



DEPARTMENT OF THE ARMY
FORT WINGATE DEPOT ACTIVITY
P.O. BOX 268
FORT WINGATE, NM 87316

January 25, 2011

Mr. James P. Bearzi
Chief, Hazardous Waste Bureau
New Mexico Environment Department
2905 Rodeo Park Drive East, Building 1
Santa Fe, New Mexico 87505-6303

Dear Mr. Bearzi:

The U.S. Army Corps of Engineers (USACE) performed routine maintenance on purge water/decontamination water evaporation tanks at Fort Wingate Depot Activity (FWDA). One of the tanks was in use for approximately 2 years, and required maintenance to change out the Low Density Polyethylene (LDPE) liner to prevent leaks and to remove sediment that has built up over the past two years.

To dispose of material used to construct the evaporation tank, USACE collected samples of sediment and sand. Sediment that had caked on the liner was scraped off with a trowel and placed into four 8-ounce jars. These were analyzed for RCRA 8 Toxic Characteristics Leaching Procedure (TCLP) metals, total metals, perchlorate, and total explosives. Likewise, the sand used to fill sandbags was sampled. Four 8-ounce jars were filled with this sand and analyzed for the same constituents as the sediment.

Results are below the New Mexico Soil Screening levels and TCLP regulatory levels. As indicated in the October 27, 2010 letter to you, the liner has been disposed of as non-hazardous waste. The liner was cut up and disposed of as general refuse. Sandbags will be cut open, and the sand will be thin spread near the evaporation tanks. The sandbag material will be discarded as general refuse.

Enclosed for your review are the chemical analytical results. Sample ID *EVAP 1* are results of the sediment, and sample ID *EVAP 2* are results of the sand. These results will also be presented in the next groundwater monitoring report.

Should you have any question, please call me at (330) 358-7312.

Sincerely,

A handwritten signature in cursive script that reads "Mark Patterson".

Mark Patterson
BRAC Environmental Coordinator

CF:

Dave Cobrain, NMED, HWB
Shannon Duran, NMED, HWB
Richard Cruz, Fort Wingate
Chuck Hendrickson, U.S, EPA Region 6
Sharlene Begay-Platero, Navajo Nation
Eugenia Quintana, Navajo EPA
Rose Duywenie, Navajo BIA
Steve Beran, Pueblo of Zuni
Edward Wemytewa, Pueblo of Zuni
Marisa Yuselew, Pueblo of Zuni
Clayton Seoutewa, SW BIA
Charles Long, Navajo Council
Ben Burshia, BIA
Bill O'Donnell, ACSIM
Mike Kipp, USAEC
Steven Smith, USACE
Eldine Stevens
Judith Wilson
Angela Kelsey, DOI



Analytical Results

Report To

Matt Masten
U.S. Army Engineer District, A
4101 Jefferson Plaza NE
Albuquerque, NM 87109-3435

Report Table of Contents

Account

USNM

Project

515208

Additional Testing

This report consists of this Table of Contents and the following pages:

<u>Report Name</u>	<u>Description</u>	<u>Pages</u>
515208_r03_03_ProjectResults	Ana-Lab Project P:515208 C:USNM Project Results	8
515208_r10_05_ProjectQC	Ana-Lab Project P:515208 C:USNM Project Quality Control Groups	14
515208_r99_09_CoC_1_of_1	Ana-Lab CoC USNM 515208_1_of_1	2
Total Pages:		24

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TESTING #0637-01

LDSClient v1.0.2.393



NELAP-accredited #T104704201



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Form rptTOC Created 10/06/2004 v1.1



Results

Account
USNM-A

Project
515208

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Printed:
01/19/2011 Page 1 of 8

Additional Testing

Results

Parameter	Results	Units	RL	Flags	CAS	Bottle
261786	EVAP1					<i>Received:</i> 10/21/2010
Soil	Collected by: Client		Affiliation:	U.S. Army Engineer D	10/20/2010	11:15
Supplement to Test Report 240798						
<hr/>						
	<i>Prepared:</i>	408842	<i>01/18/2011</i>		1205	
6010B			<i>Analyzed: JDD</i>	<i>01/19/2011</i>	<i>1220</i>	<i>QCgroup</i> 409062
Total Iron	6090	mg/kg	47.6		7439-89-6	21
Calcium	15900	mg/kg	238		7440-70-2	21
Magnesium	3420	mg/kg	238		7439-95-4	21
Potassium	703	mg/kg	238		7440-09-7	21
Sodium	2230	mg/kg	238		7440-23-5	21
<hr/>						
	<i>Prepared:</i>	396550	<i>10/22/2010</i>		1530	
6020A			<i>Analyzed: HVM</i>	<i>10/25/2010</i>	<i>16:44</i>	<i>QCgroup</i> 396937
Antimony	0.249	mg/kg	0.122		7440-36-0	05
Arsenic	2.31 *	mg/kg	0.266		7440-38-2	05
Barium	171 *	mg/kg	0.399	DP	7440-39-3	05
Beryllium	0.321	mg/kg	0.00789		7440-41-7	05
Cadmium	0.272 *	mg/kg	0.133		7440-43-9	05
Chromium	14.7 *	mg/kg	0.133		7440-47-3	05
Cobalt	3.64	mg/kg	0.122		7440-48-4	05
Copper	7.47	mg/kg	0.122		7440-50-8	05
Lead	19.7 *	mg/kg	0.133	DP	7439-92-1	05
Nickel	8.02	mg/kg	0.122		7440-02-0	05
Selenium	0.255 *	mg/kg	0.266	J	7782-49-2	05
Silver	0.107 *	mg/kg	0.133	J	7440-22-4	05
Thallium	0.0523	mg/kg	0.122	J	7440-28-0	05
Vanadium	13.4	mg/kg	0.122		7440-62-2	05
Zinc	138	mg/kg	1.22	PD	7440-66-6	05
<hr/>						
	<i>Prepared:</i>	397255	<i>10/27/2010</i>		0945	
6020A			<i>Analyzed: HVM</i>	<i>10/27/2010</i>	<i>13:00</i>	<i>QCgroup</i> 397313
TCLP Arsenic	0.0000573	mg/L	0.000185	J	7440-38-2	10
TCLP Barium	0.00825	mg/L	0.0000617		7440-39-3	10
TCLP Cadmium	0.0000883	mg/L	0.0000617	J	7440-43-9	10
TCLP Chromium	0.0002	mg/L	0.0000617		7440-47-3	10
TCLP Lead	0.000343	mg/L	0.0000617		7439-92-1	10
TCLP Selenium	<0.000247	mg/L	0.000247		7782-49-2	10
TCLP Silver	<0.0000617	mg/L	0.0000617		7440-22-4	10
<hr/>						
	<i>Prepared:</i>	408842	<i>01/18/2011</i>		1205	
6020A			<i>Analyzed: HVM</i>	<i>01/18/2011</i>	<i>15:03</i>	<i>QCgroup</i> 408945
Aluminum	2830	mg/kg	47.6		7429-90-5	21
Manganese	153	mg/kg	4.76		7439-96-5	21

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Results

Account
USNM-A

Project
515208

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Printed:
01/19/2011 Page 2 of 8

Additional Testing

Results

Parameter	Results	Units	RL	Flags	CAS	Bottle
261786	EVAP1					
						Received: 10/21/2010
Soil	Collected by:	Client	Affiliation:	U.S. Army Engineer D	10/20/2010	11:15
Supplement to Test Report 240798						
6020A			Analyzed: HVM	01/18/2011	15:03	QCgroup 408945
* Dry Weight Basis						
	Prepared:	397287	10/27/2010		1106	
7470A			Analyzed: HVM	10/27/2010	2:41	QCgroup 397364
TCLP Mercury	<0.0015	mg/L	0.0015		7439-97-6	14
	Prepared:	397268	10/25/2010		0900	
8330			Analyzed: KLB	10/28/2010	11:42	QCgroup 397679
1,3,5-Trinitrobenzene	<272 *	ug/kg	272		99-35-4	11
2,6-Dinitrotoluene	<272 *	ug/kg	272		606-20-2	11
2,4-Dinitrotoluene	<272 *	ug/kg	272		121-14-2	11
2-Amino-4,6-dinitrotoluene	<272 *	ug/kg	272		35572-78-2	11
4-Amino-2,6-dinitrotoluene	<272 *	ug/kg	272		19406-51-0	11
HMX	121 *	ug/kg	272	J	2691-41-0	11
Nitrobenzene	<272 *	ug/kg	272		98-95-3	11
2-Nitrotoluene	<272 *	ug/kg	272		88-72-2	11
3-Nitrotoluene	<272 *	ug/kg	272		99-08-1	11
4-Nitrotoluene	<272 *	ug/kg	272		99-99-0	11
RDX	<272 *	ug/kg	272		121-82-4	11
Tetryl	<272 *	ug/kg	272		479-45-8	11
2,4,6-Trinitrotoluene	<272 *	ug/kg	272		118-96-7	11
Dinitrobenzene, 1,3-	<272 *	ug/kg	272		99-65-0	11
* Dry Weight Basis						
	Prepared:	399724	11/11/2010		0831	
EPA 314.0			Analyzed: YAN	11/11/2010	1403	QCgroup 400069
Perchlorate (water extractable)	0.694 *	mg/kg	0.0436		7790-98-9	20
* Dry Weight Basis						
	Prepared:	397462	10/27/2010		0708	
SM 2540 G, 20th Ed.			Analyzed: MLC	10/27/2010	0708	QCgroup 397462
Total Solids	91.8	%	0.010			01
	Prepared:	397516	10/28/2010		0845	
SW-846 7471A			Analyzed: ALH	10/28/2010	12:45	QCgroup 397577
Mercury	0.00342 *	mg/kg	0.0107	J	7439-97-6	17

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TESTING #0637-01



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Results

Account
USNM-A

Project
515208

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Printed:
01/19/2011 Page 3 of 8

Additional Testing

Results

Parameter	Results	Units	RL	Flags	CAS	Bottle
261786	EVAP1					Received: 10/21/2010
Soil	Collected by: Client		Affiliation:	U.S. Army Engineer D	10/20/2010	11:15
Supplement to Test Report 240798 * Dry Weight Basis						
261791	EVAP2					Received: 10/21/2010
Soil	Collected by: Client		Affiliation:	U.S. Army Engineer D	10/20/2010	11:15
Supplement to Test Report 240799						
6010B						
	Prepared: 408842		01/18/2011		1205	
			Analyzed: JDD 01/19/2011		1231	QCgroup 409062
Total Iron	24100	mg/kg	238		7439-89-6	17
Calcium	13500	mg/kg	1190		7440-70-2	17
Magnesium	1330	mg/kg	1190		7439-95-4	17
Potassium	1210	mg/kg	1190		7440-09-7	17
Sodium	1170	mg/kg	1190	J	7440-23-5	17
6020A						
	Prepared: 396550		10/22/2010		1530	
			Analyzed: HVM 10/25/2010		16:55	QCgroup 396937
Antimony	0.110	mg/kg	0.122	J	7440-36-0	07
Arsenic	1.18 *	mg/kg	0.280		7440-38-2	07
Barium	367 *	mg/kg	0.420		7440-39-3	07
Beryllium	0.265	mg/kg	0.00789		7440-41-7	07
Cadmium	0.0611 *	mg/kg	0.140	J	7440-43-9	07
Chromium	5.46 *	mg/kg	0.140		7440-47-3	07
Cobalt	2.33	mg/kg	0.122		7440-48-4	07
Copper	2.09	mg/kg	0.122		7440-50-8	07
Lead	4.34 *	mg/kg	0.140		7439-92-1	07
Nickel	3.14	mg/kg	0.122		7440-02-0	07
Selenium	0.146 *	mg/kg	0.280	J	7782-49-2	07
Silver	0.0109 *	mg/kg	0.140	J	7440-22-4	07
Thallium	0.0456	mg/kg	0.122	J	7440-28-0	07
Vanadium	13.6	mg/kg	0.122		7440-62-2	07
Zinc	8.74	mg/kg	1.22		7440-66-6	07
6020A						
	Prepared: 397255		10/27/2010		0945	
			Analyzed: HVM 10/27/2010		13:07	QCgroup 397313
TCLP Arsenic	<0.000185	mg/L	0.000185		7440-38-2	10
TCLP Barium	0.0137	mg/L	0.0000617		7440-39-3	10
TCLP Cadmium	0.0000211	mg/L	0.0000617	J	7440-43-9	10
TCLP Chromium	0.000118	mg/L	0.0000617		7440-47-3	10
TCLP Lead	0.00000438	mg/L	0.0000617	J	7439-92-1	10
TCLP Selenium	<0.000247	mg/L	0.000247		7782-49-2	10

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TESTING #0637-01



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Results

Account
USNM-A

Project
515208

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Printed:
01/19/2011 Page 4 of 8

Additional Testing

Results

Parameter	Results	Units	RL	Flags	CAS	Bottle
261791	EVAP2					<i>Received:</i> 10/21/2010
Soil	<i>Collected by:</i> Client		<i>Affiliation:</i> U.S. Army Engineer D			10/20/2010 11:15
Supplement to Test Report 240799						
6020A	TCLP Silver	<0.0000617	mg/L	0.0000617	7440-22-4	10
	<i>Prepared:</i> 408842			01/18/2011	1205	
6020A	Aluminum	3340	mg/kg	47.6	7429-90-5	17
	Manganese	449	mg/kg	4.76	7439-96-5	17
	* Dry Weight Basis					
	<i>Prepared:</i> 397287			10/27/2010	1106	
7470A	TCLP Mercury	<0.0015	mg/L	0.0015	7439-97-6	12
	<i>Prepared:</i> 397288			10/25/2010	0900	
8330	1,3,5 Trinitrobenzene	<287 *	ug/kg	287	99-35-4	11
	2,6 Dinitrotoluene	<287 *	ug/kg	287	606-20-2	11
	2,4-Dinitrotoluene	<287 *	ug/kg	287	121-14-2	11
	2-Amino-4,6-dinitrotoluene	<287 *	ug/kg	287	35572-78-2	11
	4-Amino-2,6-dinitrotoluene	<287 *	ug/kg	287	19406-51-0	11
	HMX	<287 *	ug/kg	287	2691-41-0	11
	Nitrobenzene	<287 *	ug/kg	287	98-95-3	11
	2-Nitrotoluene	<287 *	ug/kg	287	88-72-2	11
	3-Nitrotoluene	<287 *	ug/kg	287	99-08-1	11
	4-Nitrotoluene	<287 *	ug/kg	287	99-99-0	11
	RDX	<287 *	ug/kg	287	121-82-4	11
	Tetryl	<287 *	ug/kg	287	479-45-8	11
	2,4,6-Trinitrotoluene	<287 *	ug/kg	287	118-96-7	11
	Dinitrobenzene, 1,3-	<287 *	ug/kg	287	99-65-0	11
	* Dry Weight Basis					
	<i>Prepared:</i> 399724			11/11/2010	0831	
EPA 314.0	Perchlorate (water extractable)	<0.0459 *	mg/kg	0.0459	7790-98-9	14
	* Dry Weight Basis					
	<i>Prepared:</i> 397462			10/27/2010	0708	
SM 2540 G, 20th Ed.				<i>Analyzed:</i> MLC 10/27/2010	0708	QCgroup 397462

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TESTING #0637-01



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Results

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USNM-A

Project
515208

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Matt Masten
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Printed:
01/19/2011 Page 5 of 8

Additional Testing

Results

Parameter	Results	Units	RL	Flags	CAS	Bottle
261791	EVAP2					<i>Received:</i> 10/21/2010
Soil	<i>Collected by:</i> Client		<i>Affiliation:</i> U.S. Army Engineer D			10/20/2010 11:15
Supplement to Test Report 240799						
<i>SM 2540 G, 20th Ed.</i>						
Total Solids	87.1	%	0.010		0708 <i>QCgroup</i>	397462 01
<i>Prepared:</i> 397516 10/28/2010 0845						
<i>SW-846 7471A</i>			<i>Analyzed:</i> ALH 10/28/2010		12:50 <i>QCgroup</i>	397577
Mercury	0.00281 *	mg/kg	0.0117	J	7439-97-6	13
* Dry Weight Basis						

Sample Preparation

261786	EVAP1					<i>Received:</i> 10/21/2010
<i>Prepared:</i> 10/21/2010						
<i>Analyzed:</i> KAT 10/21/2010						
Bottle Temperature on Receipt	3	degrees				01
Bottle Temperature on Receipt	3	degrees				02
Bottle Temperature on Receipt	3	degrees				03
Bottle Temperature on Receipt	4	degrees				04
<i>Prepared:</i> 399724 11/11/2010 0831						
300.0			<i>Analyzed:</i> KJS 11/11/2010		0831 <i>QCgroup</i>	399724
Water Extract-Ion Chromatography	50/5	grams				01
<i>Prepared:</i> 397137 10/26/2010 1410						
7470A			<i>Analyzed:</i> ALH 10/27/2010		1106 <i>QCgroup</i>	397287
Metals Digestion TCLP 7470	50/2.5	ml				09
<i>Prepared:</i> 397268 10/25/2010 0900						
8330			<i>Analyzed:</i> TRP 10/25/2010		0900 <i>QCgroup</i>	397268
Explosives Extraction: Solid	10/2	grams				04
8330			<i>Analyzed:</i> KLB 10/28/2010		11:42 <i>QCgroup</i>	397679
Explosives Expansion Code	Entered					11
<i>Prepared:</i> 11/15/2010 13:53						

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TESTING #0637-01



NELAP-accredited #T104704201



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Results

Account
USNM-A

Project
515208

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Printed:
01/19/2011 Page 6 of 8

Additional Testing

Sample Preparation

261786 EVAP1 Received: 10/21/2010

Calculation	As Received to Dry Weight Basis	Calculated	Analyzed: CAL 11/15/2010 13:53
EPA 1311	TCLP Extraction Non-Volatile	Prepared: 397137	10/26/2010 1410
		SOL EXT 2 ml	Analyzed: TDD 10/26/2010 1410 QCgroup 397137 01
SW-846 3010B	Metals Digestion TCLP 3010	Prepared: 397137	10/26/2010 1410
		50/10 ml	Analyzed: TES 10/27/2010 0945 QCgroup 397255 09
SW-846 3050B	Solid/Organic Metals Digestion	Prepared: 396550	10/22/2010 1530
		50/2.05 grams	Analyzed: TES 10/22/2010 1530 QCgroup 396550 01
SW-846 3050B	Solid/Organic Metals Digestion	Prepared: 408842	01/18/2011 1205
		50/1.05 grams	Analyzed: TES 01/18/2011 1205 QCgroup 408842 01
SW-846 7471A	Solid Metals Digestion Hg	Prepared: 397516	10/28/2010 0845
		50/1.02 grams	Analyzed: PJD 10/28/2010 0845 QCgroup 397516 01

261791 EVAP2 Received: 10/21/2010

Prepared:	10/21/2010
Bottle Temperature on Receipt	3 degrees 01
Bottle Temperature on Receipt	1 degrees 02
Bottle Temperature on Receipt	2 degrees 03
Bottle Temperature on Receipt	1 degrees 04
Bottle Temperature on Receipt	2 degrees 05
Bottle Temperature on Receipt	31 degrees 06

Prepared:	399724	11/11/2010	0831
300.0		Analyzed: KJS 11/11/2010	0831 QCgroup 399724

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Results

Account
USNM-A

Project
515208

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Printed:
01/19/2011 Page 7 of 8

Additional Testing

Sample Preparation

261791 EVAP2 Received: 10/21/2010

300.0			Analyzed: KJS	11/11/2010	0831	QCgroup	399724
Water Extract-Ion Chromatography	50/5	grams					01
	Prepared:	397137		10/26/2010	1410		
7470A			Analyzed: ALH	10/27/2010	1106	QCgroup	397287
Metals Digestion TCLP 7470	50/2.5	ml					09
	Prepared:	397268		10/25/2010	0900		
8330			Analyzed: TRP	10/25/2010	0900	QCgroup	397268
Explosives Extraction: Solid	10/2	grams					02
8330			Analyzed: KLB	10/28/2010	12:51	QCgroup	397679
Explosives Expansion Code	Entered						11
	Prepared:			11/15/2010	13:53		
Calculation		Calculated	Analyzed: CAL	11/15/2010	13:53		
As Received to Dry Weight Basis							
	Prepared:	397137		10/26/2010	1410		
EPA 1311			Analyzed: TDD	10/26/2010	1410	QCgroup	397137
TCLP Extraction Non-Volatile	SOLE EXT 1	ml					01
	Prepared:	397137		10/26/2010	1410		
SW-846 3010B			Analyzed: TES	10/27/2010	0945	QCgroup	397255
Metals Digestion TCLP 3010	50/10	ml					09
	Prepared:	396550		10/22/2010	1530		
SW-846 3050B			Analyzed: TES	10/22/2010	1530	QCgroup	396550
Solid/Organic Metals Digestion	50/2.05	grams					01
	Prepared:	408842		01/18/2011	1205		
SW-846 3050B			Analyzed: TES	01/18/2011	1205	QCgroup	408842
Solid/Organic Metals Digestion	50/1.05	grams					01
	Prepared:	397516		10/28/2010	0845		
SW-846 7471A			Analyzed: PJD	10/28/2010	0845	QCgroup	397516
Solid Metals Digestion Hg	50/0.98	grams					01

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TESTING #0637-01



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Results

Account
USNM-A

Project
515208

Printed:
01/19/2011 Page 8 of 8

Additional Testing

Report To

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Qualifiers:

- J - Analyte detected below quantitation limit
- D - Duplicate RPD was higher than expected
- P - Spike recovery outside control limits due to possible matrix

We report results on an 'As Received' or wet basis unless marked 'Dry Weight'. Unless otherwise noted, testing was performed at Ana-lab's corporate laboratory that holds the following Federal and State certificates: Texas Department of Health Lead Firm Certificate 2110076, EPA National Lead Laboratory Accreditation Program #637.01, US Department of Agriculture Soil Import Permit S-37592, Texas Commission on Environmental Quality Drinking Water Laboratory Certificate TX219, Texas Commission on Environmental Quality NELAP T104704201, Oklahoma Department of Environmental Quality Drinking Water Certification Lab ID# D9913, EPA Lab Number TX00063, USEPA Approved Perchlorate Testing Lab, Oklahoma Department of Environmental Quality Laboratory Certificate 8125, Arkansas Department of Environmental Quality Certification #03-070-0, Louisiana Department of Environmental Quality Laboratory Certification (NELAP, LELAP) #02008, Louisiana Department of Health and Hospitals Drinking Water (NELAP) # LA030020, US Department of Energy Approved, State of Kansas Department of Health and Environment Waste Water and Solid/Hazardous Waste Cert. E-10365, Alabama Department of Environmental Management Drinking Water #41540. Ana-Lab is also accredited to the international ISO-17025 standard by the American Association for Laboratory Accreditation (A2LA Certificate # 0637-01). The Accredited column designates accreditation by A -- A2LA, N -- NELAC, or z -- not covered under A2LA or NELAC scope of accreditation.

These analytical results relate to the sample tested. This report may NOT be reproduced EXCEPT in FULL without written approval of Ana-Lab Corp. Unless otherwise specified, these test results meet the requirements of NELAC. RL is the Reporting Limit (sample specific quantitation limit) and is at or above the Method Detection Limit (MDL). CAS is Chemical Abstract Service number.

Paul Zhang, Ph.D., Quality Director



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TESTING #0637-01



NELAP-accredited #T104704201



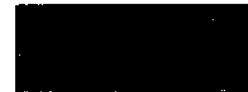
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Quality Control

Printed 01/19/2011 Page 1 of 14

Project



Report To

Matt Masten
U.S. Army Engineer District, A
4101 Jefferson Plaza NE
Albuquerque, NM 87109-3435

Additional Testing

I **EPA 314.0**

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Parameter	PrepSet	Reading	MDL	MQL	Units	Out	File
Perchlorate (water extractable)	399724	ND	0.000801	0.004	mg/kg		0012542165
Perchlorate (water extractable)	399724	ND	0.000801	0.004	mg/kg		0012542167

CCV

Parameter	Reading	Known	Units	Recover%	Limits%	Out	File
Perchlorate (water extractable)	0.0246	0.025	mg/kg	98.4	85.0 - 115		0012542174
Perchlorate (water extractable)	0.0256	0.025	mg/kg	102	85.0 - 115		0012542164

LCS

Parameter	PrepSet	Reading	Known	Units	Recover%	Limits	File	Out
Perchlorate (water extractable)	399724	0.193	0.200	mg/kg	96.5	80.0 - 120	0012542168	

LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
Perchlorate (water extractable)	399724	0.193	0.192	0.200	80.0 - 120	96.5	95.9	mg/kg	0.519	20.0

MS

Parameter	Sample	MS	MSD	UNK	Known	Limits	MS%	MSD%	Units	RPD	Limit%
Perchlorate (water extractable)	240799	1.18		ND	2.00	80.0 - 120	59.0 *		mg/kg		20.0

MSD

Parameter	Sample	MS	MSD	UNK	Known	Limits	MS%	MSD%	Units	RPD	Limit%
Perchlorate (water extractable)	240799	1.18	1.08	ND	2.00	80.0 - 120	59.0 *	54.0 *	mg/kg	8.85	20.0

M **6020A**

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Parameter	PrepSet	Reading	MDL	MQL	Units	Out	File
Antimony	396550	0.000155	0.0000515	0.001	mg/kg		0012476521
Arsenic	396550	ND	0.000219	0.002	mg/kg		0012476521
Barium	396550	0.00174	0.0000411	0.003	mg/kg		0012476521
Beryllium	396550	ND	0.0000647	0.0000647	mg/kg		0012476521
Cadmium	396550	ND	0.0000657	0.001	mg/kg		0012476521
Chromium	396550	0.000312	0.0000515	0.001	mg/kg		0012476521
Cobalt	396550	ND	0.0000317	0.001	mg/kg		0012476521

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TESTING #0637-01



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Printed 01/19/2011 Page 2 of 14

Project



Additional Testing

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M 6020A

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Parameter	PrepSet	Reading	MDL	MQL	Units	Out	File
Copper	396550	0.000149	0.0000932	0.001	mg/kg		0012476521
Lead	396550	0.000108	0.0000987	0.001	mg/kg		0012476521
Nickel	396550	0.000294	0.000037	0.001	mg/kg		0012476521
Selenium	396550	ND	0.000357	0.002	mg/kg		0012476521
Silver	396550	ND	0.0000578	0.001	mg/kg		0012476521
Thallium	396550	ND	0.0000252	0.001	mg/kg		0012476521
Vanadium	396550	ND	0.0000782	0.001	mg/kg		0012476521
Zinc	396550	0.0015	0.000183	0.010	mg/kg		0012476521

CCV

Parameter	Reading	Known	Units	Recover%	Limits%	Out	File
Antimony	0.0505	0.05	mg/kg	101	90.0 - 110		0012476526
Arsenic	0.0491	0.05	mg/kg	98.2	90.0 - 110		0012476526
Barium	0.051	0.05	mg/kg	102	90.0 - 110		0012476526
Beryllium	0.052	0.05	mg/kg	104	90.0 - 110		0012476526
Cadmium	0.0502	0.05	mg/kg	100	90.0 - 110		0012476526
Chromium	0.0522	0.05	mg/kg	104	90.0 - 110		0012476526
Cobalt	0.0519	0.05	mg/kg	104	90.0 - 110		0012476526
Copper	0.0485	0.05	mg/kg	97.0	90.0 - 110		0012476526
Lead	0.0499	0.05	mg/kg	99.8	90.0 - 110		0012476526
Nickel	0.0478	0.05	mg/kg	95.6	90.0 - 110		0012476526
Selenium	0.051	0.05	mg/kg	102	90.0 - 110		0012476526
Silver	0.050	0.05	mg/kg	100	90.0 - 110		0012476526
Thallium	0.0511	0.05	mg/kg	102	90.0 - 110		0012476526
Vanadium	0.0511	0.05	mg/kg	102	90.0 - 110		0012476526
Zinc	0.049	0.05	mg/kg	98.0	90.0 - 110		0012476526

LCS

Parameter	PrepSet	Reading	Known	Units	Recover%	Limits	File	Out
Antimony	396550	0.517	0.500	mg/kg	103	84.9 - 108	0012476522	
Arsenic	396550	0.508	0.500	mg/kg	102	87.4 - 115	0012476522	
Barium	396550	0.530	0.500	mg/kg	106	88.0 - 112	0012476522	
Beryllium	396550	0.217	0.200	mg/kg	109	78.8 - 116	0012476522	
Cadmium	396550	0.260	0.250	mg/kg	104	89.3 - 110	0012476522	
Chromium	396550	0.525	0.500	mg/kg	105	86.4 - 113	0012476522	
Cobalt	396550	0.526	0.500	mg/kg	105	85.1 - 113	0012476522	
Copper	396550	0.507	0.500	mg/kg	101	86.1 - 113	0012476522	
Lead	396550	0.541	0.500	mg/kg	108	86.6 - 116	0012476522	

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Project



Reportable

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Additional Testing

M 6020A

LCS

Parameter	PrepSet	Reading	Known	Units	Recover%	Limits	File	Out
Nickel	396550	0.497	0.500	mg/kg	99.4	85.7 - 112	0012476522	
Selenium	396550	0.517	0.500	mg/kg	103	84.7 - 114	0012476522	
Silver	396550	0.105	0.100	mg/kg	105	84.8 - 114	0012476522	
Thallium	396550	0.503	0.500	mg/kg	101	76.5 - 105	0012476522	
Vanadium	396550	0.513	0.500	mg/kg	103	87.1 - 109	0012476522	
Zinc	396550	0.515	0.500	mg/kg	103	82.8 - 120	0012476522	

LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
Antimony	396550	0.517	0.511	0.500	84.9 - 108	103	102	mg/kg	1.17	20.0
Arsenic	396550	0.508	0.497	0.500	87.4 - 115	102	99.5	mg/kg	2.19	20.0
Barium	396550	0.530	0.521	0.500	88.0 - 112	106	104	mg/kg	1.71	20.0
Beryllium	396550	0.217	0.215	0.200	78.8 - 116	109	108	mg/kg	0.926	20.0
Cadmium	396550	0.260	0.257	0.250	89.3 - 110	104	103	mg/kg	1.16	20.0
Chromium	396550	0.525	0.523	0.500	86.4 - 113	105	105	mg/kg	0.382	20.0
Cobalt	396550	0.526	0.531	0.500	85.1 - 113	105	106	mg/kg	0.946	20.0
Copper	396550	0.507	0.500	0.500	86.1 - 113	101	100	mg/kg	1.39	20.0
Lead	396550	0.541	0.542	0.500	86.6 - 116	108	108	mg/kg	0.185	20.0
Nickel	396550	0.497	0.491	0.500	85.7 - 112	99.4	98.1	mg/kg	1.21	20.0
Selenium	396550	0.517	0.504	0.500	84.7 - 114	103	101	mg/kg	2.55	20.0
Silver	396550	0.105	0.103	0.100	84.8 - 114	105	103	mg/kg	1.92	20.0
Thallium	396550	0.503	0.508	0.500	76.5 - 105	101	102	mg/kg	0.989	20.0
Vanadium	396550	0.513	0.509	0.500	87.1 - 109	103	102	mg/kg	0.783	20.0
Zinc	396550	0.515	0.504	0.500	82.8 - 120	103	101	mg/kg	2.16	20.0

MS

Parameter	Sample	MS	MSD	UNK	Known	Limits	MS%	MSD%	Units	RPD	Limit%
Arsenic	241109	2.29	0	0.293	2.49	70.0 - 130	80.2		mg/kg		30.0
Barium	241109	33.8	0	32.0	2.49	70.0 - 130	72.3		mg/kg		30.0
Chromium	241109	6.86	0	4.43	2.49	70.0 - 130	97.6		mg/kg		30.0
Copper	241109	16.7	0	13.4	2.49	70.0 - 130	133 *		mg/kg		30.0
Lead	241109	7.90	0	4.78	2.49	70.0 - 130	125		mg/kg		30.0
Nickel	241109	3.51	0	1.58	2.49	70.0 - 130	77.5		mg/kg		30.0
Selenium	241109	1.85	0	0.0327	2.49	70.0 - 130	73.0		mg/kg		30.0
Silver	241109	0.457	0	0.0134	0.498	70.0 - 130	89.1		mg/kg		30.0
Zinc	241109	39.5	0	32.4	2.49	70.0 - 130	285 *		mg/kg		30.0
Antimony	261786	9.87	0	0.249	12.2	70.0 - 130	78.9		mg/kg		30.0
Arsenic	261786	11.8	0	2.12	12.2	70.0 - 130	79.3		mg/kg		30.0

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TESTING #0637-01

LDSCient v1.0.2.393



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Report To

Matt Masten
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Project



Additional Testing

32537 M Soil 6020A

MS

Parameter	Sample	MS	MSD	UNK	Known	Limits	MS%	MSD%	Units	RPD	Limit%
Barium	261786	187	0	157	12.2	70.0 - 130	246 *		mg/kg		30.0
Beryllium	261786	5.32	0	0.321	4.88	70.0 - 130	102		mg/kg		30.0
Cadmium	261786	6.17	0	0.250	6.10	70.0 - 130	97.0		mg/kg		30.0
Cobalt	261786	16.3	0	3.64	12.2	70.0 - 130	104		mg/kg		30.0
Copper	261786	19.8	0	7.47	12.2	70.0 - 130	101		mg/kg		30.0
Lead	261786	39.7	0	18.1	12.2	70.0 - 130	177 *		mg/kg		30.0
Nickel	261786	20.2	0	8.02	12.2	70.0 - 130	99.8		mg/kg		30.0
Selenium	261786	10.3	0	0.234	12.2	70.0 - 130	82.5		mg/kg		30.0
Silver	261786	2.48	0	0.0979	2.44	70.0 - 130	97.6		mg/kg		30.0
Thallium	261786	12.4	0	0.0523	12.2	70.0 - 130	101		mg/kg		30.0
Vanadium	261786	28.6	0	13.4	12.2	70.0 - 130	125		mg/kg		30.0
Zinc	261786	157	0	138	12.2	70.0 - 130	156 *		mg/kg		30.0

MSD

Parameter	Sample	MS	MSD	UNK	Known	Limits	MS%	MSD%	Units	RPD	Limit%
Arsenic	241109	2.29	2.32	0.293	2.49	70.0 - 130	80.2	81.4	mg/kg	1.49	30.0
Barium	241109	33.8	34.3	32.0	2.49	70.0 - 130	72.3	92.4	mg/kg	24.4	30.0
Chromium	241109	6.86	6.68	4.43	2.49	70.0 - 130	97.6	90.4	mg/kg	7.66	30.0
Copper	241109	16.7	15.4	13.4	2.49	70.0 - 130	133 *	80.3	mg/kg	49.4 *	30.0
Lead	241109	7.90	7.71	4.78	2.49	70.0 - 130	125	118	mg/kg	5.76	30.0
Nickel	241109	3.51	3.58	1.58	2.49	70.0 - 130	77.5	80.3	mg/kg	3.55	30.0
Selenium	241109	1.85	1.83	0.0327	2.49	70.0 - 130	73.0	72.2	mg/kg	1.10	30.0
Silver	241109	0.457	0.468	0.0134	0.498	70.0 - 130	89.1	91.3	mg/kg	2.44	30.0
Zinc	241109	39.5	35.6	32.4	2.49	70.0 - 130	285 *	129	mg/kg	75.4 *	30.0
Antimony	261786	9.87	10.0	0.249	12.2	70.0 - 130	78.9	79.9	mg/kg	1.26	30.0
Arsenic	261786	11.8	11.7	2.12	12.2	70.0 - 130	79.3	78.5	mg/kg	1.01	30.0
Barium	261786	187	161	157	12.2	70.0 - 130	246 *	32.8 *	mg/kg	153 *	30.0
Beryllium	261786	5.32	5.16	0.321	4.88	70.0 - 130	102	99.2	mg/kg	2.78	30.0
Cadmium	261786	6.17	6.09	0.250	6.10	70.0 - 130	97.0	95.7	mg/kg	1.35	30.0
Cobalt	261786	16.3	15.3	3.64	12.2	70.0 - 130	104	95.6	mg/kg	8.42	30.0
Copper	261786	19.8	18.3	7.47	12.2	70.0 - 130	101	88.8	mg/kg	12.9	30.0
Lead	261786	39.7	33.7	18.1	12.2	70.0 - 130	177 *	128	mg/kg	32.1 *	30.0
Nickel	261786	20.2	17.9	8.02	12.2	70.0 - 130	99.8	81.0	mg/kg	20.8	30.0
Selenium	261786	10.3	10.4	0.234	12.2	70.0 - 130	82.5	83.3	mg/kg	0.965	30.0
Silver	261786	2.48	2.43	0.0979	2.44	70.0 - 130	97.6	95.6	mg/kg	2.07	30.0
Thallium	261786	12.4	12.0	0.0523	12.2	70.0 - 130	101	97.9	mg/kg	3.12	30.0
Vanadium	261786	28.6	24.9	13.4	12.2	70.0 - 130	125	94.3	mg/kg	28.0	30.0
Zinc	261786	157	148	138	12.2	70.0 - 130	156 *	82.0	mg/kg	62.2 *	30.0

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TESTING #0637-01



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Report ID

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Project



Additional Testing

39333 M Sam 6020A

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Parameter	PrepSet	Reading	MDL	MQL	Units	Out	File
TCLP Arsenic	397255	ND	0.000246	0.003	mg/L		0012484055
TCLP Barium	397255	0.000411	0.0000326	0.001	mg/L		0012484055
TCLP Cadmium	397255	ND	0.0000365	0.001	mg/L		0012484055
TCLP Chromium	397255	0.000085	0.0000237	0.001	mg/L		0012484055
TCLP Lead	397255	ND	0.0000402	0.001	mg/L		0012484055
TCLP Selenium	397255	ND	0.000356	0.004	mg/L		0012484055
TCLP Silver	397255	0.000025	0.0000201	0.001	mg/L		0012484055

CCV

Parameter	Reading	Known	Units	Recover%	Limits%	Out	File
TCLP Arsenic	0.0514	0.05	mg/L	103	90.0 - 110		0012484054
TCLP Arsenic	0.0512	0.05	mg/L	102	90.0 - 110		0012484065
TCLP Arsenic	0.0518	0.05	mg/L	104	90.0 - 110		0012484069
TCLP Barium	0.0509	0.05	mg/L	102	90.0 - 110		0012484065
TCLP Barium	0.0509	0.05	mg/L	102	90.0 - 110		0012484069
TCLP Barium	0.0509	0.05	mg/L	102	90.0 - 110		0012484054
TCLP Cadmium	0.0507	0.05	mg/L	101	90.0 - 110		0012484054
TCLP Cadmium	0.0506	0.05	mg/L	101	90.0 - 110		0012484069
TCLP Cadmium	0.0508	0.05	mg/L	102	90.0 - 110		0012484065
TCLP Chromium	0.0522	0.05	mg/L	104	90.0 - 110		0012484054
TCLP Chromium	0.0513	0.05	mg/L	103	90.0 - 110		0012484069
TCLP Chromium	0.0516	0.05	mg/L	103	90.0 - 110		0012484065
TCLP Lead	0.0499	0.05	mg/L	99.8	90.0 - 110		0012484054
TCLP Lead	0.0508	0.05	mg/L	102	90.0 - 110		0012484065
TCLP Lead	0.0499	0.05	mg/L	99.8	90.0 - 110		0012484069
TCLP Selenium	0.0516	0.05	mg/L	103	90.0 - 110		0012484069
TCLP Selenium	0.0512	0.05	mg/L	102	90.0 - 110		0012484065
TCLP Selenium	0.0512	0.05	mg/L	102	90.0 - 110		0012484054
TCLP Silver	0.0514	0.05	mg/L	103	90.0 - 110		0012484069
TCLP Silver	0.0518	0.05	mg/L	104	90.0 - 110		0012484054
TCLP Silver	0.0513	0.05	mg/L	103	90.0 - 110		0012484065

ICV

Parameter	Reading	Known	Units	Recover%	Limits%	Out	File
TCLP Arsenic	0.0506	0.05	mg/L	101	90.0 - 110		0012484053
TCLP Barium	0.0505	0.05	mg/L	101	90.0 - 110		0012484053
TCLP Cadmium	0.0509	0.05	mg/L	102	90.0 - 110		0012484053
TCLP Chromium	0.0515	0.05	mg/L	103	90.0 - 110		0012484053

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TESTING #0637-01



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Printed 01/19/2011 Page 6 of 14

Report To:

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Additional Testing

M 6020A

ICV

Parameter	Reading	Known	Units	Recover%	Limits%	Out	File
TCLP Lead	0.0509	0.05	mg/L	102	90.0 - 110		0012484053
TCLP Selenium	0.0507	0.05	mg/L	101	90.0 - 110		0012484053
TCLP Silver	0.0511	0.05	mg/L	102	90.0 - 110		0012484053

LCS

Parameter	PrepSet	Reading	Known	Units	Recover%	Limits	File	Out
TCLP Arsenic	397255	0.513	0.500	mg/L	103	92.8 - 121	0012484056	
TCLP Barium	397255	0.511	0.500	mg/L	102	88.4 - 114	0012484056	
TCLP Cadmium	397255	0.262	0.250	mg/L	105	89.0 - 116	0012484056	
TCLP Chromium	397255	0.509	0.500	mg/L	102	87.6 - 117	0012484056	
TCLP Lead	397255	0.506	0.500	mg/L	101	89.9 - 121	0012484056	
TCLP Selenium	397255	0.540	0.500	mg/L	108	89.3 - 119	0012484056	
TCLP Silver	397255	0.102	0.100	mg/L	102	85.6 - 115	0012484056	

LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
TCLP Arsenic	397255	0.513	0.526	0.500	92.8 - 121	103	105	mg/L	2.50	14.0
TCLP Barium	397255	0.511	0.504	0.500	88.4 - 114	102	101	mg/L	1.38	14.0
TCLP Cadmium	397255	0.262	0.261	0.250	89.0 - 116	105	105	mg/L	0.382	14.0
TCLP Chromium	397255	0.509	0.499	0.500	87.6 - 117	102	99.7	mg/L	1.98	14.0
TCLP Lead	397255	0.506	0.506	0.500	89.9 - 121	101	101	mg/L	0	14.0
TCLP Selenium	397255	0.540	0.552	0.500	89.3 - 119	108	110	mg/L	2.20	14.0
TCLP Silver	397255	0.102	0.100	0.100	85.6 - 115	102	100	mg/L	1.98	14.0

M 7470A

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	Out	File
TCLP Mercury	397287	ND	0.000075	0.000075	mg/L		0012485075

CCV

Parameter	Reading	Known	Units	Recover%	Limits%	Out	File
TCLP Mercury	0.00529	0.005	mg/L	106	90.0 - 110		0012485080
TCLP Mercury	0.00518	0.005	mg/L	104	90.0 - 110		0012485086

LCS

Parameter	PrepSet	Reading	Known	Units	Recover%	Limits	File	Out
TCLP Mercury	397287	0.00501	0.005	mg/L	100	88.3 - 119	0012485076	

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TESTING #0637-01



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Printed 01/19/2011 Page 7 of 14

Report To

Matt Masten
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Additional Testing

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%	
LCS Dup											
TCLP Mercury	397287	0.00501	0.00501	0.005	88.3 - 119	100	100	mg/L	0	14.0	
MS											
Parameter	Sample	MS	MSD	UNK	Known	Limits	MS%	MSD%	Units	RPD	Limit%
TCLP Mercury	240798	0.103	0	ND	0.100	70.0 - 130	103		mg/L		15.0
MSD											
Parameter	Sample	MS	MSD	UNK	Known	Limits	MS%	MSD%	Units	RPD	Limit%
TCLP Mercury	240798	0.103	0.101	ND	0.100	70.0 - 130	103	101	mg/L	1.96	15.0

Parameter	PrepSet	Reading	MDL	MQL	Units	Out	File				
Blank											
Mercury	397516	ND	0.000033	0.0002	mg/kg		0012489635				
CCV											
Parameter		Reading	Known	Units	Recover%	Limits%	Out	File			
Mercury		0.00508	0.005	mg/kg	102	90.0 - 110		0012489642			
Mercury		0.00498	0.005	mg/kg	99.6	90.0 - 110		0012489633			
ICL											
Parameter		Reading	Known	Units	Recover%	Limits%	Out	File			
Mercury		0.0192	0.02	mg/kg	96.0	90.0 - 110		0012489632			
ICV											
Parameter		Reading	Known	Units	Recover%	Limits%	Out	File			
Mercury		0.00529	0.005	mg/kg	106	90.0 - 110		0012489631			
LCS											
Parameter	PrepSet	Reading	Known	Units	Recover%	Limits	File	Out			
Mercury	397516	0.00946	0.010	mg/kg	94.6	85.0 - 115	0012489636				
LCS Dup											
Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%	
Mercury	397516	0.00946	0.00928	0.010	85.0 - 115	94.6	92.8	mg/kg	1.92	20.0	
MS											
Parameter	Sample	MS	MSD	UNK	Known	Limits	MS%	MSD%	Units	RPD	Limit%
Mercury	240798	0.473	0	0.00314	0.490	70.0 - 130	95.9		mg/kg		25.0

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TESTING #0637-01

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Printed 01/19/2011 Page 8 of 14

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Additional Testing

M **Soil** **SW-846 7471A**

MSD

Parameter	Sample	MS	MSD	UNK	Known	Limits	MS%	MSD%	Units	RPD	Limit%
Mercury	240798	0.473	0.460	0.00314	0.490	70.0 - 130	95.9	93.2	mg/kg	2.86	25.0

M **Soil** **6020A**

Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	Out	File
Aluminum	408842	0.00868	0.000673	0.010	mg/kg		0012724082
Manganese	408842	ND	0.0000615	0.001	mg/kg		0012724082

CCB

Parameter	PrepSet	Reading	MDL	MQL	Units	Out	File
Aluminum	408842	ND	0.000673	0.010	mg/kg		0012724077
Aluminum	408945	ND	0.000673	0.010	mg/kg		0012724096
Aluminum	408842	ND	0.000673	0.010	mg/kg		0012724092
Manganese	408842	ND	0.0000615	0.001	mg/kg		0012724077
Manganese	408945	ND	0.0000615	0.001	mg/kg		0012724096
Manganese	408842	ND	0.0000615	0.001	mg/kg		0012724092

CCV

Parameter	Reading	Known	Units	Recover%	Limits%	Out	File
Aluminum	0.00109	0.001	mg/kg	109	90.0 - 110		0012724078
Aluminum	9.11	10	mg/kg	91.1	90.0 - 110		0012724079
Aluminum	0.048	0.05	mg/kg	96.0	90.0 - 110		0012724076
Aluminum	0.0473	0.05	mg/kg	94.6	90.0 - 110		0012724095
Aluminum	0.047	0.05	mg/kg	94.0	90.0 - 110		0012724091
Manganese	9.45	10	mg/kg	94.5	90.0 - 110		0012724079
Manganese	0.0499	0.05	mg/kg	99.8	90.0 - 110		0012724076
Manganese	0.001	0.001	mg/kg	100	90.0 - 110		0012724078
Manganese	0.0512	0.05	mg/kg	102	90.0 - 110		0012724091
Manganese	0.0504	0.05	mg/kg	101	90.0 - 110		0012724095

Dir. SPKD

Parameter	Sample	DSPK	DSPKD	UNK	Known	Limits%	DSPK%	DSPKD%	Units	RPD	Limit%
Aluminum	261786	5000	4980	2830	2380	70.0 - 130	91.2	90.3	mg/kg	0.992	20.0
Manganese	261786	2470	2460	153	2380	70.0 - 130	97.4	96.9	mg/kg	0.515	20.0

Direct SPK

Parameter	Sample	DSPK	UNK	Known	Limits%	DSPK%	Units
Aluminum	261786	5000	2830	2380	70.0 - 130	91.2	mg/kg
Manganese	261786	2470	153	2380	70.0 - 130	97.4	mg/kg

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Quality Control

Printed 01/19/2011 Page 9 of 14

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Additional Testing

40845 M SMI 6020A

ICV										
Parameter	Reading	Known	Units	Recover%	Limits%	Out	File			
Aluminum	0.0483	0.05	mg/kg	96.6	90.0 - 110		0012724075			
Manganese	0.0505	0.05	mg/kg	101	90.0 - 110		0012724075			
LCS										
Parameter	PrepSet	Reading	Known	Units	Recover%	Limits	File	Out		
Aluminum	408842	0.490	0.500	mg/kg	97.9	87.6 - 116	0012724083			
Manganese	408842	0.507	0.500	mg/kg	101	87.6 - 113	0012724083			
LCS Dup										
Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
Aluminum	408842	0.490	0.487	0.500	87.6 - 116	97.9	97.5	mg/kg	0.614	20.0
Manganese	408842	0.507	0.515	0.500	87.6 - 113	101	103	mg/kg	1.57	20.0

40845 M SMI 6010B

AWRL										
Parameter	Reading	Known	Units	Recover%	Limits%	Out	File			
Calcium	0.279	0.300	mg/kg	93.0	75.0 - 125		0012726549			
Magnesium	0.281	0.300	mg/kg	93.7	75.0 - 125		0012726549			
Potassium	0.394	0.300	mg/kg	131	75.0 - 125	*	0012726549			
Sodium	0.324	0.300	mg/kg	108	75.0 - 125		0012726549			
Total Iron	0.274	0.300	mg/kg	91.3	75.0 - 125		0012726549			
Blank										
Parameter	PrepSet	Reading	MDL	MQL	Units	Out	File			
Calcium	408842	0.0307	0.0231	0.250	mg/kg		0012726550			
Magnesium	408842	ND	0.0156	0.250	mg/kg		0012726550			
Potassium	408842	0.173	0.0459	0.250	mg/kg		0012726550			
Sodium	408842	0.0835	0.0208	0.250	mg/kg		0012726550			
Total Iron	408842	ND	0.0164	0.050	mg/kg		0012726550			
CCV										
Parameter	Reading	Known	Units	Recover%	Limits%	Out	File			
Calcium	51.9	50.0	mg/kg	104	90.0 - 110		0012726556			
Calcium	51.8	50.0	mg/kg	104	90.0 - 110		0012726551			
Calcium	51.2	50.0	mg/kg	102	90.0 - 110		0012726561			
Calcium	51.6	50.0	mg/kg	103	90.0 - 110		0012726548			
Magnesium	53.2	50.0	mg/kg	106	90.0 - 110		0012726556			
Magnesium	52.3	50.0	mg/kg	105	90.0 - 110		0012726551			
Magnesium	50.9	50.0	mg/kg	102	90.0 - 110		0012726548			

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Quality Control

Printed 01/19/2011 Page 10 of 14

Report No.

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Additional Testing

M 6010B

CCV

Parameter	Reading	Known	Units	Recover%	Limits%	Out	File
Magnesium	52.0	50.0	mg/kg	104	90.0 - 110		0012726561
Potassium	50.4	50.0	mg/kg	101	90.0 - 110		0012726561
Potassium	50.4	50.0	mg/kg	101	90.0 - 110		0012726556
Potassium	50.3	50.0	mg/kg	101	90.0 - 110		0012726551
Potassium	50.9	50.0	mg/kg	102	90.0 - 110		0012726548
Sodium	48.3	50.0	mg/kg	96.6	90.0 - 110		0012726551
Sodium	48.1	50.0	mg/kg	96.2	90.0 - 110		0012726556
Sodium	48.3	50.0	mg/kg	96.6	90.0 - 110		0012726561
Sodium	48.2	50.0	mg/kg	96.4	90.0 - 110		0012726548
Total Iron	5.17	5.00	mg/kg	103	90.0 - 110		0012726548
Total Iron	5.29	5.00	mg/kg	106	90.0 - 110		0012726561
Total Iron	5.30	5.00	mg/kg	106	90.0 - 110		0012726551
Total Iron	5.38	5.00	mg/kg	108	90.0 - 110		0012726556

Dir. SPKD

Parameter	Sample	DSPK	DSPKD	UNK	Known	Limits%	DSPK%	DSPKD%	Units	RPD	Limit%
Calcium	261786	20200	20500	15900	4760	70.0 - 130	90.3	96.6	mg/kg	6.74	20.0
Magnesium	261786	7420	7530	3420	4760	70.0 - 130	84.0	86.3	mg/kg	2.70	20.0
Potassium	261786	5130	5140	703	4760	70.0 - 130	93.0	93.2	mg/kg	0.215	20.0
Sodium	261786	6330	6380	2230	4760	70.0 - 130	86.1	87.2	mg/kg	1.27	20.0
Total Iron	261786	6460	6530	6090	476	70.0 - 130	77.7	92.4	mg/kg	17.3	20.0

Direct SPK

Parameter	Sample	DSPK	UNK	Known	Limits%	DSPK%	Units
Calcium	261786	20200	15900	4760	70.0 - 130	90.3	mg/kg 20.0
Magnesium	261786	7420	3420	4760	70.0 - 130	84.0	mg/kg 20.0
Potassium	261786	5130	703	4760	70.0 - 130	93.0	mg/kg 20.0
Sodium	261786	6330	2230	4760	70.0 - 130	86.1	mg/kg 20.0
Total Iron	261786	6460	6090	476	70.0 - 130	77.7	mg/kg 20.0

ICL

Parameter	Reading	Known	Units	Recover%	Limits%	Out	File
Calcium	99.6	100	mg/kg	99.6	95.0 - 105		0012726546
Magnesium	99.7	100	mg/kg	99.7	95.0 - 105		0012726546
Potassium	100	100	mg/kg	100	95.0 - 105		0012726546
Sodium	99.9	100	mg/kg	99.9	95.0 - 105		0012726546
Total Iron	9.94	10.0	mg/kg	99.4	95.0 - 105		0012726546

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TESTING #0637-01



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Printed 01/19/2011 Page 11 of 14

Report No.

Matt Masten
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Additional Testing

M Soil **6010B**

ICV

Parameter	Reading	Known	Units	Recover%	Limits%	Out	File
Calcium	51.0	50.0	mg/kg	102	90.0 - 110		0012726547
Magnesium	50.5	50.0	mg/kg	101	90.0 - 110		0012726547
Potassium	50.1	50.0	mg/kg	100	90.0 - 110		0012726547
Sodium	47.4	50.0	mg/kg	94.8	90.0 - 110		0012726547
Total Iron	5.15	5.00	mg/kg	103	90.0 - 110		0012726547

O Soil **8330**

Blank

Parameter	PrepSet	Reading	MDL	MDL	Units	Out	File
1,3,5-Trinitrobenzene	397268	ND	0.024	0.250	ug/L		0012492139
2,4,6-Trinitrotoluene	397268	ND	0.0175	0.250	ug/L		0012492139
2,4-Dinitrotoluene	397268	ND	0.0227	0.250	ug/L		0012492139
2,6-Dinitrotoluene	397268	ND	0.024	0.250	ug/L		0012492139
2-Amino-4,6-dinitrotoluene	397268	ND	0.0199	0.250	ug/L		0012492139
2-Nitrotoluene	397268	ND	0.162	0.250	ug/L		0012492139
3-Nitrotoluene	397268	ND	0.0312	0.250	ug/L		0012492139
4-Amino-2,6-dinitrotoluene	397268	ND	0.0206	0.250	ug/L		0012492139
4-Nitrotoluene	397268	ND	0.0752	0.250	ug/L		0012492139
Dinitrobenzene, 1,3-	397268	ND	0.0301	0.250	ug/L		0012492139
HMX	397268	ND	0.0687	0.250	ug/L		0012492139
Nitrobenzene	397268	ND	0.0217	0.250	ug/L		0012492139
RDX	397268	ND	0.0436	0.250	ug/L		0012492139
Tetryl	397268	ND	0.0375	0.250	ug/L		0012492139

CCV

Parameter	Reading	Known	Units	Recover%	Limits%	Out	File
1,3,5-Trinitrobenzene	499	500	ug/L	99.8	80.0 - 120		0012492148
1,3,5-Trinitrobenzene	493	500	ug/L	98.6	80.0 - 120		0012492132
2,4,6-Trinitrotoluene	403	500	ug/L	80.6	80.0 - 120		0012492148
2,4,6-Trinitrotoluene	402	500	ug/L	80.4	80.0 - 120		0012492132
2,4-Dinitrotoluene	463	500	ug/L	92.6	80.0 - 120		0012492148
2,4-Dinitrotoluene	461	500	ug/L	92.2	80.0 - 120		0012492132
2,6-Dinitrotoluene	452	500	ug/L	90.4	80.0 - 120		0012492148
2,6-Dinitrotoluene	451	500	ug/L	90.2	80.0 - 120		0012492132
2-Amino-4,6-dinitrotoluene	456	500	ug/L	91.2	80.0 - 120		0012492148
2-Amino-4,6-dinitrotoluene	456	500	ug/L	91.2	80.0 - 120		0012492132
2-Nitrotoluene	498	500	ug/L	99.6	80.0 - 120		0012492148
2-Nitrotoluene	469	500	ug/L	93.8	80.0 - 120		0012492132

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TESTING #0637-01

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Quality Control

Printed 01/19/2011 Page 12 of 14

Project



Additional Testing

Report ID

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O Soil 8330

CCV

Parameter	Reading	Known	Units	Recover%	Limits%	Out	File
3-Nitrotoluene	464	500	ug/L	92.8	80.0 - 120		0012492148
3-Nitrotoluene	448	500	ug/L	89.6	80.0 - 120		0012492132
4-Amino-2,6-dinitrotoluene	453	500	ug/L	90.6	80.0 - 120		0012492148
4-Amino-2,6-dinitrotoluene	452	500	ug/L	90.4	80.0 - 120		0012492132
4-Nitrotoluene	487	500	ug/L	97.4	80.0 - 120		0012492148
4-Nitrotoluene	451	500	ug/L	90.2	80.0 - 120		0012492132
Dinitrobenzene, 1,3-	441	500	ug/L	88.2	80.0 - 120		0012492148
Dinitrobenzene, 1,3-	439	500	ug/L	87.8	80.0 - 120		0012492132
HMX	470	500	ug/L	94.0	80.0 - 120		0012492148
HMX	470	500	ug/L	94.0	80.0 - 120		0012492132
Nitrobenzene	460	500	ug/L	92.0	80.0 - 120		0012492132
Nitrobenzene	462	500	ug/L	92.4	80.0 - 120		0012492148
RDX	457	500	ug/L	91.4	80.0 - 120		0012492148
RDX	461	500	ug/L	92.2	80.0 - 120		0012492132
Tetryl	397	500	ug/L	79.4	80.0 - 120	*	0012492148
Tetryl	402	500	ug/L	80.4	80.0 - 120		0012492132

LCS

Parameter	PrepSet	Reading	Known	Units	Recover%	Limits	File	Out
1,3,5-Trinitrobenzene	397268	5.40	5.00	ug/L	108	71.3 - 125	0012492140	
2,4,6-Trinitrotoluene	397268	5.18	5.00	ug/L	104	65.4 - 122	0012492140	
2,4-Dinitrotoluene	397268	5.22	5.00	ug/L	104	68.0 - 123	0012492140	
2,6-Dinitrotoluene	397268	5.05	5.00	ug/L	101	66.5 - 126	0012492140	
2-Amino-4,6-dinitrotoluene	397268	5.09	5.00	ug/L	102	66.9 - 123	0012492140	
2-Nitrotoluene	397268	5.20	5.00	ug/L	104	70.6 - 119	0012492140	
3-Nitrotoluene	397268	4.99	5.00	ug/L	99.8	71.0 - 119	0012492140	
4-Amino-2,6-dinitrotoluene	397268	5.07	5.00	ug/L	101	62.5 - 135	0012492140	
4-Nitrotoluene	397268	5.04	5.00	ug/L	101	72.2 - 121	0012492140	
Dinitrobenzene, 1,3-	397268	4.82	5.00	ug/L	96.5	71.2 - 112	0012492140	
HMX	397268	5.14	5.00	ug/L	103	73.1 - 122	0012492140	
Nitrobenzene	397268	5.01	5.00	ug/L	100	73.8 - 113	0012492140	
RDX	397268	5.05	5.00	ug/L	101	75.1 - 124	0012492140	
Tetryl	397268	5.65	5.00	ug/L	113	51.1 - 131	0012492140	

MS

Parameter	Sample	MS	MSD	UNK	Known	Limits	MS%	MSD%	Units	RPD	Limit%
1,3,5-Trinitrobenzene	240798	5500	0	ND	5000	6.54 - 177	110		ug/L		30.0
2,4,6-Trinitrotoluene	240798	4970	0	ND	5000	1.61 - 177	99.4		ug/L		30.0

Corporate Shipping: 2600 Dudley Rd. Kilgore, TX 75662



TESTING #0637-01



NELAP-accredited #T104704201



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Quality Control

Printed 01/19/2011 Page 13 of 14

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Additional Testing

O **8330**

MS

Parameter	Sample	MS	MSD	UNK	Known	Limits	MS%	MSD%	Units	RPD	Limit%
2,4-Dinitrotoluene	240798	5340	0	ND	5000	2.60 - 180	107		ug/L		30.0
2,6 Dinitrotoluene	240798	5180	0	ND	5000	2.09 - 173	104		ug/L		30.0
2-Amino-4,6-dinitrotoluene	240798	5250	0	ND	5000	4.60 - 170	105		ug/L		30.0
2-Nitrotoluene	240798	5260	0	ND	5000	6.88 - 169	105		ug/L		30.0
3-Nitrotoluene	240798	5180	0	ND	5000	2.81 - 174	104		ug/L		30.0
4-Amino-2,6-dinitrotoluene	240798	5030	0	ND	5000	4.08 - 178	101		ug/L		30.0
4-Nitrotoluene	240798	5090	0	ND	5000	5.94 - 169	102		ug/L		30.0
Dinitrobenzene, 1,3-	240798	4980	0	ND	5000	11.1 - 166	99.6		ug/L		30.0
HMX	240798	5320	0	111	5000	6.50 - 172	104		ug/L		30.0
Nitrobenzene	240798	5060	0	ND	5000	59.5 - 136	101		ug/L		30.0
RDX	240798	5000	0	ND	5000	10.4 - 174	100		ug/L		30.0
Tetryl	240798	61.3	0	ND	5000	0.100 - 176	1.23		ug/L		30.0

MSD

Parameter	Sample	MS	MSD	UNK	Known	Limits	MS%	MSD%	Units	RPD	Limit%
1,3,5 Trinitrobenzene	240798	5500	5460	ND	5000	6.54 - 177	110	109	ug/L	0.913	30.0
2,4,6-Trinitrotoluene	240798	4970	4940	ND	5000	1.61 - 177	99.4	98.8	ug/L	0.605	30.0
2,4-Dinitrotoluene	240798	5340	5410	ND	5000	2.60 - 180	107	108	ug/L	0.930	30.0
2,6 Dinitrotoluene	240798	5180	5180	ND	5000	2.09 - 173	104	104	ug/L	0	30.0
2-Amino-4,6-dinitrotoluene	240798	5250	5240	ND	5000	4.60 - 170	105	105	ug/L	0	30.0
2-Nitrotoluene	240798	5260	5280	ND	5000	6.88 - 169	105	106	ug/L	0.948	30.0
3-Nitrotoluene	240798	5180	5180	ND	5000	2.81 - 174	104	104	ug/L	0	30.0
4-Amino-2,6-dinitrotoluene	240798	5030	5020	ND	5000	4.08 - 178	101	100	ug/L	0.995	30.0
4-Nitrotoluene	240798	5090	5100	ND	5000	5.94 - 169	102	102	ug/L	0	30.0
Dinitrobenzene, 1,3-	240798	4980	4950	ND	5000	11.1 - 166	99.6	99.0	ug/L	0.604	30.0
HMX	240798	5320	5400	111	5000	6.50 - 172	104	106	ug/L	1.90	30.0
Nitrobenzene	240798	5060	5020	ND	5000	59.5 - 136	101	100	ug/L	0.995	30.0
RDX	240798	5000	4960	ND	5000	10.4 - 174	100	99.2	ug/L	0.803	30.0
Tetryl	240798	61.3	77.1	ND	5000	0.100 - 176	1.23	1.54	ug/L	22.4	30.0

Surrogate

Parameter	Sample	Type	Reading	Known	Units	Recover%	Limits%	File
3,4-DNT	240798	MS	4770	5000	ug/L	95.4	51.0 - 137	0012492143
3,4-DNT	240798	UNKNOWN	4460	5000	ug/L	89.2	51.0 - 137	0012492144
3,4-DNT	240798	MSD	4740	5000	ug/L	94.8	51.0 - 137	0012492145
3,4-DNT	397268	LCS	982	1000	ug/L	98.2	51.0 - 137	0012492140
3,4-DNT	397268	Blank	871	1000	ug/L	87.1	51.0 - 137	0012492139

W **SM 2540 G, 20th Ed.**

Corporate Shipping: 2600 Dudley Rd. Kilgore, TX 75662



TESTING #0637-01

LDSChem v1.0.2.393



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Ana-Lab Corp. P.O. Box 9000 Kilgore, TX 75663

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Employee Owned Integrity Caring

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Continual Improvement

Quality Control

Printed 01/19/2011 Page 14 of 14

Project



Report To

Matt Masten
U.S. Army Engineer District, A
4101 Jefferson Plaza NE
Albuquerque, NM 87109-3435

Additional Testing

W SM 2540 G, 20th Ed.

ControlBlk

Parameter	PrepSet	Reading	MDL	MDL	Units	Out	File
Total Solids	397462	-0.0001			grams		0012487459

Duplicate

Parameter	Sample	Type	Result	Unknown	Unit	RPD	Out	Limit%
Total Solids	240798	Duplicate	89.6	91.8	%	2.43		20.0
Total Solids	240799	Duplicate	86.8	87.1	%	0.345		20.0

RPD is Relative Percent Difference: $\text{abs}(r1-r2) / \text{mean}(r1,r2) * 100\%$

Recover% is Recovery Percent: $\text{result} / \text{known} * 100\%$

Corporate Shipping: 2600 Dudley Rd, Kilgore, TX 75662



TESTING #0637-01

LDSClient v1.0.2.393



NELAP-accredited #T104704201

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Chain of Custody

2600 Dudley Rd
PO Box 9609
Kilgore, TX 75662
903.944.9811
(940) 962.9441
E-mail: corp@ana-lab.com

ANA-LAB
THE COMPLETE SERVICE LAB

Pin Handle Oklahoma North-TX Central-TX
903.365.9526 406.292.6810 972.822.8900 512.631.0444

Rio Grand Valley Louisiana Gulf Coast
903.311.4437 318.318.3000 281.331.8414

F1 Wingate Groundwater Monitor 10/20/10

503730 1 TCLP Metals 6010/8020

Ana-Lab 2 Total Metals 6010/8020

Streeter 3 Perchlorate 6850

PO Box 9000 4 Explosives 8330

5

6

7

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LAB NUMBER	Field Identification	Date	Time	Matrix	Number of Containers	1	2	3	4	5	6	7	8	9	10	HOLD
60091	soil	10/28/10	1116	soil	4	X	X	X	X							
60092	soil	10/28/10	1116	soil	8	X	X	X	X							

Accompanied by: *Henry* Date: 10/28/10 Time: 1430

Requisitioned by: *FedEx* Date: 10/21/10 Time: 0905

Received by: *David Jackson* Date: 10/21/10 Time: 0905

Method of Shipment: YES NO BUS FED EX UPS Hand Delivered Other

Tracking or Shipment Number: 856084918310

Comments:

Sample analysis will be provided according to Ana-lab's Standard Terms and Conditions of Agreement, available upon request and at ana-lab.com. Any other terms proposed by client are deemed material alterations and are rejected unless expressly agreed to in writing by Ana-lab.

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 003233
 003632
 003688

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515208 CoC Print Group 001 of 001

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FedExSM **US Airbill**
Express

8660 6491 6310

0200

FedEx Retrieval Copy

1 From

Date: 10/20/10 Sender's FedEx Account Number: 240324229
 Sender's Name: Matt Maston Phone: 505 342 3363
 Company: USACE
 Address: 4101 Jefferson Plaza NE
 City: Albuquerque NM 87109

2 Your Internal Billing Reference: Log - 20 E

3 To

Recipient's Name: ANA Lab Corp Phone: 903 984 0551
 Recipient's Address: 2600 Dudley Rd
 City: Kilgore TX ZIP: 75663

Address: _____
 City: _____ State: _____ ZIP: _____

4a Express Package Services

FedEx Priority Overnight FedEx Standard Overnight FedEx 2Day Overnight
 FedEx 2Day FedEx Express Saver
 FedEx Freight FedEx Home Delivery

4b Express Freight Services

FedEx Freight FedEx Home Delivery

5 Packaging

FedEx Envelope FedEx Tube Other

6 Special Handling

Saturday Delivery Signature Required Signature Required (Adult)
 Signature Required (Commercial)
 Signature Required (Government)
 Signature Required (Restricted)

7 Payment

Prepaid Recipient Third Party Credit Card Cash/Check

8 Residential Delivery Signature Options

No Signature Required Direct Signature Adult Signature Restricted Signature

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