



# Results

**Report To**

Explosive Service Intl.  
Dean Schellhase  
9985 Baringer Foreman Rd  
Baton Rouge, LA 70809

Account  
**ESIL-L**

Project  
**739554**

## Results

Parameter	Results	Units	RL	Flags	MAL	CAS	Bottle
<b>1489031 Powder from Bag House</b>		<i>Received:</i> 05/05/2016					
olid & Chemical Material		<i>Collected by:</i> Client	<i>Affiliation:</i> Explosive Service In	05/05/2016	13:00:00		
<i>Prepared:</i>		<b>661304</b>	<i>05/06/2016</i>	<i>12:45:00</i>			
EPA 6010C		Analyzed	LPS 05/09/2016	16:33:00	QCgroup	661566	
N Phosphorus	28.7	mg/kg	24.3		7723-14-0		02
<i>Prepared:</i>		<b>661304</b>	<i>05/06/2016</i>	<i>12:45:00</i>			
EPA 6020A		Analyzed	CLK 05/06/2016	22:37:00	QCgroup	661428	
N Aluminum, Total	52.2	mg/kg	1.21		7429-90-5		02
N Barium	9.81	mg/kg	0.728		440 7440-39-3		02
z Calcium	2820	mg/kg	12.1		7440-70-2		02
N Chromium, Total	25.7	mg/kg	0.243		2400 7440-47-3		02
N Copper, Total	173	mg/kg	0.243		1000 7440-50-8		02
z Iron	1320	mg/kg	12.1		7439-89-6		02
N Lead, Total	248	mg/kg	0.243		6.30 7439-92-1		02
z Magnesium	711	mg/kg	12.1		7439-95-4		02
N Manganese, Total	21.2	mg/kg	0.243		1200 7439-96-5		02
N Molybdenum	2.60	mg/kg	0.243		155 7439-98-7		02
N Nickel, Total	10.3	mg/kg	0.243		160 7440-02-0		02
N Zinc, Total	44.2	mg/kg	1.21		2400 7440-66-6		02
EPA 6020A		Analyzed	CLK 05/10/2016	15:05:00	QCgroup	661781	
z Potassium	429000	mg/kg	243		7440-09-7		02
<i>Prepared:</i>		<b>661304</b>	<i>05/06/2016</i>	<i>12:45:00</i>			
EPA 6020B		Analyzed	CLK 05/06/2016	22:37:00	QCgroup	661428	
z Sodium	3620	mg/kg	24.3		7440-23-5		02
<i>Prepared:</i>		<b>662125</b>	<i>05/12/2016</i>	<i>08:55:24</i>			
EPA 9056		Analyzed	AMB 05/13/2016	20:22:00	QCgroup	662688	
N Chloride (water extractable)	<6000	mg/kg	6000				03
N Fluoride (water extractable)	<2000	mg/kg	2000				03
N Nitrate-Nitrogen	<452	mg/kg	452		14797-55-8		03
N Nitrite-Nitrogen	<608	mg/kg	608				03
N Sulfate (water extractable)	471000	mg/kg	6000				03

## Sample Preparation

**1489031 Powder from Bag House**

*Received:* 05/05/2016





# Results

## Sample Preparation

**1489031** Powder from Bag House

Received: 05/05/2016

		Prepared:		12/31/1899		00:00:00	
z	ICP Metals Scan		COMPLETE	Analyzed LPS		00:00:00	QCgroup
EPA 200.2 2.8		Prepared:	661304	05/06/2016		12:45:00	
N	Solid Metals Digestion		50/1.03	Analyzed TES 05/06/2016		12:45:00	QCgroup 661304
							01
		Prepared:	662125	05/12/2016		08:55:24	
EPA 9056				Analyzed DRW 05/12/2016		08:55:24	QCgroup 662125
N	Water Extract-Ion Chromatography		50/5				
							01

### Qualifiers:

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, 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. The Accredited column designates accreditation by N -- NELAC, or z -- not covered under 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. RL is our Reporting Limit, or Minimum Quantitation Level. The RL takes into account the Instrument Detection Limit (IDL), Method Detection Limit (MDL), and Practical Quantitation Limit (PQL), and any dilutions and/or concentrations performed during sample preparation (EQL). Our analytical result must be above this RL before we report a value in the 'Results' column of our report (without a 'J' flag). Otherwise, we report ND (Not Detected above RL), because the result is "<" (less than) the number in the RL column. MAL is Minimum Analytical Level and is typically from regulatory agencies. Unless we report a result in the result column, or interferences prevent it, we work to have our RL at or below the MAL.

Paul Zhang, Ph.D., Quality Director





# Quality Control

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**Report To**

Explosive Service Intl.  
Dean Schellhase  
9985 Baringer Foreman Rd  
Baton Rouge, LA 70809

**SOLID**

Account  
**ESIL -L**

Project  
**739554**

**662337 Solid & Chemical Materials**

**EPA 9056**

**Blank**

Parameter	PrepSet	Reading	MDL	SQL	Units	File	Out
Chloride (water extractable)	662125	ND	0.0534	0.300	mg/kg	116532354	

**LCS**

Parameter	PrepSet	Reading	Known	Units	Recover%	Limits	File	Out
Chloride (water extractable)	662125	1.01	1.00	mg/kg	101	84.0 - 110	116532352	

**LCS Dup**

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
Chloride (water extractable)	662125	1.01	1.01	1.00	84.0 - 110	101	101	mg/kg	0	20.0

**MS**

Parameter	Sample	MS	MSD	UNK	Known	Limits	MS%	MSD%	Units	RPD	Limit%
Chloride (water extractable)	1489632	11.1		0.676	10.0	80.0 - 120	104		mg/kg		20.0

**MSD**

Parameter	Sample	MS	MSD	UNK	Known	Limits	MS%	MSD%	Units	RPD	Limit%
Chloride (water extractable)	1489632	11.1	10.9	0.676	10.0	80.0 - 120	104	102	mg/kg	1.94	20.0

**662338 Solid & Chemical Materials**

**EPA 9056**

**Blank**

Parameter	PrepSet	Reading	MDL	SQL	Units	File	Out
Fluoride (water extractable)	662125	ND	0.00311	0.100	mg/kg	116532376	

**LCS**

Parameter	PrepSet	Reading	Known	Units	Recover%	Limits	File	Out
Fluoride (water extractable)	662125	1.04	1.00	mg/kg	104	82.0 - 107	116532374	

**LCS Dup**

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
Fluoride (water extractable)	662125	1.04	1.01	1.00	82.0 - 107	104	101	mg/kg	2.93	20.0

**MS**

Parameter	Sample	MS	MSD	UNK	Known	Limits	MS%	MSD%	Units	RPD	Limit%
Fluoride (water extractable)	1489632	8.01		ND	10.0	80.0 - 120	80.1		mg/kg		20.0

**MSD**

Parameter	Sample	MS	MSD	UNK	Known	Limits	MS%	MSD%	Units	RPD	Limit%
Fluoride (water extractable)	1489632	8.01	8.04	ND	10.0	80.0 - 120	80.1	80.4	mg/kg	0.374	20.0

**662688 Solid & Chemical Materials**

**EPA 9056**

**CCV**

Parameter	Reading	Known	Units	Recover%	Limits%	Out	File
Chloride (water extractable)	9.91	10.0	mg/kg	99.1	90.0 - 110		116537586
Chloride (water extractable)	9.95	10.0	mg/kg	99.5	90.0 - 110		116537588
Fluoride (water extractable)	9.81	10.0	mg/kg	98.1	90.0 - 110		116537586





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## CCV

Parameter	Reading	Known	Units	Recover%	Limits%	Out	File
Fluoride (water extractable)	9.77	10.0	mg/kg	97.7	90.0 - 110		116537588
Nitrate-Nitrogen	2.34	2.26	mg/kg	104	90.0 - 110		116537586
Nitrate-Nitrogen	2.36	2.26	mg/kg	104	90.0 - 110		116537588
Nitrite-Nitrogen	2.99	3.04	mg/kg	98.4	90.0 - 110		116537586
Nitrite-Nitrogen	3.02	3.04	mg/kg	99.3	90.0 - 110		116537588
Sulfate (water extractable)	9.64	10.0	mg/kg	96.4	90.0 - 110		116537586
Sulfate (water extractable)	9.43	10.0	mg/kg	94.3	90.0 - 110		116537588

## 661425 Solid & Chemical Materials

EPA 6020A

### Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File	Out
Aluminum, Total	661304	0.00263	0.000592	0.005	mg/kg	116515191	*
Chromium, Total	661304	ND	0.000264	0.001	mg/kg	116515191	
Copper, Total	661304	0.000189	0.000134	0.001	mg/kg	116515191	
Lead, Total	661304	ND	0.00004460	0.001	mg/kg	116515191	
Molybdenum	661304	ND	0.000186	0.001	mg/kg	116515191	
Nickel, Total	661304	ND	0.000441	0.001	mg/kg	116515191	
Zinc, Total	661304	ND	0.0011	0.005	mg/kg	116515191	

### Dir. SPKD

Parameter	Sample	DSPK	DSPKD	UNK	Known	Limits%	DSPK%	DSPKD%	Units	RPD	Limit%
Aluminum, Total	1487774	3350	3360	3220	123	80.0 - 120	106	114	mg/kg	0.298	20.0
Chromium, Total	1487774	111	113	3.46	123	80.0 - 120	87.4	89.1	mg/kg	1.79	20.0
Copper, Total	1487774	126	126	12.5	123	80.0 - 120	92.3	92.3	mg/kg	0	20.0
Lead, Total	1487774	113	117	1.13	123	80.0 - 120	91.0	94.2	mg/kg	3.48	20.0
Molybdenum	1487774	91.5	90.7	0.179	123	80.0 - 120 * *	74.2 *	73.6 *	mg/kg	0.878	20.0
Nickel, Total	1487774	108	110	1.16	123	80.0 - 120	86.9	88.5	mg/kg	1.83	20.0
Zinc, Total	1487774	136	136	26.1	123	80.0 - 120	89.3	89.3	mg/kg	0	20.0

### Direct SPK

Parameter	Sample	DSPK	UNK	Known	Limits%	DSPK%	Units
Aluminum, Total	1487774	3350	3220	123	80.0 - 120	106	mg/kg 20.0
Chromium, Total	1487774	111	3.46	123	80.0 - 120	87.4	mg/kg 20.0
Copper, Total	1487774	126	12.5	123	80.0 - 120	92.3	mg/kg 20.0
Lead, Total	1487774	113	1.13	123	80.0 - 120	91.0	mg/kg 20.0
Molybdenum	1487774	91.5	0.179	123	80.0 - 120	74.2 *	mg/kg 20.0
Nickel, Total	1487774	108	1.16	123	80.0 - 120	86.9	mg/kg 20.0
Zinc, Total	1487774	136	26.1	123	80.0 - 120	89.3	mg/kg 20.0

### LCS

Parameter	PrepSet	Reading	Known	Units	Recover%	Limits	File	Out
Aluminum, Total	661304	2.35	2.50	mg/kg	94.0	80.5 - 116	116515192	
Chromium, Total	661304	2.38	2.50	mg/kg	95.2	84.7 - 112	116515192	
Copper, Total	661304	2.37	2.50	mg/kg	94.8	85.4 - 109	116515192	
Lead, Total	661304	2.64	2.50	mg/kg	106	86.4 - 111	116515192	
Molybdenum	661304	4.91	5.00	mg/kg	98.2	90.1 - 116	116515192	
Nickel, Total	661304	2.43	2.50	mg/kg	97.2	82.4 - 110	116515192	
Zinc, Total	661304	2.35	2.50	mg/kg	94.0	82.9 - 113	116515192	

### LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
Aluminum, Total	661304	2.35	2.34	2.50	80.5 - 116	94.0	93.6	mg/kg	0.426	20.0





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## LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
Chromium, Total	661304	2.38	2.36	2.50	84.7 - 112	95.2	94.4	mg/kg	0.844	20.0
Copper, Total	661304	2.37	2.38	2.50	85.4 - 109	94.8	95.2	mg/kg	0.421	20.0
Lead, Total	661304	2.64	2.64	2.50	86.4 - 111	106	106	mg/kg	0	20.0
Molybdenum	661304	4.91	4.85	5.00	90.1 - 116	98.2	97.0	mg/kg	1.23	20.0
Nickel, Total	661304	2.43	2.39	2.50	82.4 - 110	97.2	95.6	mg/kg	1.66	20.0
Zinc, Total	661304	2.35	2.34	2.50	82.9 - 113	94.0	93.6	mg/kg	0.426	20.0

## MS

Parameter	Sample	MS	MSD	UNK	Known	Limits	MS%	MSD%	Units	RPD	Limit%
Aluminum, Total	1487774	3090	0	3130	24.9	70.0 - 130	0 *		mg/kg		20.0
Chromium, Total	1487774	26.1	0	3.46	24.9	62.8 - 120	90.9		mg/kg		20.0
Copper, Total	1487774	32.7	0	10.9	24.9	50.0 - 125	87.6		mg/kg		20.0
Lead, Total	1487774	26.6	0	1.16	24.9	51.4 - 133	102		mg/kg		20.0
Molybdenum	1487774	43.6	0	0.173	49.7	66.9 - 133	87.4		mg/kg		20.0
Nickel, Total	1487774	24.6	0	1.18	24.9	62.7 - 113	94.1		mg/kg		20.0
Zinc, Total	1487774	45.7	0	23.2	24.9	48.0 - 127	90.4		mg/kg		20.0

## MSD

Parameter	Sample	MS	MSD	UNK	Known	Limits	MS%	MSD%	Units	RPD	Limit%
Aluminum, Total	1487774	3090	3120	3130	24.5	70.0 - 130	-161 *	-40.2 *	mg/kg	0.966	20.0
Chromium, Total	1487774	26.1	25.7	3.46	24.5	62.8 - 120	90.9	89.3	mg/kg	1.78	20.0
Copper, Total	1487774	32.7	32.5	10.9	24.5	50.0 - 125	87.6	86.7	mg/kg	0.922	20.0
Lead, Total	1487774	26.6	26.0	1.16	24.5	51.4 - 133	102	99.8	mg/kg	2.39	20.0
Molybdenum	1487774	43.6	43.1	0.173	48.9	66.9 - 133	87.4	86.4	mg/kg	1.16	20.0
Nickel, Total	1487774	24.6	24.0	1.18	24.5	62.7 - 113	94.1	91.6	mg/kg	2.60	20.0
Zinc, Total	1487774	45.7	45.2	23.2	24.5	48.0 - 127	90.4	88.4	mg/kg	2.25	20.0

## 661426 Solid & Chemical Materials

EPA 6020A

### Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File	Out
Barium	661304	ND	0.00241	0.003	mg/kg	116515252	

### LCS

Parameter	PrepSet	Reading	Known	Units	Recover%	Limits	File	Out
Barium	661304	2.40	2.50	mg/kg	96.0	88.6 - 110	116515253	

### LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
Barium	661304	2.40	2.38	2.50	88.6 - 110	96.0	95.2	mg/kg	0.837	20.0

### MS

Parameter	Sample	MS	MSD	UNK	Known	Limits	MS%	MSD%	Units	RPD	Limit%
Barium	1487774	118	0	95.5	24.9	0.100 - 235	90.4		mg/kg		20.0

### MSD

Parameter	Sample	MS	MSD	UNK	Known	Limits	MS%	MSD%	Units	RPD	Limit%
Barium	1487774	118	117	95.5	24.5	0.100 - 235	90.4	86.3	mg/kg	4.55	20.0

## 661428 Solid & Chemical Materials

EPA 6020A

### CCV

Parameter	Reading	Known	Units	Recover%	Limits%	Out	File
Aluminum, Total	0.0525	0.05	mg/kg	105	90.0 - 110		116515382





# Quality Control

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## CCV

<u>Parameter</u>	<u>Reading</u>	<u>Known</u>	<u>Units</u>	<u>Recover%</u>	<u>Limits%</u>	<u>Out</u>	<u>File</u>
Aluminum, Total	0.0533	0.05	mg/kg	107	90.0 - 110		116515387
Barium	0.0495	0.05	mg/kg	99.0	90.0 - 110		116515382
Barium	0.0496	0.05	mg/kg	99.2	90.0 - 110		116515387
Calcium	5.16	5	mg/kg	103	90.0 - 110		116515382
Calcium	5.22	5	mg/kg	104	90.0 - 110		116515387
Chromium, Total	0.049	0.05	mg/kg	98.0	90.0 - 110		116515382
Chromium, Total	0.0488	0.05	mg/kg	97.6	90.0 - 110		116515387
Copper, Total	0.0489	0.05	mg/kg	97.8	90.0 - 110		116515382
Copper, Total	0.0492	0.05	mg/kg	98.4	90.0 - 110		116515387
Iron	5.07	5	mg/kg	101	90.0 - 110		116515382
Iron	5.07	5	mg/kg	101	90.0 - 110		116515387
Lead, Total	0.0516	0.05	mg/kg	103	90.0 - 110		116515382
Lead, Total	0.0507	0.05	mg/kg	101	90.0 - 110		116515387
Magnesium	4.71	5	mg/kg	94.2	90.0 - 110		116515382
Magnesium	4.74	5	mg/kg	94.8	90.0 - 110		116515387
Manganese, Total	0.050	0.05	mg/kg	100	90.0 - 110		116515382
Manganese, Total	0.050	0.05	mg/kg	100	90.0 - 110		116515387
Molybdenum	0.0491	0.05	mg/kg	98.2	90.0 - 110		116515382
Molybdenum	0.0488	0.05	mg/kg	97.6	90.0 - 110		116515387
Nickel, Total	0.0487	0.05	mg/kg	97.4	90.0 - 110		116515382
Nickel, Total	0.0487	0.05	mg/kg	97.4	90.0 - 110		116515387
Sodium	4.87	5	mg/kg	97.4	90.0 - 110		116515382
Sodium	4.94	5	mg/kg	98.8	90.0 - 110		116515387
Zinc, Total	0.051	0.05	mg/kg	102	90.0 - 110		116515382
Zinc, Total	0.0516	0.05	mg/kg	103	90.0 - 110		116515387

## ICV

<u>Parameter</u>	<u>Reading</u>	<u>Known</u>	<u>Units</u>	<u>Recover%</u>	<u>Limits%</u>	<u>Out</u>	<u>File</u>
Aluminum, Total	0.0506	0.05	mg/kg	101	90.0 - 110		116515329
Barium	0.0523	0.05	mg/kg	105	90.0 - 110		116515329
Calcium	5.31	5	mg/kg	106	90.0 - 110		116515329
Chromium, Total	0.0514	0.05	mg/kg	103	90.0 - 110		116515329
Copper, Total	0.0511	0.05	mg/kg	102	90.0 - 110		116515329
Iron	5.36	5	mg/kg	107	90.0 - 110		116515329
Lead, Total	0.0525	0.05	mg/kg	105	90.0 - 110		116515329
Magnesium	5.22	5	mg/kg	104	90.0 - 110		116515329
Manganese, Total	0.0517	0.05	mg/kg	103	90.0 - 110		116515329
Molybdenum	0.0507	0.05	mg/kg	101	90.0 - 110		116515329
Nickel, Total	0.0526	0.05	mg/kg	105	90.0 - 110		116515329
Sodium	5.16	5	mg/kg	103	90.0 - 110		116515329
Zinc, Total	0.0511	0.05	mg/kg	102	90.0 - 110		116515329

### 661566 Solid & Chemical Materials

EPA 6010C

#### Blank

<u>Parameter</u>	<u>PrepSet</u>	<u>Reading</u>	<u>MDL</u>	<u>MQL</u>	<u>Units</u>	<u>File</u>	<u>Out</u>
Phosphorus	661304	ND	0.016	0.100	mg/kg	116517787	

#### CCV

<u>Parameter</u>	<u>Reading</u>	<u>Known</u>	<u>Units</u>	<u>Recover%</u>	<u>Limits%</u>	<u>Out</u>	<u>File</u>
Phosphorus	9.65	10.0	mg/kg	96.5	90.0 - 110		116517786
Phosphorus	9.85	10.0	mg/kg	98.5	90.0 - 110		116517794





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## CCV

Parameter	Reading	Known	Units	Recover%	Limits%	Out	File
Phosphorus	9.97	10.0	mg/kg	99.7	90.0 - 110		116517802

## ICL

Parameter	Reading	Known	Units	Recover%	Limits%	Out	File
Phosphorus	25.3	25.0	mg/kg	101	95.0 - 105		116517776

## ICV

Parameter	Reading	Known	Units	Recover%	Limits%	Out	File
Phosphorus	10.8	10.0	mg/kg	108	90.0 - 110		116517777

## LCS

Parameter	PrepSet	Reading	Known	Units	Recover%	Limits	File	Out
Phosphorus	661304	20.7	20.0	mg/kg	104	82.9 - 117	116517788	

## LCS Dup

Parameter	PrepSet	LCS	LCSD	Known	Limits%	LCS%	LCSD%	Units	RPD	Limit%
Phosphorus	661304	20.7	21.2	20.0	82.9 - 117	104	106	mg/kg	2.39	25.0

## MS

Parameter	Sample	MS	MSD	UNK	Known	Limits	MS%	MSD%	Units	RPD	Limit%
Phosphorus	1487635	983	0	70.3	885	9.75 - 188	103		mg/kg		25.0

## MSD

Parameter	Sample	MS	MSD	UNK	Known	Limits	MS%	MSD%	Units	RPD	Limit%
Phosphorus	1487635	983	1010	70.3	943	9.75 - 188	103	106	mg/kg	2.92	25.0

## 661781 Solid & Chemical Materials

EPA 6020A

### Blank

Parameter	PrepSet	Reading	MDL	MQL	Units	File	Out
Potassium	661304	ND	0.00441	0.050	mg/kg	116522378	

### CCV

Parameter	Reading	Known	Units	Recover%	Limits%	Out	File
Potassium	5.06	5	mg/kg	101	90.0 - 110		116522374
Potassium	5.33	5	mg/kg	107	90.0 - 110		116522381
Potassium	5.21	5	mg/kg	104	90.0 - 110		116522385
Potassium	5.13	5	mg/kg	103	90.0 - 110		116522390

### Dir. SPKD

Parameter	Sample	DSPK	DSPKD	UNK	Known	Limits%	DSPK%	DSPKD%	Units	RPD	Limit%
Potassium	1487774	4370	4270	117	4910	80.0 - 120	86.6	84.6	mg/kg	2.31	20.0

### Direct SPK

Parameter	Sample	DSPK	UNK	Known	Limits%	DSPK%	Units
Potassium	1487774	4370	117	4910	80.0 - 120	86.6	mg/kg

### ICV

Parameter	Reading	Known	Units	Recover%	Limits%	Out	File
Potassium	5.00	5	mg/kg	100	90.0 - 110		116522365

### LCS

Parameter	PrepSet	Reading	Known	Units	Recover%	Limits	File	Out
Potassium	661304	24.8	25.0	mg/kg	99.2	80.0 - 120	116522379	







# Quality Control

Printed 05/16/2016

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## LCS Dup

<u>Parameter</u>	<u>PrepSet</u>	<u>LCS</u>	<u>LCSD</u>	<u>Known</u>	<u>Limits%</u>	<u>LCS%</u>	<u>LCSD%</u>	<u>Units</u>	<u>RPD</u>	<u>Limit%</u>
Potassium	661304	24.8	24.4	25.0	80.0 - 120	99.2	97.6	mg/kg	1.63	20.0

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

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

Blank - Method Blank; LCS - Laboratory Control Sample; MS - Matrix Spike; CCV - Continuing Calibration Verification; ICV - Initial Calibration Verification





739554 CoC Print Group 001 of 001



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

Phone 903/984-0551 FAX 903/984-5914 e-Mail corp@ana-lab.com LELAP-accredited #02008  
Employee Owned Integrity Caring Continual Improvement

Chain of Custody

COC Printed 05/05/2016 Page 1 of 2

Report To

Explosive Service Intl.  
Dean Schellhase  
9985 Baringer Foreman Rd  
Batoin Rouge, LA 70809

ESIL -L  
107

Lab Number 1489031  
PO Number  
Phone 225/275-2152  
Fax 225/273-2029

Powder from Bag House

Matrix: Solid & Chemical Materials  
Sample Collection Start

Date: 5-5-16 Time: 1300

Sampler Printed Name: Dean Schellhase

Sampler Affiliation:

Sampler Signature:

2	Glass 4 oz w/Teflon lined lid	*ID	ICP Metals Scan	
N		301S	Solid Metals Digestion	EPA 200.2 2.8
N		TS%	Total Solids for Dry Wt	SM2540 G-1997 /MOD
0	Z1-Administrative use only: no bottle required	ARDW	As Received to Dry Weight Basis	Calculation
		BP2	See BP2	

Ambient Conditions/Comments

Date	Time	Relinquished	Received
5/5/16	1530	Printed Name: Dean Schellhase Affiliation: ANA-LAB Signature: [Signature]	Printed Name: BRENDA VARNELL Affiliation: ANA-LAB Signature: [Signature]
5/5/16	1730	Printed Name: BRENDA VARNELL Affiliation: ANA-LAB Signature: [Signature]	Printed Name: CLEMENS TRANSPORT Affiliation: [Affiliation] Signature: [Signature]
5/5/16	2000	Printed Name: CLEMENS TRANSPORT Affiliation: [Affiliation] Signature: [Signature]	Printed Name: Antonio James Ana-Lab Affiliation: Ana-Lab Signature: [Signature]
		Printed Name: [Blank] Affiliation: [Blank] Signature: [Blank]	Printed Name: [Blank] Affiliation: [Blank] Signature: [Blank]



Corporate Shipping: 2600 Dudley Rd. Kilgore, TX 75662

Ark-La-Miss Region: 4720 Viking Dr. Suite A Bossier City LA 71111



NELAP-accredited #T104704201

1  
2  
3

739554 CoC Print Group 001 of 001



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

Phone 903/984-0551 FAX 903/984-5914 e-Mail corp@ana-lab.com LELAP-accredited #02008  
Employee Owned Integrity Caring Continual Improvement

### Chain of Custody

COC Printed 05/05/2016 Page 2 of 2

**Report To**

Explosive Service Intl.  
Dean Schellhase  
9985 Baringer Foreman Rd  
Baton Rouge, LA 70809

**ESIL -L**  
**107**

Phone 225/275-2152  
Fax 225/273-2029

Sample Received on Ice?  Yes  No Method of Shipment:  UPS  Bus  FedEx  Lone Star  Hand Delivered  Other

Cooler/Sample Secure?  Yes  No Tracking/Shipping # CT 10 411

The accredited column designates accreditation by A - A2LA, N - NELAC, or z - not listed under scope of accreditation. Unless otherwise specified, ANA-LAB shall provide these ordered services pursuant to our Standard Terms & Conditions Agreement (available for download from the welcome page at <http://www.ana-lab.com>). Ana-Lab personnel collect samples as specified by Ana-Lab SOP #000323.

**Comments**

005057  CF 10-10  
005661  CF \_\_\_\_\_  
003638  CF \_\_\_\_\_

15.0c  
14.9c



Corporate Shipping: 2600 Dudley Rd. Kilgore, TX 75662

Ark-La-Miss Region: 4720 Viking Dr. Suite A Bossier City LA 71111



3 of 6

739554 CoC Print Group 001 of 001

Sample Details

<http://clientaccess.gcal.com/Secure/SampleDetails.aspx?lid=216042537...>

## Sample Report

Printed: 3/3/2016 10:49

Sample Information					
Client ID	ASH	GCAL ID	21604253701		
Collected	4/24/2016 10:00:00 AM	Due	4/26/2016 1:20:00 PM		
Status	Complete	Matrix	S		
ProjectID	Camp Minden-M6 Destruction	Type	SAMPLE		

  

Sample Results For Official Use Only					
Method	Analyte	Result	RDL	Dilution	Units
EPA 8260B	1,1,1,2-Tetrachloroethane	<5.56	5.56	1	ug/Kg
EPA 8260B	1,1,1-Trichloroethane	<5.56	5.56	1	ug/Kg
EPA 8260B	1,1,2,2-Tetrachloroethane	<5.56	5.56	1	ug/Kg
EPA 8260B	1,1,2-Trichloroethane	<5.56	5.56	1	ug/Kg
EPA 8260B	1,1-Dichloroethane	<5.56	5.56	1	ug/Kg
EPA 8260B	1,1-Dichloroethene	<5.56	5.56	1	ug/Kg
EPA 8260B	1,2-Dibromo-3-chloropropane	<5.56	5.56	1	ug/Kg
EPA 8260B	1,2-Dichloroethane	<5.56	5.56	1	ug/Kg
EPA 8260B	1,2-Dichloropropane	<5.56	5.56	1	ug/Kg
EPA 8260B	1,3-Dichloropropylene	<11.1	11.1	1	ug/Kg
EPA 8260B	2-Butanone	<5.56	5.56	1	ug/Kg
EPA 8260B	4-Methyl-2-pentanone	<5.56	5.56	1	ug/Kg
EPA 8260B	Acetone	<27.8	27.8	1	ug/Kg
EPA 8260B	Benzene	2.57	1.11	1	ug/Kg
EPA 8260B	Bromodichloromethane	<5.56	5.56	1	ug/Kg
EPA 8260B	Bromoform	<5.56	5.56	1	ug/Kg
EPA 8260B	Bromomethane	<5.56	5.56	1	ug/Kg
EPA 8260B	Carbon disulfide	<5.56	5.56	1	ug/Kg
EPA 8260B	Carbon tetrachloride	<5.56	5.56	1	ug/Kg
EPA 8260B	Chlorobenzene	<5.56	5.56	1	ug/Kg
EPA 8260B	Chloroethane	<5.56	5.56	1	ug/Kg
EPA 8260B	Chloroform	<5.56	5.56	1	ug/Kg
EPA 8260B	Chloromethane	<5.56	5.56	1	ug/Kg
EPA 8260B	Dibromochloromethane	<5.56	5.56	1	ug/Kg
EPA 8260B	Ethylbenzene	<5.56	5.56	1	ug/Kg
EPA 8260B	Hexachlorobutadiene	<5.56	5.56	1	ug/Kg
EPA 8260B	Isobutyl alcohol	<27.8	27.8	1	ug/Kg
EPA 8260B	Methylene chloride	<11.1	11.1	1	ug/Kg
EPA 8260B	Styrene	<5.56	5.56	1	ug/Kg

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## 739554 CoC Print Group 001 of 001

Sample Details

<http://clientaccess.gcal.com/Secure/SampleDetails.aspx?lid=216042537...>

Method	Analyte	Result	RDL	Dilution	Units
EPA 8260B	Tetrachloroethene	<5.56	5.56	1	ug/Kg
EPA 8260B	Toluene	<5.56	5.56	1	ug/Kg
EPA 8260B	Trichloroethene	<5.56	5.56	1	ug/Kg
EPA 8260B	Trichlorofluoromethane	<5.56	5.56	1	ug/Kg
EPA 8260B	Vinyl chloride	<5.56	5.56	1	ug/Kg
EPA 8260B	Xylene (total)	<16.7	16.7	1	ug/Kg
EPA 8260B	cis-1,2-Dichloroethene	<5.56	5.56	1	ug/Kg
EPA 8260B	tert-Butyl methyl ether (MTBE)	<5.56	5.56	1	ug/Kg
EPA 8260B	trans-1,2-Dichloroethene	<5.56	5.56	1	ug/Kg
EPA 8270D	1,2,4,5-Tetrachlorobenzene	<330	330	1	ug/Kg
EPA 8270D	1,2,4-Trichlorobenzene	<330	330	1	ug/Kg
EPA 8270D	1,2-Dichlorobenzene	<330	330	1	ug/Kg
EPA 8270D	1,3-Dichlorobenzene	<330	330	1	ug/Kg
EPA 8270D	1,3-Dinitrobenzene	<66.0	66.0	1	ug/Kg
EPA 8270D	1,4-Dichlorobenzene	<330	330	1	ug/Kg
EPA 8270D	2,3,4,6-Tetrachlorophenol	<330	330	1	ug/Kg
EPA 8270D	2,4,5-Trichlorophenol	<330	330	1	ug/Kg
EPA 8270D	2,4,6-Trichlorophenol	<330	330	1	ug/Kg
EPA 8270D	2,4-Dichlorophenol	<330	330	1	ug/Kg
EPA 8270D	2,4-Dimethylphenol	<330	330	1	ug/Kg
EPA 8270D	2,4-Dinitrophenol	<1650	1650	1	ug/Kg
EPA 8270D	2,4-Dinitrotoluene	<330	330	1	ug/Kg
EPA 8270D	2,6-Dinitrotoluene	<330	330	1	ug/Kg
EPA 8270D	2-Chloronaphthalene	<330	330	1	ug/Kg
EPA 8270D	2-Chlorophenol	<330	330	1	ug/Kg
EPA 8270D	2-Methylnaphthalene	<330	330	1	ug/Kg
EPA 8270D	2-Nitroaniline	<1650	1650	1	ug/Kg
EPA 8270D	3,3'-Dichlorobenzidine	<660	660	1	ug/Kg
EPA 8270D	3-Nitroaniline	<1650	1650	1	ug/Kg
EPA 8270D	4-Nitroaniline	<1650	1650	1	ug/Kg
EPA 8270D	4-Nitrophenol	<1650	1650	1	ug/Kg
EPA 8270D	Acenaphthene	<330	330	1	ug/Kg
EPA 8270D	Acenaphthylene	<330	330	1	ug/Kg
EPA 8270D	Aniline	<33.0	33.0	1	ug/Kg
EPA 8270D	Anthracene	<330	330	1	ug/Kg
EPA 8270D	Benzo(a)anthracene	<330	330	1	ug/Kg
EPA 8270D	Benzo(a)pyrene	<330	330	1	ug/Kg
EPA 8270D	Benzo(b)fluoranthene	<330	330	1	ug/Kg

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739554 CoC Print Group 001 of 001

Sample Details

<http://clientaccess.gcal.com/Secure/SampleDetails.aspx?lid=216042537...>

Method	Analyte	Result	RDL	Dilution	Units
EPA 8270D	Benzo(k)fluoranthene	<330	330	1	ug/Kg
EPA 8270D	Biphenyl	<330	330	1	ug/Kg
EPA 8270D	Bis(2-Chloroethyl)ether	<330	330	1	ug/Kg
EPA 8270D	Bis(2-Chloroisopropyl)ether	<330	330	1	ug/Kg
EPA 8270D	Bis(2-Ethylhexyl)phthalate	<330	330	1	ug/Kg
EPA 8270D	Butyl benzyl phthalate	<330	330	1	ug/Kg
EPA 8270D	Chrysene	<330	330	1	ug/Kg
EPA 8270D	Di-n-butyl phthalate	<330	330	1	ug/Kg
EPA 8270D	Di-n-octyl phthalate	<330	330	1	ug/Kg
EPA 8270D	Dibenz(a,h)anthracene	<330	330	1	ug/Kg
EPA 8270D	Dibenzofuran	<330	330	1	ug/Kg
EPA 8270D	Diethyl phthalate	<330	330	1	ug/Kg
EPA 8270D	Dimethyl phthalate	<330	330	1	ug/Kg
EPA 8270D	Diphenylamine	<330	330	1	ug/Kg
EPA 8270D	Fluoranthene	<330	330	1	ug/Kg
EPA 8270D	Fluorene	<330	330	1	ug/Kg
EPA 8270D	Hexachlorobenzene	<330	330	1	ug/Kg
EPA 8270D	Hexachlorobutadiene	<330	330	1	ug/Kg
EPA 8270D	Hexachlorocyclopentadiene	<330	330	1	ug/Kg
EPA 8270D	Hexachloroethane	<330	330	1	ug/Kg
EPA 8270D	Indeno(1,2,3-cd)pyrene	<330	330	1	ug/Kg
EPA 8270D	Isophorone	<330	330	1	ug/Kg
EPA 8270D	Naphthalene	<330	330	1	ug/Kg
EPA 8270D	Nitrobenzene	<330	330	1	ug/Kg
EPA 8270D	Pentachlorophenol	<1650	1650	1	ug/Kg
EPA 8270D	Phenanthrene	<330	330	1	ug/Kg
EPA 8270D	Phenol	<330	330	1	ug/Kg
EPA 8270D	Pyrene	<330	330	1	ug/Kg
EPA 8270D	n-Nitrosodi-n-propylamine	<330	330	1	ug/Kg
EPA 8270D	n-Nitrosodiphenylamine	<330	330	1	ug/Kg

1  
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3

739554 CoC Print Group 001 of 001

### Clemens Transport

1917 Hwy 271 South  
Gilmer, TX. 75645  
903-746-2132

#### Delivery Confirmation Sheet

P.O. Number: 0411	
Pick-Up From: Bossier - Ruston	
Deliver To: Kilgore	
Received By: <i>Gentius Jan</i>	
Delivery Time: 20:00	
Date: 5-5-16	
Note: 11 Bossier to Kilgore 12 Kilgore to Bossier	
Signature	
Delivery Charge:	
Other Charges:	
<b>Total Charges:</b>	

Thank you for choosing CT as your courier service provider.