

Kaufman 1 Notice of Completion/Pit Closure (Form 4)
(Facility ID – 426889)
(Remediation ID – 8505)

This Form 4 (Notice of Completion/Closure) was prepared for the purpose of closing a pit (Facility ID – 426889) located on the Kaufman 1 well pad (Location ID – 413830) in Bill Barrett Corporation's (BBC) Mamm Creek area of operation in Garfield County. This document includes a topographic location map illustrating the site location (Figure 1).

On July 2, 2014, BBC collected three discreet confirmation soil samples (PB01, PB02, and PB03) from the pit bottom (Figure 2). The samples were submitted for the analysis of all analytes listed in COGCC Table 910-1. The laboratory analytical results indicated the samples were compliant with COGCC Table 910-1 Concentration Levels, below background concentrations, or were within the COGCC's allowable arsenic range (1.25x background arsenic concentration) (Tables 1 and 2). Background samples from a nearby pad location (Werner) were utilized for comparison. Laboratory analytical reports are attached.

Following approval from Mr. Carlos Lujan of the COGCC to reclaim the pit, the pit was backfilled, reclaimed, and reseeded. Final seeding occurred on September 24, 2014. Based on the analytical data and the completed reclamation, BBC requests that Remediation #8505 be closed.

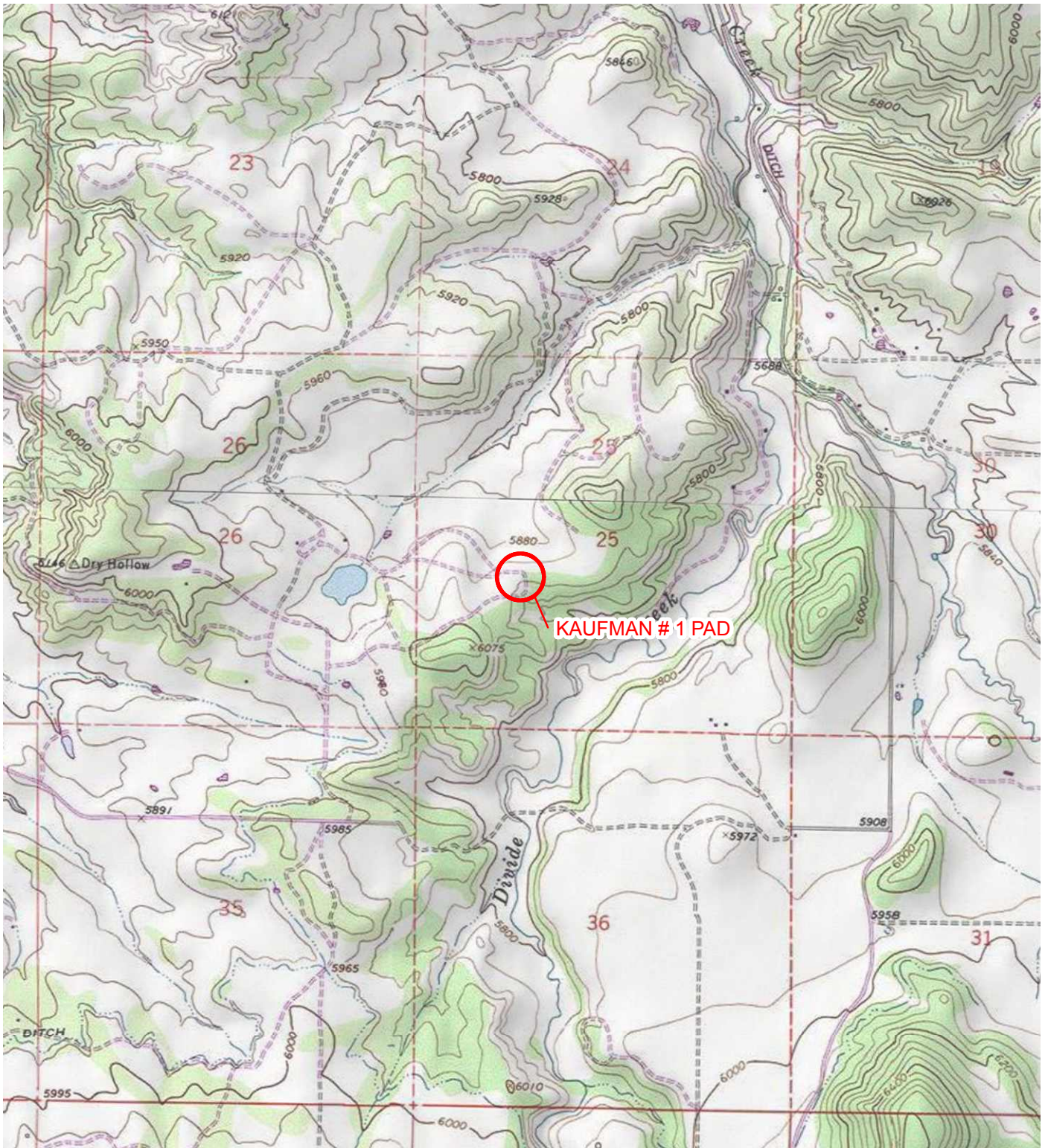


IMAGE COURTESY OF ESRI/USGS

LEGEND

○ SITE LOCATION

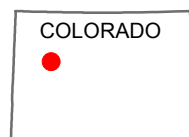
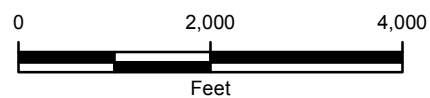


FIGURE 1
SITE LOCATION MAP
KAUFMAN # 1 PAD
NESW SEC 25-T6S-R92W 6PM
GARFIELD COUNTY, COLORADO
BILL BARRETT CORPORATION





IMAGE COURTESY OF GOOGLE EARTH, 2011

LEGEND

● SOIL SAMPLE

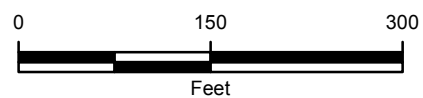


FIGURE 2
SITE MAP
KAUFMAN #1
SEC 25 T6S R92W
GARFIELD COUNTY, COLORADO
BILL BARRETT CORPORATION



TABLE 1
KAUFMAN 1
PIT CLOSURE RESULTS
MAMM CREEK FIELD
BILL BARRETT CORPORATION

Parameter	Standard	BG01	BG01-15ft	BG02	BG03
Depth (feet)		0.5	15	0.5	0.5
Sample Date		7/2/2014	8/11/2011	7/2/2014	7/2/2014

Inorganics

Electrical Conductivity (mmhos/cm)	4	0.33	1.6	0.47	0.64
SAR (none)	12	0.29	5.04	0.062	0.079
pH, Lab (Standard Units)	6 to 9	7.1	9.03	7.7	7.3

Metals

Arsenic (mg/kg)	0.39	2.3	6.3	2.8	3.1
Barium (mg/Kg)	15000				
Cadmium (mg/Kg)	70				
Chromium+3 Calculated (mg/Kg)	120000				
Chromium, Hexavalent (mg/Kg)	23				
Copper (mg/Kg)	3100				
Lead (mg/Kg)	400				
Mercury (mg/Kg)	23				
Nickel (mg/Kg)	1600				
Selenium (mg/Kg)	390				
Silver (mg/Kg)	390				
Zinc (mg/Kg)	23000				

Organic Compounds

TPH-DRO (mg/Kg)	
TPH-GRO (mg/kg)	
TPH-Total (mg/kg)	500
Benzene (mg/kg)	0.17
Toluene (mg/kg)	85
Ethylbenzene (mg/kg)	100
Xylenes, Total (mg/kg)	175
Acenaphthene (mg/kg)	1000
Anthracene (mg/kg)	1000
Benzo (a) anthracene (mg/kg)	0.22
Benzo (b) fluoranthene (mg/kg)	0.22
Benzo (k) fluoranthene (mg/kg)	2.2
Benzo (a) pyrene (mg/kg)	0.022
Chrysene (mg/kg)	22
Dibenz (a,h) anthracene (mg/kg)	0.022
Fluoranthene (mg/kg)	1000
Fluorene (mg/kg)	1000
Indeno (1,2,3-cd) pyrene (mg/kg)	0.22
Naphthalene (mg/kg)	23
Pyrene (mg/kg)	1000

Notes:

< - less than stated laboratory reporting limit
 Bold indicates result is equal to or exceeds the applicable standard
 Basic Standards for Soil are from 2 CCR 404-1, Table 910-1, effective April 2009
 GRO - Gasoline range organics
 TPH-Total - sum of TPH-GRO and TPH-DRO

mg/kg - milligrams per kilogram
 mmhos/cm - millimhos per centimeter
 TPH - Total petroleum hydrocarbons (C6-C28)
 DRO - Diesel range organics
 SAR - Sodium adsorption ratio



TABLE 1 (Continued)
KAUFMAN 1
PIT CLOSURE RESULTS
MAMM CREEK FIELD
BILL BARRETT CORPORATION

Parameter	Standard	BG04	PB01	PB02	PB03
Depth (feet)		0.5			
Sample Date		7/2/2014	7/2/2014	7/2/2014	7/2/2014

Inorganics

Electrical Conductivity (mmhos/cm)	4	1.1	3.0	6.2	1.8
SAR (none)	12	0.084	3.1	3.9	10
pH, Lab (Standard Units)	6 to 9	7.3	8.3	8.0	8.9

Metals

Arsenic (mg/kg)	0.39	2.6	6.4	12	7.5
Barium (mg/Kg)	15000		3100	860	2200
Cadmium (mg/Kg)	70		<0.83	<0.84	<0.80
Chromium+3 Calculated (mg/Kg)	120000		12	7.3	8.8
Chromium, Hexavalent (mg/Kg)	23		<0.54	<0.54	<0.55
Copper (mg/Kg)	3100		13	9.1	11
Lead (mg/Kg)	400		12	11	11
Mercury (mg/Kg)	23		0.10	0.24	0.075
Nickel (mg/Kg)	1600		11	9.0	9.5
Selenium (mg/Kg)	390		<2.1	<2.1	<2.0
Silver (mg/Kg)	390		<2.1	<2.1	<2.0
Zinc (mg/Kg)	23000		43	32	36

Organic Compounds

TPH-DRO (mg/Kg)		64	74	84
TPH-GRO (mg/kg)		<2.8	<2.8	<2.7
TPH-Total (mg/kg)	500	64	74	84
Benzene (mg/kg)	0.17	<0.033	<0.033	<0.033
Toluene (mg/kg)	85	<0.033	<0.033	0.059
Ethylbenzene (mg/kg)	100	<0.033	<0.033	<0.033
Xylenes, Total (mg/kg)	175	<0.1	<0.099	0.12
Acenaphthene (mg/kg)	1000	<0.0072	<0.0071	<0.0073
Anthracene (mg/kg)	1000	<0.0072	<0.0071	<0.0073
Benzo (a) anthracene (mg/kg)	0.22	0.018	0.018	0.017
Benzo (b) fluoranthene (mg/kg)	0.22	<0.0072	<0.0071	0.03
Benzo (k) fluoranthene (mg/kg)	2.2	<0.0072	<0.0071	<0.0073
Benzo (a) pyrene (mg/kg)	0.022	<0.0072	<0.0071	<0.0073
Chrysene (mg/kg)	22	0.008	<0.0071	<0.0073
Dibenz (a,h) anthracene (mg/kg)	0.022	<0.0072	<0.0071	<0.0073
Fluoranthene (mg/kg)	1000	<0.0072	<0.0071	<0.0073
Fluorene (mg/kg)	1000	0.012	<0.0071	0.011
Indeno (1,2,3-cd) pyrene (mg/kg)	0.22	<0.0072	<0.0071	<0.0073
Naphthalene (mg/kg)	23	0.045	0.038	0.038
Pyrene (mg/kg)	1000	0.008	0.0082	0.0084

Notes:

< - less than stated laboratory reporting limit
 Bold indicates result is equal to or exceeds the applicable standard
 Basic Standards for Soil are from 2 CCR 404-1, Table 910-1, effective April 2009
 GRO - Gasoline range organics
 TPH-Total - sum of TPH-GRO and TPH-DRO

mg/kg - milligrams per kilogram
 mmhos/cm - millimhos per centimeter
 TPH - Total petroleum hydrocarbons (C6-C28)
 DRO - Diesel range organics
 SAR - Sodium adsorption ratio



TABLE 2
WERNER (BACKGROUND FOR KAUFMAN 1)
PIT CLOSURE RESULTS
MAMM CREEK FIELD
BILL BARRETT CORPORATION

Parameter	Standard	BG01	BG02	BG03	BG04
Depth (feet)		0.0-0.5	0.0-0.5	0.0-0.5	0.0-0.5
Sample Date		6/29/2012	6/29/2012	6/29/2012	6/29/2012

Inorganics

Electrical Conductivity (mmhos/cm)	4
SAR (none)	12
pH, Lab (Standard Units)	6 to 9

Metals

Arsenic (mg/Kg)	0.39	3.61	9.81	5.61	3.97
-----------------	------	-------------	-------------	-------------	-------------

Notes:

< - less than stated laboratory reporting limit

Bold indicates result is equal to or exceeds the applicable standard

Basic Standards for Soil are from 2 CCR 404-1, Table 910-1, effective April 2009

GRO - Gasoline range organics

TPH-Total - sum of TPH-GRO and TPH-DRO

mg/kg - milligrams per kilogram

mmhos/cm - millimhos per centimeter

TPH - Total petroleum hydrocarbons (C6-C28)

DRO - Diesel range organics

SAR - Sodium adsorption ratio



TABLE 2 (Continued)
WERNER (BACKGROUND FOR KAUFMAN 1)
PIT CLOSURE RESULTS
MAMM CREEK FIELD
BILL BARRETT CORPORATION

Parameter	Standard	PS02
Depth (feet)		24
Sample Date		3/19/2012

Inorganics

Electrical Conductivity (mmhos/cm)	4	6.80
SAR (none)	12	4.42
pH, Lab (Standard Units)	6 to 9	8.17

Metals

Arsenic (mg/Kg)	0.39	1.71
-----------------	------	-------------

Notes:

< - less than stated laboratory reporting limit

Bold indicates result is equal to or exceeds the applicable standard

Basic Standards for Soil are from 2 CCR 404-1, Table 910-1, effective April 2009

GRO - Gasoline range organics

TPH-Total - sum of TPH-GRO and TPH-DRO

mg/kg - milligrams per kilogram

mmhos/cm - millimhos per centimeter

TPH - Total petroleum hydrocarbons (C6-C28)

DRO - Diesel range organics

SAR - Sodium adsorption ratio





08/19/11

Technical Report for

LT Environmental

Kauffman #1

BBC1003

Accutest Job Number: D26537

Sampling Date: 08/11/11

Report to:

LT Environmental
820 Megan Avenue Unit B
Rifle, CO 81650
bdodek@ltenv.com

ATTN: Brian Dodek

Total number of pages in report: **29**



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

A handwritten signature in black ink, appearing to read 'J. Hamilton'.

John Hamilton
Laboratory Director

Client Service contact: 303-425-6021

Certifications: CO, ID, NE, NM, ND (R-027) (PW) UT (NELAP CO00049)

This report shall not be reproduced, except in its entirety, without the written approval of Accutest Laboratories.
Test results relate only to samples analyzed.

Table of Contents

-1-

Section 1: Sample Summary	3
Section 2: Case Narrative/Conformance Summary	4
Section 3: Sample Results	6
3.1: D26537-1: BG01-15'	7
3.2: D26537-1A: BG01-15'	9
Section 4: Misc. Forms	11
4.1: Chain of Custody	12
Section 5: Metals Analysis - QC Data Summaries	14
5.1: Prep QC MP5467: Ca,Mg,Na,Sodium Adsorption Ratio	15
5.2: Prep QC MP5472: As	23
Section 6: General Chemistry - QC Data Summaries	28
6.1: Method Blank and Spike Results Summary	29



Sample Summary

LT Environmental

Job No: D26537

Kauffman #1
Project No: BBC1003

Sample Number	Collected		Received	Matrix		Client Sample ID
	Date	Time By		Code	Type	
D26537-1	08/11/11	09:20 AW	08/12/11	SO	Soil	BG01-15'
D26537-1A	08/11/11	09:20 AW	08/12/11	SO	Soil	BG01-15'

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

CASE NARRATIVE / CONFORMANCE SUMMARY

Client: LT Environmental

Job No D26537

Site: Kauffman #1

Report Date 8/19/2011 10:21:11 AM

On 08/12/2011, 1 sample(s), 0 Trip Blank(s), and 0 Field Blank(s) were received at Accutest Mountain States (AMS) at a temperature of 3.2 °C. The samples were intact and properly preserved, unless noted below. An AMS Job Number of D26537 was assigned to the project. The lab sample ID, client sample ID, and date of sample collection are detailed in the report's Results Summary.

Specified quality control criteria were achieved for this job except as noted below. For more information, please refer to the analytical results and QC summary pages.

Metals By Method SW846 6010B

Matrix AQ

Batch ID: MP5467

- All samples were digested within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) D26536-1AMS, D26536-1AMSD were used as the QC samples for the metals analysis.

Metals By Method SW846 6020

Matrix SO

Batch ID: MP5472

- All samples were digested within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) D26536-1MS, D26536-1MSD, D26536-1SDL were used as the QC samples for the metals analysis.

Wet Chemistry By Method DEPT.OF AG, BOOK N9

Matrix SO

Batch ID: GP5202

- All samples were prepared within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.

Wet Chemistry By Method SM19 2540B M

Matrix SO

Batch ID: GN11046

- The data for SM19 2540B M meets quality control requirements.

Wet Chemistry By Method USDA HANDBOOK 60

Matrix SO

Batch ID: MP5467

- D26537-1A for Sodium Adsorption Ratio: Calculated as: (Na meq/L) / sqrt [(Ca meq/L)+(Mg meq/L)/2]

AMS certifies that data reported for samples received, listed on the associated custody chain or analytical task order, were produced to specifications meeting AMS's Quality System precision, accuracy and completeness objectives except as noted.

Estimated non-standard method measurement uncertainty data is available on request, based on quality control bias and implicit for standard methods. Acceptable uncertainty requires tested parameter quality control data to meet method criteria.

AMS is not responsible for data quality assumptions if partial reports are used and recommends that this report be used in its entirety. This report is authorized by AMS indicated via signature on the report cover.

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	BG01-15'	Date Sampled:	08/11/11
Lab Sample ID:	D26537-1	Date Received:	08/12/11
Matrix:	SO - Soil	Percent Solids:	88.3
Project:	Kauffman #1		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic	6.3	0.44	mg/kg	5	08/15/11	08/16/11 GJ	SW846 6020 ¹	SW846 3050B ²

(1) Instrument QC Batch: MA1753
(2) Prep QC Batch: MP5472

RL = Reporting Limit

Report of Analysis

Client Sample ID:	BG01-15'	Date Sampled:	08/11/11
Lab Sample ID:	D26537-1	Date Received:	08/12/11
Matrix:	SO - Soil	Percent Solids:	88.3
Project:	Kauffman #1		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	88.3		%	1	08/15/11	JD	SM19 2540B M
Specific Conductivity	1600	1.0	umhos/cm	1	08/16/11	JK	DEPT.OF AG, BOOK N9
pH	9.03		su	1	08/12/11 14:35	JK	SW846 9045C

RL = Reporting Limit

Report of Analysis

Client Sample ID:	BG01-15'	Date Sampled:	08/11/11
Lab Sample ID:	D26537-1A	Date Received:	08/12/11
Matrix:	SO - Soil	Percent Solids:	88.3
Project:	Kauffman #1		

SAR Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Calcium	91.7	2.0	mg/l	1	08/15/11	08/16/11 JM	SW846 6010B ¹	EPA 200.7 ²
Magnesium	31.1	1.0	mg/l	1	08/15/11	08/16/11 JM	SW846 6010B ¹	EPA 200.7 ²
Sodium	219	2.0	mg/l	1	08/15/11	08/16/11 JM	SW846 6010B ¹	EPA 200.7 ²

(1) Instrument QC Batch: MA1752
(2) Prep QC Batch: MP5467

RL = Reporting Limit

Report of Analysis

Client Sample ID:	BG01-15'	Date Sampled:	08/11/11
Lab Sample ID:	D26537-1A	Date Received:	08/12/11
Matrix:	SO - Soil	Percent Solids:	88.3
Project:	Kauffman #1		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Sodium Adsorption Ratio ^a	5.04		ratio	1	08/16/11 16:36	JM	USDA HANDBOOK 60

(a) Calculated as: (Na meq/L) / sqrt [(Ca meq/L)+ (Mg meq/L)/2]

RL = Reporting Limit

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

Accutest Laboratories Sample Receipt Summary

Accutest Job Number: D26537

Client: LTE

Immediate Client Services Action Required: No

Date / Time Received: 8/12/2011 12:30:00 PM

No. Coolers: 1

Client Service Action Required at Login: No

Project: KAUFFMAN#1

Airbill #'s: HD/CO

Cooler Security	Y	or	N		Y	or	N
1. Custody Seals Present:	<input checked="" type="checkbox"/>		<input type="checkbox"/>	3. COC Present:	<input checked="" type="checkbox"/>		<input type="checkbox"/>
2. Custody Seals Intact:	<input checked="" type="checkbox"/>		<input type="checkbox"/>	4. Smpl Dates/Time OK	<input checked="" type="checkbox"/>		<input type="checkbox"/>

Cooler Temperature	Y	or	N
1. Temp criteria achieved:	<input checked="" type="checkbox"/>		<input type="checkbox"/>
2. Cooler temp verification:			Infrared gun
3. Cooler media:			Ice (bag)

Quality Control Preservation	Y	or	N	N/A
1. Trip Blank present / cooler:	<input type="checkbox"/>		<input type="checkbox"/>	
2. Trip Blank listed on COC:	<input type="checkbox"/>		<input type="checkbox"/>	
3. Samples preserved properly:	<input checked="" type="checkbox"/>		<input type="checkbox"/>	
4. VOCs headspace free:	<input type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>

Sample Integrity - Documentation	Y	or	N
1. Sample labels present on bottles:	<input checked="" type="checkbox"/>		<input type="checkbox"/>
2. Container labeling complete:	<input checked="" type="checkbox"/>		<input type="checkbox"/>
3. Sample container label / COC agree:	<input checked="" type="checkbox"/>		<input type="checkbox"/>

Sample Integrity - Condition	Y	or	N
1. Sample recvd within HT:	<input checked="" type="checkbox"/>		<input type="checkbox"/>
2. All containers accounted for:	<input checked="" type="checkbox"/>		<input type="checkbox"/>
3. Condition of sample:			Intact

Sample Integrity - Instructions	Y	or	N	N/A
1. Analysis requested is clear:	<input checked="" type="checkbox"/>		<input type="checkbox"/>	
2. Bottles received for unspecified tests	<input type="checkbox"/>		<input checked="" type="checkbox"/>	
3. Sufficient volume rec'd for analysis:	<input checked="" type="checkbox"/>		<input type="checkbox"/>	
4. Compositing instructions clear:	<input type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>
5. Filtering instructions clear:	<input type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>

Comments

Metals Analysis

5

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Matrix Spike and Duplicate Summaries
- Blank Spike and Lab Control Sample Summaries
- Serial Dilution Summaries

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: D26537
Account: LTENVCOR - LT Environmental
Project: Kauffman #1

QC Batch ID: MP5467
Matrix Type: AQUEOUS

Methods: SW846 6010B, USDA HANDBOOK 60
Units: ug/l

Prep Date: 08/15/11

Metal	RL	IDL	MDL	MB raw	final
Aluminum	500	30	30		
Antimony	150	16	16		
Arsenic	130	30	30		
Barium	50	5.5	5.5		
Beryllium	50	2.2	2.5		
Boron	250	24	24		
Cadmium	50	1.4	1.4		
Calcium	2000	48	75	47.0	<2000
Chromium	50	.9	4		
Cobalt	25	1.8	1.8		
Copper	50	4.3	14		
Iron	350	17	65		
Lead	250	8	11		
Lithium	10	1.4	6		
Magnesium	1000	29	50	27.0	<1000
Manganese	25	.27	1.6		
Molybdenum	50	2.3	4.4		
Nickel	150	2.2	5		
Phosphorus	500	55	100		
Potassium	5000	280	280		
Selenium	250	19	19		
Silicon	250	19	19		
Silver	150	.9	1.6		
Sodium	2000	570	570	-300	<2000
Strontium	25		1.3		
Thallium	50	15	15		
Tin	250	28	50		
Titanium	50	.55	1.6		
Uranium	250	7.5	18		
Vanadium	50	.8	1.1		
Zinc	150	1.4	9		

Associated samples MP5467: D26537-1A

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: D26537
Account: LTENVCOR - LT Environmental
Project: Kauffman #1

QC Batch ID: MP5467
Matrix Type: AQUEOUS

Methods: SW846 6010B, USDA HANDBOOK 60
Units: ug/l

Prep Date:

Metal

(anr) Analyte not requested

5.1.1

5

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: D26537
 Account: LTENVCOR - LT Environmental
 Project: Kauffman #1

QC Batch ID: MP5467
 Matrix Type: AQUEOUS

Methods: SW846 6010B, USDA HANDBOOK 60
 Units: ug/l

Prep Date: 08/15/11

Metal	D26536-1A Original MS		Spikelot MPICPALL % Rec		QC Limits
Aluminum					
Antimony					
Arsenic					
Barium					
Beryllium					
Boron					
Cadmium					
Calcium	27500	169000	125000	113.2	75-125
Chromium					
Cobalt					
Copper					
Iron					
Lead					
Lithium					
Magnesium	4660	135000	125000	104.3	75-125
Manganese					
Molybdenum					
Nickel					
Phosphorus					
Potassium					
Selenium					
Silicon					
Silver					
Sodium	32000	162000	125000	104.0	75-125
Strontium					
Thallium					
Tin					
Titanium					
Uranium					
Vanadium					
Zinc					

Associated samples MP5467: D26537-1A

Results < IDL are shown as zero for calculation purposes
 (*) Outside of QC limits

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: D26537
Account: LTENVCOR - LT Environmental
Project: Kauffman #1

QC Batch ID: MP5467
Matrix Type: AQUEOUS

Methods: SW846 6010B, USDA HANDBOOK 60
Units: ug/l

Prep Date:

Metal

(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

5.1.2

5

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: D26537
Account: LTENVCOR - LT Environmental
Project: Kauffman #1

QC Batch ID: MP5467
Matrix Type: AQUEOUS

Methods: SW846 6010B, USDA HANDBOOK 60
Units: ug/l

Prep Date: 08/15/11

Metal	D26536-1A Original MSD	Spikelot MPICPAL % Rec	MSD RPD	QC Limit
Aluminum				
Antimony				
Arsenic				
Barium				
Beryllium				
Boron				
Cadmium				
Calcium	27500	164000	125000	109.2
Chromium				
Cobalt				
Copper				
Iron				
Lead				
Lithium				
Magnesium	4660	133000	125000	102.7
Manganese				
Molybdenum				
Nickel				
Phosphorus				
Potassium				
Selenium				
Silicon				
Silver				
Sodium	32000	158000	125000	100.8
Strontium				
Thallium				
Tin				
Titanium				
Uranium				
Vanadium				
Zinc				

Associated samples MP5467: D26537-1A

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: D26537
Account: LTENVCOR - LT Environmental
Project: Kauffman #1

QC Batch ID: MP5467
Matrix Type: AQUEOUS

Methods: SW846 6010B, USDA HANDBOOK 60
Units: ug/l

Prep Date:

Metal

(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

5.1.2

5

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: D26537

Account: LTENVCOR - LT Environmental

Project: Kauffman #1

QC Batch ID: MP5467

Methods: SW846 6010B, USDA HANDBOOK 60

Matrix Type: AQUEOUS

Units: ug/l

Prep Date:

08/15/11

Metal	BSP Result	Spikelot MPICPALL	% Rec	QC Limits
Aluminum				
Antimony				
Arsenic				
Barium				
Beryllium				
Boron				
Cadmium				
Calcium	138000	125000	110.4	80-120
Chromium				
Cobalt				
Copper				
Iron				
Lead				
Lithium				
Magnesium	129000	125000	103.2	80-120
Manganese				
Molybdenum				
Nickel				
Phosphorus				
Potassium				
Selenium				
Silicon				
Silver				
Sodium	128000	125000	102.4	80-120
Strontium				
Thallium				
Tin				
Titanium				
Uranium				
Vanadium				
Zinc				

Associated samples MP5467: D26537-1A

Results < IDL are shown as zero for calculation purposes

(*) Outside of QC limits

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: D26537
Account: LTENVCOR - LT Environmental
Project: Kauffman #1

QC Batch ID: MP5467
Matrix Type: AQUEOUS

Methods: SW846 6010B, USDA HANDBOOK 60
Units: ug/l

Prep Date:

Metal

(anr) Analyte not requested

5.1.3

5

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: D26537
Account: LTENVCOR - LT Environmental
Project: Kauffman #1

QC Batch ID: MP5472
Matrix Type: SOLID

Methods: SW846 6020
Units: mg/kg

Prep Date: 08/15/11

Metal	RL	IDL	MDL	MB raw	final
Aluminum	25	.14	1.2		
Antimony	0.20	.001	.0095		
Arsenic	0.40	.049	.22	0.25	<0.40
Barium	1.0	.0035	.1		
Beryllium	0.10	.0075	.014		
Boron	20	.97	1		
Cadmium	0.050	.023	.048		
Calcium	200	1.8	8.2		
Chromium	1.0	.021	.24		
Cobalt	0.10	.0033	.003		
Copper	1.0	.011	.063		
Iron	20	.81	3.7		
Lead	0.25	.0012	.015		
Magnesium	50	.067	2.6		
Manganese	0.50	.007	.029		
Molybdenum	0.50	.0044	.023		
Nickel	1.0	.0029	.031		
Phosphorus	30	1.8	3.5		
Potassium	100	2	3.2		
Selenium	0.20	.075	.19		
Silver	0.050	.0008	.002		
Sodium	250	.8	4.4		
Strontium	10	.004	.04		
Thallium	0.10	.015	.02		
Tin	5.0	.006	.028		
Titanium	1.0	.035	.062		
Uranium	0.25	.00038	.0009		
Vanadium	2.0	.052	.29		
Zinc	5.0	.039	.12		

Associated samples MP5472: D26537-1

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: D26537
 Account: LTENVCOR - LT Environmental
 Project: Kauffman #1

QC Batch ID: MP5472
 Matrix Type: SOLID

Methods: SW846 6020
 Units: mg/kg

Prep Date: 08/15/11

Metal	D26536-1 Original MS		Spikelot MPICPALL % Rec		QC Limits
Aluminum					
Antimony					
Arsenic	4.9	105	100	100.1	60-119
Barium					
Beryllium					
Boron					
Cadmium					
Calcium					
Chromium					
Cobalt					
Copper					
Iron					
Lead					
Magnesium					
Manganese					
Molybdenum					
Nickel					
Phosphorus					
Potassium					
Selenium					
Silver					
Sodium					
Strontium					
Thallium					
Tin					
Titanium					
Uranium					
Vanadium					
Zinc					

Associated samples MP5472: D26537-1

Results < IDL are shown as zero for calculation purposes
 (*) Outside of QC limits
 (N) Matrix Spike Rec. outside of QC limits
 (anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: D26537
 Account: LTENVCOR - LT Environmental
 Project: Kauffman #1

QC Batch ID: MP5472
 Matrix Type: SOLID

Methods: SW846 6020
 Units: mg/kg

Prep Date: 08/15/11

Metal	D26536-1 Original	MSD	Spikelot MPICPAL	% Rec	MSD RPD	QC Limit
Aluminum						
Antimony						
Arsenic	4.9	97.3	98	94.2	7.6	20
Barium						
Beryllium						
Boron						
Cadmium						
Calcium						
Chromium						
Cobalt						
Copper						
Iron						
Lead						
Magnesium						
Manganese						
Molybdenum						
Nickel						
Phosphorus						
Potassium						
Selenium						
Silver						
Sodium						
Strontium						
Thallium						
Tin						
Titanium						
Uranium						
Vanadium						
Zinc						

Associated samples MP5472: D26537-1

Results < IDL are shown as zero for calculation purposes
 (*) Outside of QC limits
 (N) Matrix Spike Rec. outside of QC limits
 (anr) Analyte not requested

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: D26537
Account: LTENVCOR - LT Environmental
Project: Kauffman #1

QC Batch ID: MP5472
Matrix Type: SOLID

Methods: SW846 6020
Units: mg/kg

Prep Date: 08/15/11

Metal	BSP Result	Spikelot MPICPALL	% Rec	QC Limits
Aluminum				
Antimony				
Arsenic	103	100	103.0	80-120
Barium				
Beryllium				
Boron				
Cadmium				
Calcium				
Chromium				
Cobalt				
Copper				
Iron				
Lead				
Magnesium				
Manganese				
Molybdenum				
Nickel				
Phosphorus				
Potassium				
Selenium				
Silver				
Sodium				
Strontium				
Thallium				
Tin				
Titanium				
Uranium				
Vanadium				
Zinc				

Associated samples MP5472: D26537-1

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

SERIAL DILUTION RESULTS SUMMARY

Login Number: D26537
Account: LTENVCOR - LT Environmental
Project: Kauffman #1

QC Batch ID: MP5472
Matrix Type: SOLID

Methods: SW846 6020
Units: ug/l

Prep Date: 08/15/11

Metal	D26536-1			QC
	Original	SDL 5:25	%DIF	Limits
Aluminum				
Antimony				
Arsenic	49.4	50.3	1.9	0-10
Barium				
Beryllium				
Boron				
Cadmium				
Calcium				
Chromium				
Cobalt				
Copper				
Iron				
Lead				
Magnesium				
Manganese				
Molybdenum				
Nickel				
Phosphorus				
Potassium				
Selenium				
Silver				
Sodium				
Strontium				
Thallium				
Tin				
Titanium				
Uranium				
Vanadium				
Zinc				

Associated samples MP5472: D26537-1

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

General Chemistry

QC Data Summaries

Includes the following where applicable:

- Method Blank and Blank Spike Summaries
- Duplicate Summaries
- Matrix Spike Summaries

METHOD BLANK AND SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: D26537
Account: LTENVCOR - LT Environmental
Project: Kauffman #1

Analyte	Batch ID	RL	MB Result	Units	Spike Amount	BSP Result	BSP %Recov	QC Limits
Specific Conductivity	GP5202/GN11056	1.0	<1.0	umhos/cm	9986	9720	97.3	90-110%
pH	GN11015			su	8.00	7.97	99.6	99.3-100.7%

Associated Samples:
Batch GN11015: D26537-1
Batch GP5202: D26537-1
(*) Outside of QC limits

6.1
6



28-Mar-2012

Brian Dodek
LT Environmental
4600 West 60th Avenue
Arvada, CO 80003

Tel: (303) 962-5535
Fax: (303) 433-1432

Re: Werner 027311040

Work Order: **1203657**

Dear Brian,

ALS Environmental received 6 samples on 21-Mar-2012 09:25 AM for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested. Results are expressed as "as received" unless otherwise noted.

QC sample results for this data met EPA or laboratory specifications except as noted in the Case Narrative or as noted with qualifiers in the QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained by ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 30.

If you have any questions regarding this report, please feel free to call me.

Sincerely,

A handwritten signature in cursive script that reads "Nicole Brown".

Electronically approved by: Yvan K. Ty

Nicole Brown
Senior Project Manager



Certificate No: T104704231-09A-TX

ADDRESS 10450 Stancliff Rd, Suite 210 Houston, Texas 77099-4338 | PHONE (281) 530-5656 | FAX (281) 530-5887

DOV#T UR X S#K VD /#P R US##Sdu#r i#kh#D OV#Dderudwru|#T urxs##D #dp seha#Burkhu#Op l#hg#P rp sdq|

Environmental

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER

Client: LT Environmental
Project: Werner 027311040
Work Order: 1203657

Work Order Sample Summary

<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>
1203657-01	PS01	Soil		3/19/2012 09:55	3/21/2012 09:25	<input type="checkbox"/>
1203657-02	PS02	Soil		3/19/2012 10:00	3/21/2012 09:25	<input type="checkbox"/>
1203657-03	CS01	Soil		3/19/2012 10:10	3/21/2012 09:25	<input type="checkbox"/>
1203657-04	CS02	Soil		3/19/2012 10:20	3/21/2012 09:25	<input type="checkbox"/>
1203657-05	CS03	Soil		3/19/2012 10:30	3/21/2012 09:25	<input type="checkbox"/>
1203657-06	Trip blank - 011712-24	Water		3/19/2012	3/21/2012 09:25	<input checked="" type="checkbox"/>

Client: LT Environmental
Project: Werner 027311040
Work Order: 1203657

Case Narrative

Batch 59773a, TPH and Miscellaneous GCFID, Sample 1203722-01 : MS/MSD is for an unrelated sample.

Batch 59735, Metals, Sample PS02 : MS/MSD recoveries were above the control limits for Barium and Zinc. The associated RPD's were within the control limits. Results are flagged with an E and an O qualifier as applicable.

Batch 59798, Semivolatile Organics, Sample 1203673-04 : MSD is for an unrelated sample.

Batch R125146, Volatile Organics, Sample CS01 : MSD recovery was slightly above the control limits for Benzene. The associated RPD was within the control limits.

ALS Environmental

Date: 28-Mar-12

Client: LT Environmental
Project: Werner 027311040
Sample ID: PS01
Collection Date: 3/19/2012 09:55 AM

Work Order: 1203657
Lab ID: 1203657-01
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
METALS			SW6020		Prep Date: 3/22/2012	Analyst: SKS
Arsenic	1.47		0.446	mg/Kg	1	3/22/2012 03:24 PM
LA29B SODIUM ADSORPTION RATIO			LA29B SAR		Prep Date: 3/27/2012	Analyst: ALR
Sodium Adsorption Ratio	7.17		0.0100	meq/meq	1	3/27/2012
LA 29B - 1:1 SOLUBLE CATIONS FOR SAR			LA29B-6020		Prep Date: 3/27/2012	Analyst: ALR
Calcium	93.2		25.0	mg/L	50	3/27/2012 04:10 PM
Magnesium	59.3		25.0	mg/L	50	3/27/2012 04:10 PM
Sodium	360		25.0	mg/L	50	3/27/2012 04:10 PM
LA29B ELECTRICAL CONDUCTIVITY			LADNR-29B EC			Analyst: RPM
Electrical Conductivity @ saturation	5.10		0.0100	mmhos/cm @2	1	3/28/2012 08:00 AM
Electrical Conductivity, 1:1 aqueous	2.48		0.0100	mmhos/cm @2	1	3/28/2012 08:00 AM
LA29B SATURATION POINT			LADNR-29B SP			Analyst: KAH
Saturation Point	0.487		0.100	% Saturation as	1	3/27/2012 11:00 AM
PH			SW9045B			Analyst: IAB
pH	8.27		0.100	pH Units	1	3/28/2012 11:00 AM

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

ALS Environmental

Date: 28-Mar-12

Client: LT Environmental
Project: Werner 027311040
Sample ID: PS02
Collection Date: 3/19/2012 10:00 AM

Work Order: 1203657
Lab ID: 1203657-02
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
METALS			SW6020		Prep Date: 3/22/2012	Analyst: SKS
Arsenic	1.71		0.484	mg/Kg	1	3/22/2012 03:28 PM
LA29B SODIUM ADSORPTION RATIO			LA29B SAR		Prep Date: 3/27/2012	Analyst: ALR
Sodium Adsorption Ratio	4.42		0.0100	meq/meq	1	3/27/2012
LA 29B - 1:1 SOLUBLE CATIONS FOR SAR			LA29B-6020		Prep Date: 3/27/2012	Analyst: ALR
Calcium	195		24.9	mg/L	50	3/27/2012 04:14 PM
Magnesium	151		24.9	mg/L	50	3/27/2012 04:14 PM
Sodium	338		24.9	mg/L	50	3/27/2012 04:14 PM
LA29B ELECTRICAL CONDUCTIVITY			LADNR-29B EC			Analyst: RPM
Electrical Conductivity @ saturation	6.80		0.0100	mmhos/cm @2	1	3/28/2012 08:00 AM
Electrical Conductivity, 1:1 aqueous	2.97		0.0100	mmhos/cm @2	1	3/28/2012 08:00 AM
LA29B SATURATION POINT			LADNR-29B SP			Analyst: KAH
Saturation Point	0.437		0.100	% Saturation as	1	3/27/2012 11:00 AM
PH			SW9045B			Analyst: IAB
pH	8.17		0.100	pH Units	1	3/28/2012 11:00 AM

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

ALS Environmental

Date: 28-Mar-12

Client: LT Environmental
Project: Werner 027311040
Sample ID: CS01
Collection Date: 3/19/2012 10:10 AM

Work Order: 1203657
Lab ID: 1203657-03
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH AND MISCELLANEOUS GCFID						
DRO (>C10 - C28)	18		SW8015M		Prep Date: 3/23/2012	Analyst: KMB
<i>Surr: 2-Fluorobiphenyl</i>	75.1		1.7 mg/Kg		1	3/26/2012 03:48 PM
			70-130 %REC		1	3/26/2012 03:48 PM
GASOLINE RANGE ORGANICS - SW8015C						
GASOLINE RANGE ORGANICS	ND		SW8015			Analyst: KKP
<i>Surr: 4-Bromofluorobenzene</i>	86.1		0.050 mg/Kg		1	3/26/2012 08:39 PM
			70-130 %REC		1	3/26/2012 08:39 PM
TRIVALENT CHROMIUM						
Chromium, Trivalent	7.59		CALCULATION			Analyst: SKS
			5.00 mg/Kg		1	3/28/2012
MERCURY - SW7471B						
Mercury	0.0154		SW7471A		Prep Date: 3/26/2012	Analyst: JCJ
			0.00356 mg/Kg		1	3/26/2012 05:01 PM
METALS						
Arsenic	2.46		SW6020		Prep Date: 3/22/2012	Analyst: SKS
Barium	1,970		0.468 mg/Kg		1	3/22/2012 04:02 PM
Cadmium	ND		93.6 mg/Kg		200	3/23/2012 01:41 PM
Chromium	7.59		0.468 mg/Kg		1	3/22/2012 04:02 PM
Copper	13.3		0.468 mg/Kg		1	3/22/2012 04:02 PM
Lead	8.55		0.468 mg/Kg		1	3/22/2012 04:02 PM
Nickel	10.1		0.468 mg/Kg		1	3/22/2012 04:02 PM
Selenium	0.564		0.468 mg/Kg		1	3/22/2012 04:02 PM
Silver	ND		0.468 mg/Kg		1	3/22/2012 04:02 PM
Zinc	38.6		0.468 mg/Kg		1	3/22/2012 04:02 PM
LA29B SODIUM ADSORPTION RATIO						
Sodium Adsorption Ratio	4.06		LA29B SAR		Prep Date: 3/27/2012	Analyst: ALR
			0.0100 meq/meq		1	3/27/2012
LA 29B - 1:1 SOLUBLE CATIONS FOR SAR						
Calcium	457		LA29B-6020		Prep Date: 3/27/2012	Analyst: ALR
Magnesium	128		25.0 mg/L		50	3/27/2012 04:32 PM
Sodium	381		25.0 mg/L		50	3/27/2012 04:32 PM
			25.0 mg/L		50	3/27/2012 04:32 PM
LOW-LEVEL PAHS						
Acenaphthene	ND		SW8270		Prep Date: 3/26/2012	Analyst: LG
Anthracene	ND		0.0066 mg/Kg		1	3/27/2012 01:56 PM
Benz(a)anthracene	ND		0.0066 mg/Kg		1	3/27/2012 01:56 PM
Benzo(a)pyrene	ND		0.0066 mg/Kg		1	3/27/2012 01:56 PM
Benzo(b)fluoranthene	ND		0.0066 mg/Kg		1	3/27/2012 01:56 PM
Benzo(k)fluoranthene	ND		0.0066 mg/Kg		1	3/27/2012 01:56 PM
Chrysene	ND		0.0066 mg/Kg		1	3/27/2012 01:56 PM
Dibenz(a,h)anthracene	ND		0.0066 mg/Kg		1	3/27/2012 01:56 PM

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

ALS Environmental

Date: 28-Mar-12

Client: LT Environmental
Project: Werner 027311040
Sample ID: CS01
Collection Date: 3/19/2012 10:10 AM

Work Order: 1203657
Lab ID: 1203657-03
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Fluoranthene	ND		0.0066	mg/Kg	1	3/27/2012 01:56 PM
Fluorene	ND		0.0066	mg/Kg	1	3/27/2012 01:56 PM
Indeno(1,2,3-cd)pyrene	ND		0.0066	mg/Kg	1	3/27/2012 01:56 PM
Naphthalene	0.012		0.0066	mg/Kg	1	3/27/2012 01:56 PM
Pyrene	ND		0.0066	mg/Kg	1	3/27/2012 01:56 PM
Surr: 2-Fluorobiphenyl	61.8		43-125	%REC	1	3/27/2012 01:56 PM
Surr: 4-Terphenyl-d14	71.2		32-125	%REC	1	3/27/2012 01:56 PM
Surr: Nitrobenzene-d5	64.4		37-125	%REC	1	3/27/2012 01:56 PM
VOLATILES			SW8260			Analyst: WLR
Benzene	ND		0.0050	mg/Kg	1	3/22/2012 03:14 PM
Ethylbenzene	ND		0.0050	mg/Kg	1	3/22/2012 03:14 PM
m,p-Xylene	ND		0.010	mg/Kg	1	3/22/2012 03:14 PM
o-Xylene	ND		0.0050	mg/Kg	1	3/22/2012 03:14 PM
Toluene	ND		0.0050	mg/Kg	1	3/22/2012 03:14 PM
Xylenes, Total	ND		0.015	mg/Kg	1	3/22/2012 03:14 PM
Surr: 1,2-Dichloroethane-d4	93.1		70-128	%REC	1	3/22/2012 03:14 PM
Surr: 4-Bromofluorobenzene	96.6		73-126	%REC	1	3/22/2012 03:14 PM
Surr: Dibromofluoromethane	97.0		71-128	%REC	1	3/22/2012 03:14 PM
Surr: Toluene-d8	102		73-127	%REC	1	3/22/2012 03:14 PM
HEXAVALENT CHROMIUM			SW7196		Prep Date: 3/28/2012	Analyst: IAB
Chromium, Hexavalent	ND		2.00	mg/Kg	1	3/28/2012 01:00 PM
LA29B ELECTRICAL CONDUCTIVITY			LADNR-29B EC			Analyst: RPM
Electrical Conductivity @ saturation	8.40		0.0100	mmhos/cm @2	1	3/28/2012 08:00 AM
Electrical Conductivity, 1:1 aqueous	3.94		0.0100	mmhos/cm @2	1	3/28/2012 08:00 AM
LA29B SATURATION POINT			LADNR-29B SP			Analyst: KAH
Saturation Point	0.469		0.100	% Saturation as	1	3/27/2012 11:00 AM
PH			SW9045B			Analyst: IAB
pH	8.46		0.100	pH Units	1	3/28/2012 11:00 AM

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

ALS Environmental

Date: 28-Mar-12

Client: LT Environmental
Project: Werner 027311040
Sample ID: CS02
Collection Date: 3/19/2012 10:20 AM

Work Order: 1203657
Lab ID: 1203657-04
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH AND MISCELLANEOUS GCFID						
DRO (>C10 - C28)	26		SW8015M		Prep Date: 3/23/2012	Analyst: KMB
<i>Surr: 2-Fluorobiphenyl</i>	<i>84.7</i>		<i>1.7 mg/Kg</i>		1	3/26/2012 04:27 PM
			<i>70-130 %REC</i>		1	3/26/2012 04:27 PM
GASOLINE RANGE ORGANICS - SW8015C						
Gasoline Range Organics	0.084		SW8015			Analyst: KKP
<i>Surr: 4-Bromofluorobenzene</i>	<i>97.8</i>		<i>0.050 mg/Kg</i>		1	3/26/2012 08:57 PM
			<i>70-130 %REC</i>		1	3/26/2012 08:57 PM
TRIVALENT CHROMIUM						
Chromium, Trivalent	8.59		CALCULATION			Analyst: SKS
			5.00 mg/Kg		1	3/28/2012
MERCURY - SW7471B						
Mercury	0.0174		SW7471A		Prep Date: 3/26/2012	Analyst: JCJ
			0.00354 mg/Kg		1	3/26/2012 05:03 PM
METALS						
Arsenic	2.44		SW6020		Prep Date: 3/22/2012	Analyst: SKS
Barium	1,790		0.475 mg/Kg		1	3/22/2012 04:06 PM
Cadmium	ND		94.9 mg/Kg		200	3/23/2012 01:45 PM
Chromium	8.59		0.475 mg/Kg		1	3/22/2012 04:06 PM
Copper	12.3		0.475 mg/Kg		1	3/22/2012 04:06 PM
Lead	8.71		0.475 mg/Kg		1	3/22/2012 04:06 PM
Nickel	10.7		0.475 mg/Kg		1	3/22/2012 04:06 PM
Selenium	0.584		0.475 mg/Kg		1	3/22/2012 04:06 PM
Silver	ND		0.475 mg/Kg		1	3/22/2012 04:06 PM
Zinc	40.3		0.475 mg/Kg		1	3/22/2012 04:06 PM
LA29B SODIUM ADSORPTION RATIO						
Sodium Adsorption Ratio	5.65		LA29B SAR		Prep Date: 3/27/2012	Analyst: ALR
			0.0100 meq/meq		1	3/27/2012
LA 29B - 1:1 SOLUBLE CATIONS FOR SAR						
Calcium	443		LA29B-6020		Prep Date: 3/27/2012	Analyst: ALR
Magnesium	121		25.0 mg/L		50	3/27/2012 04:36 PM
Sodium	520		25.0 mg/L		50	3/27/2012 04:36 PM
			25.0 mg/L		50	3/27/2012 04:36 PM
LOW-LEVEL PAHS						
Acenaphthene	ND		SW8270		Prep Date: 3/26/2012	Analyst: LG
Anthracene	ND		0.0066 mg/Kg		1	3/26/2012 09:21 PM
Benz(a)anthracene	ND		0.0066 mg/Kg		1	3/26/2012 09:21 PM
Benzo(a)pyrene	ND		0.0066 mg/Kg		1	3/26/2012 09:21 PM
Benzo(b)fluoranthene	ND		0.0066 mg/Kg		1	3/26/2012 09:21 PM
Benzo(k)fluoranthene	ND		0.0066 mg/Kg		1	3/26/2012 09:21 PM
Chrysene	ND		0.0066 mg/Kg		1	3/26/2012 09:21 PM
Dibenz(a,h)anthracene	ND		0.0066 mg/Kg		1	3/26/2012 09:21 PM

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

ALS Environmental

Date: 28-Mar-12

Client: LT Environmental
Project: Werner 027311040
Sample ID: CS02
Collection Date: 3/19/2012 10:20 AM

Work Order: 1203657
Lab ID: 1203657-04
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Fluoranthene	ND		0.0066	mg/Kg	1	3/26/2012 09:21 PM
Fluorene	ND		0.0066	mg/Kg	1	3/26/2012 09:21 PM
Indeno(1,2,3-cd)pyrene	ND		0.0066	mg/Kg	1	3/26/2012 09:21 PM
Naphthalene	0.012		0.0066	mg/Kg	1	3/26/2012 09:21 PM
Pyrene	ND		0.0066	mg/Kg	1	3/26/2012 09:21 PM
Surr: 2-Fluorobiphenyl	54.9		43-125	%REC	1	3/26/2012 09:21 PM
Surr: 4-Terphenyl-d14	68.2		32-125	%REC	1	3/26/2012 09:21 PM
Surr: Nitrobenzene-d5	69.7		37-125	%REC	1	3/26/2012 09:21 PM
VOLATILES			SW8260			Analyst: WLR
Benzene	0.010		0.0050	mg/Kg	1	3/22/2012 05:09 PM
Ethylbenzene	ND		0.0050	mg/Kg	1	3/22/2012 05:09 PM
m,p-Xylene	ND		0.010	mg/Kg	1	3/22/2012 05:09 PM
o-Xylene	ND		0.0050	mg/Kg	1	3/22/2012 05:09 PM
Toluene	0.0094		0.0050	mg/Kg	1	3/22/2012 05:09 PM
Xylenes, Total	ND		0.015	mg/Kg	1	3/22/2012 05:09 PM
Surr: 1,2-Dichloroethane-d4	99.7		70-128	%REC	1	3/22/2012 05:09 PM
Surr: 4-Bromofluorobenzene	98.8		73-126	%REC	1	3/22/2012 05:09 PM
Surr: Dibromofluoromethane	98.0		71-128	%REC	1	3/22/2012 05:09 PM
Surr: Toluene-d8	102		73-127	%REC	1	3/22/2012 05:09 PM
HEXAVALENT CHROMIUM			SW7196			Prep Date: 3/28/2012 Analyst: IAB
Chromium, Hexavalent	ND		2.00	mg/Kg	1	3/28/2012 01:00 PM
LA29B ELECTRICAL CONDUCTIVITY			LADNR-29B EC			Analyst: RPM
Electrical Conductivity @ saturation	7.98		0.0100	mmhos/cm @2	1	3/28/2012 08:00 AM
Electrical Conductivity, 1:1 aqueous	4.05		0.0100	mmhos/cm @2	1	3/28/2012 08:00 AM
LA29B SATURATION POINT			LADNR-29B SP			Analyst: KAH
Saturation Point	0.507		0.100	% Saturation as	1	3/27/2012 11:00 AM
PH			SW9045B			Analyst: IAB
pH	8.66		0.100	pH Units	1	3/28/2012 11:00 AM

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

ALS Environmental

Date: 28-Mar-12

Client: LT Environmental
Project: Werner 027311040
Sample ID: CS03
Collection Date: 3/19/2012 10:30 AM

Work Order: 1203657
Lab ID: 1203657-05
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TPH AND MISCELLANEOUS GCFID						
DRO (>C10 - C28)	33		SW8015M		Prep Date: 3/23/2012	Analyst: KMB
<i>Surr: 2-Fluorobiphenyl</i>	<i>89.1</i>		<i>1.7 mg/Kg</i>		<i>1</i>	<i>3/26/2012 04:46 PM</i>
			<i>70-130 %REC</i>		<i>1</i>	<i>3/26/2012 04:46 PM</i>
GASOLINE RANGE ORGANICS - SW8015C						
Gasoline Range Organics	ND		SW8015			Analyst: KKP
<i>Surr: 4-Bromofluorobenzene</i>	<i>85.9</i>		<i>0.050 mg/Kg</i>		<i>1</i>	<i>3/26/2012 09:14 PM</i>
			<i>70-130 %REC</i>		<i>1</i>	<i>3/26/2012 09:14 PM</i>
TRIVALENT CHROMIUM						
Chromium, Trivalent	8.22		CALCULATION			Analyst: SKS
			5.00 mg/Kg		1	3/28/2012
MERCURY - SW7471B						
Mercury	0.0238		SW7471A		Prep Date: 3/26/2012	Analyst: JCJ
			0.00358 mg/Kg		1	3/26/2012 05:05 PM
METALS						
Arsenic	2.55		SW6020		Prep Date: 3/22/2012	Analyst: SKS
Barium	2,200		0.455 mg/Kg		1	3/22/2012 04:10 PM
Cadmium	ND		91.0 mg/Kg		200	3/23/2012 01:50 PM
Chromium	8.22		0.455 mg/Kg		1	3/22/2012 04:10 PM
Copper	12.0		0.455 mg/Kg		1	3/22/2012 04:10 PM
Lead	8.17		0.455 mg/Kg		1	3/22/2012 04:10 PM
Nickel	10.3		0.455 mg/Kg		1	3/22/2012 04:10 PM
Selenium	0.607		0.455 mg/Kg		1	3/22/2012 04:10 PM
Silver	ND		0.455 mg/Kg		1	3/22/2012 04:10 PM
Zinc	38.6		0.455 mg/Kg		1	3/22/2012 04:10 PM
LA29B SODIUM ADSORPTION RATIO						
Sodium Adsorption Ratio	6.70		LA29B SAR		Prep Date: 3/27/2012	Analyst: ALR
			0.0100 meq/meq		1	3/27/2012
LA 29B - 1:1 SOLUBLE CATIONS FOR SAR						
Calcium	266		LA29B-6020		Prep Date: 3/27/2012	Analyst: ALR
Magnesium	64.8		25.0 mg/L		50	3/27/2012 04:41 PM
Sodium	470		25.0 mg/L		50	3/27/2012 04:41 PM
LOW-LEVEL PAHS						
Acenaphthene	ND		SW8270		Prep Date: 3/26/2012	Analyst: LG
Anthracene	ND		0.0066 mg/Kg		1	3/26/2012 09:41 PM
Benz(a)anthracene	0.0080		0.0066 mg/Kg		1	3/26/2012 09:41 PM
Benzo(a)pyrene	ND		0.0066 mg/Kg		1	3/26/2012 09:41 PM
Benzo(b)fluoranthene	ND		0.0066 mg/Kg		1	3/26/2012 09:41 PM
Benzo(k)fluoranthene	ND		0.0066 mg/Kg		1	3/26/2012 09:41 PM
Chrysene	ND		0.0066 mg/Kg		1	3/26/2012 09:41 PM
Dibenz(a,h)anthracene	ND		0.0066 mg/Kg		1	3/26/2012 09:41 PM

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

ALS Environmental

Date: 28-Mar-12

Client: LT Environmental
Project: Werner 027311040
Sample ID: CS03
Collection Date: 3/19/2012 10:30 AM

Work Order: 1203657
Lab ID: 1203657-05
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Fluoranthene	ND		0.0066	mg/Kg	1	3/26/2012 09:41 PM
Fluorene	0.012		0.0066	mg/Kg	1	3/26/2012 09:41 PM
Indeno(1,2,3-cd)pyrene	ND		0.0066	mg/Kg	1	3/26/2012 09:41 PM
Naphthalene	0.034		0.0066	mg/Kg	1	3/26/2012 09:41 PM
Pyrene	ND		0.0066	mg/Kg	1	3/26/2012 09:41 PM
Surr: 2-Fluorobiphenyl	49.1		43-125	%REC	1	3/26/2012 09:41 PM
Surr: 4-Terphenyl-d14	57.4		32-125	%REC	1	3/26/2012 09:41 PM
Surr: Nitrobenzene-d5	48.9		37-125	%REC	1	3/26/2012 09:41 PM
VOLATILES			SW8260			Analyst: WLR
Benzene	0.0050		0.0050	mg/Kg	1	3/22/2012 05:33 PM
Ethylbenzene	ND		0.0050	mg/Kg	1	3/22/2012 05:33 PM
m,p-Xylene	ND		0.010	mg/Kg	1	3/22/2012 05:33 PM
o-Xylene	ND		0.0050	mg/Kg	1	3/22/2012 05:33 PM
Toluene	0.0053		0.0050	mg/Kg	1	3/22/2012 05:33 PM
Xylenes, Total	ND		0.015	mg/Kg	1	3/22/2012 05:33 PM
Surr: 1,2-Dichloroethane-d4	99.0		70-128	%REC	1	3/22/2012 05:33 PM
Surr: 4-Bromofluorobenzene	98.3		73-126	%REC	1	3/22/2012 05:33 PM
Surr: Dibromofluoromethane	99.7		71-128	%REC	1	3/22/2012 05:33 PM
Surr: Toluene-d8	99.6		73-127	%REC	1	3/22/2012 05:33 PM
HEXAVALENT CHROMIUM			SW7196		Prep Date: 3/28/2012	Analyst: IAB
Chromium, Hexavalent	ND		2.00	mg/Kg	1	3/28/2012 01:00 PM
LA29B ELECTRICAL CONDUCTIVITY			LADNR-29B EC			Analyst: RPM
Electrical Conductivity @ saturation	6.82		0.0100	mmhos/cm @2	1	3/28/2012 08:00 AM
Electrical Conductivity, 1:1 aqueous	3.20		0.0100	mmhos/cm @2	1	3/28/2012 08:00 AM
LA29B SATURATION POINT			LADNR-29B SP			Analyst: KAH
Saturation Point	0.469		0.100	% Saturation as	1	3/27/2012 11:00 AM
PH			SW9045B			Analyst: IAB
pH	8.69		0.100	pH Units	1	3/28/2012 11:00 AM

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

ALS Environmental

Date: 28-Mar-12

Client: LT Environmental
 Work Order: 1203657
 Project: Werner 027311040

QC BATCH REPORT

Batch ID: 59773a Instrument ID FID-8 Method: SW8015M

MBLK Sample ID: FBLKS1-120323-59773a Units: mg/Kg Analysis Date: 3/26/2012 09:58 AM

Client ID: Run ID: FID-8_120326A SeqNo: 2729139 Prep Date: 3/23/2012 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (>C10 - C28)	ND	1.7								
Surr: 2-Fluorobiphenyl	3.573	0	3.3	0	108	70-130	0			

LCS Sample ID: FLCSS1-120323-59773a Units: mg/Kg Analysis Date: 3/26/2012 10:17 AM

Client ID: Run ID: FID-8_120326A SeqNo: 2729140 Prep Date: 3/23/2012 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (>C10 - C28)	35.18	1.7	33.3	0	106	70-130	0			
Surr: 2-Fluorobiphenyl	4.226	0	3.3	0	128	70-130	0			

MS Sample ID: 1203722-01CMS Units: mg/Kg Analysis Date: 3/26/2012 10:56 AM

Client ID: Run ID: FID-8_120326A SeqNo: 2729143 Prep Date: 3/23/2012 DF: 50

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (>C10 - C28)	9405	130	33.29	9490	-255	70-130	0			SEO
Surr: 2-Fluorobiphenyl	209.8	0	3.299	0	6360	70-130	0			S

MSD Sample ID: 1203722-01CMSD Units: mg/Kg Analysis Date: 3/26/2012 11:16 AM

Client ID: Run ID: FID-8_120326A SeqNo: 2729144 Prep Date: 3/23/2012 DF: 50

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (>C10 - C28)	10280	130	33.22	9490	2380	70-130	9405	8.91	30	SEO
Surr: 2-Fluorobiphenyl	234	0	3.292	0	7110	70-130	209.8	10.9	30	S

The following samples were analyzed in this batch:

1203657-03A 1203657-04A 1203657-05A

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

Client: LT Environmental
Work Order: 1203657
Project: Werner 027311040

QC BATCH REPORT

Batch ID: **R125298** Instrument ID **FID-9** Method: **SW8015**

MBLK	Sample ID: GBLKS1-120326-R125298				Units: mg/Kg		Analysis Date: 3/26/2012 04:26 PM			
Client ID:	Run ID: FID-9_120326B				SeqNo: 2728628		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Gasoline Range Organics	ND	0.050								
<i>Surr: 4-Bromofluorobenzene</i>	<i>0.09168</i>	<i>0.0050</i>	<i>0.1</i>	<i>0</i>	<i>91.7</i>	<i>70-130</i>	<i>0</i>			

LCS	Sample ID: GLCSS1-120326-R125298				Units: mg/Kg		Analysis Date: 3/26/2012 03:50 PM			
Client ID:	Run ID: FID-9_120326B				SeqNo: 2728626		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Gasoline Range Organics	0.8671	0.050	1	0	86.7	70-130	0			
<i>Surr: 4-Bromofluorobenzene</i>	<i>0.1054</i>	<i>0.0050</i>	<i>0.1</i>	<i>0</i>	<i>105</i>	<i>70-130</i>	<i>0</i>			

LCSD	Sample ID: GLCSDS1-120326-R125298				Units: mg/Kg		Analysis Date: 3/26/2012 04:08 PM			
Client ID:	Run ID: FID-9_120326B				SeqNo: 2728627		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Gasoline Range Organics	0.9256	0.050	1	0	92.6	70-130	0.8671	6.53	30	
<i>Surr: 4-Bromofluorobenzene</i>	<i>0.1065</i>	<i>0.0050</i>	<i>0.1</i>	<i>0</i>	<i>107</i>	<i>70-130</i>	<i>0.1054</i>	<i>1.05</i>	<i>30</i>	

MS	Sample ID: 1203444-34ZMS				Units: mg/Kg		Analysis Date: 3/26/2012 06:52 PM			
Client ID:	Run ID: FID-9_120326B				SeqNo: 2728632		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Gasoline Range Organics	1.047	0.050	1	0.03749	101	70-130	0			
<i>Surr: 4-Bromofluorobenzene</i>	<i>0.09886</i>	<i>0.0050</i>	<i>0.1</i>	<i>0</i>	<i>98.9</i>	<i>70-130</i>	<i>0</i>			

MSD	Sample ID: 1203444-34ZMSD				Units: mg/Kg		Analysis Date: 3/26/2012 07:10 PM			
Client ID:	Run ID: FID-9_120326B				SeqNo: 2728633		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Gasoline Range Organics	1.015	0.050	1	0.03749	97.7	70-130	1.047	3.1	30	
<i>Surr: 4-Bromofluorobenzene</i>	<i>0.09155</i>	<i>0.0050</i>	<i>0.1</i>	<i>0</i>	<i>91.6</i>	<i>70-130</i>	<i>0.09886</i>	<i>7.67</i>	<i>30</i>	

The following samples were analyzed in this batch:

1203657-03A	1203657-04A	1203657-05A
-------------	-------------	-------------

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

Client: LT Environmental
Work Order: 1203657
Project: Werner 027311040

QC BATCH REPORT

Batch ID: **59735** Instrument ID **ICPMS03** Method: **SW6020**

MBLK	Sample ID: MBLKS2-032212-59735				Units: mg/Kg		Analysis Date: 3/22/2012 03:06 PM			
Client ID:	Run ID: ICPMS03_120322A				SeqNo: 2725628		Prep Date: 3/22/2012		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	ND	0.50								
Barium	ND	0.50								
Cadmium	ND	0.50								
Chromium	ND	0.50								
Copper	ND	0.50								
Lead	ND	0.50								
Nickel	ND	0.50								
Selenium	ND	0.50								
Silver	ND	0.50								
Zinc	0.2624	0.50								J

LCS	Sample ID: MLCSS2-032212-59735				Units: mg/Kg		Analysis Date: 3/22/2012 03:19 PM			
Client ID:	Run ID: ICPMS03_120322A				SeqNo: 2725631		Prep Date: 3/22/2012		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	9.332	0.50	10	0	93.3	80-120	0			
Barium	9.852	0.50	10	0	98.5	80-120	0			
Cadmium	9.574	0.50	10	0	95.7	80-120	0			
Chromium	9.066	0.50	10	0	90.7	80-120	0			
Copper	9.298	0.50	10	0	93	80-120	0			
Lead	9.735	0.50	10	0	97.4	80-120	0			
Nickel	9.24	0.50	10	0	92.4	80-120	0			
Selenium	9.324	0.50	10	0	93.2	80-120	0			
Silver	10.02	0.50	10	0	100	80-120	0			
Zinc	9.615	0.50	10	0	96.2	80-120	0			

MS	Sample ID: 1203657-02BMS				Units: mg/Kg		Analysis Date: 3/22/2012 03:36 PM			
Client ID: PS02	Run ID: ICPMS03_120322A				SeqNo: 2725635		Prep Date: 3/22/2012		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	10.18	0.48	9.502	1.711	89.1	75-125	0			
Barium	373.8	0.48	9.502	311	661	75-125	0			SEO
Cadmium	8.414	0.48	9.502	0.2669	85.7	75-125	0			
Chromium	16.94	0.48	9.502	8.411	89.8	75-125	0			
Copper	23.19	0.48	9.502	14.64	90.1	75-125	0			
Lead	22.65	0.48	9.502	13.5	96.3	75-125	0			
Nickel	21.39	0.48	9.502	12.64	92	75-125	0			
Selenium	8.976	0.48	9.502	0.9751	84.2	75-125	0			
Silver	8.629	0.48	9.502	0.0724	90	75-125	0			
Zinc	61.47	0.48	9.502	48.97	132	75-125	0			SO

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

Client: LT Environmental
Work Order: 1203657
Project: Werner 027311040

QC BATCH REPORT

Batch ID: **59735** Instrument ID **ICPMS03** Method: **SW6020**

MSD		Sample ID: 1203657-02BMSD				Units: mg/Kg		Analysis Date: 3/22/2012 03:41 PM		
Client ID: PS02		Run ID: ICPMS03_120322A				SeqNo: 2725636		Prep Date: 3/22/2012		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	10.23	0.47	9.391	1.711	90.7	75-125	10.18	0.495	25	
Barium	451.8	0.47	9.391	311	1500	75-125	373.8	18.9	25	SEO
Cadmium	9.12	0.47	9.391	0.2669	94.3	75-125	8.414	8.05	25	
Chromium	17.42	0.47	9.391	8.411	95.9	75-125	16.94	2.79	25	
Copper	24.54	0.47	9.391	14.64	105	75-125	23.19	5.64	25	
Lead	25.12	0.47	9.391	13.5	124	75-125	22.65	10.3	25	
Nickel	21.68	0.47	9.391	12.64	96.2	75-125	21.39	1.33	25	
Selenium	9.006	0.47	9.391	0.9751	85.5	75-125	8.976	0.342	25	
Silver	9.044	0.47	9.391	0.0724	95.5	75-125	8.629	4.7	25	
Zinc	64.11	0.47	9.391	48.97	161	75-125	61.47	4.2	25	SO

DUP		Sample ID: 1203657-02BDUP				Units: mg/Kg		Analysis Date: 3/22/2012 03:32 PM		
Client ID: PS02		Run ID: ICPMS03_120322A				SeqNo: 2725634		Prep Date: 3/22/2012		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	1.958	0.48	0	0	0	0-0	1.711	13.5	25	
Cadmium	0.2891	0.48	0	0	0	0-0	0.2669	0	25	J
Chromium	9.151	0.48	0	0	0	0-0	8.411	8.43	25	
Copper	16.41	0.48	0	0	0	0-0	14.64	11.4	25	
Lead	15.15	0.48	0	0	0	0-0	13.5	11.5	25	
Nickel	13.77	0.48	0	0	0	0-0	12.64	8.56	25	
Selenium	0.9792	0.48	0	0	0	0-0	0.9751	0.419	25	
Silver	0.078	0.48	0	0	0	0-0	0.0724	0	25	J
Zinc	54.25	0.48	0	0	0	0-0	48.97	10.2	25	

DUP		Sample ID: 1203657-02BDUP				Units: mg/Kg		Analysis Date: 3/23/2012 01:03 PM		
Client ID: PS02		Run ID: ICPMS03_120323A				SeqNo: 2726119		Prep Date: 3/22/2012		DF: 50
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Barium	340.7	24	0	0	0	0-0	278.6	20.1	25	

The following samples were analyzed in this batch:

1203657-01B	1203657-02B	1203657-03A
1203657-04A	1203657-05A	

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

Client: LT Environmental
Work Order: 1203657
Project: Werner 027311040

QC BATCH REPORT

Batch ID: **59801** Instrument ID **HG02** Method: **SW7471A**

MBLK Sample ID: **GBLKS1-032612-59801** Units: **µg/Kg** Analysis Date: **3/26/2012 04:22 PM**

Client ID: Run ID: **HG02_120326A** SeqNo: **2728044** Prep Date: **3/26/2012** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	ND	3.3								

LCS Sample ID: **GLCSS1-032612-59801** Units: **µg/Kg** Analysis Date: **3/26/2012 04:24 PM**

Client ID: Run ID: **HG02_120326A** SeqNo: **2728045** Prep Date: **3/26/2012** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	341.3	3.3	333.3	0	102	85-115	0			

MS Sample ID: **1203651-12BMS** Units: **µg/Kg** Analysis Date: **3/26/2012 04:35 PM**

Client ID: Run ID: **HG02_120326A** SeqNo: **2728048** Prep Date: **3/26/2012** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	341	3.6	359.7	23.02	88.4	85-115	0			

MSD Sample ID: **1203651-12BMSD** Units: **µg/Kg** Analysis Date: **3/26/2012 04:37 PM**

Client ID: Run ID: **HG02_120326A** SeqNo: **2728049** Prep Date: **3/26/2012** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	334.5	3.5	352.1	23.02	88.5	85-115	341	1.92	20	

DUP Sample ID: **1203651-12BDUP** Units: **µg/Kg** Analysis Date: **3/26/2012 04:31 PM**

Client ID: Run ID: **HG02_120326A** SeqNo: **2728047** Prep Date: **3/26/2012** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	23.43	3.6	0	0	0		23.02	1.77	20	

The following samples were analyzed in this batch:

1203657-03A	1203657-04A	1203657-05A
-------------	-------------	-------------

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

Client: LT Environmental
Work Order: 1203657
Project: Werner 027311040

QC BATCH REPORT

Batch ID: **59835** Instrument ID **ICPMS03** Method: **La29B-6020**

MBLK	Sample ID: BLK-032612 SAR-59835				Units: mg/L		Analysis Date: 3/27/2012 02:27 PM			
Client ID:	Run ID: ICPMS03_120327A				SeqNo: 2729251		Prep Date: 3/27/2012		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Calcium	ND	0.50								
Magnesium	ND	0.50								
Sodium	ND	0.50								

LCS	Sample ID: LCS-032612 SAR-59835				Units: mg/L		Analysis Date: 3/27/2012 02:39 PM			
Client ID:	Run ID: ICPMS03_120327A				SeqNo: 2729252		Prep Date: 3/27/2012		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Calcium	5.036	0.50	5	0	101	80-120	0			
Magnesium	4.78	0.50	5	0	95.6	80-120	0			
Sodium	4.832	0.50	5	0	96.6	80-120	0			

DUP	Sample ID: 1203657-02ADUP				Units: mg/L		Analysis Date: 3/27/2012 04:19 PM			
Client ID: PS02	Run ID: ICPMS03_120327A				SeqNo: 2729479		Prep Date: 3/27/2012		DF: 50	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Calcium	185.4	25	0	0	0		194.8	4.95	30	
Magnesium	143.3	25	0	0	0		151.4	5.53	30	
Sodium	318.2	25	0	0	0		337.8	5.95	30	

The following samples were analyzed in this batch:

1203657-01A	1203657-02A	1203657-03B
1203657-04B	1203657-05B	

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

Client: LT Environmental
Work Order: 1203657
Project: Werner 027311040

QC BATCH REPORT

Batch ID: **59835A** Instrument ID **MISC-Metals** Method: **La29B SAR**

DUP Sample ID: **1203657-02ADUP** Units: **meq/meq** Analysis Date: **3/27/2012**
Client ID: **PS02** Run ID: **MISC-METALS_120327** SeqNo: **2729576** Prep Date: **3/27/2012** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Sodium Adsorption Ratio	4.27	0.010	0	0	0		4.42	3.45	30	

The following samples were analyzed in this batch:

1203657-01A	1203657-02A	1203657-03B
1203657-04B	1203657-05B	

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

Client: LT Environmental
Work Order: 1203657
Project: Werner 027311040

QC BATCH REPORT

Batch ID: **59798** Instrument ID **SV-4** Method: **SW8270**

MBLK	Sample ID: SBLKS1-120326-59798				Units: µg/Kg		Analysis Date: 3/26/2012 01:20 PM			
Client ID:	Run ID: SV-4_120326A				SeqNo: 2727708		Prep Date: 3/26/2012		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	ND	6.6								
Anthracene	ND	6.6								
Benz(a)anthracene	ND	6.6								
Benzo(a)pyrene	ND	6.6								
Benzo(b)fluoranthene	ND	6.6								
Benzo(k)fluoranthene	ND	6.6								
Chrysene	ND	6.6								
Dibenz(a,h)anthracene	ND	6.6								
Fluoranthene	ND	6.6								
Fluorene	ND	6.6								
Indeno(1,2,3-cd)pyrene	ND	6.6								
Naphthalene	ND	6.6								
Pyrene	ND	6.6								
Surr: 2-Fluorobiphenyl	123.7	6.6	166.7	0	74.2	43-125	0			
Surr: 4-Terphenyl-d14	134.9	6.6	166.7	0	80.9	32-125	0			
Surr: Nitrobenzene-d5	133.3	6.6	166.7	0	80	37-125	0			

LCS	Sample ID: SLCSS1-120326-59798				Units: µg/Kg		Analysis Date: 3/26/2012 01:40 PM			
Client ID:	Run ID: SV-4_120326A				SeqNo: 2727709		Prep Date: 3/26/2012		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	111	6.6	166.7	0	66.6	50-120	0			
Anthracene	120.3	6.6	166.7	0	72.2	50-123	0			
Benz(a)anthracene	116.5	6.6	166.7	0	69.9	50-131	0			
Benzo(a)pyrene	119.6	6.6	166.7	0	71.8	50-130	0			
Benzo(b)fluoranthene	129.7	6.6	166.7	0	77.8	50-137	0			
Benzo(k)fluoranthene	115.1	6.6	166.7	0	69.1	50-143	0			
Chrysene	113.2	6.6	166.7	0	67.9	50-130	0			
Dibenz(a,h)anthracene	119.5	6.6	166.7	0	71.7	50-130	0			
Fluoranthene	119.7	6.6	166.7	0	71.8	50-131	0			
Fluorene	120.9	6.6	166.7	0	72.5	50-125	0			
Indeno(1,2,3-cd)pyrene	128.2	6.6	166.7	0	76.9	45-139	0			
Naphthalene	114	6.6	166.7	0	68.4	50-125	0			
Pyrene	117.6	6.6	166.7	0	70.5	45-130	0			
Surr: 2-Fluorobiphenyl	120.4	6.6	166.7	0	72.3	43-125	0			
Surr: 4-Terphenyl-d14	127.2	6.6	166.7	0	76.3	32-125	0			
Surr: Nitrobenzene-d5	122.7	6.6	166.7	0	73.6	37-125	0			

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

Client: LT Environmental
 Work Order: 1203657
 Project: Werner 027311040

QC BATCH REPORT

Batch ID: **59798** Instrument ID **SV-4** Method: **SW8270**

MS	Sample ID: 1203673-04BMS				Units: µg/Kg		Analysis Date: 3/26/2012 02:20 PM			
Client ID:	Run ID: SV-4_120326A				SeqNo: 2727711		Prep Date: 3/26/2012		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	101.4	6.6	166.5	0	60.9	50-120	0			
Anthracene	122.1	6.6	166.5	0	73.3	50-123	0			
Benz(a)anthracene	129.8	6.6	166.5	0	78	50-131	0			
Benzo(a)pyrene	133.1	6.6	166.5	0	79.9	50-130	0			
Benzo(b)fluoranthene	148.9	6.6	166.5	0	89.4	50-137	0			
Benzo(k)fluoranthene	130.9	6.6	166.5	0	78.6	50-143	0			
Chrysene	120.4	6.6	166.5	0	72.3	50-130	0			
Dibenz(a,h)anthracene	133.9	6.6	166.5	0	80.4	50-130	0			
Fluoranthene	123.7	6.6	166.5	0	74.3	50-131	0			
Fluorene	116	6.6	166.5	0	69.7	50-125	0			
Indeno(1,2,3-cd)pyrene	146.6	6.6	166.5	0	88	45-139	0			
Naphthalene	107.1	6.6	166.5	0	64.3	50-125	0			
Pyrene	123.7	6.6	166.5	0	74.3	45-130	0			
Surr: 2-Fluorobiphenyl	109.3	6.6	166.5	0	65.7	43-125	0			
Surr: 4-Terphenyl-d14	140.2	6.6	166.5	0	84.2	32-125	0			
Surr: Nitrobenzene-d5	115.2	6.6	166.5	0	69.2	37-125	0			

MSD				Sample ID: 1203673-04BMSD			Units: µg/Kg		Analysis Date: 3/26/2012 02:40 PM		
Client ID:		Run ID: SV-4_120326A			SeqNo: 2727712		Prep Date: 3/26/2012		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Acenaphthene	79.29	6.6	166.4	0	47.6	50-120	101.4	24.5	30	S	
Anthracene	106.2	6.6	166.4	0	63.8	50-123	122.1	13.8	30		
Benz(a)anthracene	116.6	6.6	166.4	0	70	50-131	129.8	10.7	30		
Benzo(a)pyrene	127	6.6	166.4	0	76.3	50-130	133.1	4.65	30		
Benzo(b)fluoranthene	132.4	6.6	166.4	0	79.6	50-137	148.9	11.7	30		
Benzo(k)fluoranthene	125.7	6.6	166.4	0	75.5	50-143	130.9	4.1	30		
Chrysene	109.2	6.6	166.4	0	65.6	50-130	120.4	9.77	30		
Dibenz(a,h)anthracene	129.4	6.6	166.4	0	77.7	50-130	133.9	3.46	30		
Fluoranthene	109.1	6.6	166.4	0	65.5	50-131	123.7	12.5	30		
Fluorene	88.98	6.6	166.4	0	53.5	50-125	116	26.4	30		
Indeno(1,2,3-cd)pyrene	137.9	6.6	166.4	0	82.9	45-139	146.6	6.08	30		
Naphthalene	79.8	6.6	166.4	0	47.9	50-125	107.1	29.3	30	S	
Pyrene	111.9	6.6	166.4	0	67.2	45-130	123.7	10	30		
Surr: 2-Fluorobiphenyl	83.78	6.6	166.4	0	50.3	43-125	109.3	26.5	30		
Surr: 4-Terphenyl-d14	126.9	6.6	166.4	0	76.2	32-125	140.2	10	30		
Surr: Nitrobenzene-d5	85.53	6.6	166.4	0	51.4	37-125	115.2	29.6	30		

The following samples were analyzed in this batch:

1203657-03A 1203657-04A 1203657-05A

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

Client: LT Environmental
Work Order: 1203657
Project: Werner 027311040

QC BATCH REPORT

Batch ID: **R125146** Instrument ID **VOA5** Method: **SW8260**

MBLK	Sample ID: VBLKS1-032112-R125146			Units: µg/Kg			Analysis Date: 3/22/2012 02:51 PM			
Client ID:	Run ID: VOA5_120322A			SeqNo: 2725440			Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	ND	5.0								
Ethylbenzene	ND	5.0								
m,p-Xylene	ND	10								
o-Xylene	ND	5.0								
Toluene	ND	5.0								
Xylenes, Total	ND	15								
Surr: 1,2-Dichloroethane-d4	45.65	0	50	0	91.3	70-128	0			
Surr: 4-Bromofluorobenzene	49.33	0	50	0	98.7	73-126	0			
Surr: Dibromofluoromethane	48.73	0	50	0	97.5	71-128	0			
Surr: Toluene-d8	51.25	0	50	0	102	73-127	0			

LCS	Sample ID: VLCSS1-032212-R125146			Units: µg/Kg			Analysis Date: 3/22/2012 01:19 PM			
Client ID:	Run ID: VOA5_120322A			SeqNo: 2725438			Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	53.8	5.0	50	0	108	79-120	0			
Ethylbenzene	53.05	5.0	50	0	106	80-122	0			
m,p-Xylene	98.35	10	100	0	98.4	79-122	0			
o-Xylene	52.07	5.0	50	0	104	80-123	0			
Toluene	52.67	5.0	50	0	105	79-120	0			
Xylenes, Total	150.4	15	150	0	100	80-120	0			
Surr: 1,2-Dichloroethane-d4	49.96	0	50	0	99.9	70-128	0			
Surr: 4-Bromofluorobenzene	51.28	0	50	0	103	73-126	0			
Surr: Dibromofluoromethane	49.66	0	50	0	99.3	71-128	0			
Surr: Toluene-d8	50.04	0	50	0	100	73-127	0			

LCSD	Sample ID: VLCSDS1-032212-R125146			Units: µg/Kg			Analysis Date: 3/22/2012 01:42 PM			
Client ID:	Run ID: VOA5_120322A			SeqNo: 2725439			Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	49.55	5.0	50	0	99.1	79-120	53.8	8.22	30	
Ethylbenzene	47.12	5.0	50	0	94.2	80-122	53.05	11.8	30	
m,p-Xylene	87.41	10	100	0	87.4	79-122	98.35	11.8	30	
o-Xylene	45.99	5.0	50	0	92	80-123	52.07	12.4	30	
Toluene	47.33	5.0	50	0	94.7	79-120	52.67	10.7	30	
Xylenes, Total	133.4	15	150	0	88.9	80-120	150.4	12	30	
Surr: 1,2-Dichloroethane-d4	51.25	0	50	0	102	70-128	49.96	2.55	30	
Surr: 4-Bromofluorobenzene	51.71	0	50	0	103	73-126	51.28	0.832	30	
Surr: Dibromofluoromethane	51.53	0	50	0	103	71-128	49.66	3.68	30	
Surr: Toluene-d8	50.2	0	50	0	100	73-127	50.04	0.336	30	

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

Client: LT Environmental
 Work Order: 1203657
 Project: Werner 027311040

QC BATCH REPORT

Batch ID: **R125146** Instrument ID **VOA5** Method: **SW8260**

MS				Sample ID: 1203657-03AMS			Units: µg/Kg		Analysis Date: 3/22/2012 04:00 PM		
Client ID: CS01		Run ID: VOA5_120322A			SeqNo: 2725717		Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Benzene	50.91	5.0	50	0	102	79-120	0				
Ethylbenzene	49.16	5.0	50	0	98.3	80-122	0				
m,p-Xylene	92.36	10	100	0	92.4	79-122	0				
o-Xylene	49.19	5.0	50	0	98.4	80-123	0				
Toluene	51.24	5.0	50	1.168	100	79-120	0				
Xylenes, Total	141.6	15	150	0	94.4	80-120	0				
Surr: 1,2-Dichloroethane-d4	49.45	0	50	0	98.9	70-128	0				
Surr: 4-Bromofluorobenzene	52.02	0	50	0	104	73-126	0				
Surr: Dibromofluoromethane	50.62	0	50	0	101	71-128	0				
Surr: Toluene-d8	51.14	0	50	0	102	73-127	0				

MSD	Sample ID: 1203657-03AMSD					Units: µg/Kg		Analysis Date: 3/22/2012 04:23 PM		
Client ID: CS01	Run ID: VOA5_120322A				SeqNo: 2725719		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	60.33	5.0	50	0	121	79-120	50.91	17	30	S
Ethylbenzene	53.09	5.0	50	0	106	80-122	49.16	7.67	30	
m,p-Xylene	99.77	10	100	0	99.8	79-122	92.36	7.71	30	
o-Xylene	53.61	5.0	50	0	107	80-123	49.19	8.58	30	
Toluene	60.49	5.0	50	1.168	119	79-120	51.24	16.6	30	
Xylenes, Total	153.4	15	150	0	102	80-120	141.6	8.02	30	
Surr: 1,2-Dichloroethane-d4	51.53	0	50	0	103	70-128	49.45	4.12	30	
Surr: 4-Bromofluorobenzene	51.52	0	50	0	103	73-126	52.02	0.968	30	
Surr: Dibromofluoromethane	50.86	0	50	0	102	71-128	50.62	0.463	30	
Surr: Toluene-d8	50.6	0	50	0	101	73-127	51.14	1.07	30	

The following samples were analyzed in this batch:

1203657-03A	1203657-04A	1203657-05A
-------------	-------------	-------------

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

Client: LT Environmental
Work Order: 1203657
Project: Werner 027311040

QC BATCH REPORT

Batch ID: **59889** Instrument ID **UV-2450** Method: **SW7196**

MBLK Sample ID: **WBLKS-032812-59889** Units: **mg/kg** Analysis Date: **3/28/2012 01:00 PM**

Client ID: Run ID: **UV-2450_120328B** SeqNo: **2730755** Prep Date: **3/28/2012** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chromium, Hexavalent	ND	2.0								

LCS Sample ID: **WLCSS-032812-59889** Units: **mg/kg** Analysis Date: **3/28/2012 01:00 PM**

Client ID: Run ID: **UV-2450_120328B** SeqNo: **2730756** Prep Date: **3/28/2012** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chromium, Hexavalent	9.84	2.0	10	0	98.4	80-120	0			

LCSD Sample ID: **WLCSDS-032812-59889** Units: **mg/kg** Analysis Date: **3/28/2012 01:00 PM**

Client ID: Run ID: **UV-2450_120328B** SeqNo: **2730765** Prep Date: **3/28/2012** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chromium, Hexavalent	9.96	2.0	10	0	99.6	80-120	9.84	1.21	20	

MS Sample ID: **1203659-04AMS** Units: **mg/kg** Analysis Date: **3/28/2012 01:00 PM**

Client ID: Run ID: **UV-2450_120328B** SeqNo: **2730766** Prep Date: **3/28/2012** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chromium, Hexavalent	10.08	2.0	10	0	101	75-125	0			

The following samples were analyzed in this batch:

1203657-03A	1203657-04A	1203657-05A
-------------	-------------	-------------

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

Client: LT Environmental
Work Order: 1203657
Project: Werner 027311040

QC BATCH REPORT

Batch ID: **R125331** Instrument ID **WetChem** Method: **LaDNR-29B SP**

DUP Sample ID: **1203657-01ADUP** Units: **% Saturation as D** Analysis Date: **3/27/2012 11:00 AM**

Client ID: **PS01** Run ID: **WETCHEM_120327D** SeqNo: **2729363** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Saturation Point	0.484	0.10	0	0	0		0.487	0.618	30	

The following samples were analyzed in this batch:

1203657-01A	1203657-02A	1203657-03B
1203657-04B	1203657-05B	

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

Client: LT Environmental
Work Order: 1203657
Project: Werner 027311040

QC BATCH REPORT

Batch ID: **R125354** Instrument ID **WetChem** Method: **LaDNR-29B EC**

MBLK Sample ID: **WBLKW1-032812-R125354** Units: **mmhos/cm @25°** Analysis Date: **3/28/2012 08:00 AM**

Client ID: Run ID: **WETCHEM_120328A** SeqNo: **2729931** 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	0.010								
Electrical Conductivity, 1:1 aqueous	ND	0.010								

LCS Sample ID: **WLCSW1-032812-R125354** Units: **mmhos/cm @25°** Analysis Date: **3/28/2012 08:00 AM**

Client ID: Run ID: **WETCHEM_120328A** SeqNo: **2729932** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Electrical Conductivity, 1:1 aqueous	1.42	0.010	1.412	0	101	90-110	0			

DUP Sample ID: **1203657-01ADUP** Units: **mmhos/cm @25°** Analysis Date: **3/28/2012 08:00 AM**

Client ID: **PS01** Run ID: **WETCHEM_120328A** SeqNo: **2729946** 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	5.12	0.010	0	0	0		5.096	0.47	20	
Electrical Conductivity, 1:1 aqueous	2.48	0.010	0	0	0		2.48	0	20	

The following samples were analyzed in this batch:

1203657-01A	1203657-02A	1203657-03B
1203657-04B	1203657-05B	

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

Client: LT Environmental
Work Order: 1203657
Project: Werner 027311040

QC BATCH REPORT

Batch ID: **R125389** Instrument ID **WetChem** Method: **SW9045B**

LCS		Sample ID: WLCS-032812-R125389				Units: pH Units		Analysis Date: 3/28/2012 11:00 AM		
Client ID:		Run ID: WETCHEM_120328E				SeqNo: 2730576		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
pH	6.04	0.10	6	0	101	90-110	0			

DUP		Sample ID: 1203651-01ADUP				Units: pH Units		Analysis Date: 3/28/2012 11:00 AM		
Client ID:		Run ID: WETCHEM_120328E				SeqNo: 2730598		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
pH	5.03	0.10	0	5.01	0	0-0	5.01	0.398	20	

The following samples were analyzed in this batch:

1203657-01B	1203657-02B	1203657-03A
1203657-04A	1203657-05A	

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

Client: LT Environmental
Project: Werner 027311040
WorkOrder: 1203657

QUALIFIERS, ACRONYMS, UNITS

<u>Qualifier</u>	<u>Description</u>
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte detected below quantitation limit
M	Manually integrated, see raw data for justification
n	Not offered for accreditation
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

<u>Acronym</u>	<u>Description</u>
DCS	Detectability Check Study
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitation Limit
SD	Serial Dilution
SDL	Sample Detection Limit
TRRP	Texas Risk Reduction Program

<u>Units Reported</u>	<u>Description</u>
aturation as Dec	
meq/meq	
mg/Kg	Milligrams per Kilogram
mg/L	Milligrams per Liter
imhos/cm @25°	
pH Units	

Sample Receipt Checklist

Client Name: **LT ENVIRONMENTAL**

Date/Time Received: **21-Mar-12 09:25**

Work Order: **1203657**

Received by: **RDN**

Checklist completed by *Parash M. Ciga*
eSignature

21-Mar-12
Date

Reviewed by: *Nicole Brown*
eSignature

21-Mar-12
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 checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input 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"/>	
Temperature(s)/Thermometer(s):	<u>1.2</u> <u>002</u>		
Cooler(s)/Kit(s):	<u>4202</u>		
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:	<u>-</u>		
Login Notes:			

Client Contacted:

Date Contacted:

Person Contacted:

Contacted By:

Regarding:

Comments:

CorrectiveAction:



CHAIN OF CUSTODY

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

COC number (for client tracking)

Page 1 of 1

[illegible]

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

**ALS Environmental**

10450 Stancilff Rd., Suite 210
Houston, Texas 77099
Tel. +1 281 530 5656
Fax. +1 281 530 5887

CUSTODY SEAL

Date: 3/20/12 Time: 0800
Name: Chris McKisson
Company: LTE

Seal Broken By:

RN

Date:

3/21/12

This portion can be removed for Recipient's records.

3120112FedEx
Tracking Number875882544965Sender's
NameChris McKissonPhone 713 285 9990

Company

LTE

Address

822 Morgan AveUnit B

Dept./Floor/Suite/Room

P.O. Box

State

CO

ZIP

81650

or Internal Billing Reference



G+Jul-2012

Brian Dodek
LT Environmental
4600 West 60th Avenue
Arvada, CO 80003

Tel: (303) 962-5535
Fax: (303) 433-1432

Re: Werner Pad - 027311040

Work Order: **1207153**

Dear Brian,

ALS Environmental received 4 samples on 05-Jul-2012 09:00 AM for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested. Results are expressed as "as received" unless otherwise noted.

QC sample results for this data met EPA or laboratory specifications except as noted in the Case Narrative or as noted with qualifiers in the QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained by ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 12.

If you have any questions regarding this report, please feel free to call me.

Sincerely,

A handwritten signature in cursive script that reads "Patricia L. Lynch".

Electronically approved by: Jumoke M. Lawal

Patricia L. Lynch
Project Manager



Certificate No: T104704231-09A-TX

ADDRESS 10450 Stancliff Rd, Suite 210 Houston, Texas 77099-4338 | PHONE (281) 530-5656 | FAX (281) 530-5887

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

Environmental

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER

Client: LT Environmental
Project: Werner Pad - 027311040
Work Order: 1207153

Work Order Sample Summary

<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>
1207153-01	BG01	Soil		6/29/2012 13:45	7/5/2012 09:00	<input type="checkbox"/>
1207153-02	BG02	Soil		6/29/2012 14:00	7/5/2012 09:00	<input type="checkbox"/>
1207153-03	BG03	Soil		6/29/2012 14:10	7/5/2012 09:00	<input type="checkbox"/>
1207153-04	BG04	Soil		6/29/2012 14:20	7/5/2012 09:00	<input type="checkbox"/>

ALS Environmental

Date: 23-Jul-12

Client: LT Environmental
Project: Werner Pad - 027311040
Work Order: 1207153

Case Narrative

No exceptions

ALS Environmental

Date: 23-Jul-12

Client: LT Environmental
Project: Werner Pad - 027311040
Sample ID: BG01
Collection Date: 6/29/2012 01:45 PM

Work Order: 1207153
Lab ID: 1207153-01
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
METALS			SW6020		Prep Date: 7/11/2012	Analyst: ALR
Arsenic	3.61		0.438	mg/Kg	1	7/12/2012 04:40 AM

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

ALS Environmental

Date: 23-Jul-12

Client: LT Environmental
Project: Werner Pad - 027311040
Sample ID: BG02
Collection Date: 6/29/2012 02:00 PM

Work Order: 1207153
Lab ID: 1207153-02
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
METALS			SW6020		Prep Date: 7/11/2012	Analyst: ALR
Arsenic	9.81		0.443	mg/Kg	1	7/12/2012 04:44 AM

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

ALS Environmental

Date: 23-Jul-12

Client: LT Environmental
Project: Werner Pad - 027311040
Sample ID: BG03
Collection Date: 6/29/2012 02:10 PM

Work Order: 1207153
Lab ID: 1207153-03
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
METALS			SW6020		Prep Date: 7/11/2012	Analyst: ALR
Arsenic	5.61		0.471	mg/Kg	1	7/12/2012 04:57 AM

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

ALS Environmental

Date: 23-Jul-12

Client: LT Environmental
Project: Werner Pad - 027311040
Sample ID: BG04
Collection Date: 6/29/2012 02:20 PM

Work Order: 1207153
Lab ID: 1207153-04
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
METALS			SW6020		Prep Date: 7/11/2012	Analyst: ALR
Arsenic	3.97		0.449	mg/Kg	1	7/12/2012 05:02 AM

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

ALS Environmental

Date: 23-Jul-12

Client: LT Environmental
Work Order: 1207153
Project: Werner Pad - 027311040

QC BATCH REPORT

Batch ID: **62538** Instrument ID **ICPMS03** Method: **SW6020**

MBLK	Sample ID: MBLKS1-071112-62538				Units: mg/Kg		Analysis Date: 7/11/2012 06:02 PM			
Client ID:	Run ID: ICPMS03_120711A				SeqNo: 2855038		Prep Date: 7/11/2012		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	ND	0.50								

LCS	Sample ID: MLCSS1-071112-62538				Units: mg/Kg		Analysis Date: 7/11/2012 06:06 PM			
Client ID:	Run ID: ICPMS03_120711A				SeqNo: 2855039		Prep Date: 7/11/2012		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	9.2	0.50	10	0	92	80-120	0			

MS	Sample ID: 1207212-05BMS				Units: mg/Kg		Analysis Date: 7/12/2012 07:56 AM			
Client ID:	Run ID: ICPMS03_120711A				SeqNo: 2855835		Prep Date: 7/11/2012		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	13.75	0.45	9.078	5.551	90.3	75-125	0			

MSD	Sample ID: 1207212-05BMSD				Units: mg/Kg		Analysis Date: 7/12/2012 08:00 AM			
Client ID:	Run ID: ICPMS03_120711A				SeqNo: 2855837		Prep Date: 7/11/2012		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	14.02	0.45	8.949	5.551	94.7	75-125	13.75	1.95	25	

DUP	Sample ID: 1207212-05BDUP				Units: mg/Kg		Analysis Date: 7/12/2012 07:47 AM			
Client ID:	Run ID: ICPMS03_120711A				SeqNo: 2855831		Prep Date: 7/11/2012		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	5.481	0.46	0	0	0	0-0	5.551	1.28	25	

The following samples were analyzed in this batch:

1207153-01A	1207153-02A	1207153-03A
1207153-04A		

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

Client: LT Environmental
Project: Werner Pad - 027311040
WorkOrder: 1207153

QUALIFIERS, ACRONYMS, UNITS

<u>Qualifier</u>	<u>Description</u>
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte detected below quantitation limit
M	Manually integrated, see raw data for justification
n	Not offered for accreditation
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

<u>Acronym</u>	<u>Description</u>
DCS	Detectability Check Study
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitation Limit
SD	Serial Dilution
SDL	Sample Detection Limit
TRRP	Texas Risk Reduction Program

<u>Units Reported</u>	<u>Description</u>
mg/Kg	Milligrams per Kilogram

Sample Receipt Checklist

Client Name: **LT ENVIRONMENTAL**

Date/Time Received: **05-Jul-12 09:00**

Work Order: **1207153**

Received by: **RNG**

Checklist completed by Robert D. Harris
eSignature

05-Jul-12
Date

Reviewed by: Patricia L. Lynch
eSignature

10-Jul-12
Date

Matrices: soils

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 checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input 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 type="checkbox"/>	No <input checked="" type="checkbox"/>	
Temperature(s)/Thermometer(s):	<u>12.9c c/u</u> <u>003</u>		
Cooler(s)/Kit(s):	<u></u>		
Date/Time sample(s) sent to storage:	<u>7/5/12 18:50</u>		
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:	<u>-</u>		
Login Notes:	<u>Received out of temp.</u>		

Client Contacted:

Date Contacted:

Person Contacted:

Contacted By:

Regarding:

Comments:

CorrectiveAction:



CHAIN OF CUSTODY

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

1207153

LT ENVIRONMENTAL: LT Environmental

Project: Werner Pad - 027311040

[illegible]

Note: a) PW (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

12/15/12

Express **NEW Package**
US Airbill

FedEx
Tracking
Number

8001 2142 2796

01200

Recipient's Copy

01200
7/12/12

Sender's Name: Sarah Gibson Phone: 409-330-5656

Company: Lab Hub LLC

Address: 1400 S. 15th Street

City: Houston State: TX ZIP: 77055

Internal Billing Reference

Recipient's Name: MS Gibson Phone: 281-330-5656

Company: AIS - Houston

Address: 1400 S. 15th Street

City: Houston State: TX ZIP: 77055



8001 2142 2796

4 Express Package Service *To most locations.
NOTE: Service order has changed. Please select carefully.

Next Business Day	2 or 3 Business Days
<input type="checkbox"/> FedEx First Overnight Earliest next business morning delivery to select locations. Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.	<input type="checkbox"/> NEW FedEx 2Day A.M. Second business morning.* Saturday Delivery NOT available.
<input type="checkbox"/> FedEx Priority Overnight Next business morning.* Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.	<input type="checkbox"/> FedEx 2Day Second business afternoon.* Thursday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
<input type="checkbox"/> FedEx Standard Overnight Next business afternoon.* Saturday Delivery NOT available.	<input type="checkbox"/> FedEx Express Saver Third business day.* Saturday Delivery NOT available.

5 Packaging *Declared value limit \$500.

<input type="checkbox"/> FedEx Envelope*	<input type="checkbox"/> FedEx Pak*	<input type="checkbox"/> FedEx Box	<input type="checkbox"/> FedEx Tube	<input checked="" type="checkbox"/> Other
--	-------------------------------------	------------------------------------	-------------------------------------	---

6 Special Handling and Delivery Signature Options

☐ **SATURDAY Delivery**
NOT available for FedEx Standard Overnight, FedEx 2Day A.M., or FedEx Express Saver.

☐ **No Signature Required**
Package may be left without obtaining a signature for delivery.

☐ **Direct Signature**
Someone at recipient's address may sign for delivery. *Fee applies.*

☐ **Indirect Signature**
If someone is available at recipient's address, someone at a neighboring address may sign for delivery. For residential deliveries only. *Fee applies.*

Does this shipment contain dangerous goods?

One box must be checked.

<input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes As per attached Shipper's Declaration.	<input type="checkbox"/> Yes Shipper's Declaration not required.	<input type="checkbox"/> Dry Ice Dry Ice, 9, UN 1845 _____ x7 _____ kg
---	---	--	--

Dangerous goods (including dry ice) cannot be shipped in FedEx packaging or placed in a FedEx Express Drop Box.

☐ **Cargo Aircraft Only**

7 Payment: Bill to:

Enter FedEx Acct. No. or Credit Card No. below.

<input type="checkbox"/> Sender Acct. No. in Section 1 will be billed.	<input checked="" type="checkbox"/> Recipient	<input type="checkbox"/> Third Party	<input type="checkbox"/> Credit Card	<input type="checkbox"/> Cash/Check
--	--	---	---	--

Total Packages: _____ Total Weight: _____ Total Declared Value: _____ Credit Card Auth: _____

*Our liability is limited to \$100 unless you declare a higher value. See the current FedEx Services Guide for details.

Rev. Date 11/10 • Part #163135 • ©1994-2010 FedEx • PRINTED IN U.S.A. 5RY

Lab Hub LLC CUS
Date: 07-02
Signature: [Signature]

TODY SEAL
- 2012
[Signature]

1800.607-fedex 1800.463.3339



11-Jul-2014

Jake Janicek
LT Environmental, Inc
820 Megan Ave. Unit B
Rifle, CO 81650

Re: **Kaufman #1 7.2.14**

Work Order: **1407266**

Dear Jake,

ALS Environmental received 7 samples on 03-Jul-2014 10:30 PM for the analyses presented in the following report.

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

Sample results are compliant with NELAP standard requirements and QC 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 33.

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

Sincerely,

A handwritten signature in cursive script that reads "Ann Preston".

Electronically approved by: Ann Preston

Ann Preston
Project Manager



Certificate No: MN 532786

Report of Laboratory Analysis

ADDRESS 3352 128th Avenue Holland, Michigan 49424-9263 | PHONE (616) 399-6070 | FAX (616) 399-6185

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

Environmental The ALS logo, a stylized blue triangle with a yellow flame inside.

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER

Client: LT Environmental, Inc
Project: Kaufman #1 7.2.14
Work Order: 1407266

Work Order Sample Summary

<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>
1407266-01	BG01	Soil		7/2/2014 09:25	7/3/2014 22:30	<input type="checkbox"/>
1407266-02	BG02	Soil		7/2/2014 09:30	7/3/2014 22:30	<input type="checkbox"/>
1407266-03	BG03	Soil		7/2/2014 09:40	7/3/2014 22:30	<input type="checkbox"/>
1407266-04	BG04	Soil		7/2/2014 09:50	7/3/2014 22:30	<input type="checkbox"/>
1407266-05	PB01	Soil		7/2/2014 09:10	7/3/2014 22:30	<input type="checkbox"/>
1407266-06	PB02	Soil		7/2/2014 09:15	7/3/2014 22:30	<input type="checkbox"/>
1407266-07	PB03	Soil		7/2/2014 09:20	7/3/2014 22:30	<input type="checkbox"/>

Client: LT Environmental, Inc**Project:** Kaufman #1 7.2.14**Work Order:** 1407266**Case Narrative**

Batch 60337 MS/MSD data for BTEX is not related to this project's samples. No data requires qualification.

Batch 60341 sample BG01 MS recovery for Barium was above control limits, however the amount of Barium in the parent sample was greater than 4x the spiked amount. No data requires qualification.

Batch R144000 duplicate data for % Moisture is not related to this project's samples. No data requires qualification.

<u>Qualifier</u>	<u>Description</u>
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte is present at an estimated concentration between the MDL and Report Limit
n	Not offered for accreditation
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

<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
µg/Kg-dry	Micrograms per Kilogram Dry Weight
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, Corp

Date: 11-Jul-14

Client: LT Environmental, Inc
Project: Kaufman #1 7.2.14
Sample ID: BG01
Collection Date: 7/2/2014 09:25 AM

Work Order: 1407266
Lab ID: 1407266-01
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
METALS BY ICP-MS						
Arsenic	2.3		SW6020A 1.9	mg/Kg-dry	Prep: SW3050B / 7/7/14 5	Analyst: ML 7/8/2014 07:19 AM
SOLUBLE CATIONS FOR SAR						
Calcium	33		SW6020A 10	mg/L	Prep: USDA Method 20B / 7/9/14 20	Analyst: ML 7/9/2014 05:10 PM
Magnesium	10		4.0	mg/L	20	7/9/2014 05:10 PM
Sodium	7.4		4.0	mg/L	20	7/9/2014 05:10 PM
SODIUM ADSORPTION RATIO						
Sodium Adsorption Ratio	0.29		USDA H60 METHOD 0.010	none	Prep: USDA Method 20B / 7/9/14 1	Analyst: ML 7/9/2014
ELECTRICAL CONDUCTIVITY (SAR)						
Electrical Conductivity @ Saturation	0.33		USDA H60 METHOD 0.050	mmhos/cm @25	Prep: USDA Method 20B / 7/9/14 10	Analyst: JB 7/10/2014 10:15 AM
MOISTURE						
Moisture	2.5		A2540 G 0.050	% of sample	1	Analyst: TM 7/7/2014 03:40 PM
PH						
pH	7.1		SW9045D	s.u.	Prep: EXTRACT / 7/8/14 1	Analyst: AT 7/8/2014 05:00 PM

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

ALS Group USA, Corp

Date: 11-Jul-14

Client: LT Environmental, Inc
Project: Kaufman #1 7.2.14
Sample ID: BG02
Collection Date: 7/2/2014 09:30 AM

Work Order: 1407266
Lab ID: 1407266-02
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
METALS BY ICP-MS			SW6020A		Prep: SW3050B / 7/7/14	Analyst: ML
Arsenic	2.8		1.6	mg/Kg-dry	5	7/8/2014 07:45 AM
SOLUBLE CATIONS FOR SAR			SW6020A		Prep: USDA Method 20B / 7/9/14	Analyst: ML
Calcium	70		10	mg/L	20	7/9/2014 05:16 PM
Magnesium	ND		4.0	mg/L	20	7/9/2014 05:16 PM
Sodium	ND		4.0	mg/L	20	7/9/2014 05:16 PM
SODIUM ADSORPTION RATIO			USDA H60 METHOD		Prep: USDA Method 20B / 7/9/14	Analyst: ML
Sodium Adsorption Ratio	0.062		0.010	none	1	7/9/2014
ELECTRICAL CONDUCTIVITY (SAR)			USDA H60 METHOD		Prep: USDA Method 20B / 7/9/14	Analyst: JB
Electrical Conductivity @ Saturation	0.47		0.050	mmhos/cm @25	10	7/10/2014 10:15 AM
MOISTURE			A2540 G			Analyst: TM
Moisture	0.31		0.050	% of sample	1	7/7/2014 03:40 PM
PH			SW9045D		Prep: EXTRACT / 7/8/14	Analyst: AT
pH	7.7			s.u.	1	7/8/2014 05:01 PM

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

ALS Group USA, Corp

Date: 11-Jul-14

Client: LT Environmental, Inc
Project: Kaufman #1 7.2.14
Sample ID: BG03
Collection Date: 7/2/2014 09:40 AM

Work Order: 1407266
Lab ID: 1407266-03
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
METALS BY ICP-MS			SW6020A		Prep: SW3050B / 7/7/14	Analyst: ML
Arsenic	3.1		2.1	mg/Kg-dry	5	7/8/2014 07:51 AM
SOLUBLE CATIONS FOR SAR			SW6020A		Prep: USDA Method 20B / 7/9/14	Analyst: ML
Calcium	93		10	mg/L	20	7/9/2014 05:23 PM
Magnesium	14		4.0	mg/L	20	7/9/2014 05:23 PM
Sodium	ND		4.0	mg/L	20	7/9/2014 05:23 PM
SODIUM ADSORPTION RATIO			USDA H60 METHOD		Prep: USDA Method 20B / 7/9/14	Analyst: ML
Sodium Adsorption Ratio	0.079		0.010	none	1	7/9/2014
ELECTRICAL CONDUCTIVITY (SAR)			USDA H60 METHOD		Prep: USDA Method 20B / 7/9/14	Analyst: JB
Electrical Conductivity @ Saturation	0.64		0.050	mmhos/cm @25	10	7/10/2014 10:15 AM
MOISTURE			A2540 G			Analyst: TM
Moisture	4.0		0.050	% of sample	1	7/7/2014 03:40 PM
PH			SW9045D		Prep: EXTRACT / 7/8/14	Analyst: AT
pH	7.3			s.u.	1	7/8/2014 05:01 PM

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

ALS Group USA, Corp

Date: 11-Jul-14

Client: LT Environmental, Inc
Project: Kaufman #1 7.2.14
Sample ID: BG04
Collection Date: 7/2/2014 09:50 AM

Work Order: 1407266
Lab ID: 1407266-04
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
METALS BY ICP-MS						
Arsenic	2.6		SW6020A 2.0	mg/Kg-dry	Prep: SW3050B / 7/7/14 5	Analyst: ML 7/8/2014 07:57 AM
SOLUBLE CATIONS FOR SAR						
Calcium	140		SW6020A 10	mg/L	Prep: USDA Method 20B / 7/9/14 20	Analyst: ML 7/9/2014 05:29 PM
Magnesium	30		4.0	mg/L	20	7/9/2014 05:29 PM
Sodium	4.2		4.0	mg/L	20	7/9/2014 05:29 PM
SODIUM ADSORPTION RATIO						
Sodium Adsorption Ratio	0.084		USDA H60 METHOD 0.010	none	Prep: USDA Method 20B / 7/9/14 1	Analyst: ML 7/9/2014
ELECTRICAL CONDUCTIVITY (SAR)						
Electrical Conductivity @ Saturation	1.1		USDA H60 METHOD 0.050	mmhos/cm @25	Prep: USDA Method 20B / 7/9/14 10	Analyst: JB 7/10/2014 10:15 AM
MOISTURE						
Moisture	3.1		A2540 G 0.050	% of sample	1	Analyst: TM 7/7/2014 03:40 PM
PH						
pH	7.3		SW9045D	s.u.	Prep: EXTRACT / 7/8/14 1	Analyst: AT 7/8/2014 05:01 PM

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

ALS Group USA, Corp

Date: 11-Jul-14

Client: LT Environmental, Inc

Project: Kaufman #1 7.2.14

Sample ID: PB01

Collection Date: 7/2/2014 09:10 AM

Work Order: 1407266

Lab ID: 1407266-05

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID						
DRO (C10-C28)	64		SW8015M		Prep: SW3541 / 7/9/14	Analyst: IT
			4.5	mg/Kg-dry	1	7/9/2014 07:35 PM
Surr: 4-Terphenyl-d14	73.4		39-133	%REC	1	7/9/2014 07:35 PM
GASOLINE RANGE ORGANICS BY GC-FID						
GRO (C6-C10)	ND		SW8015		Prep: SW5035 / 7/7/14	Analyst: IT
			2,800	µg/Kg-dry	1	7/9/2014 07:20 AM
Surr: Toluene-d8	107		50-150	%REC	1	7/9/2014 07:20 AM
MERCURY BY CVAA						
Mercury	0.10		SW7471		Prep: SW7471 / 7/9/14	Analyst: LR
			0.017	mg/Kg-dry	1	7/9/2014 06:34 PM
METALS BY ICP-MS						
Arsenic	6.4		SW6020A		Prep: SW3050B / 7/7/14	Analyst: ML
			2.1	mg/Kg-dry	5	7/8/2014 08:04 AM
Barium	3,100		21	mg/Kg-dry	50	7/8/2014 07:29 PM
Cadmium	ND		0.83	mg/Kg-dry	5	7/8/2014 08:04 AM
Chromium	12		2.1	mg/Kg-dry	5	7/8/2014 08:04 AM
Copper	13		2.1	mg/Kg-dry	5	7/8/2014 08:04 AM
Lead	12		2.1	mg/Kg-dry	5	7/8/2014 08:04 AM
Nickel	11		2.1	mg/Kg-dry	5	7/8/2014 08:04 AM
Selenium	ND		2.1	mg/Kg-dry	5	7/8/2014 08:04 AM
Silver	ND		2.1	mg/Kg-dry	5	7/8/2014 08:04 AM
Zinc	43		4.1	mg/Kg-dry	5	7/8/2014 08:04 AM
SOLUBLE CATIONS FOR SAR						
			SW6020A		Prep: USDA Method 20B / 7/9/14	Analyst: ML
Calcium	160		10	mg/L	20	7/9/2014 05:35 PM
Magnesium	38		4.0	mg/L	20	7/9/2014 05:35 PM
Sodium	170		4.0	mg/L	20	7/9/2014 05:35 PM
SODIUM ADSORPTION RATIO						
			USDA H60 METHOD		Prep: USDA Method 20B / 7/9/14	Analyst: ML
Sodium Adsorption Ratio	3.1		0.010	none	1	7/9/2014
SEMI-VOLATILE ORGANIC COMPOUNDS						
			SW8270		Prep: SW3541 / 7/9/14	Analyst: RM
Acenaphthene	ND		7.2	µg/Kg-dry	1	7/10/2014 05:34 AM
Anthracene	ND		7.2	µg/Kg-dry	1	7/10/2014 05:34 AM
Benzo(a)anthracene	18		7.2	µg/Kg-dry	1	7/10/2014 05:34 AM
Benzo(a)pyrene	ND		7.2	µg/Kg-dry	1	7/10/2014 05:34 AM
Benzo(b)fluoranthene	ND		7.2	µg/Kg-dry	1	7/10/2014 05:34 AM
Benzo(k)fluoranthene	ND		7.2	µg/Kg-dry	1	7/10/2014 05:34 AM
Chrysene	8.0		7.2	µg/Kg-dry	1	7/10/2014 05:34 AM
Dibenzo(a,h)anthracene	ND		7.2	µg/Kg-dry	1	7/10/2014 05:34 AM
Fluoranthene	ND		7.2	µg/Kg-dry	1	7/10/2014 05:34 AM

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

ALS Group USA, Corp

Date: 11-Jul-14

Client: LT Environmental, Inc

Project: Kaufman #1 7.2.14

Sample ID: PB01

Collection Date: 7/2/2014 09:10 AM

Work Order: 1407266

Lab ID: 1407266-05

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Fluorene	12		7.2	µg/Kg-dry	1	7/10/2014 05:34 AM
Indeno(1,2,3-cd)pyrene	ND		7.2	µg/Kg-dry	1	7/10/2014 05:34 AM
Naphthalene	45		7.2	µg/Kg-dry	1	7/10/2014 05:34 AM
Pyrene	8.0		7.2	µg/Kg-dry	1	7/10/2014 05:34 AM
Surr: 2-Fluorobiphenyl	75.3		12-100	%REC	1	7/10/2014 05:34 AM
Surr: 4-Terphenyl-d14	89.1		25-137	%REC	1	7/10/2014 05:34 AM
Surr: Nitrobenzene-d5	59.1		37-107	%REC	1	7/10/2014 05:34 AM
VOLATILE ORGANIC COMPOUNDS			SW8260B	Prep: SW5035 / 7/7/14		Analyst: BG
Benzene	ND		33	µg/Kg-dry	1	7/9/2014 05:28 AM
Ethylbenzene	ND		33	µg/Kg-dry	1	7/9/2014 05:28 AM
m,p-Xylene	ND		67	µg/Kg-dry	1	7/9/2014 05:28 AM
o-Xylene	ND		33	µg/Kg-dry	1	7/9/2014 05:28 AM
Toluene	ND		33	µg/Kg-dry	1	7/9/2014 05:28 AM
Xylenes, Total	ND		100	µg/Kg-dry	1	7/9/2014 05:28 AM
Surr: 1,2-Dichloroethane-d4	102		70-130	%REC	1	7/9/2014 05:28 AM
Surr: 4-Bromofluorobenzene	95.5		70-130	%REC	1	7/9/2014 05:28 AM
Surr: Dibromofluoromethane	99.4		70-130	%REC	1	7/9/2014 05:28 AM
Surr: Toluene-d8	100		70-130	%REC	1	7/9/2014 05:28 AM
ELECTRICAL CONDUCTIVITY (SAR)			USDA H60 METHOD	Prep: USDA Method 20B / 7/9/14		Analyst: JB
Electrical Conductivity @ Saturation	3.0		0.050	mmhos/cm @25	10	7/10/2014 10:15 AM
CHROMIUM, TRIVALENT			CALCULATION			Analyst: JJG
Chromium, Trivalent	12		0.55	mg/Kg-dry	1	7/9/2014 10:25 AM
CHROMIUM, HEXAVALENT			SW7196A	Prep: SW3060A / 7/7/14		Analyst: JJ
Chromium, Hexavalent	ND		0.54	mg/Kg-dry	1	7/8/2014 03:00 PM
MOISTURE			A2540 G			Analyst: TM
Moisture	9.8		0.050	% of sample	1	7/7/2014 02:22 PM
PH			SW9045D	Prep: EXTRACT / 7/8/14		Analyst: AT
pH	8.3			s.u.	1	7/8/2014 05:00 PM

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

ALS Group USA, Corp

Date: 11-Jul-14

Client: LT Environmental, Inc

Project: Kaufman #1 7.2.14

Sample ID: PB02

Collection Date: 7/2/2014 09:15 AM

Work Order: 1407266

Lab ID: 1407266-06

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID						
DRO (C10-C28)	74		SW8015M		Prep: SW3541 / 7/9/14	Analyst: IT
			4.5	mg/Kg-dry	1	7/9/2014 08:05 PM
Surr: 4-Terphenyl-d14	90.5		39-133	%REC	1	7/9/2014 08:05 PM
GASOLINE RANGE ORGANICS BY GC-FID						
GRO (C6-C10)	ND		SW8015		Prep: SW5035 / 7/7/14	Analyst: IT
			2,800	µg/Kg-dry	1	7/9/2014 07:46 AM
Surr: Toluene-d8	103		50-150	%REC	1	7/9/2014 07:46 AM
MERCURY BY CVAA						
Mercury	0.24		SW7471		Prep: SW7471 / 7/9/14	Analyst: LR
			0.018	mg/Kg-dry	1	7/9/2014 06:37 PM
METALS BY ICP-MS						
Arsenic	12		SW6020A		Prep: SW3050B / 7/7/14	Analyst: ML
			2.1	mg/Kg-dry	5	7/8/2014 08:10 AM
Barium	860		21	mg/Kg-dry	50	7/8/2014 07:35 PM
Cadmium	ND		0.84	mg/Kg-dry	5	7/8/2014 08:10 AM
Chromium	7.7		2.1	mg/Kg-dry	5	7/8/2014 08:10 AM
Copper	9.1		2.1	mg/Kg-dry	5	7/8/2014 08:10 AM
Lead	11		2.1	mg/Kg-dry	5	7/8/2014 08:10 AM
Nickel	9.0		2.1	mg/Kg-dry	5	7/8/2014 08:10 AM
Selenium	ND		2.1	mg/Kg-dry	5	7/8/2014 08:10 AM
Silver	ND		2.1	mg/Kg-dry	5	7/8/2014 08:10 AM
Zinc	32		4.2	mg/Kg-dry	5	7/8/2014 08:10 AM
SOLUBLE CATIONS FOR SAR						
			SW6020A		Prep: USDA Method 20B / 7/9/14	Analyst: ML
Calcium	420		10	mg/L	20	7/9/2014 05:42 PM
Magnesium	140		4.0	mg/L	20	7/9/2014 05:42 PM
Sodium	360		4.0	mg/L	20	7/9/2014 05:42 PM
SODIUM ADSORPTION RATIO						
			USDA H60 METHOD		Prep: USDA Method 20B / 7/9/14	Analyst: ML
Sodium Adsorption Ratio	3.9		0.010	none	1	7/9/2014
SEMI-VOLATILE ORGANIC COMPOUNDS						
			SW8270		Prep: SW3541 / 7/9/14	Analyst: RM
Acenaphthene	ND		7.1	µg/Kg-dry	1	7/10/2014 05:55 AM
Anthracene	ND		7.1	µg/Kg-dry	1	7/10/2014 05:55 AM
Benzo(a)anthracene	18		7.1	µg/Kg-dry	1	7/10/2014 05:55 AM
Benzo(a)pyrene	ND		7.1	µg/Kg-dry	1	7/10/2014 05:55 AM
Benzo(b)fluoranthene	ND		7.1	µg/Kg-dry	1	7/10/2014 05:55 AM
Benzo(k)fluoranthene	ND		7.1	µg/Kg-dry	1	7/10/2014 05:55 AM
Chrysene	ND		7.1	µg/Kg-dry	1	7/10/2014 05:55 AM
Dibenzo(a,h)anthracene	ND		7.1	µg/Kg-dry	1	7/10/2014 05:55 AM
Fluoranthene	ND		7.1	µg/Kg-dry	1	7/10/2014 05:55 AM

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

ALS Group USA, Corp

Date: 11-Jul-14

Client: LT Environmental, Inc

Project: Kaufman #1 7.2.14

Sample ID: PB02

Collection Date: 7/2/2014 09:15 AM

Work Order: 1407266

Lab ID: 1407266-06

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Fluorene	ND		7.1	µg/Kg-dry	1	7/10/2014 05:55 AM
Indeno(1,2,3-cd)pyrene	ND		7.1	µg/Kg-dry	1	7/10/2014 05:55 AM
Naphthalene	38		7.1	µg/Kg-dry	1	7/10/2014 05:55 AM
Pyrene	8.2		7.1	µg/Kg-dry	1	7/10/2014 05:55 AM
Surr: 2-Fluorobiphenyl	81.2		12-100	%REC	1	7/10/2014 05:55 AM
Surr: 4-Terphenyl-d14	104		25-137	%REC	1	7/10/2014 05:55 AM
Surr: Nitrobenzene-d5	65.5		37-107	%REC	1	7/10/2014 05:55 AM
VOLATILE ORGANIC COMPOUNDS			SW8260B	Prep: SW5035 / 7/7/14	Analyst: AK	
Benzene	ND		33	µg/Kg-dry	1	7/9/2014 09:50 AM
Ethylbenzene	ND		33	µg/Kg-dry	1	7/9/2014 09:50 AM
m,p-Xylene	ND		66	µg/Kg-dry	1	7/9/2014 09:50 AM
o-Xylene	ND		33	µg/Kg-dry	1	7/9/2014 09:50 AM
Toluene	ND		33	µg/Kg-dry	1	7/9/2014 09:50 AM
Xylenes, Total	ND		99	µg/Kg-dry	1	7/9/2014 09:50 AM
Surr: 1,2-Dichloroethane-d4	96.2		70-130	%REC	1	7/9/2014 09:50 AM
Surr: 4-Bromofluorobenzene	99.5		70-130	%REC	1	7/9/2014 09:50 AM
Surr: Dibromofluoromethane	96.0		70-130	%REC	1	7/9/2014 09:50 AM
Surr: Toluene-d8	97.6		70-130	%REC	1	7/9/2014 09:50 AM
ELECTRICAL CONDUCTIVITY (SAR)			USDA H60 METHOD	Prep: USDA Method 20B / 7/9/14	Analyst: JB	
Electrical Conductivity @ Saturation	6.2		0.050	mmhos/cm @25	10	7/10/2014 10:15 AM
CHROMIUM, TRIVALENT			CALCULATION	Analyst: JJG		
Chromium, Trivalent	7.3		0.55	mg/Kg-dry	1	7/9/2014 10:25 AM
CHROMIUM, HEXAVALENT			SW7196A	Prep: SW3060A / 7/7/14	Analyst: JJ	
Chromium, Hexavalent	ND		0.54	mg/Kg-dry	1	7/8/2014 03:00 PM
MOISTURE			A2540 G	Analyst: TM		
Moisture	9.2		0.050	% of sample	1	7/7/2014 02:22 PM
PH			SW9045D	Prep: EXTRACT / 7/8/14	Analyst: AT	
pH	8.0			s.u.	1	7/8/2014 05:00 PM

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

ALS Group USA, Corp

Date: 11-Jul-14

Client: LT Environmental, Inc

Project: Kaufman #1 7.2.14

Sample ID: PB03

Collection Date: 7/2/2014 09:20 AM

Work Order: 1407266

Lab ID: 1407266-07

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID						
DRO (C10-C28)	84		SW8015M		Prep: SW3541 / 7/9/14	Analyst: IT
			4.6	mg/Kg-dry	1	7/9/2014 08:35 PM
Surr: 4-Terphenyl-d14	84.9		39-133	%REC	1	7/9/2014 08:35 PM
GASOLINE RANGE ORGANICS BY GC-FID						
GRO (C6-C10)	ND		SW8015		Prep: SW5035 / 7/7/14	Analyst: IT
			2,700	µg/Kg-dry	1	7/9/2014 08:11 AM
Surr: Toluene-d8	107		50-150	%REC	1	7/9/2014 08:11 AM
MERCURY BY CVAA						
Mercury	0.075		SW7471		Prep: SW7471 / 7/9/14	Analyst: LR
			0.016	mg/Kg-dry	1	7/9/2014 06:39 PM
METALS BY ICP-MS						
Arsenic	7.5		SW6020A		Prep: SW3050B / 7/7/14	Analyst: ML
			2.0	mg/Kg-dry	5	7/8/2014 08:35 AM
Barium	2,200		20	mg/Kg-dry	50	7/8/2014 07:42 PM
Cadmium	ND		0.80	mg/Kg-dry	5	7/8/2014 08:35 AM
Chromium	8.8		2.0	mg/Kg-dry	5	7/8/2014 08:35 AM
Copper	11		2.0	mg/Kg-dry	5	7/8/2014 08:35 AM
Lead	11		2.0	mg/Kg-dry	5	7/8/2014 08:35 AM
Nickel	9.5		2.0	mg/Kg-dry	5	7/8/2014 08:35 AM
Selenium	ND		2.0	mg/Kg-dry	5	7/8/2014 08:35 AM
Silver	ND		2.0	mg/Kg-dry	5	7/8/2014 08:35 AM
Zinc	36		4.0	mg/Kg-dry	5	7/8/2014 08:35 AM
SOLUBLE CATIONS FOR SAR						
			SW6020A		Prep: USDA Method 20B / 7/9/14	Analyst: ML
Calcium	30		10	mg/L	20	7/9/2014 05:48 PM
Magnesium	9.5		4.0	mg/L	20	7/9/2014 05:48 PM
Sodium	250		4.0	mg/L	20	7/9/2014 05:48 PM
SODIUM ADSORPTION RATIO						
			USDA H60 METHOD		Prep: USDA Method 20B / 7/9/14	Analyst: ML
Sodium Adsorption Ratio	10		0.010	none	1	7/9/2014
SEMI-VOLATILE ORGANIC COMPOUNDS						
			SW8270		Prep: SW3541 / 7/9/14	Analyst: RM
Acenaphthene	ND		7.3	µg/Kg-dry	1	7/10/2014 06:15 AM
Anthracene	ND		7.3	µg/Kg-dry	1	7/10/2014 06:15 AM
Benzo(a)anthracene	17		7.3	µg/Kg-dry	1	7/10/2014 06:15 AM
Benzo(a)pyrene	ND		7.3	µg/Kg-dry	1	7/10/2014 06:15 AM
Benzo(b)fluoranthene	30		7.3	µg/Kg-dry	1	7/10/2014 06:15 AM
Benzo(k)fluoranthene	ND		7.3	µg/Kg-dry	1	7/10/2014 06:15 AM
Chrysene	ND		7.3	µg/Kg-dry	1	7/10/2014 06:15 AM
Dibenzo(a,h)anthracene	ND		7.3	µg/Kg-dry	1	7/10/2014 06:15 AM
Fluoranthene	ND		7.3	µg/Kg-dry	1	7/10/2014 06:15 AM

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

ALS Group USA, Corp

Date: 11-Jul-14

Client: LT Environmental, Inc
Project: Kaufman #1 7.2.14
Sample ID: PB03
Collection Date: 7/2/2014 09:20 AM

Work Order: 1407266
Lab ID: 1407266-07
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Fluorene	11		7.3	µg/Kg-dry	1	7/10/2014 06:15 AM
Indeno(1,2,3-cd)pyrene	ND		7.3	µg/Kg-dry	1	7/10/2014 06:15 AM
Naphthalene	38		7.3	µg/Kg-dry	1	7/10/2014 06:15 AM
Pyrene	8.4		7.3	µg/Kg-dry	1	7/10/2014 06:15 AM
Surr: 2-Fluorobiphenyl	68.4		12-100	%REC	1	7/10/2014 06:15 AM
Surr: 4-Terphenyl-d14	107		25-137	%REC	1	7/10/2014 06:15 AM
Surr: Nitrobenzene-d5	52.3		37-107	%REC	1	7/10/2014 06:15 AM
VOLATILE ORGANIC COMPOUNDS			SW8260B	Prep: SW5035 / 7/7/14		Analyst: AK
Benzene	ND		33	µg/Kg-dry	1	7/9/2014 09:25 AM
Ethylbenzene	ND		33	µg/Kg-dry	1	7/9/2014 09:25 AM
m,p-Xylene	100		66	µg/Kg-dry	1	7/9/2014 09:25 AM
o-Xylene	ND		33	µg/Kg-dry	1	7/9/2014 09:25 AM
Toluene	59		33	µg/Kg-dry	1	7/9/2014 09:25 AM
Xylenes, Total	120		99	µg/Kg-dry	1	7/9/2014 09:25 AM
Surr: 1,2-Dichloroethane-d4	97.7		70-130	%REC	1	7/9/2014 09:25 AM
Surr: 4-Bromofluorobenzene	100		70-130	%REC	1	7/9/2014 09:25 AM
Surr: Dibromofluoromethane	96.2		70-130	%REC	1	7/9/2014 09:25 AM
Surr: Toluene-d8	97.2		70-130	%REC	1	7/9/2014 09:25 AM
ELECTRICAL CONDUCTIVITY (SAR)			USDA H60 METHOD	Prep: USDA Method 20B / 7/9/14		Analyst: JB
Electrical Conductivity @ Saturation	1.8		0.050	mmhos/cm @25	10	7/10/2014 10:15 AM
CHROMIUM, TRIVALENT			CALCULATION			Analyst: JJG
Chromium, Trivalent	8.8		0.55	mg/Kg-dry	1	7/9/2014 10:25 AM
CHROMIUM, HEXAVALENT			SW7196A	Prep: SW3060A / 7/7/14		Analyst: JJ
Chromium, Hexavalent	ND		0.55	mg/Kg-dry	1	7/8/2014 03:00 PM
MOISTURE			A2540 G			Analyst: TM
Moisture	8.6		0.050	% of sample	1	7/7/2014 02:22 PM
PH			SW9045D	Prep: EXTRACT / 7/8/14		Analyst: AT
pH	8.9			s.u.	1	7/8/2014 05:00 PM

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

Client: LT Environmental, Inc

QC BATCH REPORT

Work Order: 1407266

Project: Kaufman #1 7.2.14

Batch ID: 60407

Instrument ID GC8

Method: SW8015M

MBLK		Sample ID: DBLKS1-60407-60407				Units: mg/Kg		Analysis Date: 7/9/2014 05:35 PM		
Client ID:		Run ID: GC8_140709A				SeqNo: 2842649		Prep Date: 7/9/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	ND	4.2								
Surr: 4-Terphenyl-d14	1.619	0	1.667	0	97.1	39-133	0			

LCS		Sample ID: DLCSS1-60407-60407				Units: mg/Kg		Analysis Date: 7/9/2014 06:05 PM		
Client ID:		Run ID: GC8_140709A				SeqNo: 2842650		Prep Date: 7/9/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	134.7	4.2	166.7	0	80.8	61-109	0			
Surr: 4-Terphenyl-d14	1.423	0	1.667	0	85.4	39-133	0			

MS		Sample ID: 1407266-05B MS				Units: mg/Kg		Analysis Date: 7/9/2014 06:35 PM		
Client ID: PB01		Run ID: GC8_140709A				SeqNo: 2842651		Prep Date: 7/9/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	314.3	8.1	324.7	57.57	79.1	48-110	0			
Surr: 4-Terphenyl-d14	2.773	0	3.247	0	85.4	39-133	0			

MSD		Sample ID: 1407266-05B MSD				Units: mg/Kg		Analysis Date: 7/9/2014 07:05 PM		
Client ID: PB01		Run ID: GC8_140709A				SeqNo: 2842652		Prep Date: 7/9/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	330.5	8.3	331.1	57.57	82.4	48-110	314.3	5.04	30	
Surr: 4-Terphenyl-d14	3.064	0	3.311	0	92.5	39-133	2.773	9.98	30	

The following samples were analyzed in this batch: 1407266-05B 1407266-06B 1407266-07B

Client: LT Environmental, Inc
 Work Order: 1407266
 Project: Kaufman #1 7.2.14

QC BATCH REPORT

Batch ID: 60339 Instrument ID GC9 Method: SW8015

MBLK		Sample ID: MBLK-60339-60339				Units: µg/Kg		Analysis Date: 7/7/2014 03:09 PM		
Client ID:		Run ID: GC9_140707A				SeqNo: 2839863		Prep Date: 7/7/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	ND	2,500								
Surr: Toluene-d8	5504	0	5000	0	110	50-150	0			

MBLK		Sample ID: MBLK-60339-60339				Units: µg/Kg		Analysis Date: 7/10/2014 12:28 PM		
Client ID:		Run ID: GC9_140710A				SeqNo: 2843304		Prep Date: 7/7/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	ND	2,500								
Surr: Toluene-d8	4775	0	5000	0	95.5	50-150	0			

LCS		Sample ID: LCS-60339-60339				Units: µg/Kg		Analysis Date: 7/7/2014 02:44 PM		
Client ID:		Run ID: GC9_140707A				SeqNo: 2839862		Prep Date: 7/7/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	382500	2,500	500000	0	76.5	70-130	0			
Surr: Toluene-d8	4717	0	5000	0	94.3	50-150	0			

LCS		Sample ID: LCS-60339-60339				Units: µg/Kg		Analysis Date: 7/10/2014 12:02 PM		
Client ID:		Run ID: GC9_140710A				SeqNo: 2843303		Prep Date: 7/7/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	527400	2,500	500000	0	105	70-130	0			
Surr: Toluene-d8	4541	0	5000	0	90.8	50-150	0			

MS		Sample ID: 1407242-01A MS				Units: µg/Kg		Analysis Date: 7/7/2014 04:01 PM		
Client ID:		Run ID: GC9_140707A				SeqNo: 2839865		Prep Date: 7/7/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	467500	2,500	500000	0	93.5	70-130	0			
Surr: Toluene-d8	5501	0	5000	0	110	50-150	0			

MSD		Sample ID: 1407242-01A MSD				Units: µg/Kg		Analysis Date: 7/7/2014 04:27 PM		
Client ID:		Run ID: GC9_140707A				SeqNo: 2839866		Prep Date: 7/7/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	519500	2,500	500000	0	104	70-130	467500	10.5	30	
Surr: Toluene-d8	5041	0	5000	0	101	50-150	5501	8.73	30	

The following samples were analyzed in this batch:

1407266-05A 1407266-06A 1407266-07A

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

Client: LT Environmental, Inc
Work Order: 1407266
Project: Kaufman #1 7.2.14

QC BATCH REPORT

Batch ID: **60420** Instrument ID **HG1** Method: **SW7471**

MBLK		Sample ID: MBLK-60420-60420				Units: mg/Kg		Analysis Date: 7/9/2014 05:42 PM		
Client ID:		Run ID: HG1_140709A				SeqNo: 2842180		Prep Date: 7/9/2014		DF: 1
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: LCS-60420-60420				Units: mg/Kg		Analysis Date: 7/9/2014 05:44 PM		
Client ID:		Run ID: HG1_140709A				SeqNo: 2842181		Prep Date: 7/9/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury 0.1779 0.020 0.1665 0 107 80-120 0

MS		Sample ID: 1407253-02AMS				Units: mg/Kg		Analysis Date: 7/9/2014 06:10 PM		
Client ID:		Run ID: HG1_140709A				SeqNo: 2842192		Prep Date: 7/9/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury 0.1528 0.015 0.1287 0.01222 109 75-125 0

MSD		Sample ID: 1407253-02AMSD				Units: mg/Kg		Analysis Date: 7/9/2014 06:12 PM		
Client ID:		Run ID: HG1_140709A				SeqNo: 2842193		Prep Date: 7/9/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury 0.1559 0.016 0.1304 0.01222 110 75-125 0.1528 2.05 35

The following samples were analyzed in this batch:

1407266-05B	1407266-06B	1407266-07B
-------------	-------------	-------------

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

Client: LT Environmental, Inc
 Work Order: 1407266
 Project: Kaufman #1 7.2.14

QC BATCH REPORT

Batch ID: **60341** Instrument ID **ICPMS1** Method: **SW6020A**

Sample ID: MBLK-60341-60341				Units:mg/Kg			Analysis Date: 7/8/2014 05:49 AM			
Client ID:		Run ID: ICPMS1_140707A			SeqNo:2839511		Prep Date: 7/7/2014		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	0.02788	0.25								J
Cadmium	ND	0.10								
Chromium	ND	0.25								
Copper	ND	0.25								
Lead	0.001614	0.25								J
Nickel	0.04142	0.25								J
Selenium	ND	0.25								
Silver	ND	0.25								
Zinc	0.1451	0.50								J

LCS				Sample ID: LCS-60341-60341				Units:mg/Kg			Analysis Date: 7/8/2014 05:56 AM		
Client ID:			Run ID: ICPMS1_140707A				SeqNo:2839512			Prep Date: 7/7/2014		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual			
Arsenic	4.255	0.25	5	0	85.1	80-120	0						
Barium	4.596	0.25	5	0	91.9	80-120	0						
Cadmium	4.576	0.10	5	0	91.5	80-120	0						
Chromium	4.619	0.25	5	0	92.4	80-120	0						
Copper	4.434	0.25	5	0	88.7	80-120	0						
Lead	4.526	0.25	5	0	90.5	80-120	0						
Nickel	4.496	0.25	5	0	89.9	80-120	0						
Selenium	4.631	0.25	5	0	92.6	80-120	0						
Silver	4.614	0.25	5	0	92.3	80-120	0						
Zinc	4.652	0.50	5	0	93	80-120	0						

MS				Sample ID: 1407266-01AMS			Units:mg/Kg		Analysis Date: 7/8/2014 07:25 AM		
Client ID: BG01			Run ID: ICPMS1_140707A			SeqNo:2839526		Prep Date: 7/7/2014		DF: 5	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Arsenic	8.53	1.9	7.463	2.231	84.4	75-125	0				
Barium	111.3	1.9	7.463	97.41	186	75-125	0			SO	
Cadmium	6.892	0.75	7.463	0.1666	90.1	75-125	0				
Chromium	16.89	1.9	7.463	8.178	117	75-125	0				
Copper	13.75	1.9	7.463	7.226	87.5	75-125	0				
Lead	14.66	1.9	7.463	8.27	85.6	75-125	0				
Nickel	14.27	1.9	7.463	7.407	92	75-125	0				
Selenium	7.302	1.9	7.463	1.053	83.7	75-125	0				
Silver	6.481	1.9	7.463	0.01353	86.7	75-125	0				
Zinc	37.26	3.7	7.463	28.96	111	75-125	0				

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

Client: LT Environmental, Inc
Work Order: 1407266
Project: Kaufman #1 7.2.14

QC BATCH REPORT

Batch ID: **60341** Instrument ID **ICPMS1** Method: **SW6020A**

MSD		Sample ID: 1407266-01AMSD				Units: mg/Kg		Analysis Date: 7/8/2014 07:32 AM		
Client ID: BG01		Run ID: ICPMS1_140707A				SeqNo: 2839527		Prep Date: 7/7/2014		DF: 5
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	8.684	1.9	7.541	2.231	85.6	75-125	8.53	1.79	25	
Barium	103.7	1.9	7.541	97.41	83.4	75-125	111.3	7.08	25	O
Cadmium	7.078	0.75	7.541	0.1666	91.6	75-125	6.892	2.66	25	
Chromium	16.4	1.9	7.541	8.178	109	75-125	16.89	2.94	25	
Copper	13.58	1.9	7.541	7.226	84.3	75-125	13.75	1.25	25	
Lead	14.54	1.9	7.541	8.27	83.1	75-125	14.66	0.826	25	
Nickel	13.73	1.9	7.541	7.407	83.8	75-125	14.27	3.88	25	
Selenium	7.108	1.9	7.541	1.053	80.3	75-125	7.302	2.7	25	
Silver	6.678	1.9	7.541	0.01353	88.4	75-125	6.481	2.99	25	
Zinc	36.73	3.8	7.541	28.96	103	75-125	37.26	1.43	25	

The following samples were analyzed in this batch:

1407266-01A	1407266-02A	1407266-03A
1407266-04A	1407266-05B	1407266-06B
1407266-07B		

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

Client: LT Environmental, Inc
Work Order: 1407266
Project: Kaufman #1 7.2.14

QC BATCH REPORT

Batch ID: **60348** Instrument ID **ICPMS2** Method: **SW6020A**

DUP				Sample ID: 1407242-01CDUP				Units:mg/L			Analysis Date: 7/9/2014 03:45 PM			
Client ID:				Run ID: ICPMS2_140709A				SeqNo:2842312			Prep Date: 7/9/2014		DF: 20	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual				
Calcium	12.21	10	0	0	0	0-0	12.03	1.5						
Magnesium	22.04	4.0	0	0	0	0-0	23.42	6.07						
Sodium	652.8	4.0	0	0	0	0-0	680.2	4.11						

DUP				Sample ID: 1407242-01CDUP				Units:none			Analysis Date: 7/9/2014			
Client ID:				Run ID: SAR_140709A				SeqNo:2843069			Prep Date: 7/9/2014		DF: 1	
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual			
Sodium Adsorption Ratio		25.8	0.010	0	0	0		26.32	2	50				

The following samples were analyzed in this batch:

1407266-01A	1407266-02A	1407266-03A
1407266-04A	1407266-05C	1407266-06C
1407266-07C		

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

Client: LT Environmental, Inc
 Work Order: 1407266
 Project: Kaufman #1 7.2.14

QC BATCH REPORT

Batch ID: 60406 Instrument ID SVMS6 Method: SW8270

MBLK		Sample ID: SBLKS1-60406-60406				Units: µg/Kg		Analysis Date: 7/10/2014 02:50 AM		
Client ID:		Run ID: SVMS6_140709A				SeqNo: 2843664		Prep Date: 7/9/2014		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	1268	0	1667	0	76.1	12-100	0			
Surr: 4-Terphenyl-d14	1741	0	1667	0	104	25-137	0			
Surr: Nitrobenzene-d5	1036	0	1667	0	62.2	37-107	0			

LCS		Sample ID: SLCSS1-60406-60406				Units: µg/Kg		Analysis Date: 7/10/2014 03:11 AM		
Client ID:		Run ID: SVMS6_140709A				SeqNo: 2843665		Prep Date: 7/9/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	507.7	6.7	666.7	0	76.1	45-110	0			
Anthracene	597.3	6.7	666.7	0	89.6	55-105	0			
Benzo(a)anthracene	607.7	6.7	666.7	0	91.1	50-110	0			
Benzo(a)pyrene	615.3	6.7	666.7	0	92.3	50-110	0			
Benzo(b)fluoranthene	617.7	6.7	666.7	0	92.6	45-115	0			
Benzo(k)fluoranthene	567	6.7	666.7	0	85	45-115	0			
Chrysene	580.7	6.7	666.7	0	87.1	55-110	0			
Dibenzo(a,h)anthracene	633.3	6.7	666.7	0	95	40-125	0			
Fluoranthene	597.3	6.7	666.7	0	89.6	55-115	0			
Fluorene	544.7	6.7	666.7	0	81.7	50-110	0			
Indeno(1,2,3-cd)pyrene	648	6.7	666.7	0	97.2	40-120	0			
Naphthalene	509	6.7	666.7	0	76.3	40-105	0			
Pyrene	654	6.7	666.7	0	98.1	45-125	0			
Surr: 2-Fluorobiphenyl	1377	0	1667	0	82.6	12-100	0			
Surr: 4-Terphenyl-d14	1818	0	1667	0	109	25-137	0			
Surr: Nitrobenzene-d5	1177	0	1667	0	70.6	37-107	0			

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

Client: LT Environmental, Inc
 Work Order: 1407266
 Project: Kaufman #1 7.2.14

QC BATCH REPORT

Batch ID: 60406 Instrument ID SVMS6 Method: SW8270

MS				Sample ID: 1407260-06B MS			Units: µg/Kg		Analysis Date: 7/10/2014 03:31 AM	
Client ID:		Run ID: SVMS6_140709A			SeqNo: 2843666		Prep Date: 7/9/2014		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	1022	13	1267	109.9	71.9	45-110	0			
Anthracene	1110	13	1267	30.02	85.2	55-105	0			
Benzo(a)anthracene	1057	13	1267	19.46	81.9	50-110	0			
Benzo(a)pyrene	1101	13	1267	62.68	82	50-110	0			
Benzo(b)fluoranthene	1104	13	1267	57.73	82.5	45-115	0			
Benzo(k)fluoranthene	1024	13	1267	28.7	78.5	45-115	0			
Chrysene	1011	13	1267	13.2	78.8	55-110	0			
Dibenzo(a,h)anthracene	1125	13	1267	36.29	85.9	40-125	0			
Fluoranthene	1042	13	1267	7.918	81.6	55-115	0			
Fluorene	1029	13	1267	180.5	66.9	50-110	0			
Indeno(1,2,3-cd)pyrene	1180	13	1267	78.19	86.9	40-120	0			
Naphthalene	970.2	13	1267	148.5	64.8	40-105	0			
Pyrene	1138	13	1267	34.64	87.1	45-125	0			
Surr: 2-Fluorobiphenyl	2247	0	3169	0	70.9	12-100	0			
Surr: 4-Terphenyl-d14	3189	0	3169	0	101	25-137	0			
Surr: Nitrobenzene-d5	1805	0	3169	0	57	37-107	0			

MSD				Sample ID: 1407260-06B MSD			Units: µg/Kg		Analysis Date: 7/10/2014 03:52 AM	
Client ID:		Run ID: SVMS6_140709A			SeqNo: 2843667		Prep Date: 7/9/2014		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	1107	13	1316	109.9	75.8	45-110	1022	8.07	30	
Anthracene	1191	13	1316	30.02	88.2	55-105	1110	7.02	30	
Benzo(a)anthracene	1103	13	1316	19.46	82.3	50-110	1057	4.24	30	
Benzo(a)pyrene	1159	13	1316	62.68	83.3	50-110	1101	5.08	30	
Benzo(b)fluoranthene	1152	13	1316	57.73	83.2	45-115	1104	4.28	30	
Benzo(k)fluoranthene	1075	13	1316	28.7	79.5	45-115	1024	4.87	30	
Chrysene	1064	13	1316	13.2	79.8	55-110	1011	5.07	30	
Dibenzo(a,h)anthracene	1169	13	1316	36.29	86.1	40-125	1125	3.88	30	
Fluoranthene	1123	13	1316	7.918	84.7	55-115	1042	7.4	30	
Fluorene	1119	13	1316	180.5	71.3	50-110	1029	8.39	30	
Indeno(1,2,3-cd)pyrene	1220	13	1316	78.19	86.8	40-120	1180	3.33	30	
Naphthalene	986.4	13	1316	148.5	63.7	40-105	970.2	1.65	30	
Pyrene	1211	13	1316	34.64	89.4	45-125	1138	6.24	30	
Surr: 2-Fluorobiphenyl	2424	0	3290	0	73.7	12-100	2247	7.61	40	
Surr: 4-Terphenyl-d14	3377	0	3290	0	103	25-137	3189	5.71	40	
Surr: Nitrobenzene-d5	1795	0	3290	0	54.6	37-107	1805	0.575	40	

The following samples were analyzed in this batch:

1407266-05B	1407266-06B	1407266-07B
-------------	-------------	-------------

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

Client: LT Environmental, Inc
Work Order: 1407266
Project: Kaufman #1 7.2.14

QC BATCH REPORT

Batch ID: **60337** Instrument ID **VMS8** Method: **SW8260B**

MBLK				Sample ID: MBLK-60337-60337				Units: µg/Kg			Analysis Date: 7/7/2014 01:34 PM			
Client ID:				Run ID: VMS8_140707A				SeqNo: 2839687			Prep Date: 7/7/2014		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	1041	0	1000	0	104	70-130		0						
Surr: 4-Bromofluorobenzene	981.5	0	1000	0	98.2	70-130		0						
Surr: Dibromofluoromethane	990	0	1000	0	99	70-130		0						
Surr: Toluene-d8	1002	0	1000	0	100	70-130		0						

LCS				Sample ID: LCS-60337-60337				Units: µg/Kg			Analysis Date: 7/7/2014 11:07 AM		
Client ID:			Run ID: VMS8_140707A			SeqNo: 2839686			Prep Date: 7/7/2014			DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual			
Benzene	994.5	30	1000	0	99.4	75-125	0						
Ethylbenzene	1047	30	1000	0	105	75-125	0						
m,p-Xylene	2071	60	2000	0	104	80-125	0						
o-Xylene	1023	30	1000	0	102	75-125	0						
Toluene	993	30	1000	0	99.3	70-125	0						
Xylenes, Total	3094	90	3000	0	103	75-125	0						
Surr: 1,2-Dichloroethane-d4	1042	0	1000	0	104	70-130	0						
Surr: 4-Bromofluorobenzene	993	0	1000	0	99.3	70-130	0						
Surr: Dibromofluoromethane	995	0	1000	0	99.5	70-130	0						
Surr: Toluene-d8	987	0	1000	0	98.7	70-130	0						

MS				Sample ID: 1407254-02A MS		Units: µg/Kg		Analysis Date: 7/10/2014 12:21 PM		
Client ID:		Run ID: VMS9_140709A		SeqNo: 2842522		Prep Date: 7/7/2014		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	924.5	30	1000	16.5	90.8	75-125	0			
Ethylbenzene	785.5	30	1000	48.5	73.7	75-125	0			S
m,p-Xylene	1595	60	2000	78	75.8	80-125	0			S
o-Xylene	822	30	1000	0	82.2	75-125	0			
Toluene	893.5	30	1000	0	89.4	70-125	0			
Xylenes, Total	2417	90	3000	78	78	75-125	0			
Surr: 1,2-Dichloroethane-d4	1026	0	1000	0	103	70-130	0			
Surr: 4-Bromofluorobenzene	1074	0	1000	0	107	70-130	0			
Surr: Dibromofluoromethane	1030	0	1000	0	103	70-130	0			
Surr: Toluene-d8	1044	0	1000	0	104	70-130	0			

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

Client: LT Environmental, Inc
Work Order: 1407266
Project: Kaufman #1 7.2.14

QC BATCH REPORT

Batch ID: **60337** Instrument ID **VMS8** Method: **SW8260B**

MSD				Sample ID: 1407254-02A MSD			Units: µg/Kg		Analysis Date: 7/10/2014 12:45 PM		
Client ID:			Run ID: VMS9_140709A			SeqNo: 2842523		Prep Date: 7/7/2014		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Benzene	908	30	1000	16.5	89.2	75-125	924.5	1.8	30		
Ethylbenzene	770	30	1000	48.5	72.2	75-125	785.5	1.99	30	S	
m,p-Xylene	1574	60	2000	78	74.8	80-125	1595	1.29	30	S	
o-Xylene	804.5	30	1000	0	80.4	75-125	822	2.15	30		
Toluene	876.5	30	1000	0	87.6	70-125	893.5	1.92	30		
Xylenes, Total	2379	90	3000	78	76.7	75-125	2417	1.58	30		
Surr: 1,2-Dichloroethane-d4	1027	0	1000	0	103	70-130	1026	0.0487	30		
Surr: 4-Bromofluorobenzene	1052	0	1000	0	105	70-130	1074	2.07	30		
Surr: Dibromofluoromethane	1024	0	1000	0	102	70-130	1030	0.487	30		
Surr: Toluene-d8	1038	0	1000	0	104	70-130	1044	0.625	30		

The following samples were analyzed in this batch: 1407266-05A 1407266-06A 1407266-07A

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

Client: LT Environmental, Inc
Work Order: 1407266
Project: Kaufman #1 7.2.14

QC BATCH REPORT

Batch ID: **60348** Instrument ID **WETCHEM** Method: **USDA H60 Method**

DUP		Sample ID: 1407242-01C DUP				Units: mmhos/cm @25°C		Analysis Date: 7/10/2014 10:15 AM		
Client ID:		Run ID: WETCHEM_140710A				SeqNo: 2842676		Prep Date: 7/9/2014		DF: 10
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Electrical Conductivity @ Saturation	3.91	0.050	0	0	0		3.77	3.65	50	

The following samples were analyzed in this batch:

1407266-01A	1407266-02A	1407266-03A
1407266-04A	1407266-05C	1407266-06C
1407266-07C		

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

Client: LT Environmental, Inc
Work Order: 1407266
Project: Kaufman #1 7.2.14

QC BATCH REPORT

Batch ID: **60366** Instrument ID **WETCHEM** Method: **SW9045D**

LCS					Sample ID: LCS-60366-60366					Units:s.u.			Analysis Date: 7/8/2014 05:01 PM			
Client ID:					Run ID: WETCHEM_140708P					SeqNo:2840457			Prep Date: 7/8/2014		DF: 1	
Analyte					Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual		
pH					3.94	0	4	0	98.5	90-110	0					

DUP					Sample ID: 1407249-01B DUP					Units:s.u.			Analysis Date: 7/8/2014 05:01 PM		
Client ID:				Run ID: WETCHEM_140708P				SeqNo:2840459			Prep Date: 7/8/2014			DF: 1	
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual				
pH		7.83	0	0	0	0	0-0	7.89	0.763	20					

DUP					Sample ID: 1407254-09C DUP					Units: s.u.			Analysis Date: 7/8/2014 05:01 PM			
Client ID:					Run ID: WETCHEM_140708P					SeqNo: 2840469			Prep Date: 7/8/2014		DF: 1	
Analyte					Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual		
pH					7.08	0	0	0	0	0-0	7.17	1.26	20			

The following samples were analyzed in this batch:

1407266-02A	1407266-03A	1407266-04A
-------------	-------------	-------------

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

Client: LT Environmental, Inc
 Work Order: 1407266
 Project: Kaufman #1 7.2.14

QC BATCH REPORT

Batch ID: **60378** Instrument ID **WETCHEM** Method: **SW7196A**

MBLK		Sample ID: MBLK-60378-60378				Units: mg/Kg		Analysis Date: 7/8/2014 03:00 PM		
Client ID:		Run ID: WETCHEM_140708H				SeqNo: 2840260		Prep Date: 7/7/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent ND 0.50

LCS		Sample ID: LCS-60378-60378				Units: mg/Kg		Analysis Date: 7/8/2014 03:00 PM		
Client ID:		Run ID: WETCHEM_140708H				SeqNo: 2840261		Prep Date: 7/7/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent 1.924 0.50 2 0 96.2 80-120 0

MS		Sample ID: 1407266-07B MS				Units: mg/Kg		Analysis Date: 7/8/2014 03:00 PM		
Client ID: PB03		Run ID: WETCHEM_140708H				SeqNo: 2840275		Prep Date: 7/7/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent 1.795 0.49 1.969 0 91.2 75-125 0

MS		Sample ID: 1407266-07B MSI				Units: mg/Kg		Analysis Date: 7/8/2014 03:00 PM		
Client ID: PB03		Run ID: WETCHEM_140708H				SeqNo: 2840277		Prep Date: 7/7/2014		DF: 100
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent 1112 50 1481 0 75.1 75-125 0

MSD		Sample ID: 1407266-07B MSD				Units: mg/Kg		Analysis Date: 7/8/2014 03:00 PM		
Client ID: PB03		Run ID: WETCHEM_140708H				SeqNo: 2840276		Prep Date: 7/7/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent 1.85 0.49 1.976 0 93.6 75-125 1.795 2.99 20

The following samples were analyzed in this batch:

1407266-05B	1407266-06B	1407266-07B
-------------	-------------	-------------

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

Client: LT Environmental, Inc
Work Order: 1407266
Project: Kaufman #1 7.2.14

QC BATCH REPORT

Batch ID: **60393** Instrument ID **WETCHEM** Method: **SW9045D**

LCS					Sample ID: LCS-60393-60393					Units: s.u.			Analysis Date: 7/8/2014 05:00 PM				
Client ID:					Run ID: WETCHEM_1407080					SeqNo: 2840441			Prep Date: 7/8/2014			DF: 1	
Analyte					Result		PQL	SPK Val	SPK Ref Value	%REC		Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
pH					3.94		0	4	0	98.5		90-110	0				

DUP					Sample ID: 1407266-01A DUP					Units: s.u.			Analysis Date: 7/8/2014 05:00 PM				
Client ID: BG01					Run ID: WETCHEM_1407080					SeqNo: 2840443			Prep Date: 7/8/2014			DF: 1	
Analyte					Result	PQL	SPK Val	SPK Ref Value	%REC		Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual		
pH					7.08	0	0	0	0		0-0	7.08	0	20			

The following samples were analyzed in this batch:

1407266-01A	1407266-05B	1407266-06B
1407266-07B		

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

Client: LT Environmental, Inc
Work Order: 1407266
Project: Kaufman #1 7.2.14

QC BATCH REPORT

Batch ID: **R143995** Instrument ID **MOIST** Method: **A2540 G**

MBLK		Sample ID: WBLKS-R143995				Units: % of sample		Analysis Date: 7/7/2014 02:22 PM		
Client ID:		Run ID: MOIST_140707C				SeqNo: 2839450		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Moisture ND 0.050

LCS		Sample ID: LCS-R143995				Units: % of sample		Analysis Date: 7/7/2014 02:22 PM		
Client ID:		Run ID: MOIST_140707C				SeqNo: 2839449		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Moisture 100 0.050 100 0 100 99.5-100.5 0

DUP		Sample ID: 1407255-01A DUP				Units: % of sample		Analysis Date: 7/7/2014 02:22 PM		
Client ID:		Run ID: MOIST_140707C				SeqNo: 2839430		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Moisture 69.27 0.050 0 0 0 0-0 69.19 0.116 20

DUP		Sample ID: 1407260-09B DUP				Units: % of sample		Analysis Date: 7/7/2014 02:22 PM		
Client ID:		Run ID: MOIST_140707C				SeqNo: 2839439		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Moisture 10.79 0.050 0 0 0 0-0 10.3 4.65 20

The following samples were analyzed in this batch:

1407266-05B	1407266-06B	1407266-07B
-------------	-------------	-------------

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

Client: LT Environmental, Inc
Work Order: 1407266
Project: Kaufman #1 7.2.14

QC BATCH REPORT

Batch ID: **R144000** Instrument ID **MOIST** Method: **A2540 G**

MBLK		Sample ID: WBLKS-R144000				Units: % of sample		Analysis Date: 7/7/2014 03:40 PM		
Client ID:		Run ID: MOIST_140707D				SeqNo: 2839607		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Moisture ND 0.050

LCS		Sample ID: LCS-R144000				Units: % of sample		Analysis Date: 7/7/2014 03:40 PM		
Client ID:		Run ID: MOIST_140707D				SeqNo: 2839606		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Moisture 100 0.050 100 0 100 99.5-100.5 0

DUP		Sample ID: 14061448-03A DUP				Units: % of sample		Analysis Date: 7/7/2014 03:40 PM		
Client ID:		Run ID: MOIST_140707D				SeqNo: 2839582		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Moisture 14.52 0.050 0 0 0 0-0 14.68 1.1 20 H

DUP		Sample ID: 1407266-01A DUP				Units: % of sample		Analysis Date: 7/7/2014 03:40 PM		
Client ID: BG01		Run ID: MOIST_140707D				SeqNo: 2839602		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Moisture 2.57 0.050 0 0 0 0-0 2.54 1.17 20

The following samples were analyzed in this batch:

1407266-01A	1407266-02A	1407266-03A
1407266-04A		

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



☐ ALS Environmental
10450 Stancliff Rd. #210
Houston, Texas 77099
(Tel) 281.530.5656
(Fax) 281.530.5887

Chain of Custody Form

Page 1 of 1

☒ ALS Environmental
3352 128th Avenue
Holland, Michigan 49424
(Tel) 616.399.6070
(Fax) 616.399.6185

Customer Information		Project Information					Parameter/Method Request for Analysis												
Purchase Order		Project Name	Kaufman #1				A	TPH GRO/DRO											
Work Order		Project Number	BBC1003				B	BTEX											
Company Name	LT Environmental	Bill To Company	LT Environmental				C	Table 910 PAHs											
Send Report To	Jake Janicek, Rob Fishburn	Invoice Attn	Jake Janicek				D	Table 910 Metals											
Address	820 Megan Ave, Unit B	Address	820 Megan Ave, Unit B				E	EC											
City/State/Zip	Rifle, CO 81650	City/State/Zip	Rifle, CO 81650				F	SAR											
Phone	970-285-9985	Phone	970-285-9985				G	pH											
Fax		Fax					H	Total Arsenic 6020											
e-Mail Address	jjanicek@ltenv.com; rfishburn@ltenv.com						I												
							J												
No	Sample Description	Date	Time	Matrix	Pres. Key Numbers	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold		
1	BG01	7/2/2014	9:25	SOIL	none	1					x	x	x	x					
2	BG02	7/2/2014	9:30	SOIL	none	1					x	x	x	x					
3	BG03	7/2/2014	9:40	SOIL	none	1					x	x	x	x					
4	BG04	7/2/2014	9:50	SOIL	none	1					x	x	x	x					
5	PB01	7/2/2014	9:10	SOIL	none	4	x	x	x	x	x	x	x	x					
6	PB02	7/2/2014	9:15	SOIL	none	4	x	x	x	x	x	x	x	x					
7	PB03	7/2/2014	9:20	SOIL	none	4	x	x	x	x	x	x	x	x					
8																			
9																			
10																			
Sampler(s): Please Print & Sign <i>Steve Sivigliano / Steve Sighi</i>		Shipment Method: Lab Hub		Required Turnaround Time: (Check Box) <input type="checkbox"/> 10 Wk Days <input checked="" type="checkbox"/> 5 Wk Days <input type="checkbox"/> 3 Wk Days <input type="checkbox"/> 2 Wk Days <input type="checkbox"/> 24 Hour				Results Due Date:											
Relinquished by: <i>Steve Sighi</i>		Date: 7/2/14	Time: 15:10	Received by: <i>[Signature]</i>		Date: 7-2	Time: 1510	Notes: For BG01, BG02, BG03, and BG04 run Total Arsenic only and hold analyses for EC, SAR, and pH											
Relinquished by: <i>[Signature]</i>		Date: 7-2	Time: 1520	Received by (Laboratory): <i>[Signature]</i>		Date: 7/3/14	Time: 2230	ALS Cooler ID	Cooler Temp	QC Package: (Check Box Below) <input checked="" type="checkbox"/> Level II: Standard QC <input type="checkbox"/> Level III: Raw Data <input type="checkbox"/> TRRP LRC <input type="checkbox"/> TRRP Level IV <input type="checkbox"/> Level IV: SW846 Methods/CLP like <input type="checkbox"/> Other:									
Logged by (Laboratory): <i>DFS</i>		Date: 7/2/14	Time: 0930	Checked by (Laboratory): <i>[Signature]</i>															
Preservative Key: 1-HCl 2-HNO ₃ 3-H ₂ SO ₄ 4-NaOH 5-Na ₂ S ₂ O ₃ 6-NaHSO ₄ 7-Other 8-4°C																			

Note: Any changes must be made in writing once samples and COC Form have been submitted to ALS.

Sample Receipt Checklist

Client Name: **LTENV**

Date/Time Received: **03-Jul-14 22:30**

Work Order: **1407266**

Received by: **DS**

Checklist completed by Diane Shaw
eSignature

07-Jul-14
Date

Reviewed by: Chad Whilton
eSignature

07-Jul-14
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 checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input 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):	<u>2.6 c</u>		
Cooler(s)/Kit(s):			
Date/Time sample(s) sent to storage:	<u>7/7/2014 9:42:20 AM</u>		
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:			

Login Notes:

Client Contacted:

Date Contacted:

Person Contacted:

Contacted By:

Regarding:

Comments:

CorrectiveAction:

From: (616) 399-6070
 Sample Receiving
 ALS Laboratory Group
 3352 128th Avenue
 Holland, MI 49424

Origin ID: GRRR



Ship Date: 02 JUL 14
 ActWgt: 66.0 LB
 CAD: 2264840/NET3480

Dim: 24 X 15 X 15 IN

Delivery Address Bar Code



Ref # 070214-1
 Invoice #
 PO # Parachute
 Dept #

SHIP TO: (616) 399-6070
 sample receiving
 ALS Laboratory Group
 3352 128TH AVE

BILL SENDER

HOLLAND, MI 49424

2 of 3

THU - 03 JUL 10:30A
 PRIORITY OVERNIGHT

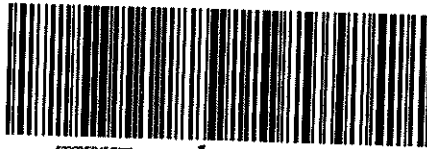
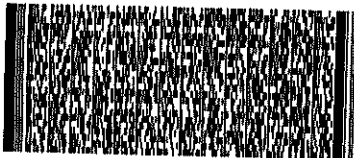
MP# 7704 9894 0780

Mstr# 7704 9894 0986

0261

68 GRRR

49424
 MI-US
 GRR



52202ED4F#220

After printing this label:

1. Use the 'Print' button on this page to print your label to your laser or inkjet printer.
2. Fold the printed page along the horizontal line.
3. Place label in shipping pouch and affix it to your shipment so that the barcode portion of the label can be read and scanned.

Warning: Use only the printed original label for shipping. Using a photocopy of this label for shipping purposes is fraudulent and could result in additional billing charges, along with the cancellation of your FedEx account number.

Use of this system constitutes your agreement to the service conditions in the current FedEx Service Guide, available on fedex.com. FedEx will not be responsible for any claim in excess of \$100 per package, whether the result of loss, damage, delay, non-delivery, misdelivery, or misinformation, unless you declare a higher value, pay an additional charge, document your actual loss and file a timely claim. Limitations found in the current FedEx Service Guide apply. Your right to recover from FedEx for any loss, including intrinsic value of the package, loss of sales, income interest, profit, attorney's fees, costs, and other forms of damage whether direct, incidental, consequential, or special is limited to the greater of \$100 or the authorized declared value. Recovery cannot exceed actual documented loss. Maximum for items of extraordinary value is \$1,000, e.g. jewelry, precious metals, negotiable instruments and other items listed in our Service Guide. Written claims must be filed within strict time limits, see current FedEx Service Guide.