23-Aug-2019

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

Re: **GGU 13-29 Excavation** Work Order: **19071718**

Dear Chris,

ALS Environmental received 7 samples on 26-Jul-2019 09:30 AM 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 37.

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,

Electronically approved by: Chad Whelton

Chad Whelton
Project Manager

Report of Laboratory Analysis

Certificate No: MN 026-999-449

ALS Group, USA

Date: 23-Aug-19

Client: LT Environmental, Inc
Project: GGU 13-29 Excavation
Work Order: **19071718**

Work Order Sample Summary

Lab Samp ID	Client Sample ID	Matrix	Tag Number	Collection Date	Date Received	Hold
19071718-01	N. Wall E. Side @ 9'	Soil		7/25/2019 08:12	7/26/2019 09:30	☐
19071718-02	E. Wall @ 9'	Soil		7/25/2019 08:17	7/26/2019 09:30	☐
19071718-03	W. Floor @ 10'	Soil		7/25/2019 08:45	7/26/2019 09:30	☐
19071718-04	W. Wall @ 8.5'	Soil		7/25/2019 08:50	7/26/2019 09:30	☐
19071718-05	N. Wall W. Side @ 8.5'	Soil		7/25/2019 08:56	7/26/2019 09:30	☐
19071718-06	S. Wall E. Side @ 10'	Soil		7/25/2019 09:30	7/26/2019 09:30	☐
19071718-07	S. Wall W. Side @ 18'	Soil		7/25/2019 14:14	7/26/2019 09:30	☐

ALS Group, USA

Date: 23-Aug-19

Client: LT Environmental, Inc
Project: GGU 13-29 Excavation
Work Order: 19071718

Case Narrative

Samples for the above noted Work Order were received on 07/26/2019. 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 19071718-07A: Surrogate high due to matrix interference.

Extractable Organics:

No other deviations or anomalies were noted.

Metals:

No other deviations or anomalies were noted.

Wet Chemistry:

No other deviations or anomalies were noted.

Qualifier	Description
*	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.

Acronym	Description
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

Units Reported	Description
% 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

ALS Group, USA

Date: *23-Aug-19*

Client: LT Environmental, Inc
Project: GGU 13-29 Excavation
Work Order: 19071718
Sample ID: N. Wall E. Side @ 9'
Lab ID: 19071718-01
Collection Date: 7/25/2019 08:12 AM
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID			**SW8015M**	Prep: SW3546 7/29/19 13:00		Analyst: **KB**
DRO (C10-C28)	**15**		**6.2**	**mg/Kg-dry**	1	7/30/2019 10:39 AM
Surr: 4-Terphenyl-d14	*37.4*		*33-111*	*%REC*	1	7/30/2019 10:39 AM
GASOLINE RANGE ORGANICS BY GC-FID			**SW8015D**	Prep: SW5035 7/29/19 10:56		Analyst: **KB**
GRO (C6-C10)	ND		8.2	mg/Kg	1	7/29/2019 04:34 PM
Surr: Toluene-d8	*83.6*		*71-123*	*%REC*	1	7/29/2019 04:34 PM
MERCURY BY CVAA			**SW7471B**	Prep: SW7471 8/1/19 15:32		Analyst: **RSH**
Mercury	ND		0.020	mg/Kg-dry	1	8/1/2019 04:56 PM
METALS ANALYSIS BY ICP			**SW846 6010C**	Prep: SW3050B 7/29/19 12:04		Analyst: **DSC**
Arsenic	**4.5**		**0.50**	**mg/Kg-dry**	1	7/30/2019 09:13 PM
Barium	**260**		**1.0**	**mg/Kg-dry**	1	7/30/2019 09:13 PM
Cadmium	ND		1.0	mg/Kg-dry	1	7/30/2019 09:13 PM
Chromium	**8.6**		**0.50**	**mg/Kg-dry**	1	7/31/2019 10:31 PM
Copper	**11**		**1.0**	**mg/Kg-dry**	1	7/30/2019 09:13 PM
Lead	**11**		**0.50**	**mg/Kg-dry**	1	7/30/2019 09:13 PM
Nickel	**9.7**		**0.50**	**mg/Kg-dry**	1	7/30/2019 09:13 PM
Selenium	ND		1.0	mg/Kg-dry	1	7/30/2019 09:13 PM
Silver	ND		0.50	mg/Kg-dry	1	7/30/2019 09:13 PM
Zinc	**45**		**1.0**	**mg/Kg-dry**	1	7/30/2019 09:13 PM
SOLUBLE CATIONS FOR SAR			**SW6020A**	Prep: USDA Method 20B 8/1/19 06:37		Analyst: **ABL**
Calcium	**49**		**5.0**	**mg/L**	10	8/1/2019 01:47 PM
Magnesium	**30**		**2.0**	**mg/L**	10	8/1/2019 01:47 PM
Sodium	**26**		**2.0**	**mg/L**	10	8/1/2019 01:47 PM
SODIUM ADSORPTION RATIO			**USDA H60 MET**	Prep: USDA Method 20B 8/1/19 06:37		Analyst: **ABL**
Sodium Adsorption Ratio	**0.71**		**0.010**	**none**	1	8/1/2019
SEMI-VOLATILE ORGANIC COMPOUNDS			**SW846 8270D**	Prep: SW3546 7/29/19 13:01		Analyst: **EE**
Acenaphthene	ND		8.3	µg/Kg-dry	1	7/30/2019 02:05 PM
Anthracene	ND		8.3	µg/Kg-dry	1	7/30/2019 02:05 PM
Benzo(a)anthracene	ND		8.3	µg/Kg-dry	1	7/30/2019 02:05 PM
Benzo(a)pyrene	ND		8.3	µg/Kg-dry	1	7/30/2019 02:05 PM
Benzo(b)fluoranthene	ND		8.3	µg/Kg-dry	1	7/30/2019 02:05 PM
Benzo(k)fluoranthene	ND		8.3	µg/Kg-dry	1	7/30/2019 02:05 PM
Chrysene	ND		8.3	µg/Kg-dry	1	7/30/2019 02:05 PM
Dibenzo(a,h)anthracene	ND		8.3	µg/Kg-dry	1	7/30/2019 02:05 PM
Fluoranthene	ND		8.3	µg/Kg-dry	1	7/30/2019 02:05 PM

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

Client: LT Environmental, Inc
Project: GGU 13-29 Excavation **Work Order:** 19071718
Sample ID: N. Wall E. Side @ 9' **Lab ID:** 19071718-01
Collection Date: 7/25/2019 08:12 AM **Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Fluorene	ND		8.3	µg/Kg-dry	1	7/30/2019 02:05 PM
Indeno(1,2,3-cd)pyrene	ND		8.3	µg/Kg-dry	1	7/30/2019 02:05 PM
Naphthalene	ND		8.3	µg/Kg-dry	1	7/30/2019 02:05 PM
Pyrene	ND		8.3	µg/Kg-dry	1	7/30/2019 02:05 PM
Surr: 2-Fluorobiphenyl	*65.3*		*44-107*	*%REC*	1	7/30/2019 02:05 PM
Surr: 4-Terphenyl-d14	*64.8*		*52-123*	*%REC*	1	7/30/2019 02:05 PM
Surr: Nitrobenzene-d5	*73.2*		*41-94*	*%REC*	1	7/30/2019 02:05 PM
VOLATILE ORGANIC COMPOUNDS			**SW8260C**	Prep: SW5035 7/29/19 10:49		Analyst: **PM**
Benzene	ND		0.049	mg/Kg	1	7/30/2019 01:02 AM
Ethylbenzene	ND		0.049	mg/Kg	1	7/30/2019 01:02 AM
m,p-Xylene	ND		0.098	mg/Kg	1	7/30/2019 01:02 AM
o-Xylene	ND		0.049	mg/Kg	1	7/30/2019 01:02 AM
Toluene	ND		0.049	mg/Kg	1	7/30/2019 01:02 AM
Xylenes, Total	ND		0.15	mg/Kg	1	7/30/2019 01:02 AM
Surr: 1,2-Dichloroethane-d4	*105*		*70-130*	*%REC*	1	7/30/2019 01:02 AM
Surr: 4-Bromofluorobenzene	*102*		*70-130*	*%REC*	1	7/30/2019 01:02 AM
Surr: Dibromofluoromethane	*86.2*		*70-130*	*%REC*	1	7/30/2019 01:02 AM
Surr: Toluene-d8	*98.4*		*70-130*	*%REC*	1	7/30/2019 01:02 AM
ELECTRICAL CONDUCTIVITY (SAR)			**USDA H60 MET**	Prep: USDA Method 20B 8/1/19 06:37		Analyst: **DVD**
Electrical Conductivity @ Saturation	**0.65**		**0.10**	**mmhos/cm @2**	20	8/1/2019 12:30 PM
CHROMIUM, TRIVALENT			**CALCULATION**			Analyst: **JZB**
Chromium, Trivalent	**8.6**		**1.3**	**mg/Kg-dry**	1	8/1/2019 09:15 AM
CHROMIUM, HEXAVALENT			**SW7196A**	Prep: SW3060A 7/31/19 09:00		Analyst: **RZM**
Chromium, Hexavalent	ND		1.3	mg/Kg-dry	1	7/31/2019 02:47 PM
MOISTURE			**SW3550C**			Analyst: **MMO**
Moisture	**24**		**0.10**	**% of sample**	1	7/29/2019 12:17 PM
PH			**SW9045D**	Prep: EXTRACT 7/29/19 10:29		Analyst: **DNW**
pH	**8.27**		**0.100**	**s.u.**	1	7/29/2019 03:00 PM
Temperature	**21.8**		**0.100**	**°C**	1	7/29/2019 03:00 PM

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

ALS Group, USA

Date: *23-Aug-19*

Client: LT Environmental, Inc
Project: GGU 13-29 Excavation
Work Order: 19071718
Sample ID: E. Wall @ 9'
Lab ID: 19071718-02
Collection Date: 7/25/2019 08:17 AM
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID			**SW8015M**	Prep: SW3546 7/29/19 13:00		Analyst: **KB**
DRO (C10-C28)	ND		11	mg/Kg-dry	1	7/30/2019 12:06 PM
Surr: 4-Terphenyl-d14	*41.4*		*33-111*	*%REC*	1	7/30/2019 12:06 PM
GASOLINE RANGE ORGANICS BY GC-FID			**SW8015D**	Prep: SW5035 7/29/19 10:56		Analyst: **KB**
GRO (C6-C10)	ND		7.2	mg/Kg	1	7/29/2019 05:04 PM
Surr: Toluene-d8	*85.6*		*71-123*	*%REC*	1	7/29/2019 05:04 PM
MERCURY BY CVAA			**SW7471B**	Prep: SW7471 8/1/19 15:32		Analyst: **RSH**
Mercury	ND		0.022	mg/Kg-dry	1	8/1/2019 04:58 PM
METALS ANALYSIS BY ICP			**SW846 6010C**	Prep: SW3050B 7/29/19 12:04		Analyst: **DSC**
Arsenic	**3.6**		**0.43**	**mg/Kg-dry**	1	7/30/2019 09:19 PM
Barium	**260**		**0.86**	**mg/Kg-dry**	1	7/30/2019 09:19 PM
Cadmium	ND		0.86	mg/Kg-dry	1	7/30/2019 09:19 PM
Chromium	**7.3**		**0.43**	**mg/Kg-dry**	1	7/31/2019 10:50 PM
Copper	**10**		**0.86**	**mg/Kg-dry**	1	7/30/2019 09:19 PM
Lead	**8.3**		**0.43**	**mg/Kg-dry**	1	7/30/2019 09:19 PM
Nickel	**8.9**		**0.43**	**mg/Kg-dry**	1	7/30/2019 09:19 PM
Selenium	ND		0.86	mg/Kg-dry	1	7/30/2019 09:19 PM
Silver	ND		0.43	mg/Kg-dry	1	7/30/2019 09:19 PM
Zinc	**41**		**0.86**	**mg/Kg-dry**	1	7/30/2019 09:19 PM
SOLUBLE CATIONS FOR SAR			**SW6020A**	Prep: USDA Method 20B 8/1/19 06:37		Analyst: **ABL**
Calcium	**49**		**5.0**	**mg/L**	10	8/1/2019 01:48 PM
Magnesium	**21**		**2.0**	**mg/L**	10	8/1/2019 01:48 PM
Sodium	**22**		**2.0**	**mg/L**	10	8/1/2019 01:48 PM
SODIUM ADSORPTION RATIO			**USDA H60 MET**	Prep: USDA Method 20B 8/1/19 06:37		Analyst: **ABL**
Sodium Adsorption Ratio	**0.68**		**0.010**	**none**	1	8/1/2019
SEMI-VOLATILE ORGANIC COMPOUNDS			**SW846 8270D**	Prep: SW3546 7/29/19 13:01		Analyst: **EE**
Acenaphthene	ND		14	µg/Kg-dry	1	7/30/2019 04:38 PM
Anthracene	ND		14	µg/Kg-dry	1	7/30/2019 04:38 PM
Benzo(a)anthracene	ND		14	µg/Kg-dry	1	7/30/2019 04:38 PM
Benzo(a)pyrene	ND		14	µg/Kg-dry	1	7/30/2019 04:38 PM
Benzo(b)fluoranthene	ND		14	µg/Kg-dry	1	7/30/2019 04:38 PM
Benzo(k)fluoranthene	ND		14	µg/Kg-dry	1	7/30/2019 04:38 PM
Chrysene	ND		14	µg/Kg-dry	1	7/30/2019 04:38 PM
Dibenzo(a,h)anthracene	ND		14	µg/Kg-dry	1	7/30/2019 04:38 PM
Fluoranthene	ND		14	µg/Kg-dry	1	7/30/2019 04:38 PM

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

Client: LT Environmental, Inc
Project: GGU 13-29 Excavation **Work Order:** 19071718
Sample ID: E. Wall @ 9' **Lab ID:** 19071718-02
Collection Date: 7/25/2019 08:17 AM **Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Fluorene	ND		14	µg/Kg-dry	1	7/30/2019 04:38 PM
Indeno(1,2,3-cd)pyrene	ND		14	µg/Kg-dry	1	7/30/2019 04:38 PM
Naphthalene	ND		14	µg/Kg-dry	1	7/30/2019 04:38 PM
Pyrene	ND		14	µg/Kg-dry	1	7/30/2019 04:38 PM
Surr: 2-Fluorobiphenyl	*65.5*		*44-107*	*%REC*	1	7/30/2019 04:38 PM
Surr: 4-Terphenyl-d14	*73.2*		*52-123*	*%REC*	1	7/30/2019 04:38 PM
Surr: Nitrobenzene-d5	*70.3*		*41-94*	*%REC*	1	7/30/2019 04:38 PM
VOLATILE ORGANIC COMPOUNDS			**SW8260C**	Prep: SW5035 7/29/19 10:49		Analyst: **PM**
Benzene	ND		0.043	mg/Kg	1	7/30/2019 01:20 AM
Ethylbenzene	ND		0.043	mg/Kg	1	7/30/2019 01:20 AM
m,p-Xylene	ND		0.086	mg/Kg	1	7/30/2019 01:20 AM
o-Xylene	ND		0.043	mg/Kg	1	7/30/2019 01:20 AM
Toluene	ND		0.043	mg/Kg	1	7/30/2019 01:20 AM
Xylenes, Total	ND		0.13	mg/Kg	1	7/30/2019 01:20 AM
Surr: 1,2-Dichloroethane-d4	*103*		*70-130*	*%REC*	1	7/30/2019 01:20 AM
Surr: 4-Bromofluorobenzene	*102*		*70-130*	*%REC*	1	7/30/2019 01:20 AM
Surr: Dibromofluoromethane	*83.8*		*70-130*	*%REC*	1	7/30/2019 01:20 AM
Surr: Toluene-d8	*101*		*70-130*	*%REC*	1	7/30/2019 01:20 AM
ELECTRICAL CONDUCTIVITY (SAR)			**USDA H60 MET**	Prep: USDA Method 20B 8/1/19 06:37		Analyst: **DVD**
Electrical Conductivity @ Saturation	**0.54**		**0.10**	**mmhos/cm @2**	20	8/1/2019 12:30 PM
CHROMIUM, TRIVALENT			**CALCULATION**			Analyst: **JZB**
Chromium, Trivalent	**7.3**		**1.2**	**mg/Kg-dry**	1	8/1/2019 09:15 AM
CHROMIUM, HEXAVALENT			**SW7196A**	Prep: SW3060A 7/31/19 09:00		Analyst: **RZM**
Chromium, Hexavalent	ND		1.2	mg/Kg-dry	1	7/31/2019 02:47 PM
MOISTURE			**SW3550C**			Analyst: **MMO**
Moisture	**16**		**0.10**	**% of sample**	1	7/29/2019 02:52 PM
PH			**SW9045D**	Prep: EXTRACT 7/29/19 10:29		Analyst: **DNW**
pH	**8.50**		**0.100**	**s.u.**	1	7/29/2019 03:00 PM
Temperature	**21.8**		**0.100**	**°C**	1	7/29/2019 03:00 PM

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

ALS Group, USA

Date: *23-Aug-19*

Client: LT Environmental, Inc
Project: GGU 13-29 Excavation
Work Order: 19071718
Sample ID: W. Floor @ 10'
Lab ID: 19071718-03
Collection Date: 7/25/2019 08:45 AM
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID			**SW8015M**	Prep: SW3546 7/29/19 13:00		Analyst: **KB**
DRO (C10-C28)	ND		5.8	mg/Kg-dry	1	7/30/2019 12:35 PM
Surr: 4-Terphenyl-d14	*36.7*		*33-111*	*%REC*	1	7/30/2019 12:35 PM
GASOLINE RANGE ORGANICS BY GC-FID			**SW8015D**	Prep: SW5035 7/29/19 10:56		Analyst: **KB**
GRO (C6-C10)	ND		6.1	mg/Kg	1	7/29/2019 05:34 PM
Surr: Toluene-d8	*84.7*		*71-123*	*%REC*	1	7/29/2019 05:34 PM
MERCURY BY CVAA			**SW7471B**	Prep: SW7471 8/1/19 15:32		Analyst: **RSH**
Mercury	ND		0.021	mg/Kg-dry	1	8/1/2019 05:00 PM
METALS ANALYSIS BY ICP			**SW846 6010C**	Prep: SW3050B 7/29/19 12:04		Analyst: **DSC**
Arsenic	**3.6**		**0.41**	**mg/Kg-dry**	1	7/30/2019 09:25 PM
Barium	**250**		**0.81**	**mg/Kg-dry**	1	7/30/2019 09:25 PM
Cadmium	ND		0.81	mg/Kg-dry	1	7/30/2019 09:25 PM
Chromium	**7.2**		**0.41**	**mg/Kg-dry**	1	7/31/2019 10:56 PM
Copper	**12**		**0.81**	**mg/Kg-dry**	1	7/30/2019 09:25 PM
Lead	**9.6**		**0.41**	**mg/Kg-dry**	1	7/30/2019 09:25 PM
Nickel	**9.5**		**0.41**	**mg/Kg-dry**	1	7/30/2019 09:25 PM
Selenium	ND		0.81	mg/Kg-dry	1	7/30/2019 09:25 PM
Silver	ND		0.41	mg/Kg-dry	1	7/30/2019 09:25 PM
Zinc	**46**		**0.81**	**mg/Kg-dry**	1	7/30/2019 09:25 PM
SOLUBLE CATIONS FOR SAR			**SW6020A**	Prep: USDA Method 20B 8/1/19 06:37		Analyst: **ABL**
Calcium	**40**		**5.0**	**mg/L**	10	8/1/2019 01:50 PM
Magnesium	**15**		**2.0**	**mg/L**	10	8/1/2019 01:50 PM
Sodium	**21**		**2.0**	**mg/L**	10	8/1/2019 01:50 PM
SODIUM ADSORPTION RATIO			**USDA H60 MET**	Prep: USDA Method 20B 8/1/19 06:37		Analyst: **ABL**
Sodium Adsorption Ratio	**0.72**		**0.010**	**none**	1	8/1/2019
SEMI-VOLATILE ORGANIC COMPOUNDS			**SW846 8270D**	Prep: SW3546 7/29/19 13:01		Analyst: **EE**
Acenaphthene	ND		7.8	µg/Kg-dry	1	7/30/2019 05:03 PM
Anthracene	ND		7.8	µg/Kg-dry	1	7/30/2019 05:03 PM
Benzo(a)anthracene	ND		7.8	µg/Kg-dry	1	7/30/2019 05:03 PM
Benzo(a)pyrene	ND		7.8	µg/Kg-dry	1	7/30/2019 05:03 PM
Benzo(b)fluoranthene	ND		7.8	µg/Kg-dry	1	7/30/2019 05:03 PM
Benzo(k)fluoranthene	ND		7.8	µg/Kg-dry	1	7/30/2019 05:03 PM
Chrysene	ND		7.8	µg/Kg-dry	1	7/30/2019 05:03 PM
Dibenzo(a,h)anthracene	ND		7.8	µg/Kg-dry	1	7/30/2019 05:03 PM
Fluoranthene	ND		7.8	µg/Kg-dry	1	7/30/2019 05:03 PM

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

Client: LT Environmental, Inc
Project: GGU 13-29 Excavation **Work Order:** 19071718
Sample ID: W. Floor @ 10' **Lab ID:** 19071718-03
Collection Date: 7/25/2019 08:45 AM **Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Fluorene	ND		7.8	µg/Kg-dry	1	7/30/2019 05:03 PM
Indeno(1,2,3-cd)pyrene	ND		7.8	µg/Kg-dry	1	7/30/2019 05:03 PM
Naphthalene	ND		7.8	µg/Kg-dry	1	7/30/2019 05:03 PM
Pyrene	ND		7.8	µg/Kg-dry	1	7/30/2019 05:03 PM
Surr: 2-Fluorobiphenyl	*53.3*		*44-107*	*%REC*	1	7/30/2019 05:03 PM
Surr: 4-Terphenyl-d14	*56.6*		*52-123*	*%REC*	1	7/30/2019 05:03 PM
Surr: Nitrobenzene-d5	*58.9*		*41-94*	*%REC*	1	7/30/2019 05:03 PM
VOLATILE ORGANIC COMPOUNDS			**SW8260C**	Prep: SW5035 7/29/19 10:49		Analyst: **PM**
Benzene	ND		0.037	mg/Kg	1	7/30/2019 01:37 AM
Ethylbenzene	ND		0.037	mg/Kg	1	7/30/2019 01:37 AM
m,p-Xylene	ND		0.074	mg/Kg	1	7/30/2019 01:37 AM
o-Xylene	ND		0.037	mg/Kg	1	7/30/2019 01:37 AM
Toluene	ND		0.037	mg/Kg	1	7/30/2019 01:37 AM
Xylenes, Total	ND		0.11	mg/Kg	1	7/30/2019 01:37 AM
Surr: 1,2-Dichloroethane-d4	*101*		*70-130*	*%REC*	1	7/30/2019 01:37 AM
Surr: 4-Bromofluorobenzene	*102*		*70-130*	*%REC*	1	7/30/2019 01:37 AM
Surr: Dibromofluoromethane	*81.9*		*70-130*	*%REC*	1	7/30/2019 01:37 AM
Surr: Toluene-d8	*98.5*		*70-130*	*%REC*	1	7/30/2019 01:37 AM
ELECTRICAL CONDUCTIVITY (SAR)			**USDA H60 MET**	Prep: USDA Method 20B 8/1/19 06:37		Analyst: **DVD**
Electrical Conductivity @ Saturation	**0.45**		**0.10**	**mmhos/cm @2**	20	8/1/2019 12:30 PM
CHROMIUM, TRIVALENT			**CALCULATION**			Analyst: **JZB**
Chromium, Trivalent	**7.2**		**1.2**	**mg/Kg-dry**	1	8/1/2019 09:15 AM
CHROMIUM, HEXAVALENT			**SW7196A**	Prep: SW3060A 7/31/19 09:00		Analyst: **RZM**
Chromium, Hexavalent	ND		1.2	mg/Kg-dry	1	7/31/2019 02:47 PM
MOISTURE			**SW3550C**			Analyst: **MMO**
Moisture	**14**		**0.10**	**% of sample**	1	7/29/2019 02:52 PM
PH			**SW9045D**	Prep: EXTRACT 7/29/19 10:29		Analyst: **DNW**
pH	**8.45**		**0.100**	**s.u.**	1	7/29/2019 03:00 PM
Temperature	**21.8**		**0.100**	**°C**	1	7/29/2019 03:00 PM

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

ALS Group, USA

Date: *23-Aug-19*

Client: LT Environmental, Inc
Project: GGU 13-29 Excavation
Work Order: 19071718
Sample ID: W. Wall @ 8.5'
Lab ID: 19071718-04
Collection Date: 7/25/2019 08:50 AM
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID			**SW8015M**	Prep: SW3546 7/29/19 13:00		Analyst: **KB**
DRO (C10-C28)	**9.2**		**5.7**	**mg/Kg-dry**	1	7/30/2019 01:05 PM
Surr: 4-Terphenyl-d14	*44.1*		*33-111*	*%REC*	1	7/30/2019 01:05 PM
GASOLINE RANGE ORGANICS BY GC-FID			**SW8015D**	Prep: SW5035 7/29/19 10:56		Analyst: **KB**
GRO (C6-C10)	ND		7.0	mg/Kg	1	7/29/2019 06:03 PM
Surr: Toluene-d8	*86.8*		*71-123*	*%REC*	1	7/29/2019 06:03 PM
MERCURY BY CVAA			**SW7471B**	Prep: SW7471 8/1/19 15:32		Analyst: **RSH**
Mercury	ND		0.020	mg/Kg-dry	1	8/1/2019 05:02 PM
METALS ANALYSIS BY ICP			**SW846 6010C**	Prep: SW3050B 7/29/19 12:04		Analyst: **DSC**
Arsenic	**3.8**		**0.39**	**mg/Kg-dry**	1	7/30/2019 09:32 PM
Barium	**230**		**0.79**	**mg/Kg-dry**	1	7/30/2019 09:32 PM
Cadmium	ND		0.79	mg/Kg-dry	1	7/30/2019 09:32 PM
Chromium	**7.8**		**0.39**	**mg/Kg-dry**	1	7/31/2019 11:02 PM
Copper	**12**		**0.79**	**mg/Kg-dry**	1	7/30/2019 09:32 PM
Lead	**8.7**		**0.39**	**mg/Kg-dry**	1	7/30/2019 09:32 PM
Nickel	**10**		**0.39**	**mg/Kg-dry**	1	7/30/2019 09:32 PM
Selenium	ND		0.79	mg/Kg-dry	1	7/30/2019 09:32 PM
Silver	ND		0.39	mg/Kg-dry	1	7/30/2019 09:32 PM
Zinc	**44**		**0.79**	**mg/Kg-dry**	1	7/30/2019 09:32 PM
SOLUBLE CATIONS FOR SAR			**SW6020A**	Prep: USDA Method 20B 8/1/19 06:37		Analyst: **ABL**
Calcium	**130**		**5.0**	**mg/L**	10	8/1/2019 01:51 PM
Magnesium	**36**		**2.0**	**mg/L**	10	8/1/2019 01:51 PM
Sodium	**39**		**2.0**	**mg/L**	10	8/1/2019 01:51 PM
SODIUM ADSORPTION RATIO			**USDA H60 MET**	Prep: USDA Method 20B 8/1/19 06:37		Analyst: **ABL**
Sodium Adsorption Ratio	**0.78**		**0.010**	**none**	1	8/1/2019
SEMI-VOLATILE ORGANIC COMPOUNDS			**SW846 8270D**	Prep: SW3546 7/29/19 13:01		Analyst: **EE**
Acenaphthene	ND		7.6	µg/Kg-dry	1	7/30/2019 05:29 PM
Anthracene	ND		7.6	µg/Kg-dry	1	7/30/2019 05:29 PM
Benzo(a)anthracene	ND		7.6	µg/Kg-dry	1	7/30/2019 05:29 PM
Benzo(a)pyrene	ND		7.6	µg/Kg-dry	1	7/30/2019 05:29 PM
Benzo(b)fluoranthene	ND		7.6	µg/Kg-dry	1	7/30/2019 05:29 PM
Benzo(k)fluoranthene	ND		7.6	µg/Kg-dry	1	7/30/2019 05:29 PM
Chrysene	ND		7.6	µg/Kg-dry	1	7/30/2019 05:29 PM
Dibenzo(a,h)anthracene	ND		7.6	µg/Kg-dry	1	7/30/2019 05:29 PM
Fluoranthene	ND		7.6	µg/Kg-dry	1	7/30/2019 05:29 PM

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

Client: LT Environmental, Inc
Project: GGU 13-29 Excavation **Work Order:** 19071718
Sample ID: W. Wall @ 8.5' **Lab ID:** 19071718-04
Collection Date: 7/25/2019 08:50 AM **Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Fluorene	ND		7.6	µg/Kg-dry	1	7/30/2019 05:29 PM
Indeno(1,2,3-cd)pyrene	ND		7.6	µg/Kg-dry	1	7/30/2019 05:29 PM
Naphthalene	**18**		**7.6**	**µg/Kg-dry**	1	7/30/2019 05:29 PM
Pyrene	ND		7.6	µg/Kg-dry	1	7/30/2019 05:29 PM
Surr: 2-Fluorobiphenyl	*69.9*		*44-107*	*%REC*	1	7/30/2019 05:29 PM
Surr: 4-Terphenyl-d14	*81.3*		*52-123*	*%REC*	1	7/30/2019 05:29 PM
Surr: Nitrobenzene-d5	*71.6*		*41-94*	*%REC*	1	7/30/2019 05:29 PM
VOLATILE ORGANIC COMPOUNDS			**SW8260C**	Prep: SW5035 7/29/19 10:49		Analyst: **PM**
Benzene	ND		0.042	mg/Kg	1	7/30/2019 01:55 AM
Ethylbenzene	ND		0.042	mg/Kg	1	7/30/2019 01:55 AM
m,p-Xylene	ND		0.084	mg/Kg	1	7/30/2019 01:55 AM
o-Xylene	ND		0.042	mg/Kg	1	7/30/2019 01:55 AM
Toluene	ND		0.042	mg/Kg	1	7/30/2019 01:55 AM
Xylenes, Total	ND		0.13	mg/Kg	1	7/30/2019 01:55 AM
Surr: 1,2-Dichloroethane-d4	*101*		*70-130*	*%REC*	1	7/30/2019 01:55 AM
Surr: 4-Bromofluorobenzene	*103*		*70-130*	*%REC*	1	7/30/2019 01:55 AM
Surr: Dibromofluoromethane	*81.9*		*70-130*	*%REC*	1	7/30/2019 01:55 AM
Surr: Toluene-d8	*99.6*		*70-130*	*%REC*	1	7/30/2019 01:55 AM
ELECTRICAL CONDUCTIVITY (SAR)			**USDA H60 MET**	Prep: USDA Method 20B 8/1/19 06:37		Analyst: **DVD**
Electrical Conductivity @ Saturation	**1.1**		**0.10**	**mmhos/cm @2**	20	8/1/2019 12:30 PM
CHROMIUM, TRIVALENT			**CALCULATION**			Analyst: **JZB**
Chromium, Trivalent	**7.8**		**1.2**	**mg/Kg-dry**	1	8/1/2019 09:15 AM
CHROMIUM, HEXAVALENT			**SW7196A**	Prep: SW3060A 7/31/19 09:00		Analyst: **RZM**
Chromium, Hexavalent	ND		1.2	mg/Kg-dry	1	7/31/2019 02:47 PM
MOISTURE			**SW3550C**			Analyst: **MMO**
Moisture	**15**		**0.10**	**% of sample**	1	7/29/2019 02:52 PM
PH			**SW9045D**	Prep: EXTRACT 7/29/19 10:29		Analyst: **DNW**
pH	**8.25**		**0.100**	**s.u.**	1	7/29/2019 03:00 PM
Temperature	**21.9**		**0.100**	**°C**	1	7/29/2019 03:00 PM

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

ALS Group, USA

Date: *23-Aug-19*

Client: LT Environmental, Inc
Project: GGU 13-29 Excavation
Work Order: 19071718
Sample ID: N. Wall W. Side @ 8.5'
Lab ID: 19071718-05
Collection Date: 7/25/2019 08:56 AM
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID			**SW8015M**	Prep: SW3546 7/29/19 13:00		Analyst: **KB**
DRO (C10-C28)	**21**		**13**	**mg/Kg-dry**	1	7/30/2019 01:34 PM
Surr: 4-Terphenyl-d14	*46.1*		*33-111*	*%REC*	1	7/30/2019 01:34 PM
GASOLINE RANGE ORGANICS BY GC-FID			**SW8015D**	Prep: SW5035 7/29/19 10:56		Analyst: **KB**
GRO (C6-C10)	ND		6.6	mg/Kg	1	7/29/2019 06:33 PM
Surr: Toluene-d8	*98.8*		*71-123*	*%REC*	1	7/29/2019 06:33 PM
MERCURY BY CVAA			**SW7471B**	Prep: SW7471 8/1/19 15:32		Analyst: **RSH**
Mercury	ND		0.021	mg/Kg-dry	1	8/1/2019 05:05 PM
METALS ANALYSIS BY ICP			**SW846 6010C**	Prep: SW3050B 7/29/19 12:04		Analyst: **DSC**
Arsenic	**3.2**		**0.45**	**mg/Kg-dry**	1	7/30/2019 09:38 PM
Barium	**190**		**0.91**	**mg/Kg-dry**	1	7/30/2019 09:38 PM
Cadmium	ND		0.91	mg/Kg-dry	1	7/30/2019 09:38 PM
Chromium	**8.3**		**0.45**	**mg/Kg-dry**	1	7/31/2019 11:08 PM
Copper	**12**		**0.91**	**mg/Kg-dry**	1	7/30/2019 09:38 PM
Lead	**9.7**		**0.45**	**mg/Kg-dry**	1	7/30/2019 09:38 PM
Nickel	**11**		**0.45**	**mg/Kg-dry**	1	7/30/2019 09:38 PM
Selenium	ND		0.91	mg/Kg-dry	1	7/30/2019 09:38 PM
Silver	ND		0.45	mg/Kg-dry	1	7/30/2019 09:38 PM
Zinc	**50**		**0.91**	**mg/Kg-dry**	1	7/30/2019 09:38 PM
SOLUBLE CATIONS FOR SAR			**SW6020A**	Prep: USDA Method 20B 8/1/19 06:37		Analyst: **ABL**
Calcium	**38**		**5.0**	**mg/L**	10	8/1/2019 01:56 PM
Magnesium	**8.7**		**2.0**	**mg/L**	10	8/1/2019 01:56 PM
Sodium	**7.9**		**2.0**	**mg/L**	10	8/1/2019 01:56 PM
SODIUM ADSORPTION RATIO			**USDA H60 MET**	Prep: USDA Method 20B 8/1/19 06:37		Analyst: **ABL**
Sodium Adsorption Ratio	**0.30**		**0.010**	**none**	1	8/1/2019
SEMI-VOLATILE ORGANIC COMPOUNDS			**SW846 8270D**	Prep: SW3546 7/29/19 13:01		Analyst: **EE**
Acenaphthene	ND		17	µg/Kg-dry	1	7/30/2019 05:54 PM
Anthracene	ND		17	µg/Kg-dry	1	7/30/2019 05:54 PM
Benzo(a)anthracene	ND		17	µg/Kg-dry	1	7/30/2019 05:54 PM
Benzo(a)pyrene	ND		17	µg/Kg-dry	1	7/30/2019 05:54 PM
Benzo(b)fluoranthene	ND		17	µg/Kg-dry	1	7/30/2019 05:54 PM
Benzo(k)fluoranthene	ND		17	µg/Kg-dry	1	7/30/2019 05:54 PM
Chrysene	ND		17	µg/Kg-dry	1	7/30/2019 05:54 PM
Dibenzo(a,h)anthracene	ND		17	µg/Kg-dry	1	7/30/2019 05:54 PM
Fluoranthene	ND		17	µg/Kg-dry	1	7/30/2019 05:54 PM

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

Client: LT Environmental, Inc
Project: GGU 13-29 Excavation **Work Order:** 19071718
Sample ID: N. Wall W. Side @ 8.5' **Lab ID:** 19071718-05
Collection Date: 7/25/2019 08:56 AM **Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Fluorene	ND		17	µg/Kg-dry	1	7/30/2019 05:54 PM
Indeno(1,2,3-cd)pyrene	ND		17	µg/Kg-dry	1	7/30/2019 05:54 PM
Naphthalene	ND		17	µg/Kg-dry	1	7/30/2019 05:54 PM
Pyrene	ND		17	µg/Kg-dry	1	7/30/2019 05:54 PM
Surr: 2-Fluorobiphenyl	*67.9*		*44-107*	*%REC*	1	7/30/2019 05:54 PM
Surr: 4-Terphenyl-d14	*80.9*		*52-123*	*%REC*	1	7/30/2019 05:54 PM
Surr: Nitrobenzene-d5	*70.0*		*41-94*	*%REC*	1	7/30/2019 05:54 PM
VOLATILE ORGANIC COMPOUNDS			**SW8260C**	Prep: SW5035 7/29/19 10:49		Analyst: **BG**
Benzene	ND		0.040	mg/Kg	1	8/1/2019 08:36 PM
Ethylbenzene	ND		0.040	mg/Kg	1	8/1/2019 08:36 PM
m,p-Xylene	ND		0.080	mg/Kg	1	8/1/2019 08:36 PM
o-Xylene	ND		0.040	mg/Kg	1	8/1/2019 08:36 PM
Toluene	ND		0.040	mg/Kg	1	8/1/2019 08:36 PM
Xylenes, Total	ND		0.12	mg/Kg	1	8/1/2019 08:36 PM
Surr: 1,2-Dichloroethane-d4	*96.6*		*70-130*	*%REC*	1	8/1/2019 08:36 PM
Surr: 4-Bromofluorobenzene	*95.3*		*70-130*	*%REC*	1	8/1/2019 08:36 PM
Surr: Dibromofluoromethane	*85.0*		*70-130*	*%REC*	1	8/1/2019 08:36 PM
Surr: Toluene-d8	*97.8*		*70-130*	*%REC*	1	8/1/2019 08:36 PM
ELECTRICAL CONDUCTIVITY (SAR)			**USDA H60 MET**	Prep: USDA Method 20B 8/1/19 06:37		Analyst: **DVD**
Electrical Conductivity @ Saturation	**0.31**		**0.10**	**mmhos/cm @2**	20	8/1/2019 12:30 PM
CHROMIUM, TRIVALENT			**CALCULATION**			Analyst: **JZB**
Chromium, Trivalent	**8.3**		**1.2**	**mg/Kg-dry**	1	8/1/2019 09:15 AM
CHROMIUM, HEXAVALENT			**SW7196A**	Prep: SW3060A 7/31/19 09:00		Analyst: **RZM**
Chromium, Hexavalent	ND		1.2	mg/Kg-dry	1	7/31/2019 02:47 PM
MOISTURE			**SW3550C**			Analyst: **MMO**
Moisture	**16**		**0.10**	**% of sample**	1	7/29/2019 02:52 PM
PH			**SW9045D**	Prep: EXTRACT 7/29/19 10:29		Analyst: **DNW**
pH	**9.01**		**0.100**	**s.u.**	1	7/29/2019 03:00 PM
Temperature	**22.0**		**0.100**	**°C**	1	7/29/2019 03:00 PM

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

ALS Group, USA

Date: *23-Aug-19*

Client: LT Environmental, Inc
Project: GGU 13-29 Excavation
Work Order: 19071718
Sample ID: S. Wall E. Side @ 10'
Lab ID: 19071718-06
Collection Date: 7/25/2019 09:30 AM
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID			**SW8015M**	Prep: SW3546 7/29/19 13:00		Analyst: **KB**
DRO (C10-C28)	**6.0**		**5.6**	**mg/Kg-dry**	1	7/30/2019 02:03 PM
Surr: 4-Terphenyl-d14	*41.6*		*33-111*	*%REC*	1	7/30/2019 02:03 PM
GASOLINE RANGE ORGANICS BY GC-FID			**SW8015D**	Prep: SW5035 7/29/19 10:56		Analyst: **KB**
GRO (C6-C10)	ND		6.3	mg/Kg	1	7/29/2019 07:03 PM
Surr: Toluene-d8	*90.3*		*71-123*	*%REC*	1	7/29/2019 07:03 PM
MERCURY BY CVAA			**SW7471B**	Prep: SW7471 8/1/19 15:32		Analyst: **RSH**
Mercury	ND		0.018	mg/Kg-dry	1	8/1/2019 05:07 PM
METALS ANALYSIS BY ICP			**SW846 6010C**	Prep: SW3050B 7/29/19 12:04		Analyst: **DSC**
Arsenic	**4.7**		**0.43**	**mg/Kg-dry**	1	7/30/2019 09:56 PM
Barium	**260**		**0.85**	**mg/Kg-dry**	1	7/30/2019 09:56 PM
Cadmium	ND		0.85	mg/Kg-dry	1	7/30/2019 09:56 PM
Chromium	**8.5**		**0.43**	**mg/Kg-dry**	1	7/31/2019 11:14 PM
Copper	**12**		**0.85**	**mg/Kg-dry**	1	7/30/2019 09:56 PM
Lead	**9.1**		**0.43**	**mg/Kg-dry**	1	7/30/2019 09:56 PM
Nickel	**10**		**0.43**	**mg/Kg-dry**	1	7/30/2019 09:56 PM
Selenium	ND		0.85	mg/Kg-dry	1	7/30/2019 09:56 PM
Silver	ND		0.43	mg/Kg-dry	1	7/30/2019 09:56 PM
Zinc	**45**		**0.85**	**mg/Kg-dry**	1	7/30/2019 09:56 PM
SOLUBLE CATIONS FOR SAR			**SW6020A**	Prep: USDA Method 20B 8/1/19 06:37		Analyst: **ABL**
Calcium	**80**		**5.0**	**mg/L**	10	8/1/2019 01:59 PM
Magnesium	**31**		**2.0**	**mg/L**	10	8/1/2019 01:59 PM
Sodium	**25**		**2.0**	**mg/L**	10	8/1/2019 01:59 PM
SODIUM ADSORPTION RATIO			**USDA H60 MET**	Prep: USDA Method 20B 8/1/19 06:37		Analyst: **ABL**
Sodium Adsorption Ratio	**0.60**		**0.010**	**none**	1	8/1/2019
SEMI-VOLATILE ORGANIC COMPOUNDS			**SW846 8270D**	Prep: SW3546 7/29/19 13:01		Analyst: **EE**
Acenaphthene	ND		7.5	µg/Kg-dry	1	7/30/2019 06:19 PM
Anthracene	ND		7.5	µg/Kg-dry	1	7/30/2019 06:19 PM
Benzo(a)anthracene	ND		7.5	µg/Kg-dry	1	7/30/2019 06:19 PM
Benzo(a)pyrene	ND		7.5	µg/Kg-dry	1	7/30/2019 06:19 PM
Benzo(b)fluoranthene	ND		7.5	µg/Kg-dry	1	7/30/2019 06:19 PM
Benzo(k)fluoranthene	ND		7.5	µg/Kg-dry	1	7/30/2019 06:19 PM
Chrysene	ND		7.5	µg/Kg-dry	1	7/30/2019 06:19 PM
Dibenzo(a,h)anthracene	ND		7.5	µg/Kg-dry	1	7/30/2019 06:19 PM
Fluoranthene	ND		7.5	µg/Kg-dry	1	7/30/2019 06:19 PM

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

Client: LT Environmental, Inc
Project: GGU 13-29 Excavation **Work Order:** 19071718
Sample ID: S. Wall E. Side @ 10' **Lab ID:** 19071718-06
Collection Date: 7/25/2019 09:30 AM **Matrix:** SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Fluorene	ND		7.5	µg/Kg-dry	1	7/30/2019 06:19 PM
Indeno(1,2,3-cd)pyrene	ND		7.5	µg/Kg-dry	1	7/30/2019 06:19 PM
Naphthalene	**9.0**		**7.5**	**µg/Kg-dry**	1	7/30/2019 06:19 PM
Pyrene	ND		7.5	µg/Kg-dry	1	7/30/2019 06:19 PM
Surr: 2-Fluorobiphenyl	*61.1*		*44-107*	*%REC*	1	7/30/2019 06:19 PM
Surr: 4-Terphenyl-d14	*68.5*		*52-123*	*%REC*	1	7/30/2019 06:19 PM
Surr: Nitrobenzene-d5	*63.6*		*41-94*	*%REC*	1	7/30/2019 06:19 PM
VOLATILE ORGANIC COMPOUNDS			**SW8260C**	Prep: SW5035 7/29/19 10:49		Analyst: **PM**
Benzene	ND		0.038	mg/Kg	1	7/30/2019 02:29 AM
Ethylbenzene	ND		0.038	mg/Kg	1	7/30/2019 02:29 AM
m,p-Xylene	ND		0.076	mg/Kg	1	7/30/2019 02:29 AM
o-Xylene	ND		0.038	mg/Kg	1	7/30/2019 02:29 AM
Toluene	ND		0.038	mg/Kg	1	7/30/2019 02:29 AM
Xylenes, Total	ND		0.11	mg/Kg	1	7/30/2019 02:29 AM
Surr: 1,2-Dichloroethane-d4	*103*		*70-130*	*%REC*	1	7/30/2019 02:29 AM
Surr: 4-Bromofluorobenzene	*103*		*70-130*	*%REC*	1	7/30/2019 02:29 AM
Surr: Dibromofluoromethane	*81.6*		*70-130*	*%REC*	1	7/30/2019 02:29 AM
Surr: Toluene-d8	*98.0*		*70-130*	*%REC*	1	7/30/2019 02:29 AM
ELECTRICAL CONDUCTIVITY (SAR)			**USDA H60 MET**	Prep: USDA Method 20B 8/1/19 06:37		Analyst: **DVD**
Electrical Conductivity @ Saturation	**0.78**		**0.10**	**mmhos/cm @2**	20	8/1/2019 12:30 PM
CHROMIUM, TRIVALENT			**CALCULATION**			Analyst: **JZB**
Chromium, Trivalent	**8.5**		**1.2**	**mg/Kg-dry**	1	8/1/2019 09:15 AM
CHROMIUM, HEXAVALENT			**SW7196A**	Prep: SW3060A 7/31/19 09:00		Analyst: **RZM**
Chromium, Hexavalent	ND		1.2	mg/Kg-dry	1	7/31/2019 02:47 PM
MOISTURE			**SW3550C**			Analyst: **MMO**
Moisture	**15**		**0.10**	**% of sample**	1	7/29/2019 02:52 PM
PH			**SW9045D**	Prep: EXTRACT 7/29/19 10:29		Analyst: **DNW**
pH	**8.19**		**0.100**	**s.u.**	1	7/29/2019 03:00 PM
Temperature	**22.1**		**0.100**	**°C**	1	7/29/2019 03:00 PM

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

ALS Group, USA

Date: *23-Aug-19*

Client: LT Environmental, Inc
Project: GGU 13-29 Excavation
Sample ID: S. Wall W. Side @ 18'
Collection Date: 7/25/2019 02:14 PM

Work Order: 19071718
Lab ID: 19071718-07
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID			**SW8015M**	Prep: SW3546 7/29/19 13:00		Analyst: **KB**
DRO (C10-C28)	**730**		**5.7**	**mg/Kg-dry**	1	7/30/2019 03:01 PM
Surr: 4-Terphenyl-d14	*34.7*		*33-111*	*%REC*	1	7/30/2019 03:01 PM
GASOLINE RANGE ORGANICS BY GC-FID			**SW8015D**	Prep: SW5035 7/29/19 10:56		Analyst: **KB**
GRO (C6-C10)	**730**		**6.3**	**mg/Kg**	1	7/29/2019 07:32 PM
Surr: Toluene-d8	*253*	S	*71-123*	*%REC*	1	7/29/2019 07:32 PM
MERCURY BY CVAA			**SW7471B**	Prep: SW7471 8/1/19 15:32		Analyst: **RSH**
Mercury	ND		0.020	mg/Kg-dry	1	8/1/2019 05:09 PM
METALS ANALYSIS BY ICP			**SW846 6010C**	Prep: SW3050B 7/29/19 12:04		Analyst: **DSC**
Arsenic	**4.9**		**0.39**	**mg/Kg-dry**	1	7/30/2019 10:02 PM
Barium	**260**		**0.78**	**mg/Kg-dry**	1	7/30/2019 10:02 PM
Cadmium	ND		0.78	mg/Kg-dry	1	7/30/2019 10:02 PM
Chromium	**8.4**		**0.39**	**mg/Kg-dry**	1	7/31/2019 11:21 PM
Copper	**12**		**0.78**	**mg/Kg-dry**	1	7/30/2019 10:02 PM
Lead	**9.4**		**0.39**	**mg/Kg-dry**	1	7/30/2019 10:02 PM
Nickel	**10**		**0.39**	**mg/Kg-dry**	1	7/30/2019 10:02 PM
Selenium	ND		0.78	mg/Kg-dry	1	7/30/2019 10:02 PM
Silver	ND		0.39	mg/Kg-dry	1	7/30/2019 10:02 PM
Zinc	**46**		**0.78**	**mg/Kg-dry**	1	7/30/2019 10:02 PM
SOLUBLE CATIONS FOR SAR			**SW6020A**	Prep: USDA Method 20B 8/1/19 06:37		Analyst: **ABL**
Calcium	**76**		**5.0**	**mg/L**	10	8/1/2019 02:01 PM
Magnesium	**41**		**2.0**	**mg/L**	10	8/1/2019 02:01 PM
Sodium	**34**		**2.0**	**mg/L**	10	8/1/2019 02:01 PM
SODIUM ADSORPTION RATIO			**USDA H60 MET**	Prep: USDA Method 20B 8/1/19 06:37		Analyst: **ABL**
Sodium Adsorption Ratio	**0.78**		**0.010**	**none**	1	8/1/2019
SEMI-VOLATILE ORGANIC COMPOUNDS			**SW846 8270D**	Prep: SW3546 7/29/19 13:01		Analyst: **EE**
Acenaphthene	ND		7.6	µg/Kg-dry	1	7/30/2019 06:44 PM
Anthracene	**120**		**7.6**	**µg/Kg-dry**	1	7/30/2019 06:44 PM
Benzo(a)anthracene	ND		7.6	µg/Kg-dry	1	7/30/2019 06:44 PM
Benzo(a)pyrene	ND		7.6	µg/Kg-dry	1	7/30/2019 06:44 PM
Benzo(b)fluoranthene	ND		7.6	µg/Kg-dry	1	7/30/2019 06:44 PM
Benzo(k)fluoranthene	ND		7.6	µg/Kg-dry	1	7/30/2019 06:44 PM
Chrysene	ND		7.6	µg/Kg-dry	1	7/30/2019 06:44 PM
Dibenzo(a,h)anthracene	ND		7.6	µg/Kg-dry	1	7/30/2019 06:44 PM
Fluoranthene	ND		7.6	µg/Kg-dry	1	7/30/2019 06:44 PM

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

ALS Group, USA

Date: *23-Aug-19*

Client: LT Environmental, Inc
Project: GGU 13-29 Excavation
Work Order: 19071718
Sample ID: S. Wall W. Side @ 18'
Lab ID: 19071718-07
Collection Date: 7/25/2019 02:14 PM
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Fluorene	**260**		**7.6**	**µg/Kg-dry**	1	7/30/2019 06:44 PM
Indeno(1,2,3-cd)pyrene	ND		7.6	µg/Kg-dry	1	7/30/2019 06:44 PM
Naphthalene	**600**		**7.6**	**µg/Kg-dry**	1	7/30/2019 06:44 PM
Pyrene	ND		7.6	µg/Kg-dry	1	7/30/2019 06:44 PM
Surr: 2-Fluorobiphenyl	*70.9*		*44-107*	*%REC*	1	7/30/2019 06:44 PM
Surr: 4-Terphenyl-d14	*76.3*		*52-123*	*%REC*	1	7/30/2019 06:44 PM
Surr: Nitrobenzene-d5	*76.3*		*41-94*	*%REC*	1	7/30/2019 06:44 PM
VOLATILE ORGANIC COMPOUNDS			**SW8260C**	Prep: SW5035 7/29/19 10:49		Analyst: **PM**
Benzene	ND		0.038	mg/Kg	1	7/30/2019 02:47 AM
Ethylbenzene	ND		0.038	mg/Kg	1	7/30/2019 02:47 AM
m,p-Xylene	ND		0.076	mg/Kg	1	7/30/2019 02:47 AM
o-Xylene	ND		0.038	mg/Kg	1	7/30/2019 02:47 AM
Toluene	ND		0.038	mg/Kg	1	7/30/2019 02:47 AM
Xylenes, Total	ND		0.11	mg/Kg	1	7/30/2019 02:47 AM
Surr: 1,2-Dichloroethane-d4	*101*		*70-130*	*%REC*	1	7/30/2019 02:47 AM
Surr: 4-Bromofluorobenzene	*101*		*70-130*	*%REC*	1	7/30/2019 02:47 AM
Surr: Dibromofluoromethane	*84.8*		*70-130*	*%REC*	1	7/30/2019 02:47 AM
Surr: Toluene-d8	*100*		*70-130*	*%REC*	1	7/30/2019 02:47 AM
ELECTRICAL CONDUCTIVITY (SAR)			**USDA H60 MET**	Prep: USDA Method 20B 8/1/19 06:37		Analyst: **DVD**
Electrical Conductivity @ Saturation	**0.90**		**0.10**	**mmhos/cm @2**	20	8/1/2019 12:30 PM
CHROMIUM, TRIVALENT			**CALCULATION**			Analyst: **JZB**
Chromium, Trivalent	**8.4**		**1.2**	**mg/Kg-dry**	1	8/1/2019 09:15 AM
CHROMIUM, HEXAVALENT			**SW7196A**	Prep: SW3060A 7/31/19 09:00		Analyst: **RZM**
Chromium, Hexavalent	ND		1.2	mg/Kg-dry	1	7/31/2019 02:47 PM
MOISTURE			**SW3550C**			Analyst: **MMO**
Moisture	**13**		**0.10**	**% of sample**	1	7/29/2019 02:52 PM
PH			**SW9045D**	Prep: EXTRACT 7/29/19 10:29		Analyst: **DNW**
pH	**8.72**		**0.100**	**s.u.**	1	7/29/2019 03:00 PM
Temperature	**22.1**		**0.100**	**°C**	1	7/29/2019 03:00 PM

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

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

MBLK Sample ID: **DBLKS1-139931-139931** Units: **mg/Kg** Analysis Date: **7/30/2019 09:40 AM**

Client ID: Run ID: **GC8_190730B** SeqNo: **5814675** 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
DRO (C10-C28)	ND	5.0								
Surr: 4-Terphenyl-d14	*1.583*	0	*3.33*	0	*47.5*	*33-111*	0			

LCS Sample ID: **DLCSS1-139931-139931** Units: **mg/Kg** Analysis Date: **7/30/2019 10:10 AM**

Client ID: Run ID: **GC8_190730B** SeqNo: **5814676** 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
DRO (C10-C28)	337.5	5.0	333	0	101	58-111	0			
Surr: 4-Terphenyl-d14	*1.922*	0	*3.33*	0	*57.7*	*33-111*	0			

MS Sample ID: **19071718-01A MS** Units: **mg/Kg** Analysis Date: **7/30/2019 11:08 AM**

Client ID: **N. Wall E. Side @ 9'** Run ID: **GC8_190730B** SeqNo: **5814678** 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
DRO (C10-C28)	290.4	4.9	327.2	11.16	85.4	58-111	0			
Surr: 4-Terphenyl-d14	*1.437*	0	*3.272*	0	*43.9*	*33-111*	0			

MSD Sample ID: **19071718-01A MSD** Units: **mg/Kg** Analysis Date: **7/30/2019 11:37 AM**

Client ID: **N. Wall E. Side @ 9'** Run ID: **GC8_190730B** SeqNo: **5814679** 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
DRO (C10-C28)	290.5	4.8	318.7	11.16	87.6	58-111	290.4	0.00596	30	
Surr: 4-Terphenyl-d14	*1.522*	0	*3.187*	0	*47.7*	*33-111*	1.437	*5.72*	*30*	

The following samples were analyzed in this batch:

19071718-01A	19071718-02A	19071718-03A
19071718-04A	19071718-05A	19071718-06A
19071718-07A		

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

Client: LT Environmental, Inc
Work Order: 19071718
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								
Surr: Toluene-d8	*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			
Surr: Toluene-d8	*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			
Surr: Toluene-d8	*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	
Surr: Toluene-d8	*10140*	0	*8797*	0	*115*	*71-123*	8560	*16.9*	*30*	

The following samples were analyzed in this batch:

19071718-01A	19071718-02A	19071718-03A
19071718-04A	19071718-05A	19071718-06A
19071718-07A		

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

Client: LT Environmental, Inc
Work Order: 19071718
Project: GGU 13-29 Excavation

QC BATCH REPORT

Batch ID: **140147** Instrument ID **HG4** Method: **SW7471B**

MBLK Sample ID: **MBLK-140147-140147** Units: **mg/Kg** Analysis Date: **8/1/2019 04:40 PM**
Client ID: Run ID: **HG4_190801A** SeqNo: **5821092** Prep Date: **8/1/2019** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.002333	0.020								J

LCS Sample ID: **LCS-140147-140147** Units: **mg/Kg** Analysis Date: **8/1/2019 04:42 PM**
Client ID: Run ID: **HG4_190801A** SeqNo: **5821093** Prep Date: **8/1/2019** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.1563	0.020	0.1665	0	93.9	80-120	0			

MS Sample ID: **19080023-02AMS** Units: **mg/Kg** Analysis Date: **8/1/2019 05:39 PM**
Client ID: Run ID: **HG4_190801A** SeqNo: **5821118** Prep Date: **8/1/2019** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.1505	0.018	0.1505	0.02098	86.1	75-125	0			

MSD Sample ID: **19080023-02AMSD** Units: **mg/Kg** Analysis Date: **8/1/2019 05:41 PM**
Client ID: Run ID: **HG4_190801A** SeqNo: **5821119** Prep Date: **8/1/2019** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.1474	0.017	0.1413	0.02098	89.5	75-125	0.1505	2.06	35	

The following samples were analyzed in this batch:

19071718-01A	19071718-02A	19071718-03A
19071718-04A	19071718-05A	19071718-06A
19071718-07A		

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

Client: LT Environmental, Inc
Work Order: 19071718
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: 19071718
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: 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: 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: 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: 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:

19071718-01A	19071718-02A	19071718-03A
19071718-04A	19071718-05A	19071718-06A
19071718-07A		

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

Client: LT Environmental, Inc
Work Order: 19071718
Project: GGU 13-29 Excavation

QC BATCH REPORT

Batch ID: **140109** Instrument ID **ICPMS3** Method: **SW6020A**

DUP Sample ID: **19071718-05ADUP** Units: **mg/L** Analysis Date: **8/1/2019 01:58 PM**
Client ID: **N. Wall W. Side @ 8.5'** Run ID: **ICPMS3_190801A** SeqNo: **5818926** Prep Date: **8/1/2019** DF: **10**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Calcium	40.98	5.0	0	0	0	0-0	37.81	8.04		
Magnesium	9.513	2.0	0	0	0	0-0	8.721	8.69		
Sodium	8.644	2.0	0	0	0	0-0	7.932	8.59		

The following samples were analyzed in this batch:

19071718-01A	19071718-02A	19071718-03A
19071718-04A	19071718-05A	19071718-06A
19071718-07A		

Batch ID: **140109** Instrument ID **SAR** Method: **USDA H60 Metho**

DUP Sample ID: **19071718-05ADUP** Units: **none** Analysis Date: **8/1/2019**
Client ID: **N. Wall W. Side @ 8.5'** Run ID: **SAR_190801A** SeqNo: **5818961** Prep Date: **8/1/2019** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Sodium Adsorption Ratio	0.3162	0.010	0	0	0		0.3024	4.48	50	

The following samples were analyzed in this batch:

19071718-01A	19071718-02A	19071718-03A
19071718-04A	19071718-05A	19071718-06A
19071718-07A		

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

Client: LT Environmental, Inc
Work Order: 19071718
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: 19071718
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: **N. Wall E. Side @ 9'** 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: **N. Wall E. Side @ 9'** 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*	

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

Client: LT Environmental, Inc
Work Order: 19071718
Project: GGU 13-29 Excavation

QC BATCH REPORT

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

The following samples were analyzed in this batch:

19071718-01A	19071718-02A	19071718-03A
19071718-04A	19071718-05A	19071718-06A
19071718-07A		

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

Client: LT Environmental, Inc
Work Order: 19071718
Project: GGU 13-29 Excavation

QC BATCH REPORT

Batch ID: **139927** Instrument ID **VMS11** Method: **SW8260C**

MBLK Sample ID: **MBLK-139927-139927** Units: **µg/Kg-dry** Analysis Date: **7/29/2019 10:56 PM**
Client ID: Run ID: **VMS11_190729A** SeqNo: **5812483** 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	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	*1055*	0	*1000*	0	*106*	*70-130*	0			
Surr: 4-Bromofluorobenzene	*1002*	0	*1000*	0	*100*	*70-130*	0			
Surr: Dibromofluoromethane	*871.5*	0	*1000*	0	*87.2*	*70-130*	0			
Surr: Toluene-d8	*978.5*	0	*1000*	0	*97.8*	*70-130*	0			

LCS Sample ID: **LCS-139927-139927** Units: **µg/Kg-dry** Analysis Date: **7/29/2019 09:50 PM**
Client ID: Run ID: **VMS11_190729A** SeqNo: **5812482** 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	1030	30	1000	0	103	75-125	0			
Ethylbenzene	1089	30	1000	0	109	75-125	0			
m,p-Xylene	2190	60	2000	0	110	80-125	0			
o-Xylene	1102	30	1000	0	110	75-125	0			
Toluene	1064	30	1000	0	106	70-125	0			
Xylenes, Total	3292	90	3000	0	110	75-125	0			
Surr: 1,2-Dichloroethane-d4	*1006*	0	*1000*	0	*101*	*70-130*	0			
Surr: 4-Bromofluorobenzene	*1008*	0	*1000*	0	*101*	*70-130*	0			
Surr: Dibromofluoromethane	*1025*	0	*1000*	0	*102*	*70-130*	0			
Surr: Toluene-d8	*1009*	0	*1000*	0	*101*	*70-130*	0			

MS Sample ID: **19071748-01A MS** Units: **µg/Kg-dry** Analysis Date: **7/30/2019 05:11 AM**
Client ID: Run ID: **VMS11_190729A** SeqNo: **5812485** 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	1233	46	1548	11.43	78.9	75-125	0			
Ethylbenzene	1239	46	1548	0	80	75-125	0			
m,p-Xylene	2554	93	3095	50.1	80.9	80-125	0			
o-Xylene	1264	46	1548	10.55	81	75-125	0			
Toluene	1239	46	1548	17.58	78.9	70-125	0			
Xylenes, Total	3818	140	4643	0	82.2	75-125	0			
Surr: 1,2-Dichloroethane-d4	*1565*	0	*1548*	0	*101*	*70-130*	0			
Surr: 4-Bromofluorobenzene	*1564*	0	*1548*	0	*101*	*70-130*	0			
Surr: Dibromofluoromethane	*1463*	0	*1548*	0	*94.6*	*70-130*	0			
Surr: Toluene-d8	*1527*	0	*1548*	0	*98.6*	*70-130*	0			

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

Client: LT Environmental, Inc
Work Order: 19071718
Project: GGU 13-29 Excavation

QC BATCH REPORT

Batch ID: **139927** Instrument ID **VMS11** Method: **SW8260C**

MSD Sample ID: **19071748-01A MSD** Units: **µg/Kg-dry** Analysis Date: **7/30/2019 05:33 AM**
Client ID: Run ID: **VMS11_190729A** SeqNo: **5812486** 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	1634	53	1759	11.43	92.2	75-125	1233	28	30	
Ethylbenzene	1692	53	1759	0	96.2	75-125	1239	30.9	30	R
m,p-Xylene	3480	110	3519	50.1	97.5	80-125	2554	30.7	30	R
o-Xylene	1724	53	1759	10.55	97.4	75-125	1264	30.8	30	R
Toluene	1663	53	1759	17.58	93.6	70-125	1239	29.3	30	
Xylenes, Total	5204	160	5278	0	98.6	75-125	3818	30.7	30	R
Surr: 1,2-Dichloroethane-d4	*1767*	0	*1759*	0	*100*	*70-130*	1565	*12.1*	*30*	
Surr: 4-Bromofluorobenzene	*1789*	0	*1759*	0	*102*	*70-130*	1564	*13.4*	*30*	
Surr: Dibromofluoromethane	*1709*	0	*1759*	0	*97.2*	*70-130*	1463	*15.5*	*30*	
Surr: Toluene-d8	*1756*	0	*1759*	0	*99.8*	*70-130*	1527	*14*	*30*	

The following samples were analyzed in this batch:

19071718-01A	19071718-02A	19071718-03A
19071718-04A	19071718-05A	19071718-06A
19071718-07A		

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

Client: LT Environmental, Inc
Work Order: 19071718
Project: GGU 13-29 Excavation

QC BATCH REPORT

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

LCS Sample ID: **LCS-139938-139938** Units: **s.u.** Analysis Date: **7/29/2019 03:00 PM**
Client ID: Run ID: **WETCHEM_190729O** SeqNo: **5811328** 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
pH	3.99	0.10	4	0	99.8	90-110	0			

DUP Sample ID: **19071747-01A DUP** Units: **s.u.** Analysis Date: **7/29/2019 03:00 PM**
Client ID: Run ID: **WETCHEM_190729O** SeqNo: **5811341** 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
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: **19071748-01A DUP** Units: **s.u.** Analysis Date: **7/29/2019 03:00 PM**
Client ID: Run ID: **WETCHEM_190729O** SeqNo: **5811343** 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
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:

19071718-01A	19071718-02A	19071718-03A
19071718-04A	19071718-05A	19071718-06A
19071718-07A		

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

Client: LT Environmental, Inc
Work Order: 19071718
Project: GGU 13-29 Excavation

QC BATCH REPORT

Batch ID: **140054** Instrument ID **WETCHEM** Method: **SW7196A**

MBLK Sample ID: **MBLK-140054-140054** Units: **mg/Kg** Analysis Date: **7/31/2019 02:47 PM**
Client ID: Run ID: **WETCHEM_190731Q** SeqNo: **5816516** 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
Chromium, Hexavalent	ND	1.0								

LCS Sample ID: **LCS-140054-140054** Units: **mg/Kg** Analysis Date: **7/31/2019 02:47 PM**
Client ID: Run ID: **WETCHEM_190731Q** SeqNo: **5816517** 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
Chromium, Hexavalent	4.8	1.0	5	0	96	80-120	0			

MS Sample ID: **19071603-05A MS** Units: **mg/Kg** Analysis Date: **7/31/2019 02:47 PM**
Client ID: Run ID: **WETCHEM_190731Q** SeqNo: **5816519** 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
Chromium, Hexavalent	ND	1.0	5	0.55	-11	75-125	0			S

MS Sample ID: **19071603-05A MSI** Units: **mg/Kg** Analysis Date: **7/31/2019 02:47 PM**
Client ID: Run ID: **WETCHEM_190731Q** SeqNo: **5816521** Prep Date: **7/31/2019** DF: **100**

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			

MSD Sample ID: **19071603-05A MSD** Units: **mg/Kg** Analysis Date: **7/31/2019 02:47 PM**
Client ID: Run ID: **WETCHEM_190731Q** SeqNo: **5816520** 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
Chromium, Hexavalent	ND	1.0	5	0.55	-11	75-125	0.55	0	20	S

The following samples were analyzed in this batch:

19071718-01A	19071718-02A	19071718-03A
19071718-04A	19071718-05A	19071718-06A
19071718-07A		

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

Client: LT Environmental, Inc
Work Order: 19071718
Project: GGU 13-29 Excavation

QC BATCH REPORT

Batch ID: **140109** Instrument ID **WETCHEM** Method: **USDA H60 Metho**

MBLK Sample ID: **MB-R267351-140109** Units: **mmhos/cm @25°** Analysis Date: **8/1/2019 12:30 PM**
Client ID: Run ID: **WETCHEM_190801N** SeqNo: **5818658** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Electrical Conductivity @ Saturation	ND	0.0050	0	0	0		0			

DUP Sample ID: **19071718-05A DUP** Units: **mmhos/cm @25°** Analysis Date: **8/1/2019 12:30 PM**
Client ID: **N. Wall W. Side @ 8.5'** Run ID: **WETCHEM_190801N** SeqNo: **5818665** Prep Date: DF: **20**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Electrical Conductivity @ Saturation	0.3466	0.10	0	0	0		0.3114	10.7	50	

LCS1 Sample ID: **LCS1-140109** Units: **mmhos/cm @25°** Analysis Date: **8/1/2019 12:30 PM**
Client ID: Run ID: **WETCHEM_190801N** SeqNo: **5818659** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Electrical Conductivity @ Saturation	0.01404	0.0050	0.0149	0	94.2	92-111	0			

LCS2 Sample ID: **LCS2-140109** Units: **mmhos/cm @25°** Analysis Date: **8/1/2019 12:30 PM**
Client ID: Run ID: **WETCHEM_190801N** SeqNo: **5818669** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Electrical Conductivity @ Saturation	0.591	0.0050	0.592	0	99.8	88-114	0			

The following samples were analyzed in this batch:

19071718-01A	19071718-02A	19071718-03A
19071718-04A	19071718-05A	19071718-06A
19071718-07A		

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

Client: LT Environmental, Inc
Work Order: 19071718
Project: GGU 13-29 Excavation

QC BATCH REPORT

Batch ID: **R267068** Instrument ID **MOIST** Method: **SW3550C**

MBLK Sample ID: **WBLKS-R267068** Units: **% of sample** Analysis Date: **7/29/2019 12:17 PM**
Client ID: Run ID: **MOIST_190729B** SeqNo: **5812429** Prep Date: DF: **1**

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: **LCS-R267068** Units: **% of sample** Analysis Date: **7/29/2019 12:17 PM**
Client ID: Run ID: **MOIST_190729B** SeqNo: **5812428** Prep Date: DF: **1**

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: **19071557-08B DUP** Units: **% of sample** Analysis Date: **7/29/2019 12:17 PM**
Client ID: Run ID: **MOIST_190729B** SeqNo: **5812414** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	10.53	0.10	0	0	0	0-0	12.17	14.4	10	R

DUP Sample ID: **19071639-01A DUP** Units: **% of sample** Analysis Date: **7/29/2019 12:17 PM**
Client ID: Run ID: **MOIST_190729B** SeqNo: **5812421** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	0.33	0.10	0	0	0	0-0	0.31	6.25	10	

The following samples were analyzed in this batch: 19071718-01A

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

Client: LT Environmental, Inc
Work Order: 19071718
Project: GGU 13-29 Excavation

QC BATCH REPORT

Batch ID: **R267074** Instrument ID **MOIST** Method: **SW3550C**

MBLK Sample ID: **WBLKS-R267074** Units: **% of sample** Analysis Date: **7/29/2019 02:52 PM**
Client ID: Run ID: **MOIST_190729C** SeqNo: **5812519** Prep Date: DF: **1**

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: **LCS-R267074** Units: **% of sample** Analysis Date: **7/29/2019 02:52 PM**
Client ID: Run ID: **MOIST_190729C** SeqNo: **5812518** Prep Date: DF: **1**

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: **19071676-08B** Units: **% of sample** Analysis Date: **7/29/2019 02:52 PM**
Client ID: Run ID: **MOIST_190729C** SeqNo: **5812494** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	4.51	0.10	0	0	0	0-0	4.58	1.54	10	

DUP Sample ID: **19071777-01B DUP** Units: **% of sample** Analysis Date: **7/29/2019 02:52 PM**
Client ID: Run ID: **MOIST_190729C** SeqNo: **5812515** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	13.48	0.10	0	0	0	0-0	13.46	0.148	10	

The following samples were analyzed in this batch:

19071718-02A	19071718-03A	19071718-04A
19071718-05A	19071718-06A	19071718-07A

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

ALS Laboratory Group

CHAIN OF CUSTODY

Failure to complete all section of this form may delay analysis.

COC number (for client tracking): 1907178

Page 1 of 1

CLIENT CONTACT AND REPORTING INFORMATION	INVOICE ADDRESS (if other than reporting address)
Company Name: LT Environmental, Inc	Company Name: Same
Project Manager: Chris McKisson	Contact Name: Same
Address: 820 Megan Ave Unit B	Address: Same
Rifle, CO 81650	
Phone: 970.285.9985	**PROJECT INFORMATION**
Email 1: cmckisson@ltenv.com	Project ID: GGU 13-29 Excavation
Email 2: dheld@ltenv.com; bcocina@ltenv.com	Site: GGU 13-29
SERVICE REQUEST (Express services subject to availability)	PO No:
☑ Regular (default)	ALS Quote No:
☐ Express (Pls specify date required _____) (express fee will apply)	

ANALYSIS REQUIRED (suite codes must be listed to attract suite prices)

ALS ID #	SAMPLE IDENTIFICATION (this description will appear on report)	MATRIX (a)	SAMPLING AND CONTAINER INFO Date	Time	Tot Bottle	REMARKS	TPH, DRO, GRO	EC	PH	SAR	BTEX	TABLE 910 METALS	TABLE 910 PAH'S	CROSS THE REQUESTED ANALYSIS
1	N WALL E. SIDE @ 9'	S	7/25/19	0812	3		X	X	X	X	X	X	X	
2	E WALL @ 9'			0817										
3	W. FLOOR @ 10'			0845										
4	N. WALL @ 8.5'			0850										
5	N. WALL W. SIDE @ 8.5'			0856										
6	S WALL E. SIDE @ 10'			0930										
7	S WALL W. SIDE @ 18'	↓	↓	1414	↓		↓	↓	↓	↓	↓	↓	↓	

CLIENT SIGNATURES

Client's Signature: Brett Cocina

Client's Date and Time of Completion: 7/25/19 1530

For lab use only

Cooler Security Seal	Sample Temp	No of Cooler Received	Received by (lab)	Date and Time
☐ sealed	☐ chilled deg 'C	carton / cooler box		7/26/19 0930
☐ broken	☐ ambient	Courier Name: ALS	Committed by	Date and Time
☐ not available				

Note: (a) DW (Drinking water), SW (Surface water), GW (Ground water), WW (Waste water), S (Soil), SL (Sludge), SE (Sediment), OS (Other solid material)

ALS Technichem (HK) Pty Ltd Address: 11/F, Chung Shun Knitting Centre, 1-3 Wing Yip Street, Kwai Chung, N.T., Hong Kong Tel: +852 2610 1044 Fax: +852 2610 2021 Email: HongKong@alsglobal.com

SR2 4.6°C

ALS Group, USA

Sample Receipt Checklist

Client Name: **LTENV** Date/Time Received: **26-Jul-19 09:30**

Work Order: **19071718** Received by: **DS**

Checklist completed by Diane Shaw (eSignature) 26-Jul-19 (Date) Reviewed by: Chad Whitton (eSignature) 29-Jul-19 (Date)

Matrices: Soil

Carrier name: FedEx

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☐	No ☐	Not Present ☑
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	
Sample(s) received on ice?	Yes ☑	No ☐	
Temperature(s)/Thermometer(s):	4.6/4.6 c	SR2	
Cooler(s)/Kit(s):			
Date/Time sample(s) sent to storage:	7/26/2019 3:06:18 PM		
Water - VOA vials have zero headspace?	Yes ☐	No ☐	No VOA vials submitted ☑
Water - pH acceptable upon receipt?	Yes ☐	No ☐	N/A ☑
pH adjusted?	Yes ☐	No ☐	N/A ☑
pH adjusted by:	-		

Login Notes:

Client Contacted: Date Contacted: Person Contacted:

Contacted By: Regarding:

Comments:

CorrectiveAction: