



02-Aug-2019

Chris McKisson  
LT Environmental, Inc  
820 Megan Ave. Unit B  
Rifle, CO 81650

Re: **GGU 13-29 Excavation**

Work Order: **19071747**

Dear Chris,

ALS Environmental received 1 sample on 27-Jul-2019 for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental - Holland and for only the analyses requested.

Sample results are compliant with industry accepted practices and Quality Control results achieved laboratory specifications. Any exceptions are noted in the Case Narrative, or noted with qualifiers in the report or QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 24.

If you have any questions regarding this report, please feel free to contact me:

ADDRESS: 3352 128th Avenue, Holland, MI, USA  
PHONE: +1 (616) 399-6070 FAX: +1 (616) 399-6185

Sincerely,

A handwritten signature in black ink, appearing to read "Chad Whelton", is written over a light blue horizontal line.

Electronically approved by: Alex J. Cszaszar

Chad Whelton  
Project Manager

### Report of Laboratory Analysis

Certificate No: MN 026-999-449

ALS GROUP USA, CORP Part of the ALS Laboratory Group A Campbell Brothers Limited Company

Environmental 

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RIGHT SOLUTIONS RIGHT PARTNER

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**Client:** LT Environmental, Inc  
**Project:** GGU 13-29 Excavation  
**Work Order:** 19071747

**Work Order Sample Summary**

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<u>Lab Samp ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Tag Number</u>	<u>Collection Date</u>	<u>Date Received</u>	<u>Hold</u>
19071747-01	E. Floor @ 26'	Soil		7/25/2019 12:35	7/27/2019 10:30	<input type="checkbox"/>

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**Client:** LT Environmental, Inc  
**Project:** GGU 13-29 Excavation  
**Work Order:** 19071747

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**Case Narrative**

Samples for the above noted Work Order were received on 07/27/2019. The attached "Sample Receipt Checklist" documents the status of custody seals, container integrity, preservation, and temperature compliance.

Samples were analyzed according to the analytical methodology previously transmitted in the "Work Order Acknowledgement". Methodologies are also documented in the "Analytical Result" section for each sample. Quality control results are listed in the "QC Report" section. Sample association for the reported quality control is located at the end of each batch summary. If applicable, results are appropriately qualified in the Analytical Result and QC Report sections. The "Qualifiers" section documents the various qualifiers, units, and acronyms utilized in reporting. A copy of the laboratory's scope of accreditation is available upon request.

With the following exceptions, all sample analyses achieved analytical criteria.

**Volatile Organics:**

Batch 139928, Method GRO\_8015\_S, Sample 19071747-01A: Surrogate high due to matrix interference.

Batch 139942, Method VOC\_8260\_S, Sample 19071747-01A: The sample could not be reanalyzed at this concentration due to high concentrations of other analytes.

Batch 139942, Method VOC\_8260\_S, Sample 19071747-01A: The reporting limit is elevated due to dilution needed to eliminate matrix-related interference.

Batch 139942, Method VOC\_8260\_S, Sample 19071747-01A: Surrogate high due to matrix interference.

**Extractable Organics:**

Batch 139931, Method DRO\_8015\_S, Sample 19071747-01A: Surrogate recovery affected by matrix interference (soil was very wet).

Batch 139931, Method DRO\_8015\_S, Sample 19071747-01A: One or more surrogate recoveries were below the lower control limits. The sample results may be biased low.

**Metals:**

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**Client:** LT Environmental, Inc  
**Project:** GGU 13-29 Excavation  
**Work Order:** 19071747

## Case Narrative

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Batch 139916, Method ICP\_6010\_S, Sample 19071747-01A MS: The MS recovery was outside of the control limits for Arsenic. However, the MSD recovery and the RPD between the MS and MSD were in control. No qualification is required for this analyte.

Batch 139916, Method ICP\_6010\_S, Samples 19071747-01A MS and MSD: The MS and MSD recoveries were outside of the control limits for Barium; however, the result in the parent sample is greater than 4x the spike amount. No qualification is required for this analyte.

Batch 139916, Method ICP\_6010\_S, Sample 19071747-01A MSD: The MSD recovery was outside of the control limits for Zinc; however, the result in the parent sample is greater than 4x the spike amount. No qualification is required for this analyte.

Batch 139916, Method ICP\_6010\_S, Sample 19071747-01A MSD: The MSD recovery was outside of the control limits for Chromium. However, the MS recovery and the RPD between the MS and MSD were in control. No qualification is required for this analyte.

Wet Chemistry:

No other deviations or anomalies were noted.

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**Client:** LT Environmental, Inc  
**Project:** GGU 13-29 Excavation  
**WorkOrder:** 19071747

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**QUALIFIERS,  
ACRONYMS, UNITS**

<u>Qualifier</u>	<u>Description</u>
*	Value exceeds Regulatory Limit
**	Estimated Value
a	Analyte is non-accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
Hr	BOD/CBOD - Sample was reset outside Hold Time, value should be considered estimated.
J	Analyte is present at an estimated concentration between the MDL and Report Limit
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL
X	Analyte was detected in the Method Blank between the MDL and Reporting Limit, sample results may exhibit background or reagent contamination at the observed level.

<u>Acronym</u>	<u>Description</u>
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
LOD	Limit of Detection (see MDL)
LOQ	Limit of Quantitation (see PQL)
MBLK	Method Blank
MDL	Method Detection Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PQL	Practical Quantitation Limit
RPD	Relative Percent Difference
TDL	Target Detection Limit
TNTC	Too Numerous To Count
A	APHA Standard Methods
D	ASTM
E	EPA
SW	SW-846 Update III

<u>Units Reported</u>	<u>Description</u>
% of sample	Percent of Sample
°C	Degrees Celcius
µg/Kg-dry	Micrograms per Kilogram Dry Weight
mg/Kg	Milligrams per Kilogram
mg/Kg-dry	Milligrams per Kilogram Dry Weight
mg/L	Milligrams per Liter
mmhos/cm @25°C	Millimhos-Centimeter at 25 Degrees Celcius

none  
s.u.      Standard Units

Client: LT Environmental, Inc  
 Project: GGU 13-29 Excavation  
 Sample ID: E. Floor @ 26'  
 Collection Date: 7/25/2019 12:35 PM

Work Order: 19071747  
 Lab ID: 19071747-01  
 Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
<b>DIESEL RANGE ORGANICS BY GC-FID</b>						
<b>DRO (C10-C28)</b>	<b>930</b>		<b>11</b>	<b>mg/Kg-dry</b>	<b>1</b>	<b>7/30/2019 03:31 PM</b>
Surr: 4-Terphenyl-d14	27.9	S	33-111	%REC	1	7/30/2019 03:31 PM
<b>GASOLINE RANGE ORGANICS BY GC-FID</b>						
<b>GRO (C6-C10)</b>	<b>1,300</b>		<b>7.0</b>	<b>mg/Kg</b>	<b>1</b>	<b>7/29/2019 08:02 PM</b>
Surr: Toluene-d8	381	S	71-123	%REC	1	7/29/2019 08:02 PM
<b>MERCURY BY CVAA</b>						
<b>Mercury</b>	<b>0.026</b>		<b>0.022</b>	<b>mg/Kg-dry</b>	<b>1</b>	<b>7/31/2019 03:01 PM</b>
<b>METALS ANALYSIS BY ICP</b>						
<b>Arsenic</b>	<b>5.3</b>		<b>0.39</b>	<b>mg/Kg-dry</b>	<b>1</b>	<b>7/30/2019 10:09 PM</b>
<b>Barium</b>	<b>200</b>		<b>0.78</b>	<b>mg/Kg-dry</b>	<b>1</b>	<b>7/30/2019 10:09 PM</b>
Cadmium	ND		0.78	mg/Kg-dry	1	7/30/2019 10:09 PM
<b>Chromium</b>	<b>7.3</b>		<b>0.39</b>	<b>mg/Kg-dry</b>	<b>1</b>	<b>7/31/2019 11:27 PM</b>
<b>Copper</b>	<b>12</b>		<b>0.78</b>	<b>mg/Kg-dry</b>	<b>1</b>	<b>7/30/2019 10:09 PM</b>
<b>Lead</b>	<b>9.1</b>		<b>0.39</b>	<b>mg/Kg-dry</b>	<b>1</b>	<b>7/30/2019 10:09 PM</b>
<b>Nickel</b>	<b>8.6</b>		<b>0.39</b>	<b>mg/Kg-dry</b>	<b>1</b>	<b>7/30/2019 10:09 PM</b>
Selenium	ND		0.78	mg/Kg-dry	1	7/30/2019 10:09 PM
Silver	ND		0.39	mg/Kg-dry	1	7/30/2019 10:09 PM
<b>Zinc</b>	<b>42</b>		<b>0.78</b>	<b>mg/Kg-dry</b>	<b>1</b>	<b>7/30/2019 10:09 PM</b>
<b>SOLUBLE CATIONS FOR SAR</b>						
<b>Calcium</b>	<b>43</b>		<b>5.0</b>	<b>mg/L</b>	<b>10</b>	<b>7/31/2019 02:54 PM</b>
<b>Magnesium</b>	<b>55</b>		<b>2.0</b>	<b>mg/L</b>	<b>10</b>	<b>7/31/2019 02:54 PM</b>
<b>Sodium</b>	<b>62</b>		<b>2.0</b>	<b>mg/L</b>	<b>10</b>	<b>7/31/2019 02:54 PM</b>
<b>SODIUM ADSORPTION RATIO</b>						
<b>Sodium Adsorption Ratio</b>	<b>1.5</b>		<b>0.010</b>	<b>none</b>	<b>1</b>	<b>7/31/2019</b>
<b>SEMI-VOLATILE ORGANIC COMPOUNDS</b>						
Acenaphthene	ND		14	µg/Kg-dry	1	7/30/2019 12:50 PM
Anthracene	ND		14	µg/Kg-dry	1	7/30/2019 12:50 PM
<b>Benzo(a)anthracene</b>	<b>16</b>		<b>14</b>	<b>µg/Kg-dry</b>	<b>1</b>	<b>7/30/2019 12:50 PM</b>
Benzo(a)pyrene	ND		14	µg/Kg-dry	1	7/30/2019 12:50 PM
Benzo(b)fluoranthene	ND		14	µg/Kg-dry	1	7/30/2019 12:50 PM
Benzo(k)fluoranthene	ND		14	µg/Kg-dry	1	7/30/2019 12:50 PM
<b>Chrysene</b>	<b>19</b>		<b>14</b>	<b>µg/Kg-dry</b>	<b>1</b>	<b>7/30/2019 12:50 PM</b>
Dibenzo(a,h)anthracene	ND		14	µg/Kg-dry	1	7/30/2019 12:50 PM
Fluoranthene	ND		14	µg/Kg-dry	1	7/30/2019 12:50 PM

Note: See Qualifiers page for a list of qualifiers and their definitions.

**ALS Group, USA**

Date: 02-Aug-19

**Client:** LT Environmental, Inc  
**Project:** GGU 13-29 Excavation  
**Sample ID:** E. Floor @ 26'  
**Collection Date:** 7/25/2019 12:35 PM

**Work Order:** 19071747  
**Lab ID:** 19071747-01  
**Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
<b>Fluorene</b>	<b>420</b>		<b>14</b>	<b>µg/Kg-dry</b>	1	7/30/2019 12:50 PM
Indeno(1,2,3-cd)pyrene	ND		14	µg/Kg-dry	1	7/30/2019 12:50 PM
<b>Naphthalene</b>	<b>1,200</b>		<b>14</b>	<b>µg/Kg-dry</b>	1	7/30/2019 12:50 PM
Pyrene	ND		14	µg/Kg-dry	1	7/30/2019 12:50 PM
Surr: 2-Fluorobiphenyl	59.6		44-107	%REC	1	7/30/2019 12:50 PM
Surr: 4-Terphenyl-d14	66.1		52-123	%REC	1	7/30/2019 12:50 PM
Surr: Nitrobenzene-d5	64.5		41-94	%REC	1	7/30/2019 12:50 PM
<b>VOLATILE ORGANIC COMPOUNDS</b>			<b>SW8260C</b>	Prep: SW5035 7/29/19 13:48	Analyst: <b>PM</b>	
<b>Benzene</b>	<b>0.049</b>		<b>0.030</b>	<b>mg/Kg</b>	1	7/29/2019 11:00 PM
<b>Ethylbenzene</b>	<b>5.6</b>		<b>0.84</b>	<b>mg/Kg</b>	20	7/31/2019 12:08 PM
<b>m,p-Xylene</b>	<b>71</b>		<b>1.7</b>	<b>mg/Kg</b>	20	7/31/2019 12:08 PM
<b>o-Xylene</b>	<b>12</b>		<b>0.84</b>	<b>mg/Kg</b>	20	7/31/2019 12:08 PM
<b>Toluene</b>	<b>13</b>		<b>0.84</b>	<b>mg/Kg</b>	20	7/31/2019 12:08 PM
<b>Xylenes, Total</b>	<b>83</b>		<b>2.5</b>	<b>mg/Kg</b>	20	7/31/2019 12:08 PM
Surr: 1,2-Dichloroethane-d4	103		70-130	%REC	1	7/29/2019 11:00 PM
Surr: 1,2-Dichloroethane-d4	101		70-130	%REC	20	7/31/2019 12:08 PM
Surr: 4-Bromofluorobenzene	111		70-130	%REC	1	7/29/2019 11:00 PM
Surr: 4-Bromofluorobenzene	98.6		70-130	%REC	20	7/31/2019 12:08 PM
Surr: Dibromofluoromethane	84.9		70-130	%REC	1	7/29/2019 11:00 PM
Surr: Dibromofluoromethane	98.3		70-130	%REC	20	7/31/2019 12:08 PM
Surr: Toluene-d8	104		70-130	%REC	20	7/31/2019 12:08 PM
Surr: Toluene-d8	190	S	70-130	%REC	1	7/29/2019 11:00 PM
<b>ELECTRICAL CONDUCTIVITY (SAR)</b>			<b>USDA H60 MET</b>	Prep: USDA Method 20B 7/31/19 07:45	Analyst: <b>DVD</b>	
<b>Electrical Conductivity @ Saturation</b>	<b>0.99</b>		<b>0.10</b>	<b>mmhos/cm @2</b>	20	7/31/2019 09:30 AM
<b>CHROMIUM, TRIVALENT</b>			<b>CALCULATION</b>	Analyst: <b>JZB</b>		
<b>Chromium, Trivalent</b>	<b>7.3</b>		<b>1.2</b>	<b>mg/Kg-dry</b>	1	8/1/2019 09:15 AM
<b>CHROMIUM, HEXAVALENT</b>			<b>SW7196A</b>	Prep: SW3060A 7/31/19 09:00	Analyst: <b>RZM</b>	
<b>Chromium, Hexavalent</b>	ND		1.2	mg/Kg-dry	1	7/31/2019 02:47 PM
<b>MOISTURE</b>			<b>SW3550C</b>	Analyst: <b>MMO</b>		
<b>Moisture</b>	<b>17</b>		<b>0.10</b>	<b>% of sample</b>	1	7/29/2019 09:41 AM
<b>PH</b>			<b>SW9045D</b>	Prep: EXTRACT 7/29/19 10:29	Analyst: <b>DNW</b>	
<b>pH</b>	<b>8.80</b>		<b>0.100</b>	<b>s.u.</b>	1	7/29/2019 03:00 PM
<b>Temperature</b>	<b>21.8</b>		<b>0.100</b>	<b>°C</b>	1	7/29/2019 03:00 PM

**Note:** See Qualifiers page for a list of qualifiers and their definitions.

**Client:** LT Environmental, Inc  
**Work Order:** 19071747  
**Project:** GGU 13-29 Excavation

**QC BATCH REPORT**

Batch ID: **139931** Instrument ID **GC8** Method: **SW8015M**

MBLK		Sample ID: <b>DBLKS1-139931-139931</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>7/30/2019 09:40 AM</b>		
Client ID:		Run ID: <b>GC8_190730B</b>				SeqNo: <b>5814675</b>		Prep Date: <b>7/29/2019</b>		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	ND	5.0								
<i>Surr: 4-Terphenyl-d14</i>	1.583	0	3.33	0	47.5	33-111	0			

LCS		Sample ID: <b>DLCSS1-139931-139931</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>7/30/2019 10:10 AM</b>		
Client ID:		Run ID: <b>GC8_190730B</b>				SeqNo: <b>5814676</b>		Prep Date: <b>7/29/2019</b>		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	337.5	5.0	333	0	101	58-111	0			
<i>Surr: 4-Terphenyl-d14</i>	1.922	0	3.33	0	57.7	33-111	0			

MS		Sample ID: <b>19071718-01A MS</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>7/30/2019 11:08 AM</b>		
Client ID:		Run ID: <b>GC8_190730B</b>				SeqNo: <b>5814678</b>		Prep Date: <b>7/29/2019</b>		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	290.4	4.9	327.2	11.16	85.4	58-111	0			
<i>Surr: 4-Terphenyl-d14</i>	1.437	0	3.272	0	43.9	33-111	0			

MSD		Sample ID: <b>19071718-01A MSD</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>7/30/2019 11:37 AM</b>		
Client ID:		Run ID: <b>GC8_190730B</b>				SeqNo: <b>5814679</b>		Prep Date: <b>7/29/2019</b>		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	290.5	4.8	318.7	11.16	87.6	58-111	290.4	0.00596	30	
<i>Surr: 4-Terphenyl-d14</i>	1.522	0	3.187	0	47.7	33-111	1.437	5.72	30	

The following samples were analyzed in this batch:

19071747-01A
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Client: LT Environmental, Inc  
 Work Order: 19071747  
 Project: GGU 13-29 Excavation

# QC BATCH REPORT

Batch ID: 139928 Instrument ID GC9 Method: SW8015D

MBLK		Sample ID: MBLK-139928-139928				Units: µg/Kg-dry		Analysis Date: 7/29/2019 04:04 PM		
Client ID:		Run ID: GC9_190729A		SeqNo: 5813347		Prep Date: 7/29/2019		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	ND	5,000								
<i>Surr: Toluene-d8</i>	4768	0	5000	0	95.4	71-123	0			

LCS		Sample ID: LCS-139928-139928				Units: µg/Kg-dry		Analysis Date: 7/29/2019 03:35 PM		
Client ID:		Run ID: GC9_190729A		SeqNo: 5813346		Prep Date: 7/29/2019		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	597900	5,000	500000	0	120	71-123	0			
<i>Surr: Toluene-d8</i>	6232	0	5000	0	125	71-123	0			S

MS		Sample ID: 19071748-01A MS				Units: µg/Kg-dry		Analysis Date: 7/29/2019 11:59 PM		
Client ID:		Run ID: GC9_190729A		SeqNo: 5813362		Prep Date: 7/29/2019		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	866500	7,700	773800	20410	109	71-123	0			
<i>Surr: Toluene-d8</i>	8560	0	7738	0	111	71-123	0			

MSD		Sample ID: 19071748-01A MSD				Units: µg/Kg-dry		Analysis Date: 7/30/2019 12:28 PM		
Client ID:		Run ID: GC9_190729A		SeqNo: 5813363		Prep Date: 7/29/2019		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	979000	8,800	879700	20410	109	71-123	866500	12.2	30	
<i>Surr: Toluene-d8</i>	10140	0	8797	0	115	71-123	8560	16.9	30	

The following samples were analyzed in this batch: 19071747-01A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: LT Environmental, Inc  
 Work Order: 19071747  
 Project: GGU 13-29 Excavation

# QC BATCH REPORT

Batch ID: **140081** Instrument ID **HG4** Method: **SW7471B**

MBLK		Sample ID: <b>MBLK-140081-140081</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>7/31/2019 03:19 PM</b>		
Client ID:		Run ID: <b>HG4_190731A</b>				SeqNo: <b>5816932</b>		Prep Date: <b>7/31/2019</b>		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	ND	0.020								

LCS		Sample ID: <b>LCS-140081-140081</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>7/31/2019 02:53 PM</b>		
Client ID:		Run ID: <b>HG4_190731A</b>				SeqNo: <b>5816922</b>		Prep Date: <b>7/31/2019</b>		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.1674	0.020	0.1665		0	101	80-120	0		

MS		Sample ID: <b>19071510-09AMS</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>7/31/2019 03:06 PM</b>		
Client ID:		Run ID: <b>HG4_190731A</b>				SeqNo: <b>5816926</b>		Prep Date: <b>7/31/2019</b>		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.2029	0.020	0.1624	0.0623	86.6	75-125		0		

MSD		Sample ID: <b>19071510-09AMSD</b>				Units: <b>mg/Kg</b>		Analysis Date: <b>7/31/2019 03:15 PM</b>		
Client ID:		Run ID: <b>HG4_190731A</b>				SeqNo: <b>5816930</b>		Prep Date: <b>7/31/2019</b>		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.2077	0.019	0.1622	0.0623	89.7	75-125	0.2029	2.33	35	

The following samples were analyzed in this batch:

19071747-01A
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Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: LT Environmental, Inc  
 Work Order: 19071747  
 Project: GGU 13-29 Excavation

# QC BATCH REPORT

Batch ID: 139916 Instrument ID ICP2 Method: SW846 6010C

MBLK		Sample ID: MBLK-139916-139916				Units: mg/Kg		Analysis Date: 7/30/2019 12:44 PM		
Client ID:		Run ID: ICP2_190730A			SeqNo: 5813753		Prep Date: 7/29/2019		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	ND	0.25								
Barium	ND	0.50								
Cadmium	ND	0.50								
Copper	ND	0.50								
Lead	ND	0.25								
Nickel	ND	0.25								
Selenium	ND	0.50								
Silver	ND	0.25								
Zinc	ND	0.50								

MBLK		Sample ID: MBLK-139916-139916				Units: mg/Kg		Analysis Date: 7/31/2019 12:07 PM		
Client ID:		Run ID: ICP2_190731A			SeqNo: 5816320		Prep Date: 7/29/2019		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chromium	ND	0.25								

LCS		Sample ID: LCS-139916-139916				Units: mg/Kg		Analysis Date: 7/30/2019 12:50 PM		
Client ID:		Run ID: ICP2_190730A			SeqNo: 5813754		Prep Date: 7/29/2019		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	4.805	0.25	5	0	96.1	80-120	0			
Barium	4.995	0.50	5	0	99.9	80-120	0			
Cadmium	5.084	0.50	5	0	102	80-120	0			
Copper	5.058	0.50	5	0	101	80-120	0			
Lead	5	0.25	5	0	100	80-120	0			
Nickel	4.95	0.25	5	0	99	80-120	0			
Selenium	4.835	0.50	5	0	96.7	80-120	0			
Silver	5.051	0.25	5	0	101	80-120	0			
Zinc	5.062	0.50	5	0	101	80-120	0			

LCS		Sample ID: LCS-139916-139916				Units: mg/Kg		Analysis Date: 7/31/2019 12:13 PM		
Client ID:		Run ID: ICP2_190731A			SeqNo: 5816321		Prep Date: 7/29/2019		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chromium	4.995	0.25	5	0	99.9	80-120	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: LT Environmental, Inc  
 Work Order: 19071747  
 Project: GGU 13-29 Excavation

# QC BATCH REPORT

Batch ID: 139916 Instrument ID ICP2 Method: SW846 6010C

MS		Sample ID: 19071747-01AMS				Units: mg/Kg		Analysis Date: 7/30/2019 10:15 PM			
Client ID: E. Floor @ 26'		Run ID: ICP2_190730A				SeqNo: 5814495		Prep Date: 7/29/2019		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Arsenic	9.035	0.33	6.527	4.375	71.4	75-125	0			S	
Barium	180.1	0.65	6.527	164.3	243	75-125	0			SO	
Cadmium	6.227	0.65	6.527	0.263	91.4	75-125	0				
Copper	14.84	0.65	6.527	9.776	77.6	75-125	0				
Lead	12.49	0.33	6.527	7.591	75	75-125	0				
Nickel	13.6	0.33	6.527	7.159	98.6	75-125	0				
Selenium	4.961	0.65	6.527	0.04987	75.2	75-125	0				
Silver	6.614	0.33	6.527	-0.0944	103	75-125	0				
Zinc	42.49	0.65	6.527	34.89	116	75-125	0			O	

MS		Sample ID: 19071747-01AMS				Units: mg/Kg		Analysis Date: 7/31/2019 11:33 PM			
Client ID: E. Floor @ 26'		Run ID: ICP2_190731A				SeqNo: 5817239		Prep Date: 7/29/2019		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Chromium	13.48	0.33	6.527	6.048	114	75-125	0				

MSD		Sample ID: 19071747-01AMSD				Units: mg/Kg		Analysis Date: 7/30/2019 10:21 PM			
Client ID: E. Floor @ 26'		Run ID: ICP2_190730A				SeqNo: 5814496		Prep Date: 7/29/2019		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Arsenic	10.53	0.33	6.519	4.375	94.5	75-125	9.035	15.3	20		
Barium	238.8	0.65	6.519	164.3	1140	75-125	180.1	28	20	SRO	
Cadmium	6.239	0.65	6.519	0.263	91.7	75-125	6.227	0.184	20		
Copper	15.39	0.65	6.519	9.776	86.1	75-125	14.84	3.59	20		
Lead	12.85	0.33	6.519	7.591	80.7	75-125	12.49	2.9	20		
Nickel	13.32	0.33	6.519	7.159	94.5	75-125	13.6	2.07	20		
Selenium	5.143	0.65	6.519	0.04987	78.1	75-125	4.961	3.61	20		
Silver	6.491	0.33	6.519	-0.0944	101	75-125	6.614	1.87	20		
Zinc	43.73	0.65	6.519	34.89	136	75-125	42.49	2.88	20	SO	

MSD		Sample ID: 19071747-01AMSD				Units: mg/Kg		Analysis Date: 7/31/2019 11:39 PM			
Client ID: E. Floor @ 26'		Run ID: ICP2_190731A				SeqNo: 5817240		Prep Date: 7/29/2019		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Chromium	14.81	0.33	6.519	6.048	134	75-125	13.48	9.47	20	S	

The following samples were analyzed in this batch:

19071747-01A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: LT Environmental, Inc  
 Work Order: 19071747  
 Project: GGU 13-29 Excavation

# QC BATCH REPORT

Batch ID: 140042 Instrument ID ICPMS3 Method: SW6020A

DUP		Sample ID: 19071747-01ADUP				Units: mg/L		Analysis Date: 7/31/2019 02:55 PM		
Client ID: E. Floor @ 26'		Run ID: ICPMS3_190731A				SeqNo: 5816815		Prep Date: 7/31/2019		DF: 10
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Calcium	40.88	5.0	0	0	0	0-0	42.81	4.62		
Magnesium	54.53	2.0	0	0	0	0-0	54.98	0.815		
Sodium	61.41	2.0	0	0	0	0-0	61.8	0.632		

The following samples were analyzed in this batch:

19071747-01A
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Batch ID: 140042 Instrument ID SAR Method: USDA H60 Metho

DUP		Sample ID: 19071747-01ADUP				Units: none		Analysis Date: 7/31/2019		
Client ID: E. Floor @ 26'		Run ID: SAR_190731A				SeqNo: 5816858		Prep Date: 7/31/2019		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Sodium Adsorption Ratio	1.479	0.010	0	0	0		1.473	0.377	50	

The following samples were analyzed in this batch:

19071747-01A
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Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: LT Environmental, Inc  
 Work Order: 19071747  
 Project: GGU 13-29 Excavation

# QC BATCH REPORT

Batch ID: 139921 Instrument ID SVMS9 Method: SW846 8270D

MBLK		Sample ID: SBLKS1-139921-139921				Units: µg/Kg		Analysis Date: 7/30/2019 10:18 AM		
Client ID:		Run ID: SVMS9_190730A		SeqNo: 5813920		Prep Date: 7/29/2019		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	ND	6.7								
Anthracene	ND	6.7								
Benzo(a)anthracene	ND	6.7								
Benzo(a)pyrene	ND	6.7								
Benzo(b)fluoranthene	ND	6.7								
Benzo(k)fluoranthene	ND	6.7								
Chrysene	ND	6.7								
Dibenzo(a,h)anthracene	ND	6.7								
Fluoranthene	ND	6.7								
Fluorene	ND	6.7								
Indeno(1,2,3-cd)pyrene	ND	6.7								
Naphthalene	ND	6.7								
Pyrene	ND	6.7								
Surr: 2-Fluorobiphenyl	2735	0	3333	0	82.1	44-107	0			
Surr: 4-Terphenyl-d14	3028	0	3333	0	90.8	52-123	0			
Surr: Nitrobenzene-d5	2602	0	3333	0	78.1	41-94	0			

LCS		Sample ID: SLCSS1-139921-139921				Units: µg/Kg		Analysis Date: 7/30/2019 10:43 AM		
Client ID:		Run ID: SVMS9_190730A		SeqNo: 5813923		Prep Date: 7/29/2019		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	940.7	6.7	1333	0	70.6	55-101	0			
Anthracene	1020	6.7	1333	0	76.5	67-105	0			
Benzo(a)anthracene	1015	6.7	1333	0	76.1	68-105	0			
Benzo(a)pyrene	1116	6.7	1333	0	83.7	68-110	0			
Benzo(b)fluoranthene	1070	6.7	1333	0	80.3	65-110	0			
Benzo(k)fluoranthene	1043	6.7	1333	0	78.3	66-113	0			
Chrysene	1051	6.7	1333	0	78.8	68-108	0			
Dibenzo(a,h)anthracene	1027	6.7	1333	0	77.1	62-119	0			
Fluoranthene	1076	6.7	1333	0	80.7	67-106	0			
Fluorene	998.7	6.7	1333	0	74.9	59-107	0			
Indeno(1,2,3-cd)pyrene	1021	6.7	1333	0	76.6	56-120	0			
Naphthalene	900.7	6.7	1333	0	67.6	46-98	0			
Pyrene	1028	6.7	1333	0	77.1	60-119	0			
Surr: 2-Fluorobiphenyl	2445	0	3333	0	73.3	44-107	0			
Surr: 4-Terphenyl-d14	2701	0	3333	0	81	52-123	0			
Surr: Nitrobenzene-d5	2422	0	3333	0	72.7	41-94	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: LT Environmental, Inc  
 Work Order: 19071747  
 Project: GGU 13-29 Excavation

# QC BATCH REPORT

Batch ID: 139921 Instrument ID SVMS9 Method: SW846 8270D

MS				Sample ID: 19071718-01A MS			Units: µg/Kg		Analysis Date: 7/30/2019 01:15 PM		
Client ID:		Run ID: SVMS9_190730A		SeqNo: 5813943		Prep Date: 7/29/2019		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Acenaphthene	787.2	6.4	1281	0	61.5	55-101	0				
Anthracene	877.5	6.4	1281	0	68.5	67-105	0				
Benzo(a)anthracene	882.7	6.4	1281	0	68.9	68-105	0				
Benzo(a)pyrene	961.4	6.4	1281	0	75.1	68-110	0				
Benzo(b)fluoranthene	892.9	6.4	1281	0	69.7	65-110	0				
Benzo(k)fluoranthene	872.4	6.4	1281	0	68.1	66-113	0				
Chrysene	882	6.4	1281	0	68.9	68-108	0				
Dibenzo(a,h)anthracene	871.8	6.4	1281	0	68.1	62-119	0				
Fluoranthene	896.7	6.4	1281	0	70	67-106	0				
Fluorene	837.2	6.4	1281	0	65.4	59-107	0				
Indeno(1,2,3-cd)pyrene	835.9	6.4	1281	0	65.3	56-120	0				
Naphthalene	803.9	6.4	1281	0	62.8	46-98	0				
Pyrene	901.2	6.4	1281	0	70.4	60-119	0				
Surr: 2-Fluorobiphenyl	2082	0	3202	0	65	44-107	0				
Surr: 4-Terphenyl-d14	2261	0	3202	0	70.6	52-123	0				
Surr: Nitrobenzene-d5	2175	0	3202	0	67.9	41-94	0				

MSD				Sample ID: 19071718-01A MSD			Units: µg/Kg		Analysis Date: 7/30/2019 01:40 PM		
Client ID:		Run ID: SVMS9_190730A		SeqNo: 5813945		Prep Date: 7/29/2019		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Acenaphthene	836.2	6.6	1320	0	63.4	55-101	787.2	6.04	30		
Anthracene	932	6.6	1320	0	70.6	67-105	877.5	6.02	30		
Benzo(a)anthracene	965	6.6	1320	0	73.1	68-105	882.7	8.91	30		
Benzo(a)pyrene	1055	6.6	1320	0	80	68-110	961.4	9.32	30		
Benzo(b)fluoranthene	979.5	6.6	1320	0	74.2	65-110	892.9	9.25	30		
Benzo(k)fluoranthene	975.5	6.6	1320	0	73.9	66-113	872.4	11.2	30		
Chrysene	961.7	6.6	1320	0	72.9	68-108	882	8.64	30		
Dibenzo(a,h)anthracene	978.2	6.6	1320	0	74.1	62-119	871.8	11.5	30		
Fluoranthene	964.3	6.6	1320	0	73.1	67-106	896.7	7.26	30		
Fluorene	906.2	6.6	1320	0	68.7	59-107	837.2	7.92	30		
Indeno(1,2,3-cd)pyrene	935.3	6.6	1320	0	70.9	56-120	835.9	11.2	30		
Naphthalene	846.8	6.6	1320	0	64.2	46-98	803.9	5.2	30		
Pyrene	973.5	6.6	1320	0	73.8	60-119	901.2	7.71	30		
Surr: 2-Fluorobiphenyl	2240	0	3300	0	67.9	44-107	2082	7.3	40		
Surr: 4-Terphenyl-d14	2487	0	3300	0	75.4	52-123	2261	9.51	40		
Surr: Nitrobenzene-d5	2311	0	3300	0	70	41-94	2175	6.07	40		

The following samples were analyzed in this batch:

19071747-01A
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Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: LT Environmental, Inc  
 Work Order: 19071747  
 Project: GGU 13-29 Excavation

# QC BATCH REPORT

Batch ID: **139942** Instrument ID **VMS11** Method: **SW8260C**

MBLK		Sample ID: <b>MBLK-139942-139942</b>				Units: <b>µg/Kg-dry</b>		Analysis Date: <b>7/30/2019 11:55 PM</b>		
Client ID:		Run ID: <b>VMS11_190730B</b>		SeqNo: <b>5816267</b>		Prep Date: <b>7/29/2019</b>		DF: <b>1</b>		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	ND	30								
Ethylbenzene	ND	30								
m,p-Xylene	ND	60								
o-Xylene	ND	30								
Toluene	ND	30								
Xylenes, Total	ND	90								
Surr: 1,2-Dichloroethane-d4	1030	0	1000	0	103	70-130	0			
Surr: 4-Bromofluorobenzene	997.5	0	1000	0	99.8	70-130	0			
Surr: Dibromofluoromethane	954	0	1000	0	95.4	70-130	0			
Surr: Toluene-d8	997.5	0	1000	0	99.8	70-130	0			

LCS		Sample ID: <b>LCS-139942-139942</b>				Units: <b>µg/Kg-dry</b>		Analysis Date: <b>7/30/2019 10:49 PM</b>		
Client ID:		Run ID: <b>VMS11_190730B</b>		SeqNo: <b>5816266</b>		Prep Date: <b>7/29/2019</b>		DF: <b>1</b>		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	1036	30	1000	0	104	75-125	0			
Ethylbenzene	1094	30	1000	0	109	75-125	0			
m,p-Xylene	2244	60	2000	0	112	80-125	0			
o-Xylene	1120	30	1000	0	112	75-125	0			
Toluene	1080	30	1000	0	108	70-125	0			
Xylenes, Total	3365	90	3000	0	112	75-125	0			
Surr: 1,2-Dichloroethane-d4	1052	0	1000	0	105	70-130	0			
Surr: 4-Bromofluorobenzene	1038	0	1000	0	104	70-130	0			
Surr: Dibromofluoromethane	1021	0	1000	0	102	70-130	0			
Surr: Toluene-d8	1026	0	1000	0	103	70-130	0			

MS		Sample ID: <b>19071662-01A MS</b>				Units: <b>µg/Kg-dry</b>		Analysis Date: <b>7/31/2019 06:52 AM</b>		
Client ID:		Run ID: <b>VMS11_190730B</b>		SeqNo: <b>5816272</b>		Prep Date: <b>7/29/2019</b>		DF: <b>1</b>		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	1516	46	1549	30.69	95.9	75-125	0			
Ethylbenzene	1473	46	1549	0	95	75-125	0			
m,p-Xylene	2948	93	3099	0	95.2	80-125	0			
o-Xylene	1477	46	1549	0	95.4	75-125	0			
Toluene	1445	46	1549	0	93.2	70-125	0			
Xylenes, Total	4426	140	4648	0	95.2	75-125	0			
Surr: 1,2-Dichloroethane-d4	1615	0	1549	0	104	70-130	0			
Surr: 4-Bromofluorobenzene	1573	0	1549	0	102	70-130	0			
Surr: Dibromofluoromethane	1513	0	1549	0	97.6	70-130	0			
Surr: Toluene-d8	1515	0	1549	0	97.8	70-130	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: LT Environmental, Inc  
 Work Order: 19071747  
 Project: GGU 13-29 Excavation

# QC BATCH REPORT

Batch ID: 139942 Instrument ID VMS11 Method: SW8260C

MSD		Sample ID: 19071662-01A MSD				Units: µg/Kg-dry		Analysis Date: 7/31/2019 07:14 AM		
Client ID:		Run ID: VMS11_190730B		SeqNo: 5816273		Prep Date: 7/29/2019		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	1037	32	1063	20.35	95.7	75-125	1017	1.95	30	
Ethylbenzene	1009	32	1063	0	94.9	75-125	988	2.05	30	
m,p-Xylene	2021	64	2125	0	95.1	80-125	1978	2.13	30	
o-Xylene	1021	32	1063	0	96.1	75-125	991.2	2.99	30	
Toluene	978.2	32	1063	0	92	70-125	969.3	0.912	30	
Xylenes, Total	3042	96	3188	0	95.4	75-125	2969	2.42	30	
Surr: 1,2-Dichloroethane-d4	1115	0	1063	0	105	70-130	1084	2.83	30	
Surr: 4-Bromofluorobenzene	1093	0	1063	0	103	70-130	1056	3.48	30	
Surr: Dibromofluoromethane	1022	0	1063	0	96.2	70-130	1015	0.659	30	
Surr: Toluene-d8	1022	0	1063	0	96.2	70-130	1017	0.506	30	

The following samples were analyzed in this batch:

19071747-01A
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Note: See Qualifiers Page for a list of Qualifiers and their explanation.

**Client:** LT Environmental, Inc  
**Work Order:** 19071747  
**Project:** GGU 13-29 Excavation

## QC BATCH REPORT

Batch ID: **139938**      Instrument ID **WETCHEM**      Method: **SW9045D**

LCS		Sample ID: <b>LCS-139938-139938</b>				Units: <b>s.u.</b>		Analysis Date: <b>7/29/2019 03:00 PM</b>		
Client ID:		Run ID: <b>WETCHEM_1907290</b>		SeqNo: <b>5811328</b>		Prep Date: <b>7/29/2019</b>		DF: <b>1</b>		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
pH	3.99	0.10	4	0	99.8	90-110	0			

DUP		Sample ID: <b>19071747-01A DUP</b>				Units: <b>s.u.</b>		Analysis Date: <b>7/29/2019 03:00 PM</b>		
Client ID: <b>E. Floor @ 26'</b>		Run ID: <b>WETCHEM_1907290</b>		SeqNo: <b>5811341</b>		Prep Date: <b>7/29/2019</b>		DF: <b>1</b>		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
pH	8.7	0.10	0	0	0	0-0	8.8	1.14	20	
Temperature	21.8	0.10	0	0	0		21.8	0		

DUP		Sample ID: <b>19071748-01A DUP</b>				Units: <b>s.u.</b>		Analysis Date: <b>7/29/2019 03:00 PM</b>		
Client ID:		Run ID: <b>WETCHEM_1907290</b>		SeqNo: <b>5811343</b>		Prep Date: <b>7/29/2019</b>		DF: <b>1</b>		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
pH	8.7	0.10	0	0	0	0-0	8.63	0.808	20	
Temperature	21.3	0.10	0	0	0		21.2	0.471		

The following samples were analyzed in this batch:

19071747-01A

**Note:** See Qualifiers Page for a list of Qualifiers and their explanation.

Client: LT Environmental, Inc  
 Work Order: 19071747  
 Project: GGU 13-29 Excavation

# QC BATCH REPORT

Batch ID: 140054 Instrument ID WETCHEM Method: SW7196A

<b>MBLK</b>	Sample ID: <b>MBLK-140054-140054</b>		Units: <b>mg/Kg</b>		Analysis Date: <b>7/31/2019 02:47 PM</b>					
Client ID:	Run ID: <b>WETCHEM_190731Q</b>		SeqNo: <b>5816516</b>		Prep Date: <b>7/31/2019</b> DF: <b>1</b>					
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent ND 1.0

<b>LCS</b>	Sample ID: <b>LCS-140054-140054</b>		Units: <b>mg/Kg</b>		Analysis Date: <b>7/31/2019 02:47 PM</b>					
Client ID:	Run ID: <b>WETCHEM_190731Q</b>		SeqNo: <b>5816517</b>		Prep Date: <b>7/31/2019</b> DF: <b>1</b>					
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent 4.8 1.0 5 0 96 80-120 0

<b>MS</b>	Sample ID: <b>19071603-05A MS</b>		Units: <b>mg/Kg</b>		Analysis Date: <b>7/31/2019 02:47 PM</b>					
Client ID:	Run ID: <b>WETCHEM_190731Q</b>		SeqNo: <b>5816519</b>		Prep Date: <b>7/31/2019</b> DF: <b>1</b>					
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent ND 1.0 5 0.55 -11 75-125 0 S

<b>MS</b>	Sample ID: <b>19071603-05A MSI</b>		Units: <b>mg/Kg</b>		Analysis Date: <b>7/31/2019 02:47 PM</b>					
Client ID:	Run ID: <b>WETCHEM_190731Q</b>		SeqNo: <b>5816521</b>		Prep Date: <b>7/31/2019</b> DF: <b>100</b>					
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent 2024 100 2446 0.55 82.7 75-125 0

<b>MSD</b>	Sample ID: <b>19071603-05A MSD</b>		Units: <b>mg/Kg</b>		Analysis Date: <b>7/31/2019 02:47 PM</b>					
Client ID:	Run ID: <b>WETCHEM_190731Q</b>		SeqNo: <b>5816520</b>		Prep Date: <b>7/31/2019</b> DF: <b>1</b>					
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent ND 1.0 5 0.55 -11 75-125 0.55 0 20 S

The following samples were analyzed in this batch:

19071747-01A
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Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: LT Environmental, Inc  
 Work Order: 19071747  
 Project: GGU 13-29 Excavation

# QC BATCH REPORT

Batch ID: **R267066** Instrument ID **MOIST** Method: **SW3550C**

MBLK		Sample ID: <b>WBLKS-R267066</b>				Units: % of sample			Analysis Date: <b>7/29/2019 09:41 AM</b>		
Client ID:		Run ID: <b>MOIST_190729A</b>				SeqNo: <b>5812400</b>			Prep Date:		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	

Moisture ND 0.10

LCS		Sample ID: <b>LCS-R267066</b>				Units: % of sample			Analysis Date: <b>7/29/2019 09:41 AM</b>		
Client ID:		Run ID: <b>MOIST_190729A</b>				SeqNo: <b>5812399</b>			Prep Date:		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	

Moisture 100 0.10 100 0 100 98-102 0

DUP		Sample ID: <b>19071603-05A DUP</b>				Units: % of sample			Analysis Date: <b>7/29/2019 09:41 AM</b>		
Client ID:		Run ID: <b>MOIST_190729A</b>				SeqNo: <b>5812380</b>			Prep Date:		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	

Moisture 6.12 0.10 0 0 0 0-0 6.28 2.58 10

DUP		Sample ID: <b>19071621-01B DUP</b>				Units: % of sample			Analysis Date: <b>7/29/2019 09:41 AM</b>		
Client ID:		Run ID: <b>MOIST_190729A</b>				SeqNo: <b>5812386</b>			Prep Date:		DF: <b>1</b>
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	

Moisture 5.18 0.10 0 0 0 0-0 4.96 4.34 10

The following samples were analyzed in this batch:

19071747-01A
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Note: See Qualifiers Page for a list of Qualifiers and their explanation.



Sample Receipt Checklist

Client Name: **LTENV**  
 Work Order: **19071747**

Date/Time Received: **27-Jul-19 10:30**  
 Received by: **DS**

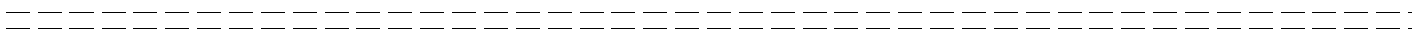
Checklist completed by Diane Shaw 27-Jul-19  
eSignature Date

Reviewed by: Chad Whilton 29-Jul-19  
eSignature Date

Matrices: **Soil**  
 Carrier name: **FedEx**

Shipping container/cooler in good condition?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>
Custody seals intact on shipping container/cooler?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
Custody seals intact on sample bottles?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
Chain of custody present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody signed when relinquished and received?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody agrees with sample labels?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Samples in proper container/bottle?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample containers intact?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sufficient sample volume for indicated test?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
All samples received within holding time?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Container/Temp Blank temperature in compliance?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample(s) received on ice?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Temperature(s)/Thermometer(s):	<input type="text" value="5.2/5.2 c"/>		<input type="text" value="SR2"/>
Cooler(s)/Kit(s):	<input type="text"/>		
Date/Time sample(s) sent to storage:	<input type="text" value="7/27/2019 10:36:55 AM"/>		
Water - VOA vials have zero headspace?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	No VOA vials submitted <input checked="" type="checkbox"/>
Water - pH acceptable upon receipt?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A <input checked="" type="checkbox"/>
pH adjusted?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A <input checked="" type="checkbox"/>
pH adjusted by:	<input type="text"/>		

Login Notes:



Client Contacted: \_\_\_\_\_ Date Contacted: \_\_\_\_\_ Person Contacted: \_\_\_\_\_  
 Contacted By: \_\_\_\_\_ Regarding: \_\_\_\_\_

Comments:

CorrectiveAction: