERMUDA
SLUDGE APPLIED IN DRY TONS / ACRE / YEAR

FIELD #2BH 1.23618

NITROGEN APPLIED IN POUNDS / ACRE / YEAR (PAN)

FIELD #2BH 34.28834

PHOSPHORUS APPLIED IN POUNDS / ACRE / YEAR

FIELD #2BH 94.55274

TOTAL METALS APPLIED IN POUNDS / ACRE

METAL	FIELD #2BH
CADMIUM	0.006181
COPPER	0.059337
LEAD	0.006181
NICKEL	0.01607
ZINC	0.224985
SELENIUM	0.006181
MERCURY	0.001118
ARSENIC	0.006181

TOTAL METALS APPLIED YEAR TO DATE IN POUNDS / ACRE

METAL	FIELD #2BH
CADMIUM	0.006181
COPPER	0.059337
LEAD	0.006181
NICKEL	0.01607
ZINC	0.224985
SELENIUM	0.006181
MERCURY	0.001118
ARSENIC	0.006181

FARM BOHANNAN

SLUDGE TYPE	LIME STABILIZED			
FIELD	DATE	ACRES AVAILABLE	POUNDS	HAULER
3H	5/18/2015	66	6742.8	EJB
3H	8/11/2015	66	33714	CBP
3H	8/25/2015	66	13485.6	EJB
3H	8/27/2015	66	13485.6	EJB
3H	8/28/2015	66	16857	EJB
3H	8/31/2015	66	13485.6	EJB
3H	9/1/2015	66	10114.2	CBP
3H	9/3/2015	66	10114.2	CBP
3H	9/4/2015	66	20228.4	CBP

138227.4

METHOD OF DISPOSAL TO ALL SITES - LAND APPLICATION BY DRY SPREADER
CROP ON ALL SITES - FESCUE BERMUDA
SLUDGE APPLIED IN DRY TONS / ACRE / YEAR

FIELD #3H 1.047177

NITROGEN APPLIED IN POUNDS / ACRE / YEAR (PAN)

FIELD #3H 29.04591

PHOSPHORUS APPLIED IN POUNDS / ACRE / YEAR

FIELD #3H 80.09633

TOTAL METALS APPLIED IN POUNDS / ACRE

METAL	FIELD #3H
CADMIUM	0.005236
COPPER	0.050265
LEAD	0.005236
NICKEL	0.013613
ZINC	0.190586
SELENIUM	0.005236
MERCURY	0.000947
ARSENIC	0.005236

TOTAL METALS APPLIED YEAR TO DATE IN POUNDS / ACRE

METAL	FIELD #3H
CADMIUM	0.005236
COPPER	0.050265
LEAD	0.005236
NICKEL	0.013613
ZINC	0.190586
SELENIUM	0.005236
MERCURY	0.000947
ARSENIC	0.005236

FARM BOHANNAN

SLUDGE TYPE	LIME STABILIZED		
FIELD	DATE	ACRES AVAILABLE	POUNDS HAULER
4H	5/7/2015	32	26971.2 EJB
4H	9/15/2015	32	30342.6 EJB
4H	9/21/2015	32	13485.6 CBP
4H	9/22/2015	32	13485.6 CBP

84285

METHOD OF DISPOSAL TO ALL SITES - LAND APPLICATION BY DRY SPREADER
CROP ON ALL SITES - FESCUE BERMUDA
SLUDGE APPLIED IN DRY TONS / ACRE / YEAR

FIELD #4H 1.316953

NITROGEN APPLIED IN POUNDS / ACRE / YEAR (PAN)

FIELD #4H 36.52878

PHOSPHORUS APPLIED IN POUNDS / ACRE / YEAR

FIELD #4H 100.7309

TOTAL METALS APPLIED IN POUNDS / ACRE

METAL	FIELD #4H
CADMIUM	0.006585
COPPER	0.063214
LEAD	0.006585
NICKEL	0.01712
ZINC	0.239685
SELENIUM	0.006585
MERCURY	0.001191
ARSENIC	0.006585

TOTAL METALS APPLIED YEAR TO DATE IN POUNDS / ACRE

METAL	FIELD #4H
CADMIUM	0.006585
COPPER	0.063214
LEAD	0.006585
NICKEL	0.01712
ZINC	0.239685
SELENIUM	0.006585
MERCURY	0.001191
ARSENIC	0.006585

HATFIELD 1

SLUDGE TYPE	LIME STABILIZED		
FIELD	DATE	ACRES AVAILABLE	POUNDS HAULER
1	2/13/2015	10.4	23599.8 EJB

23599.8

METHOD OF DISPOSAL TO ALL SITES - LAND APPLICATION BY DRY SPREADER
CROP ON ALL SITES - FESCUE BERMUDA
SLUDGE APPLIED IN DRY TONS / ACRE / YEAR

FIELD #1 1.134606

NITROGEN APPLIED IN POUNDS / ACRE / YEAR (PAN)

FIELD #1 31.47095

PHOSPHORUS APPLIED IN POUNDS / ACRE / YEAR

FIELD #1 86.78354

TOTAL METALS APPLIED IN POUNDS / ACRE

METAL	FIELD #1
CADMIUM	0.005673
COPPER	0.054461
LEAD	0.005673
NICKEL	0.01475
ZINC	0.206498
SELENIUM	0.005673
MERCURY	0.001026
ARSENIC	0.005673

TOTAL METALS APPLIED YEAR TO DATE IN POUNDS / ACRE

METAL	FIELD #1
CADMIUM	0.07188
COPPER	2.662025
LEAD	0.112047
NICKEL	0.348654
ZINC	4.772907
SELENIUM	0.083248
MERCURY	0.007797
ARSENIC	0.060296

HATFIELD 2

SLUDGE TYPE LIME STABILIZED
FIELD DATE ACRES AVAILABLE POUNDS HAULER
2 6/29/2015 9.2 20228.4 EJB

20228.4

METHOD OF DISPOSAL TO ALL SITES - LAND APPLICATION BY DRY SPREADER
CROP ON ALL SITES - FESCUE BERMUDA
SLUDGE APPLIED IN DRY TONS / ACRE / YEAR

FIELD #2 1.09937

NITROGEN APPLIED IN POUNDS / ACRE / YEAR (PAN)

FIELD #2 30.49359

PHOSPHORUS APPLIED IN POUNDS / ACRE / YEAR

FIELD #2 84.0884

TOTAL METALS APPLIED IN POUNDS / ACRE

METAL	FIELD #2
CADMIUM	0.005497
COPPER	0.05277
LEAD	0.005497
NICKEL	0.014292
ZINC	0.200085
SELENIUM	0.005497
MERCURY	0.000994
ARSENIC	0.005497

TOTAL METALS APPLIED YEAR TO DATE IN POUNDS / ACRE

METAL	FIELD #2
CADMIUM	0.073466
COPPER	2.684295
LEAD	0.113633
NICKEL	0.352425
ZINC	4.817587
SELENIUM	0.084834
MERCURY	0.008175
ARSENIC	0.061882

FARM M CLOUD

SLUDGE TYPE	LIME STABILIZED		
FIELD	DATE	ACRES AVAILABLE	POUNDS HAULER
1	12/4/2015	15.9	23599.8 CBP
1	12/7/2015	15.9	13485.6 CBP

37085.4

METHOD OF DISPOSAL TO ALL SITES - LAND APPLICATION BY DRY SPREADER
CROP ON ALL SITES - FESCUE BERMUDA
SLUDGE APPLIED IN DRY TONS / ACRE / YEAR

FIELD #1 1.166208

NITROGEN APPLIED IN POUNDS / ACRE / YEAR (PAN)

FIELD #1 32.3475

PHOSPHORUS APPLIED IN POUNDS / ACRE / YEAR

FIELD #1 89.2007

TOTAL METALS APPLIED IN POUNDS / ACRE

METAL	FIELD #1
CADMIUM	0.005831
COPPER	0.055978
LEAD	0.005831
NICKEL	0.015161
ZINC	0.21225
SELENIUM	0.005831
MERCURY	0.001054
ARSENIC	0.005831

TOTAL METALS APPLIED YEAR TO DATE IN POUNDS / ACRE

METAL	FIELD #1
CADMIUM	0.556587
COPPER	21.60483
LEAD	0.754747
NICKEL	0.843116
ZINC	40.79508
SELENIUM	0.885333
MERCURY	0.032389
ARSENIC	0.638964

FARM MISTY RIVER 7

SLUDGE TYPE LIME STABILIZED
FIELD DATE ACRES AVAILABLE POUNDS HAULER
7 4/13/2015 6.6 16857 MBJ

16857

METHOD OF DISPOSAL TO ALL SITES - LAND APPLICATION BY DRY SPREADER
CROP ON ALL SITES - FESCUE BERMUDA
SLUDGE APPLIED IN DRY TONS / ACRE / YEAR

FIELD #7 1.277045

NITROGEN APPLIED IN POUNDS / ACRE / YEAR (PAN)

FIELD #7 35.42184

PHOSPHORUS APPLIED IN POUNDS / ACRE / YEAR

FIELD #7 97.67845

TOTAL METALS APPLIED IN POUNDS / ACRE

METAL	FIELD #7
CADMIUM	0.006385
COPPER	0.061298
LEAD	0.006385
NICKEL	0.016602
ZINC	0.232422
SELENIUM	0.006385
MERCURY	0.001155
ARSENIC	0.006385

TOTAL METALS APPLIED YEAR TO DATE IN POUNDS / ACRE

METAL	FIELD #7
CADMIUM	0.095003
COPPER	2.565249
LEAD	0.108864
NICKEL	0.092871
ZINC	5.828995
SELENIUM	0.162066
MERCURY	0.006976
ARSENIC	0.046066

FARM MISTY RIVER 8

SLUDGE TYPE LIME STABILIZED
FIELD DATE ACRES AVAILABLE POUNDS HAULER
8 5/2/2015 21.4 37085.4 EJB

37085.4

METHOD OF DISPOAL TO ALL SITES - LAND APPLICATION BY DRY SPREADER
CROP ON ALL SITES - FESCUE BERMUDA
SLUDGE APPLIED IN DRY TONS / ACRE / YEAR

FIELD#8 0.866481

NITROGEN APPLIED IN POUNDS / ACRE / YEAR (PAN)

FIELD#8 24.03389

PHOSPHORUS APPLIED IN POUNDS / ACRE / YEAR

FIELD#8 66.27528

TOTAL METALS APPLIED IN POUNDS / ACRE

METAL	FIELD#8
CADMIUM	0.004332
COPPER	0.041591
LEAD	0.004332
NICKEL	0.011264
ZINC	0.1577
SELENIUM	0.004332
MERCURY	0.000783
ARSENIC	0.004332

TOTAL METALS APPLIED YEAR TO DATE IN POUNDS / ACRE

METAL	FIELD#8
CADMIUM	0.07228
COPPER	3.742053
LEAD	0.111471
NICKEL	0.219008
ZINC	6.52348
SELENIUM	0.086121
MERCURY	0.010908
ARSENIC	0.072265

FARM MISTY RIVER 15

SLUDGE TYPE	LIME STABILIZED			
FIELD	DATE	ACRES AVAILABLE	POUNDS	HAULER
15	5/1/2015	64.9	23599.8	EJB
15	11/2/2015	64.9	20228.4	CBP
15	11/12/2015	64.9	10114.2	CBP
15	12/2/2015	64.9	23599.8	CBP
15	12/7/2015	64.9	6742.8	CBP
15	12/8/2015	64.9	3371.4	CBP
15	12/18/2015	64.9	23599.8	CBP
			111256.2	

METHOD OF DISPOSAL TO ALL SITES - LAND APPLICATION BY DRY SPREADER
CROP ON ALL SITES - FESCUE BERMUDA
SLUDGE APPLIED IN DRY TONS / ACRE / YEAR

FIELD #15 0.8571356

NITROGEN APPLIED IN POUNDS / ACRE / YEAR (PAN)

FIELD #15 23.774661

PHOSPHORUS APPLIED IN POUNDS / ACRE / YEAR

FIELD #15 65.56045

TOTAL METALS APPLIED IN POUNDS / ACRE

METAL	FIELD #15
CADMIUM	0.004286
COPPER	0.041143
LEAD	0.004286
NICKEL	0.011143
ZINC	0.155999
SELENIUM	0.004286
MERCURY	0.000775
ARSENIC	0.004286

TOTAL METALS APPLIED YEAR TO DATE IN POUNDS / ACRE

METAL	FIELD #15
CADMIUM	0.07689
COPPER	2.060171
LEAD	0.083455
NICKEL	0.108162
ZINC	4.462924
SELENIUM	0.112453
MERCURY	0.018867
ARSENIC	0.109573

FARM MISTY RIVER 16

SLUDGE TYPE	LIME STABILIZED			
FIELD	DATE	ACRES AVAILABLE	POUNDS	HAULER
16	4/6/2015	48.3	20228.4	EJB
16	4/7/2015	48.3	20228.4	EJB
16	4/8/2015	48.3	20228.4	EJB
16	4/10/2015	48.3	16857	MBJ

77542.2

METHOD OF DISPOSAL TO ALL SITES - LAND APPLICATION BY DRY SPREADER
CROP ON ALL SITES - FESCUE BERMUDA
SLUDGE APPLIED IN DRY TONS / ACRE / YEAR

FIELD #16 0.802714

NITROGEN APPLIED IN POUNDS / ACRE / YEAR (PAN)

FIELD #16 22.26516

PHOSPHORUS APPLIED IN POUNDS / ACRE / YEAR

FIELD #16 61.39788

TOTAL METALS APPLIED IN POUNDS / ACRE

METAL	FIELD #16
CADMIUM	0.004014
COPPER	0.03853
LEAD	0.004014
NICKEL	0.010435
ZINC	0.146094
SELENIUM	0.004014
MERCURY	0.000726
ARSENIC	0.004014

TOTAL METALS APPLIED YEAR TO DATE IN POUNDS / ACRE

METAL	FIELD #16
CADMIUM	0.095257
COPPER	3.833813
LEAD	0.138595
NICKEL	0.224704
ZINC	7.352322
SELENIUM	0.177048
MERCURY	0.009109
ARSENIC	0.1501

FARM MISTY RIVER 17

SLUDGE TYPE	LIME STABILIZED		
FIELD	DATE	ACRES AVAILABLE	POUNDS HAULER
17	4/11/2015	22	13485.6 MBJ
17	4/17/2015	22	16857 MBJ
17	4/22/2015	22	20228.4 MBJ

50571

METHOD OF DISPOSAL TO ALL SITES - LAND APPLICATION BY DRY SPREADER
CROP ON ALL SITES - FESCUE BERMUDA
SLUDGE APPLIED IN DRY TONS / ACRE / YEAR

FIELD #17 1.149341

NITROGEN APPLIED IN POUNDS / ACRE / YEAR (PAN)

FIELD #17 31.87966

PHOSPHORUS APPLIED IN POUNDS / ACRE / YEAR

FIELD #17 87.9106

TOTAL METALS APPLIED IN POUNDS / ACRE

METAL	FIELD #17
CADMIUM	0.005747
COPPER	0.055168
LEAD	0.005747
NICKEL	0.014941
ZINC	0.20918
SELENIUM	0.005747
MERCURY	0.001039
ARSENIC	0.005747

TOTAL METALS APPLIED YEAR TO DATE IN POUNDS / ACRE

METAL	FIELD #17
CADMIUM	1.014196
COPPER	6.099073
LEAD	0.224707
NICKEL	0.387699
ZINC	12.17268
SELENIUM	0.200033
MERCURY	0.013275
ARSENIC	0.132469

FARM WALDEN 13

SLUDGE TYPE LIME STABILIZED
FIELD DATE ACRES AVAILABLE POUNDS HAULER
13 8/13/2015 12.4 30342.6 CBP

30342.6

METHOD OF DISPOSAL TO ALL SITES - LAND APPLICATION BY DRY SPREADER
CROP ON ALL SITES - FESCUE BERMUDA
SLUDGE APPLIED IN DRY TONS / ACRE / YEAR

FIELD #13 1.223492

NITROGEN APPLIED IN POUNDS / ACRE / YEAR (PAN)

FIELD #13 33.93641

TOTAL METALS APPLIED IN POUNDS / ACRE

METAL	FIELD #13
CADMIUM	0.006117
COPPER	0.058728
LEAD	0.006117
NICKEL	0.015905
ZINC	0.222676
SELENIUM	0.006117
MERCURY	0.001106
ARSENIC	0.006117

TOTAL METALS APPLIED YEAR TO DATE IN POUNDS / ACRE

METAL	FIELD #13
CADMIUM	0.014871
COPPER	0.296442
LEAD	0.014871
NICKEL	0.033412
ZINC	0.57099
SELENIUM	0.014871
MERCURY	0.002326
ARSENIC	0.018189

FARM WALDEN 21

SLUDGE TYPE LIME STABILIZED
FIELD DATE ACRES AVAILABLE POUNDS HAULER
21 6/24/2015 5.3 16857 CBP

16857

METHOD OF DISPOAL TO ALL SITES - LAND APPLICATION BY DRY SPREADER
CROP ON ALL SITES - FESCUE BERMUDA
SLUDGE APPLIED IN DRY TONS / ACRE / YEAR

FIELD#21 1.590283

NITROGEN APPLIED IN POUNDS / ACRE / YEAR (PAN)

FIELD#21 44.11022

TOTAL METALS APPLIED IN POUNDS / ACRE

METAL	FIELD#21
CADMIUM	0.007951
COPPER	0.076334
LEAD	0.007951
NICKEL	0.020674
ZINC	0.289432
SELENIUM	0.007951
MERCURY	0.001438
ARSENIC	0.007951

TOTAL METALS APPLIED YEAR TO DATE IN POUNDS / ACRE

METAL	FIELD #21
CADMIUM	0.114757
COPPER	6.44345
LEAD	6.225487
NICKEL	0.172885
ZINC	9.728262
SELENIUM	0.151254
MERCURY	0.007431
ARSENIC	0.223577

FARM WALDEN 22

SLUDGE TYPE LIME STABILIZED
FIELD DATE ACRES AVAILABLE POUNDS HAULER
22 6/24/2015 8 23599.8 CBP

23599.8

METHOD OF DISPOSAL TO ALL SITES - LAND APPLICATION BY DRY SPREADER
CROP ON ALL SITES - FESCUE BERMUDA
SLUDGE APPLIED IN DRY TONS / ACRE / YEAR

FIELD #22 1.474988

NITROGEN APPLIED IN POUNDS / ACRE / YEAR (PAN)

FIELD #22 40.91223

PHOSPHORUS APPLIED IN POUNDS / ACRE / YEAR

FIELD #22 112.8186

TOTAL METALS APPLIED IN POUNDS / ACRE

METAL	FIELD #22
CADMIUM	0.007375
COPPER	0.070799
LEAD	0.007375
NICKEL	0.019175
ZINC	0.268448
SELENIUM	0.007375
MERCURY	0.001334
ARSENIC	0.007375

TOTAL METALS APPLIED YEAR TO DATE IN POUNDS / ACRE

METAL	FIELD #22
CADMIUM	0.264695
COPPER	6.301102
LEAD	0.238608
NICKEL	0.255426
ZINC	12.07847
SELENIUM	0.24073
MERCURY	0.011494
ARSENIC	0.267132

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