

State of Colorado
Oil and Gas Conservation Commission

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FOR OGCC USE ONLY
Received 8/12/14
REM #
Doc #1733913

SITE INVESTIGATION AND REMEDIATION WORKPLAN

This form shall be submitted to the Director for approval prior to the initiation of site investigation and remediation activities. Form 27 is intended to be used whenever possible. Additional documentation will be required when large volumes of soil and groundwater have been impacted or involve large facilities with multiple source areas. See Rule 910. Attach as many pages as needed to fully describe the proposed work.

CAUSE OF CONDITION BEING INVESTIGATED AND REMEDIATED

☐ Spill or Release ☐ Plug & Abandon ☐ Central Facility Closure ☒ Site/Facility Closure ☐ Other (describe): _____

OGCC Operator Number: 10071

Name of Operator: BILL BARRETT CORPORATION

Address: 112 Red Feather Trail

City: Silt State: CO Zip: 81652

Contact Name and Telephone:

Scott Ghan

No: 970.876.1959

Fax: 970.876.0981

API Number: 436478 (Facility ID)

County: GARFIELD

Facility Name: Specialty

Facility Number: 41A-28-692

Well Name: NA

Well Number: 383333 (Location ID)

Location: (QtrQtr, Sec, Twp, Rng, Meridian): NENE, 28, 6S, 92W, 6PM Latitude: 39.502487 Longitude: -107.666357

TECHNICAL CONDITIONS

Type of Waste Causing Impact (crude oil, condensate, produced water, etc): Multi-well pit

Site Conditions: Is location within a sensitive area (according to Rule 901e)? ☒ Y ☐ N If yes, attach evaluation.

Adjacent land use (cultivated, irrigated, dry land farming, industrial, residential, etc.): Rangeland

Soil type, if not previously identified on Form 2A or Federal Surface Use Plan: Potts loam, 6 to 12 percent slopes

Potential receptors (water wells within 1/4 mi, surface waters, etc.): Surface water: Multa Trina Ditch is 96 feet north; water well: 751 feet north

Description of Impact (if previously provided, refer to that form or document):

Impacted Media (check):

☐

Soils

☐

Vegetation

☐

Groundwater

☐

Surface Water

Extent of Impact:

NA

How Determined:

Laboratory Analysis

REMEDIALTION WORKPLAN

Describe initial action taken (if previously provided, refer to that form or document):

See attached narrative.

Describe how source is to be removed:

See attached narrative.

Describe how remediation of existing impacts is to be accomplished, including removal and disposal at an injection well or licensed facility, land treatment on site, removal of impacted groundwater, insitu bioremediation, burning of oily vegetation, etc.:

See attached narrative.



REMEDIATION WORKPLAN (Cont.)

Tracking Number: _____
Name of Operator: _____
OGCC Operator No: _____
Received Date: _____
Well Name & No: _____
Facility Name & No: _____

OGCC Employee: _____

If groundwater has been impacted, describe proposed monitoring plan (# of wells or sample points, sampling schedule, analytical methods, etc.):

See attached narrative.

Describe reclamation plan. Discuss existing and new grade recontouring; method and testing of compaction alleviation; and reseeding program, including location of new seed, seed mix and noxious weed prevention. Attach diagram or drawing. Use additional sheet for description if required.

See attached narrative.

Attach samples and analytical results taken to verify remediation of impacts. Show locations of samples on an onsite schematic or drawing.

Is further site investigation required? ☐ Y ☒ N If yes, describe:

See attached narrative.

Final disposition of E&P waste (landtreated and disposed onsite, name of licensed disposal facility, recycling, reuse, etc.):

See attached narrative.

IMPLEMENTATION SCHEDULE

Date Site Investigation Began: 3/6/2013 Date Site Investigation Completed: 7/28/2014 Date Remediation Plan Submitted: 8/12/2014
Remediation Start Date: NA Anticipated Completion Date: NA Actual Completion Date: 7/28/2014

I hereby certify that the statements made in this form are, to the best of my knowledge, true, correct, and complete.

Print Name: Scott Ghan Signed: [Signature]

Title: Senior Environmental Specialist Date: 8/12/2014

OGCC Approved: _____ Title: _____ Date: _____

Specialty 41A-28-692 Pit Closure (Form 27)**(Facility ID – 436478)****(Location ID – 383333)**

This Form 27 (Site/Facility Closure) was prepared for the purpose of closing a pit (Facility ID – 436478) located on the Specialty 41A-28-692 well pad (Location ID – 383333) in Bill Barrett Corporation's (BBC's) Mamm Creek area of operation in Garfield County. This document includes a topographic location map illustrating the site location (Figure 1).

The Form 15 (COGCC Document Number 2223614) associated with this pit was submitted in October, 2010 and was not approved by the COGCC until March, 2014. Therefore, the subsequent Form 27 detailing pit closure activities could not be completed until a facility number was issued for the referenced pit. Once the Form 15 was approved, a facility number was assigned to this pit. Please reference this Form 15 for additional information regarding this pit.

TECHNICAL CONDITIONS**Is location within a sensitive area (according to Rule 901e)?**

This location is within a sensitive area.

REMEDATION WORKPLAN**Describe initial action taken (if previously provided, refer to that form or document):**

The following activities have been carried out in support of pit closure activities:

- 905.b(2) – All fluids were removed from the pit by February 2012 and the pit has been out of service since. The fluids were disposed of in one of BBC's injection wells.
- 905.b(3) – The liners were cleaned, removed, bailed and sent by a subcontractor to a recycling facility with the appropriate receipts and manifests. No visual signs of the liner being compromised were evident during this process.
- 905.b(4) – Representative grab samples were collected from the pit bottom and analyzed for compliance with COGCC Table 910-1 Concentration Levels.

Describe how source is to be removed:

All fluids and the liner were removed and disposed of properly at licensed facilities. Impacted soils were not observed beneath the liner. This was verified through the collection of soil samples along the pit bottom. On July 28, 2014, BBC collected three discreet confirmation soil samples (PB01, PB02 and PB03) from the pit bottom (Figure 3). The samples were submitted for analysis of all analytes listed in COGCC Table 910-1.

Describe how remediation of existing impact is to be accomplished, including removal and disposal at an injection well or licensed facility, land treatment on site, removal of impacted groundwater, insitu bioremediation, burning of oily vegetation, etc.:

Further remediation is not necessary. Analytical results from the samples collected from the pit bottom indicate all analytes were compliant with COGCC Table 910-1 Concentration Levels or below background concentrations with the exception of EC, SAR, and pH. However, Frequently Asked Question Number 32 on the COGCC website explains that the COGCC will apply the Table 910-1 Concentration Levels for EC, SAR, and pH only to soils that are within 3 feet of the ground surface as these analytes relate to reclamation. Soil samples were collected from the base of the former pit at approximately 18 to 20 feet below ground surface (bgs).

If groundwater has been impacted, described proposed monitoring plan(# of wells or sample points, sampling schedule, analytical methods, etc.):

Groundwater was not encountered during pit closure activities. Groundwater is estimated to be 40 feet bgs.

Describe reclamation plan. Discuss existing and new grade recontouring; method and testing of compaction alleviation; and reseeding program, including location of new seed, seed mix and noxious weed prevention. Attach diagram or drawing. Use additional sheet for description if required.

Upon COGCC authorization of this pit closure request, BBC will backfill the former pit. The former pit location will be re-contoured and seeded. Because the pit is part of an active well pad and ongoing production activities, the reclaimed area will be managed under BBC's surface management programs such as stormwater and weed management.

Attach samples and analytical results taken to verify remediation of impacts. Show locations of samples on an onsite schematic or drawing. Is further site investigation required? If yes, describe:

On March 6, 2013, BBC collected two discreet confirmation soil samples (PS01 and PS02) from the pit bottom (Figure 2). The samples were submitted for the analysis of all analytes listed in COGCC Table 910-1. The analytical results indicate both samples were compliant with COGCC Table 910-1 Concentration Levels or below background concentrations, except for EC, SAR, and pH results (Tables 1 and 2). The background arsenic samples were collected from an adjoining pad (Specialty 4). Laboratory analytical reports are attached.

On July 28, 2014, BBC returned to the site to collect three discreet confirmation soil samples (PB01, PB02, and PB03) from the pit bottom (Figure 3) in an effort to provide up to date soil data from the pit bottom and also to collect a sample from the east end of the pit. A sample was not collected from the east end of the pit during the March 2013 sampling event due to standing water from recent snow melt. The samples were submitted for analysis of all analytes listed in

Specialty 41A-28-692 Pit Closure (Form 27)

(Facility ID – 436478)

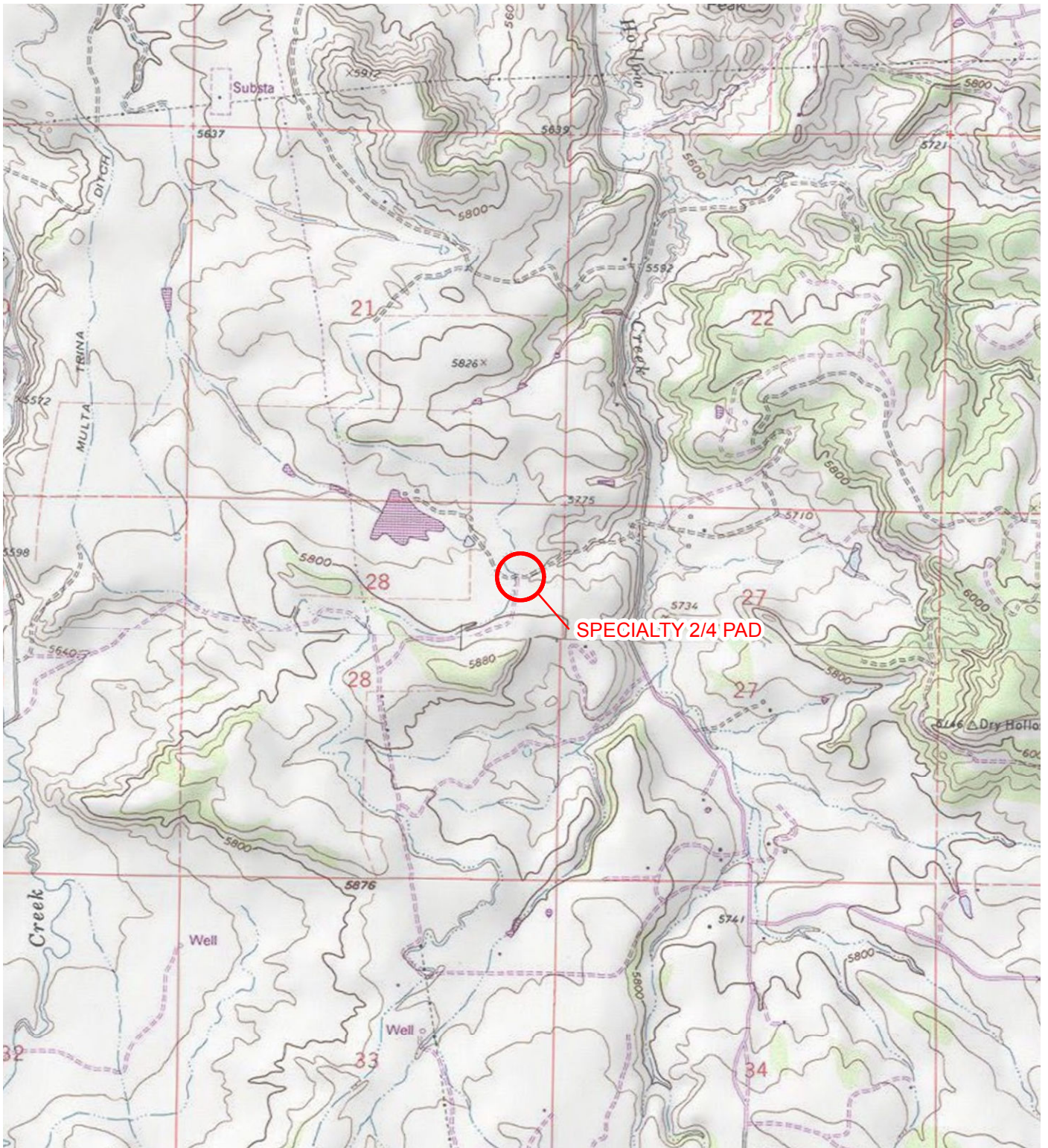
(Location ID – 383333)

COGCC Table 910-1. The analytical results indicate all samples were compliant with COGCC Table 910-1 Concentration Levels or below background concentrations, except for EC, SAR, and pH results (Tables 1 and 2). The background arsenic samples were collected on an adjoining pad (Specialty 4). Laboratory analytical reports are attached.

As soil with elevated EC, SAR, and pH concentrations will be buried under a minimum of 3 feet of cover and no other analytes indicate a release from the former pit, BBC is requesting authorization to close and backfill the pit.

Final disposition of E&P waste (land treated and disposed onsite, name of licensed disposal facility, recycling, reuse, etc.):

Water was disposed of in one or more of the following injection facilities - GGU Rodreick (Facility 159176); Specialty 13A-28-692 SWD (Facility 159212); Circle B Land 33A-35-692 (Facility 159277); or Scott 41D-36-692 SWD (Facility 159159). The liner was cleaned, bailed and sent to the Holcim/Geocycle recycling facility in Morgan, UT. BBC has waste manifests and certificates of destruction from Holcim/Geocycle to verify appropriate disposition of the liners.



LEGEND

○ SITE LOCATION

IMAGE COURTESY OF ESRI/BING MAPS

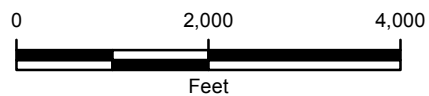


FIGURE 1
SITE LOCATION MAP
SPECIALTY 2/4 PAD
NENE SEC 28-T6S-R92W
GARFIELD COUNTY, COLORADO
BILL BARRETT CORPORATION



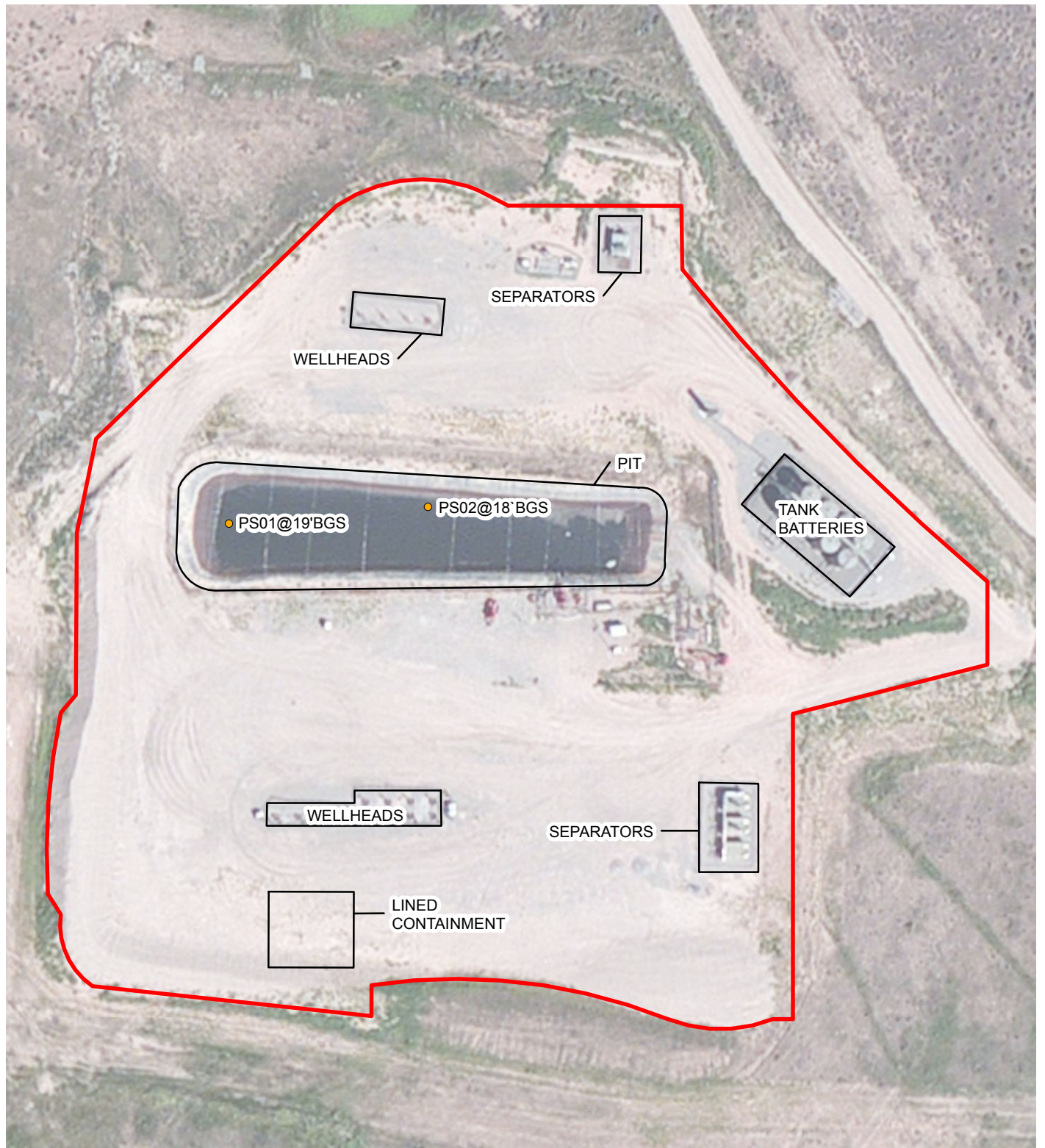


IMAGE COURTESY OF ESRI

LEGEND

- SOIL SAMPLE
- ▭ PAD

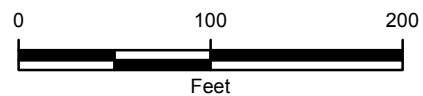


FIGURE 2
SITE MAP (MARCH 6, 2013)
SPECIALTY 2/4 PAD
NENE SEC 28-T6S-R92W
GARFIELD COUNTY, COLORADO
BILL BARRETT CORPORATION



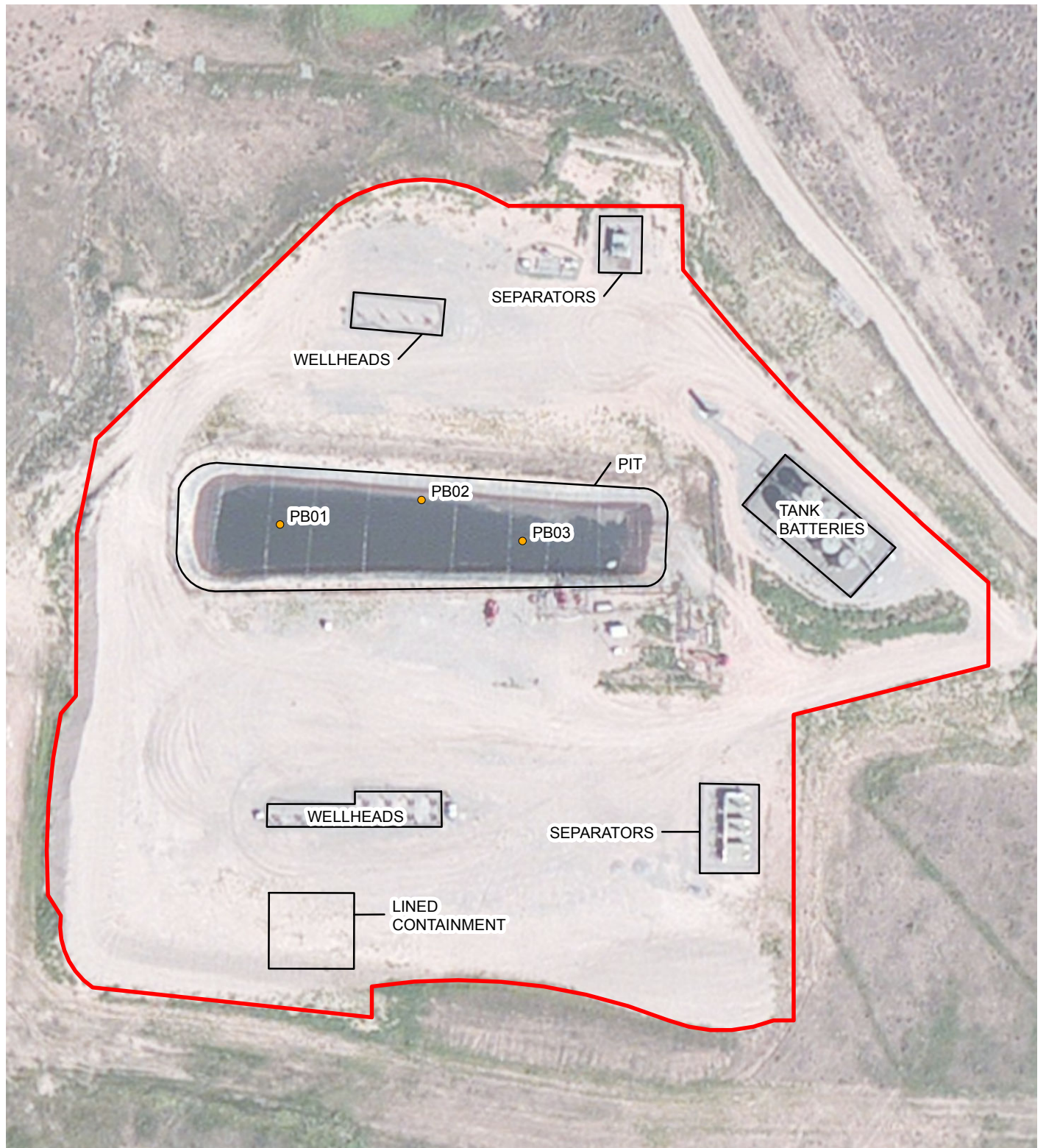


IMAGE COURTESY OF ESRI

LEGEND

- SOIL SAMPLE
- PAD

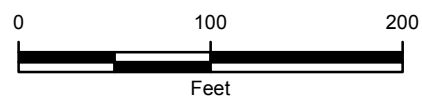


FIGURE 3
 SITE MAP (JULY 28, 2014)
 SPECIALTY 2/4 PAD
 NENE SEC 28-T6S-R92W
 GARFIELD COUNTY, COLORADO
 BILL BARRETT CORPORATION



TABLE 1
SOIL ANALYTICAL RESULTS
SPECIALTY 2-4
GARFIELD COUNTY, COLORADO
BILL BARRETT CORPORATION

Parameter	Standard	PB01	PB02	PB03	PS01
Depth (feet)		19	19	20	19
Sample Date		7/28/2014	7/28/2014	7/28/2014	3/6/2013

Inorganics

Electrical Conductivity (mmhos/cm)	4	24	36	90	11
SAR (meq/meq)	12	34	46	99	15
pH, Lab (Standard Units)	6 to 9	9.0	8.4	8.7	9.27

Metals

Arsenic (mg/kg)	0.39	4.4	3.6	5.5	3.1
Barium (mg/kg)	15000	430	950	440	510
Cadmium (mg/kg)	70	<0.88	<0.85	<1.2	0.35
Chromium+3 Calculated (mg/kg)	120000	13	12	14	12
Chromium, Hexavalent (mg/kg)	23	<0.59	<0.65	<0.75	<0.52
Copper (mg/kg)	3100	13	11	13	14
Lead (mg/kg)	400	12	9.8	10	15
Mercury (mg/kg)	23	0.020	0.014	0.023	0.033
Nickel (mg/kg)	1600	14	13	14	15
Selenium (mg/kg)	390	<2.2	<2.1	<3.0	0.82
Silver (mg/kg)	390	<2.2	<2.1	<3.0	<0.77
Zinc (mg/kg)	23000	52	47	51	57

Organic Compounds

TPH-DRO (mg/kg)		56	74	73	7.2
TPH-GRO (mg/kg)		<2.9	<3.4	<3.8	<2.7
TPH-Total (mg/kg)	500	56	74	73	7.2
Benzene (mg/kg)	0.17	<0.035	<0.041	<0.046	<0.032
Toluene (mg/kg)	85	<0.035	<0.041	<0.046	<0.032
Ethylbenzene (mg/kg)	100	<0.035	<0.041	<0.046	<0.032
Xylenes, Total (mg/kg)	175	<0.11	<0.12	<0.14	<0.096
Acenaphthene (mg/kg)	1000	<0.015	<0.018	<0.02	<0.032
Anthracene (mg/kg)	1000	<0.015	<0.018	<0.02	<0.032
Benzo (a) anthracene (mg/kg)	0.22	<0.015	<0.018	<0.02	<0.016
Benzo (b) fluoranthene (mg/kg)	0.22	<0.015	<0.018	<0.02	<0.021
Benzo (k) fluoranthene (mg/kg)	2.2	<0.015	<0.018	<0.02	<0.019
Benzo (a) pyrene (mg/kg)	0.022	<0.015	<0.018	<0.02	<0.019
Chrysene (mg/kg)	22	<0.015	<0.018	<0.02	<0.021
Dibenz (a,h) anthracene (mg/kg)	0.022	<0.015	<0.018	<0.02	<0.019
Fluoranthene (mg/kg)	1000	<0.015	<0.018	<0.02	<0.032
Fluorene (mg/kg)	1000	<0.015	<0.018	<0.02	<0.032
Indeno (1,2,3-cd) pyrene (mg/kg)	0.22	<0.015	<0.018	<0.02	<0.021
Naphthalene (mg/kg)	23	<0.015	<0.018	<0.02	<0.011
Pyrene (mg/kg)	1000	<0.015	<0.018	<0.02	<0.032

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)
SOIL ANALYTICAL RESULTS
SPECIALTY 2-4
GARFIELD COUNTY, COLORADO
BILL BARRETT CORPORATION

Parameter	Standard	PS02
Depth (feet)		18
Sample Date		3/6/2013

Inorganics

Electrical Conductivity (mmhos/cm)	4	4.6
SAR (meq/meq)	12	64
pH, Lab (Standard Units)	6 to 9	9.47

Metals

Arsenic (mg/kg)	0.39	4.2
Barium (mg/kg)	15000	270
Cadmium (mg/kg)	70	<0.34
Chromium+3 Calculated (mg/kg)	120000	13
Chromium, Hexavalent (mg/kg)	23	<0.59
Copper (mg/kg)	3100	17
Lead (mg/kg)	400	13
Mercury (mg/kg)	23	<0.019
Nickel (mg/kg)	1600	17
Selenium (mg/kg)	390	0.88
Silver (mg/kg)	390	<0.85
Zinc (mg/kg)	23000	65

Organic Compounds

TPH-DRO (mg/kg)		7.2
TPH-GRO (mg/kg)		<2.9
TPH-Total (mg/kg)	500	7.2
Benzene (mg/kg)	0.17	<0.035
Toluene (mg/kg)	85	<0.035
Ethylbenzene (mg/kg)	100	<0.035
Xylenes, Total (mg/kg)	175	<0.1
Acenaphthene (mg/kg)	1000	<0.034
Anthracene (mg/kg)	1000	<0.034
Benzo (a) anthracene (mg/kg)	0.22	<0.017
Benzo (b) fluoranthene (mg/kg)	0.22	<0.023
Benzo (k) fluoranthene (mg/kg)	2.2	<0.02
Benzo (a) pyrene (mg/kg)	0.022	<0.02
Chrysene (mg/kg)	22	<0.023
Dibenz (a,h) anthracene (mg/kg)	0.022	<0.02
Fluoranthene (mg/kg)	1000	<0.034
Fluorene (mg/kg)	1000	<0.034
Indeno (1,2,3-cd) pyrene (mg/kg)	0.22	<0.023
Naphthalene (mg/kg)	23	<0.011
Pyrene (mg/kg)	1000	<0.034

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
SOIL ANALYTICAL RESULTS
SPECIALTY 4
GARFIELD COUNTY, COLORADO
BILL BARRETT CORPORATION

Parameter	Standard	BG01	BG02	BG03
Depth (feet)		0.5	0.5	0.5
Sample Date		6/21/2010	6/21/2010	6/21/2010

Metals

Arsenic (mg/kg)	0.39	4.1	7.0	4.9
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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





07/01/10

Technical Report for

LT Environmental

Specialty 4 BBC1011

BBC1011

Accutest Job Number: T55003

Sampling Date: 06/21/10

Report to:

LT Environmental
820 Megan Ave, Unit B
Rifle, CO 81650
aweinberg@ltenv.com; bdodek@ltenv.com;
jjanicek@ltenv.com
ATTN: Asher Weinberg

Total number of pages in report: 46



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.

Paul K Canevaro

Paul Canevaro
Laboratory Director

Client Service contact: Georgia Jones 713-271-4700

Certifications: TX (T104704220-09C-TX) AR (88-0756) FL (E87628) KS (E-10366) LA (85695/04004)
OK (9103) UT(7132714700)

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Test results relate only to samples analyzed.

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Sample Summary

LT Environmental

Job No: T55003

Specialty 4 BBC1011
Project No: BBC1011

Sample Number	Collected		Received	Matrix		Client Sample ID
	Date	Time By		Code	Type	
T55003-1	06/21/10	13:30 JJ	06/23/10	SO	Soil	CO1@0.5'
T55003-2	06/21/10	13:55 JJ	06/23/10	SO	Soil	BG01@0.5'
T55003-3	06/21/10	14:00 JJ	06/23/10	SO	Soil	BG02@0.5'
T55003-4	06/21/10	14:05 JJ	06/23/10	SO	Soil	BG03@0.5'

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



Sample Results

Report of Analysis

Report of Analysis

Page 1 of 1

Client Sample ID:	CO1@0.5'	Date Sampled:	06/21/10
Lab Sample ID:	T55003-1	Date Received:	06/23/10
Matrix:	SO - Soil	Percent Solids:	75.8
Method:	SW846 8015		
Project:	Specialty 4 BBC1011		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BB0000342.D	1	06/24/10	LB	n/a	n/a	GBB17
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.58 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	28.8	7.5	0.45	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	103%		46-127%
98-08-8	aaa-Trifluorotoluene	106%		44-120%

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CO1@0.5'	Date Sampled:	06/21/10
Lab Sample ID:	T55003-1	Date Received:	06/23/10
Matrix:	SO - Soil	Percent Solids:	75.8
Method:	SW846 8015 M SW846 3550B		
Project:	Specialty 4 BBC1011		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	IF199008.D	1	06/29/10	EM	06/25/10	OP15205	GIF1043
Run #2							

	Initial Weight	Final Volume
Run #1	30.8 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C28)	221	4.3	3.5	mg/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
84-15-1	o-Terphenyl	95%		33-115%		

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: CO1@0.5'

Lab Sample ID: T55003-1

Matrix: SO - Soil

Project: Specialty 4 BBC1011

Date Sampled: 06/21/10

Date Received: 06/23/10

Percent Solids: 75.8

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic ^a	18.7	0.50	mg/kg	5	06/28/10	06/29/10 ANJ	SW846 6020 ⁴	SW846 3050B ⁷
Barium	9010	77	mg/kg	5	06/24/10	06/27/10 NS	SW846 6010B ²	SW846 3050B ⁵
Cadmium	< 0.38	0.38	mg/kg	1	06/24/10	06/25/10 NS	SW846 6010B ¹	SW846 3050B ⁵
Copper	29.8	1.9	mg/kg	1	06/24/10	06/25/10 NS	SW846 6010B ¹	SW846 3050B ⁵
Lead	12.4	0.77	mg/kg	1	06/24/10	06/25/10 NS	SW846 6010B ¹	SW846 3050B ⁵
Mercury	0.025	0.021	mg/kg	1	06/28/10	06/28/10 CN	SW846 7471A ³	SW846 7471A ⁶
Nickel	15.7	3.1	mg/kg	1	06/24/10	06/25/10 NS	SW846 6010B ¹	SW846 3050B ⁵
Selenium	< 0.77	0.77	mg/kg	1	06/24/10	06/25/10 NS	SW846 6010B ¹	SW846 3050B ⁵
Silver	< 0.77	0.77	mg/kg	1	06/24/10	06/25/10 NS	SW846 6010B ¹	SW846 3050B ⁵
Zinc	58.1	1.5	mg/kg	1	06/24/10	06/25/10 NS	SW846 6010B ¹	SW846 3050B ⁵

(1) Instrument QC Batch: MA4858

(2) Instrument QC Batch: MA4861

(3) Instrument QC Batch: MA4864

(4) Instrument QC Batch: N:MA24547

(5) Prep QC Batch: MP12134

(6) Prep QC Batch: MP12159

(7) Prep QC Batch: N:MP53399

(a) Analysis performed at Accutest Laboratories, Dayton, NJ.

RL = Reporting Limit

Report of Analysis

Client Sample ID:	CO1@0.5'	Date Sampled:	06/21/10
Lab Sample ID:	T55003-1	Date Received:	06/23/10
Matrix:	SO - Soil	Percent Solids:	75.8
Project:	Specialty 4 BBC1011		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chromium, Hexavalent	< 2.6	2.6	mg/kg	1	06/25/10 09:00	KD	SW846 3060/7196A
Chromium, Trivalent ^a	28.9	3.4	mg/kg	1	06/25/10 22:29	NS	SW846 6010/7196A M
Solids, Percent	75.8		%	1	06/24/10	LA	SM 2540 G
Specific Conductivity	796	1.0	umhos/cm	1	06/25/10 12:00	KD	EPA 120.1
pH	10.32		su	1	06/24/10 10:40	LA	SW846 9045C

(a) Calculated as: (Chromium) - (Chromium, Hexavalent)

RL = Reporting Limit

Report of Analysis

Client Sample ID:	BG01@0.5'	Date Sampled:	06/21/10
Lab Sample ID:	T55003-2	Date Received:	06/23/10
Matrix:	SO - Soil	Percent Solids:	86.7
Project:	Specialty 4 BBC1011		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic ^a	4.1	0.56	mg/kg	5	06/28/10	06/29/10 ANJ	SW846 6020 ¹	SW846 3050B ²

(1) Instrument QC Batch: N:MA24547
(2) Prep QC Batch: N:MP53399

(a) Analysis performed at Accutest Laboratories, Dayton, NJ.

RL = Reporting Limit

Report of Analysis

Client Sample ID:	BG02@0.5'	Date Sampled:	06/21/10
Lab Sample ID:	T55003-3	Date Received:	06/23/10
Matrix:	SO - Soil	Percent Solids:	83.7
Project:	Specialty 4 BBC1011		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic ^a	7.0	0.62	mg/kg	5	06/28/10	06/29/10 ANJ	SW846 6020 ¹	SW846 3050B ²

(1) Instrument QC Batch: N:MA24547
(2) Prep QC Batch: N:MP53399

(a) Analysis performed at Accutest Laboratories, Dayton, NJ.

RL = Reporting Limit

Report of Analysis

Client Sample ID:	BG03@0.5'	Date Sampled:	06/21/10
Lab Sample ID:	T55003-4	Date Received:	06/23/10
Matrix:	SO - Soil	Percent Solids:	78.3
Project:	Specialty 4 BBC1011		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic ^a	4.9	0.62	mg/kg	5	06/28/10	06/29/10 ANJ	SW846 6020 ¹	SW846 3050B ²

(1) Instrument QC Batch: N:MA24547
(2) Prep QC Batch: N:MP53399

(a) Analysis performed at Accutest Laboratories, Dayton, NJ.

RL = Reporting Limit



Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody



PAGE 1 OF 1

[illegible]

T55003: Chain of Custody

Page 1 of 3

SAMPLE INSPECTION FORM

Accutest Job Number: T55003 Client: LT ENVironmental Date/Time Received: 6-23-10 0915
 # of Coolers Received: 1 Thermometer #: IR-1 Temperature Adjustment Factor: +0.40C
 Cooler Temps: #1: 4.4°C #2: _____ #3: _____ #4: _____ #5: _____ #6: _____ #7: _____ #8: _____
 Method of Delivery: REDEX UPS Accutest Courier Greyhound Delivery Other
 Airbill Numbers: 8700 9644 9577

COOLER INFORMATION

- ☐ Custody seal missing or not intact
☐ Temperature criteria not met
☐ Wet ice received in cooler

CHAIN OF CUSTODY

- ☐ Chain of Custody not received
☐ Sample D/T unclear or missing
☐ Analyses unclear or missing
☐ COC not properly executed

SAMPLE INFORMATION

- ☐ Sample containers received broken
☐ VOC vials have headspace
☐ Sample labels missing or illegible
☐ ID on COC does not match label(s)
☐ D/T on COC does not match label(s)
☐ Sample/Bottles rcvd but no analysis on COC
☐ Sample listed on COC, but not received
☐ Bottles missing for requested analysis
☐ Insufficient volume for analysis
☐ Sample received improperly preserved

TRIP BLANK INFORMATION

- ☐ Trip Blank on COC but not received
☐ Trip Blank received but not on COC
☐ Trip Blank not intact
☐ Received Water Trip Blank
☐ Received Soil TB

Number of Encores? _____
 Number of 5035 kits? _____
 Number of lab-filtered metals? _____

Summary of Discrepancies:

Bagged samples have water infiltration from cooler. Bags have standing water in them.

TECHNICIAN SIGNATURE/DATE: Danice Huddleston 6-23-10

INFORMATION AND SAMPLE LABELING VERIFIED BY: EC 6-23-10

CORRECTIVE ACTIONS

Client Representative Notified: _____ Date: _____

By Accutest Representative: _____ Via: Phone Email

Client Instructions:

T55003: Chain of Custody

Page 2 of 3

SAMPLE RECEIPT LOG

T 55003

0915

LT Environmental

INITIALS: DRA

3.1

LOCATION: 4. Wall: 1. #1 CM () 2. 1M "1" 3. 1M "1" 4. 1M "1" 5. 1M "1"

Page 3 of 3



GC Volatiles

QC Data Summaries

Includes the following where applicable:

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

Method Blank Summary

Job Number: T55003
Account: LTENCOR LT Environmental
Project: Specialty 4 BBC1011

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GBB17-MB	BB0000316.DI		06/24/10	LB	n/a	n/a	GBB17

The QC reported here applies to the following samples: Method: OA-1

T55003-1

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	5.0	0.32	mg/kg	

CAS No.	Surrogate Recoveries	Limits	
460-00-4	4-Bromofluorobenzene	96%	46-127%
98-08-8	aaa-Trifluorotoluene	105%	44-120%

Blank Spike Summary

Job Number: T55003
Account: LTENCOR LT Environmental
Project: Specialty 4 BBC1011

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GBB17-BS	BB0000314.D1		06/24/10	LB	n/a	n/a	GBB17

The QC reported here applies to the following samples: Method: OA-1

T55003-1

CAS No.	Compound	Spike mg/kg	BSP mg/kg	BSP %	Limits
	TPH-GRO (C6-C10)	0.4	0.381	95	76-109

CAS No.	Surrogate Recoveries	BSP	Limits
460-00-4	4-Bromofluorobenzene	98%	46-127%
98-08-8	aaa-Trifluorotoluene	112%	44-120%

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: T55003
Account: LTENCOR LT Environmental
Project: Specialty 4 BBC1011

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
T55017-8MS	BB0000338.DI		06/24/10	LB	n/a	n/a	GBB17
T55017-8MSD	BB0000339.DI		06/24/10	LB	n/a	n/a	GBB17
T55017-8	BB0000334.DI		06/24/10	LB	n/a	n/a	GBB17

The QC reported here applies to the following samples:

Method: SW846 8015

T55003-1

CAS No.	Compound	T55017-8 mg/kg	Q	Spike mg/kg	MS mg/kg	MS %	MSD mg/kg	MSD %	RPD	Limits Rec/RPD
	TPH-GRO (C6-C10)	0.717	J	18.8	19.0	97	18.5	95	3	78-115/14

CAS No.	Surrogate Recoveries	MS	MSD	T55017-8	Limits
460-00-4	4-Bromofluorobenzene	100%	99%	96%	46-127%
98-08-8	aaa-Trifluorotoluene	109%	112%	105%	44-120%



GC Semi-volatiles

5

QC Data Summaries

Includes the following where applicable:

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

Method Blank Summary

Job Number: T55003
Account: LTENCOR LT Environmental
Project: Specialty 4 BBC1011

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP15205-MB	IF198984.D	1	06/28/10	EM	06/25/10	OP15205	GIF1043

The QC reported here applies to the following samples: Method: SW846 8015 M

T55003-1

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C28)	ND	3.3	2.7	mg/kg	

CAS No.	Surrogate Recoveries	Limits
84-15-1	o-Terphenyl	89% 33-115%

Blank Spike Summary

Job Number: T55003
Account: LTENCOR LT Environmental
Project: Specialty 4 BBC1011

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP15205-BS	IF198991.D	1	06/28/10	EM	06/25/10	OP15205	GIB1043

The QC reported here applies to the following samples:

Method: SW846 8015 M

T55003-1

CAS No.	Compound	Spike mg/kg	BSP mg/kg	BSP %	Limits
	TPH (C10-C28)	33.3	20.2	61	45-107

CAS No.	Surrogate Recoveries	BSP	Limits
84-15-1	o-Terphenyl	72%	33-115%

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: T55003
Account: LTENCOR LT Environmental
Project: Specialty 4 BBC1011

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP15205-MS	IF198992.D	1	06/28/10	EM	06/25/10	OP15205	GIF1043
OP15205-MSD	IF198993.D	1	06/28/10	EM	06/25/10	OP15205	GIB1043
T55060-3	IF198996.D	1	06/28/10	EM	06/25/10	OP15205	GIF1043

The QC reported here applies to the following samples:

Method: SW846 8015 M

T55003-1

CAS No.	Compound	T55060-3 mg/kg	Q	Spike mg/kg	MS mg/kg	MS %	MSD mg/kg	MSD %	RPD	Limits Rec/RPD
	TPH (C10-C28)	ND		40.9	27.5	67	27.2	66	1	45-107/34

CAS No.	Surrogate Recoveries	MS	MSD	T55060-3	Limits
84-15-1	o-Terphenyl	82%	72%	79%	33-115%



Metals Analysis

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: T55003
Account: LTENCOR - LT Environmental
Project: Specialty 4 BBC1011

QC Batch ID: MP12134
Matrix Type: SOLID

Methods: SW846 6010B
Units: mg/kg

Prep Date: 06/24/10

Metal	RL	IDL	MDL	MB raw	final
Aluminum	10	.82	2.2		
Antimony	0.50	.11	.14		
Arsenic	0.50	.089	.1		
Barium	10	.007	.03	-0.00050	<10
Beryllium	0.25	.0055	.01		
Boron	5.0	.054	.11		
Cadmium	0.25	.013	.05	0.0040	<0.25
Calcium	250	.27	.86		
Chromium	0.50	.055	.035		
Cobalt	2.5	.025	.09		
Copper	1.3	.029	.065	-0.016	<1.3
Iron	5.0	.65	1.1		
Lead	0.50	.079	.2	0.013	<0.50
Magnesium	250	.34	.58		
Manganese	0.75	.01	.035		
Molybdenum	0.50	.048	.075		
Nickel	2.0	.048	.065	0.0035	<2.0
Potassium	250	2.7	16		
Selenium	0.50	.16	.12	0.0	<0.50
Silver	0.50	.043	.04	0.0020	<0.50
Sodium	250	6.5	13		
Strontium	1.0	.0085	.025		
Thallium	0.50	.16	.25		
Tin	1.0	.09	.12		
Titanium	1.0	.015	.045		
Vanadium	2.5	.03	.06		
Zinc	1.0	.025	.2	0.018	<1.0

Associated samples MP12134: T55003-1

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: T55003
 Account: LTENCOR - LT Environmental
 Project: Specialty 4 BBC1011

QC Batch ID: MP12134
 Matrix Type: SOLID

Methods: SW846 6010B
 Units: mg/kg

Prep Date:

06/24/10

06/24/10

Metal	T54917-1 Original	DUP	RPD	QC Limits	T54917-1 Original	MS	Spikelot MPTW4	% Rec	QC Limits
Aluminum									
Antimony	anr								
Arsenic	anr								
Barium	121	132	8.7	0-20	121	136	29.6	50.7 (a)	80-120
Beryllium	anr								
Boron									
Cadmium	0.20	0.21	4.9	0-20	0.20	26.2	29.6	88.0	80-120
Calcium									
Chromium	anr								
Cobalt									
Copper	8.3	8.9	7.0	0-20	8.3	36.5	29.6	95.4	80-120
Iron									
Lead	9.5	10.4	9.0	0-20	9.5	36.8	29.6	92.3	80-120
Magnesium									
Manganese									
Molybdenum	anr								
Nickel	8.3	8.9	7.0	0-20	8.3	33.7	29.6	85.9	80-120
Potassium	anr								
Selenium	0.38	0.33	14.1	0-20	0.38	26.2	29.6	87.3	80-120
Silver	0.0	0.0	NC	0-20	0.0	28.7	29.6	97.1	80-120
Sodium									
Strontium									
Thallium									
Tin									
Titanium									
Vanadium									
Zinc	34.0	39.1	14.0	0-20	34.0	63.1	29.6	98.4	80-120

Associated samples MP12134: T55003-1

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

(a) Spike amount low relative to the sample amount. Refer to lab control or spike blank for recovery information.

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: T55003
Account: LTENCOR - LT Environmental
Project: Specialty 4 BBC1011

QC Batch ID: MP12134
Matrix Type: SOLID

Methods: SW846 6010B
Units: mg/kg

Prep Date: 06/24/10

Metal	T54917-1 Original	MSD	Spikelot MPTW4	% Rec	MSD RPD	QC Limit
Aluminum						
Antimony						
Arsenic	anr					
Barium	121	154	28.4	116.2	12.4	20
Beryllium	anr					
Boron						
Cadmium	0.20	25.3	28.4	88.4	3.5	20
Calcium						
Chromium	anr					
Cobalt						
Copper	8.3	36.5	28.4	99.3	0.0	20
Iron						
Lead	9.5	36.6	28.4	95.4	0.5	20
Magnesium						
Manganese						
Molybdenum	anr					
Nickel	8.3	33.4	28.4	88.4	0.9	20
Potassium	anr					
Selenium	0.38	25.2	28.4	87.4	3.9	20
Silver	0.0	27.3	28.4	96.1	5.0	20
Sodium						
Strontium						
Thallium						
Tin						
Titanium						
Vanadium						
Zinc	34.0	66.5	28.4	114.5	5.2	20

Associated samples MP12134: T55003-1

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: T55003
 Account: LTENCOR - LT Environmental
 Project: Specialty 4 BBC1011

QC Batch ID: MP12134
 Matrix Type: SOLID

Methods: SW846 6010B
 Units: mg/kg

Prep Date: 06/24/10

Metal	LCS Result	Spikelot MPLCD054	% Rec	QC Limits
Aluminum				
Antimony	anr			
Arsenic	anr			
Barium	356	348	102.3	81-119
Beryllium	anr			
Boron				
Cadmium	174	187	93.0	82-118
Calcium				
Chromium	anr			
Cobalt				
Copper	123	129	95.3	84-117
Iron				
Lead	152	172	88.4	79-120
Magnesium				
Manganese				
Molybdenum	anr			
Nickel	92.6	99	93.5	81-119
Potassium	anr			
Selenium	136	148	91.9	78-121
Silver	60.3	66	91.4	66-134
Sodium				
Strontium				
Thallium				
Tin				
Titanium				
Vanadium				
Zinc	355	394	90.1	80-119

Associated samples MP12134: T55003-1

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

SERIAL DILUTION RESULTS SUMMARY

Login Number: T55003
Account: LTENCOR - LT Environmental
Project: Specialty 4 BBC1011

QC Batch ID: MP12134
Matrix Type: SOLID

Methods: SW846 6010B
Units: ug/l

Prep Date: 06/24/10

Metal	T54917-1 Original	SDL 1:5	%DIF	QC Limits
Aluminum				
Antimony				
Arsenic	anr			
Barium	1770	1860	4.8	0-10
Beryllium	anr			
Boron				
Cadmium	2.89	3.24	12.1 (a)	0-10
Calcium				
Chromium	anr			
Cobalt				
Copper	122	122	0.6	0-10
Iron				
Lead	139	149	7.7	0-10
Magnesium				
Manganese				
Molybdenum	anr			
Nickel	121	132	9.3	0-10
Potassium	anr			
Selenium	5.57	0.00	100.0(a)	0-10
Silver	0.00	0.00	NC	0-10
Sodium				
Strontium				
Thallium				
Tin				
Titanium				
Vanadium				
Zinc	498	546	9.6	0-10

Associated samples MP12134: T55003-1

Results < IDL are shown as zero for calculation purposes

(*) Outside of QC limits

(anr) Analyte not requested

(a) Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: T55003
Account: LTENCOR - LT Environmental
Project: Specialty 4 BBC1011

QC Batch ID: MP12159
Matrix Type: SOLID

Methods: SW846 7471A
Units: mg/kg

Prep Date: 06/28/10

Metal	RL	IDL	MDL	MB	
				raw	final

Mercury	0.017	.0041	.00066	0.00083	<0.017
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Associated samples MP12159: T55003-1

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: T55003
 Account: LTENCOR - LT Environmental
 Project: Specialty 4 BBC1011

QC Batch ID: MP12159
 Matrix Type: SOLID

Methods: SW846 7471A
 Units: mg/kg

Prep Date: 06/28/10 06/28/10

Metal	T54917-1		QC	T54917-1		Spikelot	% Rec	QC
	Original	DUP	RPD	Original	MS	HGTXWS1		Limits
Mercury	0.010	0.013	26.1 (a)	0-20	0.010 0.32	0.299	103.8	75-125

Associated samples MP12159: T55003-1

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

(a) RPD acceptable due to low duplicate and sample concentrations.

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: T55003
 Account: LTENCOR - LT Environmental
 Project: Specialty 4 BBC1011

QC Batch ID: MP12159
 Matrix Type: SOLID

Methods: SW846 7471A
 Units: mg/kg

Prep Date: 06/28/10

Metal	T54917-1 Original MSD	Spikelot HGTXWS1	% Rec	MSD RPD	QC Limit
-------	--------------------------	---------------------	-------	------------	-------------

Mercury	0.010	0.30	0.298	97.3	6.5
---------	-------	------	-------	------	-----

Associated samples MP12159: T55003-1

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

6.2.2

6

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: T55003
 Account: LTENCOR - LT Environmental
 Project: Specialty 4 BBC1011

QC Batch ID: MP12159
 Matrix Type: SOLID

Methods: SW846 7471A
 Units: mg/kg

Prep Date: 06/28/10

Metal	LCS Result	Spikelot HGLCD054 % Rec	QC Limits
-------	---------------	----------------------------	--------------

Mercury	7.0	7.34	95.4	72-128
---------	-----	------	------	--------

Associated samples MP12159: T55003-1

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

6.2.3

6



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: T55003
Account: LTENCOR - LT Environmental
Project: Specialty 4 BBC1011

Analyte	Batch ID	RL	MB Result	Units	Spike Amount	BSP Result	BSP %Recov	QC Limits
Chromium, Hexavalent	GN23689	2.0	<2.0	mg/kg	40	38.6	96.6	80-120%
Specific Conductivity	GN23724	1.0	<1.0	umhos/cm				

Associated Samples:
Batch GN23689: T55003-1
Batch GN23724: T55003-1
(*) Outside of QC limits

DUPLICATE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: T55003
Account: LTENCOR - LT Environmental
Project: Specialty 4 BBC1011

Analyte	Batch ID	QC Sample	Units	Original Result	DUP Result	RPD	QC Limits
Chromium, Hexavalent	GN23689	T55002-1	mg/kg	<2.6	<2.6	14.6	0-20%
Solids, Percent	GN23699	T54569-6	%	1.3	1.3	0.0	0-5%
Specific Conductivity	GN23724	T55002-1	umhos/cm	811	812	0.1	0-20%
pH	GN23703	T55002-1	su	9.33	9.38	0.5	0-20%

Associated Samples:

Batch GN23689: T55003-1

Batch GN23699: T55003-1

Batch GN23703: T55003-1

Batch GN23724: T55003-1

(*) Outside of QC limits

MATRIX SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: T55003
Account: LTENCOR - LT Environmental
Project: Specialty 4 BBC1011

Analyte	Batch ID	QC Sample	Units	Original Result	Spike Amount	MS Result	%Rec	QC Limits
Chromium, Hexavalent	GN23689	T55002-1	mg/kg	<2.6	53.98mg/kg	51.7	92.8	75-125%

Associated Samples:
Batch GN23689: T55003-1
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits



Misc. Forms

Custody Documents and Other Forms

(Accutest New Jersey)

Includes the following where applicable:

- Chain of Custody

SUBCONTRACT COC

Page 1 of 1

10165 Harwin, Suite 150 - Houston, TX 77036 - 713-271-4700 fax: 713-271-4770

[illegible]

T55003: Chain of Custody

Page 1 of 2

Accutest New Jersey



Accutest Laboratories Sample Receipt Summary

Accutest Job Number: T55003

Client:

Immediate Client Services Action Required: No

Date / Time Received: 6/25/2010

Delivery Method:

Client Service Action Required at Login: No

Project:

No. Coolers: 1

Airbill #'s:

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"/> | <input checked="" type="checkbox"/> |
| 2. Trip Blank listed on COC: | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" 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 recvd 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

Accutest Laboratories
V: 732.329.0200

2235 US Highway 130
F: 732.329.3499

Dayton, New Jersey
www.accutest.com

T55003: Chain of Custody
Page 2 of 2



Metals Analysis

QC Data Summaries

(Accutest New Jersey)

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: T55003
Account: ALGC - Accutest Laboratories Gulf Coast, Inc.
Project: LTENCOR: Specialty 4 BBC1011

QC Batch ID: MP53399
Matrix Type: SOLID

Methods: SW846 6020
Units: mg/kg

Prep Date: 06/28/10

Metal	RL	IDL	MDL	MB raw	final
Aluminum	25	1.1	.52		
Antimony	0.25	.0085	.022		
Arsenic	0.50	.061	.11	0.048	<0.50
Barium	0.50	.017	.038		
Beryllium	0.25	.013	.03		
Boron	2.5	.29	.25		
Cadmium	0.25	.01	.016		
Calcium	130	12	3.1		
Chromium	2.0	.037	.29		
Cobalt	0.25	.004	.016		
Copper	2.0	.024	.036		
Iron	25	3.5	1.9		
Lead	0.25	.0055	.012		
Magnesium	130	1.2	1.4		
Manganese	0.25	.036	.02		
Molybdenum	0.50	.071	.096		
Nickel	2.0	.027	.026		
Potassium	130	2.5	3.9		
Selenium	0.50	.042	.058		
Silver	1.0	.0065	.022		
Sodium	130	5.9	1.3		
Strontium	0.50	.013	.0082		
Thallium	0.25	.012	.0051		
Tin	0.50	.039			
Titanium	0.50	.04	.27		
Uranium	0.50				
Vanadium	2.0	.24	.79		
Zinc	2.0	.25	.91		

Associated samples MP53399: T55003-1, T55003-2, T55003-3, T55003-4

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: T55003
 Account: ALGC - Accutest Laboratories Gulf Coast, Inc.
 Project: LTENCOR: Specialty 4 BBC1011

QC Batch ID: MP53399
 Matrix Type: SOLID

Methods: SW846 6020
 Units: mg/kg

Prep Date: 06/28/10

Metal	T55002-3 Original MS	Spikelot MPIRS1	% Rec	QC Limits
Aluminum				
Antimony				
Arsenic	3.2	429	401	106.2
Barium				
Beryllium				
Boron				
Cadmium				
Calcium				
Chromium				
Cobalt				
Copper				
Iron				
Lead				
Magnesium				
Manganese				
Molybdenum				
Nickel				
Potassium				
Selenium				
Silver				
Sodium				
Strontium				
Thallium				
Tin				
Titanium				
Uranium				
Vanadium				
Zinc				

Associated samples MP53399: T55003-1, T55003-2, T55003-3, T55003-4

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: T55003
 Account: ALGC - Accutest Laboratories Gulf Coast, Inc.
 Project: LTENCOR: Specialty 4 BBC1011

QC Batch ID: MP53399
 Matrix Type: SOLID

Methods: SW846 6020
 Units: mg/kg

Prep Date: 06/28/10

Metal	T55002-3 Original	MSD	Spikelot MPIRS1	% Rec	MSD RPD	QC Limit
Aluminum						
Antimony						
Arsenic	3.2	458	426	106.8	6.5	20
Barium						
Beryllium						
Boron						
Cadmium						
Calcium						
Chromium						
Cobalt						
Copper						
Iron						
Lead						
Magnesium						
Manganese						
Molybdenum						
Nickel						
Potassium						
Selenium						
Silver						
Sodium						
Strontium						
Thallium						
Tin						
Titanium						
Uranium						
Vanadium						
Zinc						

Associated samples MP53399: T55003-1, T55003-2, T55003-3, T55003-4

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: T55003

Account: ALGC - Accutest Laboratories Gulf Coast, Inc.

Project: LTENCOR: Specialty 4 BBC1011

QC Batch ID: MP53399

Methods: SW846 6020

Matrix Type: SOLID

Units: mg/kg

Prep Date:

06/28/10

Metal	BSP Result	Spikelot MPIRS1	% Rec	QC Limits
Aluminum				
Antimony				
Arsenic	408	400	102.0	80-120
Barium				
Beryllium				
Boron				
Cadmium				
Calcium				
Chromium				
Cobalt				
Copper				
Iron				
Lead				
Magnesium				
Manganese				
Molybdenum				
Nickel				
Potassium				
Selenium				
Silver				
Sodium				
Strontium				
Thallium				
Tin				
Titanium				
Uranium				
Vanadium				
Zinc				

Associated samples MP53399: T55003-1, T55003-2, T55003-3, T55003-4

Results < IDL are shown as zero for calculation purposes

(*) Outside of QC limits

(anr) Analyte not requested

9.1.3

9

SERIAL DILUTION RESULTS SUMMARY

Login Number: T55003
 Account: ALGC - Accutest Laboratories Gulf Coast, Inc.
 Project: LTENCOR: Specialty 4 BBC1011

QC Batch ID: MP53399
 Matrix Type: SOLID

Methods: SW846 6020
 Units: ug/l

Prep Date: 06/28/10

Metal	T55002-3			QC	
	Original	SDL 5:25	%DIF	Limits	
Aluminum					
Antimony					
Arsenic	32.3	33.5	3.9	0-10	
Barium					
Beryllium					
Boron					
Cadmium					
Calcium					
Chromium					
Cobalt					
Copper					
Iron					
Lead					
Magnesium					
Manganese					
Molybdenum					
Nickel					
Potassium					
Selenium					
Silver					
Sodium					
Strontium					
Thallium					
Tin					
Titanium					
Uranium					
Vanadium					
Zinc					

Associated samples MP53399: T55003-1, T55003-2, T55003-3, T55003-4

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



14-Mar-2013

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

Re: **027313007 Specialty 2-4 3/6/13**

Work Order: **1303208**

Dear Jake,

ALS Environmental received 2 samples on 07-Mar-2013 09:45 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.

QC sample results for this data met 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 28.

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

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

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RIGHT SOLUTIONS RIGHT PARTNER

Client: LT Environmental, Inc
Project: 027313007 Specialty 2-4 3/6/13
Work Order: 1303208

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>
1303208-01	PS01@19'BGS	Soil		3/6/2013 09:30	3/7/2013 09:45	<input type="checkbox"/>
1303208-02	PS02@18`BGS	Soil		3/6/2013 09:35	3/7/2013 09:45	<input type="checkbox"/>

ALS Group USA, Corp

Date: 14-Mar-13

Client: LT Environmental, Inc
Project: 027313007 Specialty 2-4 3/6/13
Work Order: 1303208

Case Narrative

Batch 46789 MS/MSD data for Metals is not related to this project's samples. No data requires qualification.

Batch 46808 MS/MSD data for PAHs is not related to this project's samples. No data requires qualification.

Client: LT Environmental, Inc
Project: 027313007 Specialty 2-4 3/6/13
WorkOrder: 1303208

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
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
MBLK	Method Blank
MDL	Method Detection Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
RPD	Relative Percent Difference
TDL	Target Detection Limit

<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
mhoh/cm @25°	Microhms-Centimeter at 25 Degrees Fahrenheit
none	
s.u.	Standard Units

ALS Group USA, Corp

Date: 14-Mar-13

Client: LT Environmental, Inc
Project: 027313007 Specialty 2-4 3/6/13
Sample ID: PS01@19'BGS
Collection Date: 3/6/2013 09:30 AM

Work Order: 1303208
Lab ID: 1303208-01
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID						
DRO (C10-C28)	7.2		SW8015M		Prep Date: 3/11/2013	Analyst: CW
			4.4	mg/Kg-dry	1	3/12/2013 02:42 AM
Surr: 4-Terphenyl-d14	56.8		39-115	%REC	1	3/12/2013 02:42 AM
GASOLINE RANGE ORGANICS BY GC-FID						
GRO (C6-C10)	ND		SW8015		Prep Date: 3/11/2013	Analyst: CW
			2,700	µg/Kg-dry	50	3/7/2013 04:16 PM
Surr: Toluene-d8	113		50-150	%REC	50	3/7/2013 04:16 PM
MERCURY BY CVAA						
Mercury	0.033		SW7471		Prep Date: 3/12/2013	Analyst: LR
			0.016	mg/Kg-dry	1	3/12/2013 01:57 PM
METALS BY ICP-MS						
Arsenic	3.1		SW6020A		Prep Date: 3/8/2013	Analyst: CES
			0.77	mg/Kg-dry	2	3/8/2013 11:14 PM
Barium	510		3.8	mg/Kg-dry	10	3/11/2013 01:36 PM
Cadmium	0.35		0.31	mg/Kg-dry	2	3/8/2013 11:14 PM
Chromium	12		0.77	mg/Kg-dry	2	3/8/2013 11:14 PM
Copper	14		0.77	mg/Kg-dry	2	3/8/2013 11:14 PM
Lead	15		0.77	mg/Kg-dry	2	3/8/2013 11:14 PM
Nickel	15		0.77	mg/Kg-dry	2	3/8/2013 11:14 PM
Selenium	0.82		0.77	mg/Kg-dry	2	3/8/2013 11:14 PM
Silver	ND		0.77	mg/Kg-dry	2	3/8/2013 11:14 PM
Zinc	57		1.5	mg/Kg-dry	2	3/8/2013 11:14 PM
SOLUBLE CATIONS FOR SAR						
Calcium	620		SW6020A		Prep Date: 3/11/2013	Analyst: CES
			5.3	mg/L-dry	10	3/11/2013 01:41 PM
Magnesium	230		2.1	mg/L-dry	10	3/11/2013 01:41 PM
Sodium	1,800		2.1	mg/L-dry	10	3/11/2013 01:41 PM
SODIUM ADSORPTION RATIO						
Sodium Adsorption Ratio	15		USDA H60 METHO		Prep Date: 3/7/2013	Analyst: CES
			0.010	none	1	3/11/2013
SEMI-VOLATILE ORGANIC COMPOUNDS						
Acenaphthene	ND		SW8270		Prep Date: 3/11/2013	Analyst: HL
			32	µg/Kg-dry	1	3/13/2013 01:49 AM
Anthracene	ND		32	µg/Kg-dry	1	3/13/2013 01:49 AM
Benzo(a)anthracene	ND		16	µg/Kg-dry	1	3/13/2013 01:49 AM
Benzo(a)pyrene	ND		19	µg/Kg-dry	1	3/13/2013 01:49 AM
Benzo(b)fluoranthene	ND		21	µg/Kg-dry	1	3/13/2013 01:49 AM
Benzo(k)fluoranthene	ND		19	µg/Kg-dry	1	3/13/2013 01:49 AM
Chrysene	ND		21	µg/Kg-dry	1	3/13/2013 01:49 AM
Dibenzo(a,h)anthracene	ND		19	µg/Kg-dry	1	3/13/2013 01:49 AM
Fluoranthene	ND		32	µg/Kg-dry	1	3/13/2013 01:49 AM
Fluorene	ND		32	µg/Kg-dry	1	3/13/2013 01:49 AM
Indeno(1,2,3-cd)pyrene	ND		21	µg/Kg-dry	1	3/13/2013 01:49 AM

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

ALS Group USA, Corp

Date: 14-Mar-13

Client: LT Environmental, Inc

Project: 027313007 Specialty 2-4 3/6/13

Sample ID: PS01@19BGS

Collection Date: 3/6/2013 09:30 AM

Work Order: 1303208

Lab ID: 1303208-01

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Naphthalene	ND		11	µg/Kg-dry	1	3/13/2013 01:49 AM
Pyrene	ND		32	µg/Kg-dry	1	3/13/2013 01:49 AM
Surr: 2-Fluorobiphenyl	75.8		12-100	%REC	1	3/13/2013 01:49 AM
Surr: 4-Terphenyl-d14	104		25-137	%REC	1	3/13/2013 01:49 AM
Surr: Nitrobenzene-d5	75.4		37-107	%REC	1	3/13/2013 01:49 AM
VOLATILE ORGANIC COMPOUNDS			SW8260		Prep Date: 3/7/2013	Analyst: RS
Benzene	ND		32	µg/Kg-dry	1	3/8/2013 11:21 PM
Ethylbenzene	ND		32	µg/Kg-dry	1	3/8/2013 11:21 PM
m,p-Xylene	ND		64	µg/Kg-dry	1	3/8/2013 11:21 PM
o-Xylene	ND		32	µg/Kg-dry	1	3/8/2013 11:21 PM
Toluene	ND		32	µg/Kg-dry	1	3/8/2013 11:21 PM
Xylenes, Total	ND		96	µg/Kg-dry	1	3/8/2013 11:21 PM
Surr: 1,2-Dichloroethane-d4	97.8		70-130	%REC	1	3/8/2013 11:21 PM
Surr: 4-Bromofluorobenzene	95.6		70-130	%REC	1	3/8/2013 11:21 PM
Surr: Dibromofluoromethane	92.9		70-130	%REC	1	3/8/2013 11:21 PM
Surr: Toluene-d8	96.5		70-130	%REC	1	3/8/2013 11:21 PM
ELECTRICAL CONDUCTIVITY (SAR)			USDA H60 METHO		Prep Date: 3/7/2013	Analyst: JB
Electrical Conductivity @ Saturation	11		0.010	mmhos/cm @25	2	3/13/2013 11:00 AM
CHROMIUM, TRIVALENT			CALCULATION			Analyst: JJG
Chromium, Trivalent	12		0.53	mg/Kg-dry	1	3/13/2013 08:13 AM
CHROMIUM, HEXAVALENT			SW7196A		Prep Date: 3/11/2013	Analyst: JB
Chromium, Hexavalent	ND		0.52	mg/Kg-dry	1	3/12/2013 03:00 PM
MOISTURE			A2540 G			Analyst: KF
Moisture	6.0		0.050	% of sample	1	3/8/2013 12:20 PM
PH			SW9045D			Analyst: JB
pH	9.27			s.u.	1	3/11/2013 09:00 AM

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

ALS Group USA, Corp

Date: 14-Mar-13

Client: LT Environmental, Inc
Project: 027313007 Specialty 2-4 3/6/13
Sample ID: PS02@18`BGS
Collection Date: 3/6/2013 09:35 AM

Work Order: 1303208
Lab ID: 1303208-02
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID						
DRO (C10-C28)	7.2		SW8015M		Prep Date: 3/11/2013	Analyst: CW
<i>Surr: 4-Terphenyl-d14</i>	<i>59.3</i>		<i>39-115</i>	<i>%REC</i>	<i>1</i>	<i>3/12/2013 03:08 AM</i>
GASOLINE RANGE ORGANICS BY GC-FID						
GRO (C6-C10)	ND		SW8015		Prep Date: 3/11/2013	Analyst: CW
<i>Surr: Toluene-d8</i>	<i>109</i>		<i>50-150</i>	<i>%REC</i>	<i>50</i>	<i>3/7/2013 04:41 PM</i>
MERCURY BY CVAA						
Mercury	ND		SW7471		Prep Date: 3/12/2013	Analyst: LR
			<i>0.019</i>	<i>mg/Kg-dry</i>	<i>1</i>	<i>3/12/2013 01:59 PM</i>
METALS BY ICP-MS						
Arsenic	4.2		SW6020A		Prep Date: 3/8/2013	Analyst: CES
Barium	270		<i>0.85</i>	<i>mg/Kg-dry</i>	<i>2</i>	<i>3/8/2013 11:20 PM</i>
Cadmium	ND		<i>0.85</i>	<i>mg/Kg-dry</i>	<i>2</i>	<i>3/8/2013 11:20 PM</i>
Chromium	13		<i>0.34</i>	<i>mg/Kg-dry</i>	<i>2</i>	<i>3/8/2013 11:20 PM</i>
Copper	17		<i>0.85</i>	<i>mg/Kg-dry</i>	<i>2</i>	<i>3/8/2013 11:20 PM</i>
Lead	13		<i>0.85</i>	<i>mg/Kg-dry</i>	<i>2</i>	<i>3/8/2013 11:20 PM</i>
Nickel	17		<i>0.85</i>	<i>mg/Kg-dry</i>	<i>2</i>	<i>3/8/2013 11:20 PM</i>
Selenium	0.88		<i>0.85</i>	<i>mg/Kg-dry</i>	<i>2</i>	<i>3/8/2013 11:20 PM</i>
Silver	ND		<i>0.85</i>	<i>mg/Kg-dry</i>	<i>2</i>	<i>3/8/2013 11:20 PM</i>
Zinc	65		<i>1.7</i>	<i>mg/Kg-dry</i>	<i>2</i>	<i>3/8/2013 11:20 PM</i>
SOLUBLE CATIONS FOR SAR						
Calcium	7.7		SW6020A		Prep Date: 3/11/2013	Analyst: CES
Magnesium	5.1		<i>5.8</i>	<i>mg/L-dry</i>	<i>10</i>	<i>3/11/2013 01:47 PM</i>
Sodium	1,000		<i>2.3</i>	<i>mg/L-dry</i>	<i>10</i>	<i>3/11/2013 01:47 PM</i>
SODIUM ADSORPTION RATIO						
Sodium Adsorption Ratio	64		USDA H60 METHO		Prep Date: 3/7/2013	Analyst: CES
			<i>0.010</i>	<i>none</i>	<i>1</i>	<i>3/11/2013</i>
SEMI-VOLATILE ORGANIC COMPOUNDS						
Acenaphthene	ND		SW8270		Prep Date: 3/11/2013	Analyst: RM
Anthracene	ND		<i>34</i>	<i>µg/Kg-dry</i>	<i>1</i>	<i>3/12/2013 04:25 PM</i>
Benzo(a)anthracene	ND		<i>34</i>	<i>µg/Kg-dry</i>	<i>1</i>	<i>3/12/2013 04:25 PM</i>
Benzo(a)pyrene	ND		<i>17</i>	<i>µg/Kg-dry</i>	<i>1</i>	<i>3/12/2013 04:25 PM</i>
Benzo(b)fluoranthene	ND		<i>20</i>	<i>µg/Kg-dry</i>	<i>1</i>	<i>3/12/2013 04:25 PM</i>
Benzo(k)fluoranthene	ND		<i>23</i>	<i>µg/Kg-dry</i>	<i>1</i>	<i>3/12/2013 04:25 PM</i>
Chrysene	ND		<i>20</i>	<i>µg/Kg-dry</i>	<i>1</i>	<i>3/12/2013 04:25 PM</i>
Dibenzo(a,h)anthracene	ND		<i>23</i>	<i>µg/Kg-dry</i>	<i>1</i>	<i>3/12/2013 04:25 PM</i>
Fluoranthene	ND		<i>20</i>	<i>µg/Kg-dry</i>	<i>1</i>	<i>3/12/2013 04:25 PM</i>
Fluorene	ND		<i>34</i>	<i>µg/Kg-dry</i>	<i>1</i>	<i>3/12/2013 04:25 PM</i>
Indeno(1,2,3-cd)pyrene	ND		<i>34</i>	<i>µg/Kg-dry</i>	<i>1</i>	<i>3/12/2013 04:25 PM</i>

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

ALS Group USA, Corp

Date: 14-Mar-13

Client: LT Environmental, Inc

Project: 027313007 Specialty 2-4 3/6/13

Sample ID: PS02@18`BGS

Collection Date: 3/6/2013 09:35 AM

Work Order: 1303208

Lab ID: 1303208-02

Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Naphthalene	ND		11	µg/Kg-dry	1	3/12/2013 04:25 PM
Pyrene	ND		34	µg/Kg-dry	1	3/12/2013 04:25 PM
Surr: 2-Fluorobiphenyl	69.8		12-100	%REC	1	3/12/2013 04:25 PM
Surr: 4-Terphenyl-d14	106		25-137	%REC	1	3/12/2013 04:25 PM
Surr: Nitrobenzene-d5	69.6		37-107	%REC	1	3/12/2013 04:25 PM
VOLATILE ORGANIC COMPOUNDS			SW8260		Prep Date: 3/7/2013	Analyst: RS
Benzene	ND		35	µg/Kg-dry	1	3/8/2013 11:46 PM
Ethylbenzene	ND		35	µg/Kg-dry	1	3/8/2013 11:46 PM
m,p-Xylene	ND		69	µg/Kg-dry	1	3/8/2013 11:46 PM
o-Xylene	ND		35	µg/Kg-dry	1	3/8/2013 11:46 PM
Toluene	ND		35	µg/Kg-dry	1	3/8/2013 11:46 PM
Xylenes, Total	ND		100	µg/Kg-dry	1	3/8/2013 11:46 PM
Surr: 1,2-Dichloroethane-d4	99.8		70-130	%REC	1	3/8/2013 11:46 PM
Surr: 4-Bromofluorobenzene	96.0		70-130	%REC	1	3/8/2013 11:46 PM
Surr: Dibromofluoromethane	94.8		70-130	%REC	1	3/8/2013 11:46 PM
Surr: Toluene-d8	98.9		70-130	%REC	1	3/8/2013 11:46 PM
ELECTRICAL CONDUCTIVITY (SAR)			USDA H60 METHO		Prep Date: 3/7/2013	Analyst: JB
Electrical Conductivity @ Saturation	4.6		0.025	mmhos/cm @25	5	3/13/2013 11:00 AM
CHROMIUM, TRIVALENT			CALCULATION			Analyst: JJG
Chromium, Trivalent	13		0.58	mg/Kg-dry	1	3/13/2013 08:13 AM
CHROMIUM, HEXAVALENT			SW7196A		Prep Date: 3/11/2013	Analyst: JB
Chromium, Hexavalent	ND		0.59	mg/Kg-dry	1	3/12/2013 03:00 PM
MOISTURE			A2540 G			Analyst: KF
Moisture	13		0.050	% of sample	1	3/8/2013 12:20 PM
PH			SW9045D			Analyst: JB
pH	9.47			s.u.	1	3/11/2013 09:00 AM

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

Client: LT Environmental, Inc

Work Order: 1303208

Project: 027313007 Specialty 2-4 3/6/13

QC BATCH REPORT

Batch ID: 46809

Instrument ID GC8

Method: SW8015M

MBLK		Sample ID: DBLKS1-46809-46809				Units: mg/Kg		Analysis Date: 3/11/2013 03:53 PM		
Client ID:		Run ID: GC8_130311A				SeqNo: 2234146		Prep Date: 3/11/2013		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	0.9333	0	1.667	0	56	39-115	0			

LCS		Sample ID: DLCSS1-46809-46809				Units: mg/Kg		Analysis Date: 3/11/2013 04:18 PM		
Client ID:		Run ID: GC8_130311A				SeqNo: 2234148		Prep Date: 3/11/2013		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	124.9	4.2	166.7	0	74.9	49-124	0			
Surr: 4-Terphenyl-d14	1.154	0	1.667	0	69.3	39-115	0			

MS		Sample ID: 1303210-12A MS				Units: mg/Kg		Analysis Date: 3/11/2013 04:43 PM		
Client ID:		Run ID: GC8_130311A				SeqNo: 2234149		Prep Date: 3/11/2013		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	481.1	12	491.9	137.4	69.9	49-130	0			
Surr: 4-Terphenyl-d14	3.124	0	4.919	0	63.5	39-115	0			

MSD		Sample ID: 1303210-12A MSD				Units: mg/Kg		Analysis Date: 3/11/2013 06:09 PM		
Client ID:		Run ID: GC8_130311A				SeqNo: 2234150		Prep Date: 3/11/2013		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	458.8	12	474.3	137.4	67.8	49-130	481.1	4.74	30	
Surr: 4-Terphenyl-d14	3.079	0	4.743	0	64.9	39-115	3.124	1.45	30	

The following samples were analyzed in this batch: | 1303208-01C | 1303208-02C |

Client: LT Environmental, Inc
 Work Order: 1303208
 Project: 027313007 Specialty 2-4 3/6/13

QC BATCH REPORT

Batch ID: **R117095** Instrument ID **GC10** Method: **SW8015**

MBLK		Sample ID: GBLK1-130307-R117095				Units: µg/L		Analysis Date: 3/7/2013 12:30 PM		
Client ID:		Run ID: GC10_130307A				SeqNo: 2231723		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	ND	200								
Surr: Toluene-d8	114.4	0	100	0	114	70-130	0			

LCS		Sample ID: GLCS1-130307-R117095				Units: µg/L		Analysis Date: 3/7/2013 12:05 PM		
Client ID:		Run ID: GC10_130307A				SeqNo: 2231722		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	8296	200	10000	0	83	70-130	0			
Surr: Toluene-d8	118.1	0	100	0	118	70-130	0			

MS		Sample ID: 1303162-01B MS				Units: µg/Kg		Analysis Date: 3/7/2013 07:09 PM		
Client ID:		Run ID: GC10_130307A				SeqNo: 2231742		Prep Date:		DF: 50
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	417700	2,500	500000	0	83.5	70-130	0			
Surr: Toluene-d8	5728	0	5000	0	115	50-150	0			

MSD		Sample ID: 1303162-01B MSD				Units: µg/Kg		Analysis Date: 3/7/2013 07:33 PM		
Client ID:		Run ID: GC10_130307A				SeqNo: 2231744		Prep Date:		DF: 50
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	394600	2,500	500000	0	78.9	70-130	417700	5.69	30	
Surr: Toluene-d8	5446	0	5000	0	109	50-150	5728	5.03	30	

The following samples were analyzed in this batch:

1303208-01A	1303208-02A
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Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: LT Environmental, Inc
Work Order: 1303208
Project: 027313007 Specialty 2-4 3/6/13

QC BATCH REPORT

Batch ID: **46844** Instrument ID **HG1** Method: **SW7471**

MBLK	Sample ID: MBLK-46844-46844					Units: mg/Kg		Analysis Date: 3/12/2013 01:53 PM		
Client ID:	Run ID: HG1_130312A				SeqNo: 2234916		Prep Date: 3/12/2013		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-46844-46844					Units: mg/Kg		Analysis Date: 3/12/2013 01:55 PM		
Client ID:	Run ID: HG1_130312A				SeqNo: 2234917		Prep Date: 3/12/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury 0.1911 0.020 0.1665 0 115 80-120 0

MS	Sample ID: 1303216-05BMS					Units: mg/Kg		Analysis Date: 3/12/2013 02:18 PM		
Client ID:	Run ID: HG1_130312A				SeqNo: 2234928		Prep Date: 3/12/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury 0.167 0.015 0.1271 0.0212 115 75-125 0

MSD	Sample ID: 1303216-05BMSD					Units: mg/Kg		Analysis Date: 3/12/2013 02:20 PM		
Client ID:	Run ID: HG1_130312A				SeqNo: 2234929		Prep Date: 3/12/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury 0.1737 0.017 0.1386 0.0212 110 75-125 0.167 3.95 35

The following samples were analyzed in this batch:

1303208-01B 1303208-02B

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

Client: LT Environmental, Inc
Work Order: 1303208
Project: 027313007 Specialty 2-4 3/6/13

QC BATCH REPORT

Batch ID: **46777** Instrument ID **ICPMS1** Method: **SW6020A** **(Dissolve)**

DUP		Sample ID: 1303208-02DDUP				Units: mg/L		Analysis Date: 3/11/2013 01:54 PM		
Client ID: PS02@18`BGS		Run ID: ICPMS1_130311A				SeqNo: 2233559		Prep Date: 3/11/2013		DF: 10
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Calcium	6.29	5.0	0	0	0	0-0	6.673	5.91		
Magnesium	4.467	2.0	0	0	0	0-0	4.447	0.449		
Sodium	792.3	2.0	0	0	0	0-0	864	8.66		

DUP		Sample ID: 1303208-02DDUP				Units: none		Analysis Date: 3/11/2013		
Client ID: PS02@18`BGS		Run ID: SAR_130311A				SeqNo: 2233648		Prep Date: 3/7/2013		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Sodium Adsorption Ratio	59.04	0.010	0	0	0		63.57	7.39	50	

The following samples were analyzed in this batch: | 1303208-01D 1303208-02D |

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

Client: LT Environmental, Inc
Work Order: 1303208
Project: 027313007 Specialty 2-4 3/6/13

QC BATCH REPORT

Batch ID: **46789** Instrument ID **ICPMS1** Method: **SW6020A**

MBLK		Sample ID: MBLK-46789-46789				Units: mg/Kg		Analysis Date: 3/8/2013 08:26 PM		
Client ID:		Run ID: ICPMS1_130308A				SeqNo: 2232726		Prep Date: 3/8/2013		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	ND	0.25								
Barium	ND	0.25								
Cadmium	ND	0.10								
Chromium	ND	0.25								
Copper	ND	0.25								
Lead	0.006925	0.25								J
Nickel	ND	0.25								
Selenium	ND	0.25								
Silver	ND	0.25								
Zinc	ND	0.50								

LCS		Sample ID: LCS-46789-46789				Units: mg/Kg		Analysis Date: 3/8/2013 08:32 PM		
Client ID:		Run ID: ICPMS1_130308A				SeqNo: 2232727		Prep Date: 3/8/2013		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	4.813	0.25	5	0	96.3	80-120	0			
Barium	5.05	0.25	5	0	101	80-120	0			
Cadmium	5.21	0.10	5	0	104	80-120	0			
Chromium	4.97	0.25	5	0	99.4	80-120	0			
Copper	4.91	0.25	5	0	98.2	80-120	0			
Lead	5.32	0.25	5	0	106	80-120	0			
Nickel	4.9	0.25	5	0	98	80-120	0			
Selenium	4.678	0.25	5	0	93.6	80-120	0			
Silver	5.17	0.25	5	0	103	80-120	0			
Zinc	4.896	0.50	5	0	97.9	80-120	0			

MS		Sample ID: 1303209-10AMS				Units: mg/Kg		Analysis Date: 3/8/2013 09:32 PM		
Client ID:		Run ID: ICPMS1_130308A				SeqNo: 2232737		Prep Date: 3/8/2013		DF: 4
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	20.98	1.5	7.728	14.17	88.2	75-125	0			
Barium	206	1.5	7.728	193.4	163	75-125	0			SO
Cadmium	10.45	0.62	7.728	2.876	98	75-125	0			
Chromium	90.39	1.5	7.728	82.89	97.1	75-125	0			O
Copper	124.1	1.5	7.728	117.1	90.5	75-125	0			O
Lead	169.7	1.5	7.728	163.4	81.5	75-125	0			O
Nickel	29.49	1.5	7.728	22.32	92.8	75-125	0			
Selenium	8.711	1.5	7.728	1.213	97	75-125	0			
Silver	9.391	1.5	7.728	2.117	94.1	75-125	0			
Zinc	370.3	3.1	7.728	363.8	83.8	75-125	0			O

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

Client: LT Environmental, Inc
Work Order: 1303208
Project: 027313007 Specialty 2-4 3/6/13

QC BATCH REPORT

Batch ID: **46789** Instrument ID **ICPMS1** Method: **SW6020A**

MSD		Sample ID: 1303209-10AMSD				Units: mg/Kg		Analysis Date: 3/8/2013 09:38 PM		
Client ID:		Run ID: ICPMS1_130308A				SeqNo: 2232738		Prep Date: 3/8/2013		DF: 4
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	20.26	1.5	7.657	14.17	79.5	75-125	20.98	3.5	25	
Barium	211.6	1.5	7.657	193.4	238	75-125	206	2.72	25	SO
Cadmium	10.41	0.61	7.657	2.876	98.4	75-125	10.45	0.333	25	
Chromium	90.11	1.5	7.657	82.89	94.3	75-125	90.39	0.309	25	O
Copper	127.3	1.5	7.657	117.1	134	75-125	124.1	2.58	25	SO
Lead	173.2	1.5	7.657	163.4	128	75-125	169.7	2.06	25	SO
Nickel	28.92	1.5	7.657	22.32	86.1	75-125	29.49	1.98	25	
Selenium	8.873	1.5	7.657	1.213	100	75-125	8.711	1.84	25	
Silver	9.479	1.5	7.657	2.117	96.1	75-125	9.391	0.936	25	
Zinc	374.6	3.1	7.657	363.8	140	75-125	370.3	1.14	25	SO

The following samples were analyzed in this batch: 1303208-01B 1303208-02B

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

Client: LT Environmental, Inc
 Work Order: 1303208
 Project: 027313007 Specialty 2-4 3/6/13

QC BATCH REPORT

Batch ID: **46808** Instrument ID **SVMS5** Method: **SW8270**

MBLK		Sample ID: SBLKS1-46808-46808				Units: µg/Kg		Analysis Date: 3/12/2013 01:12 PM		
Client ID:		Run ID: SVMS5_130312A				SeqNo: 2236253		Prep Date: 3/11/2013		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	ND	30								
Anthracene	ND	30								
Benzo(a)anthracene	ND	30								
Benzo(a)pyrene	ND	30								
Benzo(b)fluoranthene	ND	30								
Benzo(k)fluoranthene	ND	30								
Chrysene	ND	30								
Dibenzo(a,h)anthracene	ND	30								
Fluoranthene	ND	30								
Fluorene	ND	30								
Indeno(1,2,3-cd)pyrene	ND	30								
Naphthalene	ND	30								
Pyrene	ND	30								
Surr: 2-Fluorobiphenyl	1149	0	1667	0	68.9	12-100	0			
Surr: 4-Terphenyl-d14	1728	0	1667	0	104	25-137	0			
Surr: Nitrobenzene-d5	1196	0	1667	0	71.8	37-107	0			

LCS		Sample ID: SLCSS1-46808-46808				Units: µg/Kg		Analysis Date: 3/12/2013 11:04 AM		
Client ID:		Run ID: SVMS5_130312A				SeqNo: 2236249		Prep Date: 3/11/2013		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	537	30	666.7	0	80.5	45-110	0			
Anthracene	650	30	666.7	0	97.5	55-105	0			
Benzo(a)anthracene	601.3	30	666.7	0	90.2	50-110	0			
Benzo(a)pyrene	635.3	30	666.7	0	95.3	50-110	0			
Benzo(b)fluoranthene	640	30	666.7	0	96	45-115	0			
Benzo(k)fluoranthene	761.3	30	666.7	0	114	45-115	0			
Chrysene	727.3	30	666.7	0	109	55-110	0			
Dibenzo(a,h)anthracene	554.3	30	666.7	0	83.1	40-125	0			
Fluoranthene	712.7	30	666.7	0	107	55-115	0			
Fluorene	567	30	666.7	0	85	50-110	0			
Indeno(1,2,3-cd)pyrene	564.3	30	666.7	0	84.6	40-120	0			
Naphthalene	562	30	666.7	0	84.3	40-105	0			
Pyrene	782.7	30	666.7	0	117	45-125	0			
Surr: 2-Fluorobiphenyl	1272	0	1667	0	76.3	12-100	0			
Surr: 4-Terphenyl-d14	1916	0	1667	0	115	25-137	0			
Surr: Nitrobenzene-d5	1329	0	1667	0	79.7	37-107	0			

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

Client: LT Environmental, Inc
 Work Order: 1303208
 Project: 027313007 Specialty 2-4 3/6/13

QC BATCH REPORT

Batch ID: 46808 Instrument ID SVMS5 Method: SW8270

MS Sample ID: 1303210-12A MS				Units: µg/Kg			Analysis Date: 3/12/2013 11:36 AM			
Client ID:		Run ID: SVMS5_130312A		SeqNo: 2236250		Prep Date: 3/11/2013		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	1522	86	1901	0	80	45-110	0			
Anthracene	2158	86	1901	172.6	104	55-105	0			
Benzo(a)anthracene	3017	86	1901	980.6	107	50-110	0			
Benzo(a)pyrene	3100	86	1901	1221	98.8	50-110	0			
Benzo(b)fluoranthene	4476	86	1901	1847	138	45-115	0			S
Benzo(k)fluoranthene	2578	86	1901	690.4	99.3	45-115	0			
Chrysene	3586	86	1901	1303	120	55-110	0			S
Dibenzo(a,h)anthracene	1353	86	1901	204.8	60.4	40-125	0			
Fluoranthene	4418	86	1901	1903	132	55-115	0			S
Fluorene	1708	86	1901	0	89.8	50-110	0			
Indeno(1,2,3-cd)pyrene	1530	86	1901	422	58.3	40-120	0			
Naphthalene	1336	86	1901	0	70.3	40-105	0			
Pyrene	4117	86	1901	1837	120	45-125	0			
Surr: 2-Fluorobiphenyl	3174	0	4752	0	66.8	12-100	0			
Surr: 4-Terphenyl-d14	4906	0	4752	0	103	25-137	0			
Surr: Nitrobenzene-d5	2875	0	4752	0	60.5	37-107	0			

MSD Sample ID: 1303210-12A MSD				Units: µg/Kg			Analysis Date: 3/12/2013 12:08 PM			
Client ID:		Run ID: SVMS5_130312A		SeqNo: 2236251		Prep Date: 3/11/2013		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	1554	88	1954	0	79.5	45-110	1522	2.1	30	
Anthracene	2159	88	1954	172.6	102	55-105	2158	0.048	30	
Benzo(a)anthracene	2894	88	1954	980.6	98	50-110	3017	4.15	30	
Benzo(a)pyrene	3094	88	1954	1221	95.9	50-110	3100	0.197	30	
Benzo(b)fluoranthene	4537	88	1954	1847	138	45-115	4476	1.36	30	S
Benzo(k)fluoranthene	2829	88	1954	690.4	109	45-115	2578	9.28	30	
Chrysene	3486	88	1954	1303	112	55-110	3586	2.83	30	S
Dibenzo(a,h)anthracene	1368	88	1954	204.8	59.6	40-125	1353	1.1	30	
Fluoranthene	4121	88	1954	1903	114	55-115	4418	6.95	30	
Fluorene	1756	88	1954	0	89.9	50-110	1708	2.78	30	
Indeno(1,2,3-cd)pyrene	1372	88	1954	422	48.6	40-120	1530	10.9	30	
Naphthalene	1324	88	1954	0	67.7	40-105	1336	0.968	30	
Pyrene	4020	88	1954	1837	112	45-125	4117	2.39	30	
Surr: 2-Fluorobiphenyl	3255	0	4884	0	66.6	12-100	3174	2.52	40	
Surr: 4-Terphenyl-d14	5138	0	4884	0	105	25-137	4906	4.61	40	
Surr: Nitrobenzene-d5	2781	0	4884	0	56.9	37-107	2875	3.34	40	

The following samples were analyzed in this batch:

1303208-01C 1303208-02C

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

Client: LT Environmental, Inc
Work Order: 1303208
Project: 027313007 Specialty 2-4 3/6/13

QC BATCH REPORT

Batch ID: **46766** Instrument ID **VMS5** Method: **SW8260**

MBLK		Sample ID: MBLK-46766-46766				Units: µg/Kg		Analysis Date: 3/8/2013 10:31 AM		
Client ID:		Run ID: VMS5_130308A				SeqNo: 2232346		Prep Date: 3/7/2013		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	954	0	1000	0	95.4	70-130	0			
Surr: 4-Bromofluorobenzene	999.5	0	1000	0	100	70-130	0			
Surr: Dibromofluoromethane	973	0	1000	0	97.3	70-130	0			
Surr: Toluene-d8	970.5	0	1000	0	97	70-130	0			

MBLK		Sample ID: MBLK-46766-46766				Units: µg/Kg		Analysis Date: 3/8/2013 10:27 AM		
Client ID:		Run ID: VMS6_130308A				SeqNo: 2233614		Prep Date: 3/7/2013		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	981.5	0	1000	0	98.2	70-130	0			
Surr: 4-Bromofluorobenzene	975	0	1000	0	97.5	70-130	0			
Surr: Dibromofluoromethane	977	0	1000	0	97.7	70-130	0			
Surr: Toluene-d8	976.5	0	1000	0	97.6	70-130	0			

MBLK		Sample ID: MBLK-46766-46766				Units: µg/Kg		Analysis Date: 3/8/2013 10:57 PM		
Client ID:		Run ID: VMS6_130308B				SeqNo: 2234009		Prep Date: 3/7/2013		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	990	0	1000	0	99	70-130	0			
Surr: 4-Bromofluorobenzene	964.5	0	1000	0	96.4	70-130	0			
Surr: Dibromofluoromethane	971	0	1000	0	97.1	70-130	0			
Surr: Toluene-d8	972	0	1000	0	97.2	70-130	0			

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

Client: LT Environmental, Inc
Work Order: 1303208
Project: 027313007 Specialty 2-4 3/6/13

QC BATCH REPORT

Batch ID: **46766** Instrument ID **VMS5** Method: **SW8260**

MBLK		Sample ID: MBLK-46766-46766				Units: µg/Kg		Analysis Date: 3/11/2013 01:03 PM		
Client ID:		Run ID: VMS8_130311A				SeqNo: 2234111		Prep Date: 3/7/2013		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	1083	0	1000	0	108	70-130	0			
Surr: 4-Bromofluorobenzene	964	0	1000	0	96.4	70-130	0			
Surr: Dibromofluoromethane	997	0	1000	0	99.7	70-130	0			
Surr: Toluene-d8	1018	0	1000	0	102	70-130	0			

MBLK		Sample ID: MBLK-46766-46766				Units: µg/Kg		Analysis Date: 3/11/2013 10:55 AM		
Client ID:		Run ID: VMS6_130311A				SeqNo: 2234433		Prep Date: 3/7/2013		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	955.5	0	1000	0	95.6	70-130	0			
Surr: 4-Bromofluorobenzene	970	0	1000	0	97	70-130	0			
Surr: Dibromofluoromethane	956.5	0	1000	0	95.6	70-130	0			
Surr: Toluene-d8	962	0	1000	0	96.2	70-130	0			

MBLK		Sample ID: MBLK-46766-46766				Units: µg/Kg		Analysis Date: 3/12/2013 11:38 AM		
Client ID:		Run ID: VMS8_130312A				SeqNo: 2235392		Prep Date: 3/7/2013		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	1048	0	1000	0	105	70-130	0			
Surr: 4-Bromofluorobenzene	962	0	1000	0	96.2	70-130	0			
Surr: Dibromofluoromethane	975.5	0	1000	0	97.6	70-130	0			
Surr: Toluene-d8	1020	0	1000	0	102	70-130	0			

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

Client: LT Environmental, Inc
Work Order: 1303208
Project: 027313007 Specialty 2-4 3/6/13

QC BATCH REPORT

Batch ID: **46766** Instrument ID **VMS5** Method: **SW8260**

LCS		Sample ID: LCS-46766-46766				Units: µg/Kg		Analysis Date: 3/8/2013 09:19 AM		
Client ID:		Run ID: VMS5_130308A				SeqNo: 2232345		Prep Date: 3/7/2013		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	1030	30	1000	0	103	75-125	0			
Ethylbenzene	956.5	30	1000	0	95.6	75-125	0			
m,p-Xylene	1910	60	2000	0	95.5	80-125	0			
o-Xylene	940	30	1000	0	94	75-125	0			
Toluene	973	30	1000	0	97.3	70-125	0			
Xylenes, Total	2850	90	3000	0	95	75-125	0			
Surr: 1,2-Dichloroethane-d4	960	0	1000	0	96	70-130	0			
Surr: 4-Bromofluorobenzene	998	0	1000	0	99.8	70-130	0			
Surr: Dibromofluoromethane	981.5	0	1000	0	98.2	70-130	0			
Surr: Toluene-d8	970	0	1000	0	97	70-130	0			

LCS		Sample ID: LCS-46766-46766				Units: µg/Kg		Analysis Date: 3/8/2013 09:14 AM		
Client ID:		Run ID: VMS6_130308A				SeqNo: 2233613		Prep Date: 3/7/2013		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	953.5	30	1000	0	95.4	75-125	0			
Ethylbenzene	964	30	1000	0	96.4	75-125	0			
m,p-Xylene	1956	60	2000	0	97.8	80-125	0			
o-Xylene	965.5	30	1000	0	96.6	75-125	0			
Toluene	971	30	1000	0	97.1	70-125	0			
Xylenes, Total	2922	90	3000	0	97.4	75-125	0			
Surr: 1,2-Dichloroethane-d4	931	0	1000	0	93.1	70-130	0			
Surr: 4-Bromofluorobenzene	975	0	1000	0	97.5	70-130	0			
Surr: Dibromofluoromethane	1011	0	1000	0	101	70-130	0			
Surr: Toluene-d8	976.5	0	1000	0	97.6	70-130	0			

LCS		Sample ID: LCS-46766-46766				Units: µg/Kg		Analysis Date: 3/8/2013 09:43 PM		
Client ID:		Run ID: VMS6_130308B				SeqNo: 2234008		Prep Date: 3/7/2013		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	908	30	1000	0	90.8	75-125	0			
Ethylbenzene	908	30	1000	0	90.8	75-125	0			
m,p-Xylene	1853	60	2000	0	92.6	80-125	0			
o-Xylene	908	30	1000	0	90.8	75-125	0			
Toluene	914.5	30	1000	0	91.4	70-125	0			
Xylenes, Total	2761	90	3000	0	92	75-125	0			
Surr: 1,2-Dichloroethane-d4	942.5	0	1000	0	94.2	70-130	0			
Surr: 4-Bromofluorobenzene	982	0	1000	0	98.2	70-130	0			
Surr: Dibromofluoromethane	994	0	1000	0	99.4	70-130	0			
Surr: Toluene-d8	965	0	1000	0	96.5	70-130	0			

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

Client: LT Environmental, Inc
Work Order: 1303208
Project: 027313007 Specialty 2-4 3/6/13

QC BATCH REPORT

Batch ID: **46766** Instrument ID **VMS5** Method: **SW8260**

LCS		Sample ID: LCS-46766-46766				Units: µg/Kg		Analysis Date: 3/11/2013 11:51 AM		
Client ID:		Run ID: VMS8_130311A				SeqNo: 2234107		Prep Date: 3/7/2013		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	976	30	1000	0	97.6	75-125	0			
Ethylbenzene	1010	30	1000	0	101	75-125	0			
m,p-Xylene	2005	60	2000	0	100	80-125	0			
o-Xylene	999.5	30	1000	0	100	75-125	0			
Toluene	1005	30	1000	0	100	70-125	0			
Xylenes, Total	3004	90	3000	0	100	75-125	0			
Surr: 1,2-Dichloroethane-d4	1060	0	1000	0	106	70-130	0			
Surr: 4-Bromofluorobenzene	981	0	1000	0	98.1	70-130	0			
Surr: Dibromofluoromethane	1029	0	1000	0	103	70-130	0			
Surr: Toluene-d8	1062	0	1000	0	106	70-130	0			

LCS		Sample ID: LCS-46766-46766				Units: µg/Kg		Analysis Date: 3/11/2013 09:40 AM		
Client ID:		Run ID: VMS6_130311A				SeqNo: 2234432		Prep Date: 3/7/2013		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	962	30	1000	0	96.2	75-125	0			
Ethylbenzene	955	30	1000	0	95.5	75-125	0			
m,p-Xylene	1942	60	2000	0	97.1	80-125	0			
o-Xylene	956.5	30	1000	0	95.6	75-125	0			
Toluene	966.5	30	1000	0	96.6	70-125	0			
Xylenes, Total	2899	90	3000	0	96.6	75-125	0			
Surr: 1,2-Dichloroethane-d4	928.5	0	1000	0	92.8	70-130	0			
Surr: 4-Bromofluorobenzene	993.5	0	1000	0	99.4	70-130	0			
Surr: Dibromofluoromethane	986.5	0	1000	0	98.6	70-130	0			
Surr: Toluene-d8	962.5	0	1000	0	96.2	70-130	0			

LCS		Sample ID: LCS-46766-46766				Units: µg/Kg		Analysis Date: 3/12/2013 10:26 AM		
Client ID:		Run ID: VMS8_130312A				SeqNo: 2235391		Prep Date: 3/7/2013		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	1006	30	1000	0	101	75-125	0			
Ethylbenzene	1016	30	1000	0	102	75-125	0			
m,p-Xylene	2018	60	2000	0	101	80-125	0			
o-Xylene	984	30	1000	0	98.4	75-125	0			
Toluene	1006	30	1000	0	101	70-125	0			
Xylenes, Total	3002	90	3000	0	100	75-125	0			
Surr: 1,2-Dichloroethane-d4	1035	0	1000	0	104	70-130	0			
Surr: 4-Bromofluorobenzene	971	0	1000	0	97.1	70-130	0			
Surr: Dibromofluoromethane	1006	0	1000	0	101	70-130	0			
Surr: Toluene-d8	1022	0	1000	0	102	70-130	0			

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

Client: LT Environmental, Inc
 Work Order: 1303208
 Project: 027313007 Specialty 2-4 3/6/13

QC BATCH REPORT

Batch ID: 46766 Instrument ID VMS5 Method: SW8260

MS Sample ID: 1303162-01B MS				Units: µg/Kg			Analysis Date: 3/12/2013 08:05 PM			
Client ID:		Run ID: VMS8_130312A		SeqNo: 2235387		Prep Date: 3/7/2013		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	979	30	1000	0	97.9	75-125	0			
Ethylbenzene	952.5	30	1000	0	95.2	75-125	0			
m,p-Xylene	1890	60	2000	0	94.5	80-125	0			
o-Xylene	939.5	30	1000	0	94	75-125	0			
Toluene	946	30	1000	0	94.6	70-125	0			
Xylenes, Total	2829	90	3000	0	94.3	75-125	0			
Surr: 1,2-Dichloroethane-d4	1063	0	1000	0	106	70-130	0			
Surr: 4-Bromofluorobenzene	956	0	1000	0	95.6	70-130	0			
Surr: Dibromofluoromethane	967.5	0	1000	0	96.8	70-130	0			
Surr: Toluene-d8	993	0	1000	0	99.3	70-130	0			

MSD Sample ID: 1303162-01B MSD				Units: µg/Kg			Analysis Date: 3/12/2013 08:29 PM			
Client ID:		Run ID: VMS8_130312A		SeqNo: 2235389		Prep Date: 3/7/2013		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	944.5	30	1000	0	94.4	75-125	979	3.59	30	
Ethylbenzene	941	30	1000	0	94.1	75-125	952.5	1.21	30	
m,p-Xylene	1869	60	2000	0	93.4	80-125	1890	1.09	30	
o-Xylene	927	30	1000	0	92.7	75-125	939.5	1.34	30	
Toluene	939	30	1000	0	93.9	70-125	946	0.743	30	
Xylenes, Total	2796	90	3000	0	93.2	75-125	2829	1.17	30	
Surr: 1,2-Dichloroethane-d4	1039	0	1000	0	104	70-130	1063	2.28	30	
Surr: 4-Bromofluorobenzene	972	0	1000	0	97.2	70-130	956	1.66	30	
Surr: Dibromofluoromethane	978	0	1000	0	97.8	70-130	967.5	1.08	30	
Surr: Toluene-d8	1002	0	1000	0	100	70-130	993	0.952	30	

The following samples were analyzed in this batch:

1303208-01A 1303208-02A

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

Client: LT Environmental, Inc
Work Order: 1303208
Project: 027313007 Specialty 2-4 3/6/13

QC BATCH REPORT

Batch ID: **46777** Instrument ID **WETCHEM** Method: **USDA H60 Method**

DUP		Sample ID: 1303208-02D DUP				Units: mmhos/cm @25°F		Analysis Date: 3/13/2013 11:00 AM		
Client ID: PS02@18`BGS			Run ID: WETCHEM_130313E			SeqNo: 2235761		Prep Date: 3/7/2013		DF: 5
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Electrical Conductivity @ Saturation	4.195	0.025	0	0	0		4.625	9.75	50	

The following samples were analyzed in this batch:

1303208-01D	1303208-02D
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Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: LT Environmental, Inc
 Work Order: 1303208
 Project: 027313007 Specialty 2-4 3/6/13

QC BATCH REPORT

Batch ID: **46812** Instrument ID **WETCHEM** Method: **SW7196A**

MBLK	Sample ID: MBLK-46812-46812					Units: mg/Kg		Analysis Date: 3/12/2013 03:00 PM		
Client ID:	Run ID: WETCHEM_130312F				SeqNo: 2235170		Prep Date: 3/11/2013		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-46812-46812					Units: mg/Kg		Analysis Date: 3/12/2013 03:00 PM		
Client ID:	Run ID: WETCHEM_130312F				SeqNo: 2235171		Prep Date: 3/11/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent 1.968 0.50 1.984 0 99.2 75-110 0

MS	Sample ID: 1303208-01B MS					Units: mg/Kg		Analysis Date: 3/12/2013 03:00 PM		
Client ID: PS01@19'BGS	Run ID: WETCHEM_130312F				SeqNo: 2235173		Prep Date: 3/11/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent 1.953 0.49 1.969 0.0902 94.6 60-130 0

MSD	Sample ID: 1303208-01B MSD					Units: mg/Kg		Analysis Date: 3/12/2013 03:00 PM		
Client ID: PS01@19'BGS	Run ID: WETCHEM_130312F				SeqNo: 2235174		Prep Date: 3/11/2013		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent 1.663 0.50 1.984 0.0902 79.3 60-130 1.953 16 30

The following samples were analyzed in this batch:

1303208-01B 1303208-02B

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

Client: LT Environmental, Inc
 Work Order: 1303208
 Project: 027313007 Specialty 2-4 3/6/13

QC BATCH REPORT

Batch ID: **R117208** Instrument ID **WETCHEM** Method: **A4500-H B**

LCS		Sample ID: WLCSW1-130311-R117208				Units: s.u.		Analysis Date: 3/11/2013 09:00 AM		
Client ID:		Run ID: WETCHEM_130311J				SeqNo: 2233965		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

pH 4.37 0 4.4 0 99.3 90-110 0

LCS		Sample ID: WLCSW1-130311-R117208				Units: s.u.		Analysis Date: 3/11/2013 09:00 AM		
Client ID:		Run ID: WETCHEM_130311J				SeqNo: 2233968		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

pH 4.37 0 4.4 0 99.3 90-110 0

LCS		Sample ID: WLCSW1-130311-R117208				Units: s.u.		Analysis Date: 3/11/2013 09:00 AM		
Client ID:		Run ID: WETCHEM_130311J				SeqNo: 2233971		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

pH 4.37 0 4.4 0 99.3 90-110 0

DUP		Sample ID: 1303303-01C DUP				Units: s.u.		Analysis Date: 3/11/2013 09:00 AM		
Client ID:		Run ID: WETCHEM_130311J				SeqNo: 2233967		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

pH 7.34 0 0 0 0 0-0 7.34 0 20

DUP		Sample ID: 1303291-01A DUP				Units: s.u.		Analysis Date: 3/11/2013 09:00 AM		
Client ID:		Run ID: WETCHEM_130311J				SeqNo: 2233970		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

pH 6.87 0 0 0 0 0-0 6.87 0 20

DUP		Sample ID: 1303206-01C DUP				Units: s.u.		Analysis Date: 3/11/2013 09:00 AM		
Client ID:		Run ID: WETCHEM_130311J				SeqNo: 2233974		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

pH 7.89 0 0 0 0 0-0 7.89 0 20

DUP		Sample ID: 1303293-04B DUP				Units: s.u.		Analysis Date: 3/11/2013 09:00 AM		
Client ID:		Run ID: WETCHEM_130311J				SeqNo: 2233983		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

pH 8.51 0 0 0 0 0-0 8.51 0 20

The following samples were analyzed in this batch: 1303208-01B 1303208-02B

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

Client: LT Environmental, Inc
 Work Order: 1303208
 Project: 027313007 Specialty 2-4 3/6/13

QC BATCH REPORT

Batch ID: **R117210** Instrument ID **MOIST** Method: **A2540 G**

MBLK		Sample ID: WBLKS1-R117210					Units: % of sample		Analysis Date: 3/8/2013 12:20 PM		
Client ID:		Run ID: MOIST_130308C			SeqNo: 2234044		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-R117210				Units: % of sample				Analysis Date: 3/8/2013 12:20 PM									
Client ID:				Run ID: MOIST_130308C				SeqNo: 2234040				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: 1303209-01ADUP				Units: % of sample				Analysis Date: 3/8/2013 12:20 PM									
Client ID:				Run ID: MOIST_130308C				SeqNo: 2234024				Prep Date:				DF: 1					
Analyte		Result		PQL		SPK Val		SPK Ref Value		%REC		Control Limit		RPD Ref Value		%RPD		RPD Limit		Qual	

Moisture 10.32 0.050 0 0 0 0-0 11.1 7.28 20

DUP		Sample ID: 1303209-10ADUP1					Units: % of sample		Analysis Date: 3/8/2013 12:20 PM		
Client ID:			Run ID: MOIST_130308C			SeqNo: 2234034		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	

Moisture 40.66 0.050 0 0 0 0-0 40.94 0.686 20

DUP		Sample ID: 1303209-10ADUP2					Units: % of sample		Analysis Date: 3/8/2013 12:20 PM		
Client ID:			Run ID: MOIST_130308C			SeqNo: 2234035		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	

Moisture 40.42 0.050 0 0 0 0-0 40.94 1.28 20

The following samples were analyzed in this batch:

1303208-01B 1303208-02B

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



CHAIN OF CUSTODY

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

COC number (for client tracking)

Page 1 of

[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



12

Sample Receipt Checklist

Client Name: **LTENV**

Date/Time Received: **07-Mar-13 09:45**

Work Order: **1303208**

Received by: **KRW**

Checklist completed by Keith Wurenga 07-Mar-13
eSignature Date

Reviewed by: Ann Preston 08-Mar-13
eSignature Date

Matrices: **Soil**

Carrier name: **FedEx**

Shipping container/cooler in good condition?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>
Custody seals intact on shipping container/cooler?	Yes <input 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 C</u>		
Cooler(s)/Kit(s):			
Date/Time sample(s) sent to storage:	<u>3/7/2013 1:14:39 PM</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: (970) 424-4749
Lab Hub, LLC

Origin ID: RILA



127 E First Street

PARACHUTE, CO 81635

Ship Date: 06MAR13
Act/Wgt: 36.0 LB
CAD: 103923490/INET3370

Dims: 17 X 11 X 16 IN

Delivery Address Bar Code



SHIP TO: (616) 399-6070

BILL RECIPIENT

Sample recieving
ALS Holland
3352 128TH AVE

HOLLAND, MI 49424

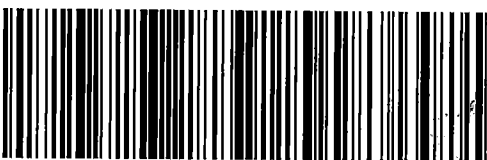
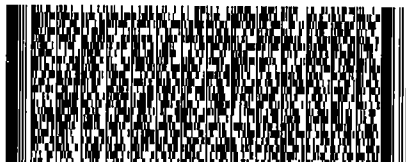
Ref # 1001-030613-1
Invoice #
PO #
Dept #

THU - 07 MAR 3:00P
STANDARD OVERNIGHT

TRK# 7949 0975 7183
0201

XX GRRA

49424
MI-US
GRR



518G2/DCF8/83AB

After printing this label:

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05-Aug-2014

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

Re: **Specialty 2-4 7.28.14**

Work Order: **14071465**

Dear Jake,

ALS Environmental received 3 samples on 29-Jul-2014 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.

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 29.

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 A small icon of a tree and a recycling symbol.

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER

Client: LT Environmental, Inc
Project: Specialty 2-4 7.28.14
Work Order: 14071465

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>
14071465-01	PB01	Soil		7/28/2014 11:00	7/29/2014 09:00	<input type="checkbox"/>
14071465-02	PB02	Soil		7/28/2014 11:20	7/29/2014 09:00	<input type="checkbox"/>
14071465-03	PB03	Soil		7/28/2014 11:40	7/29/2014 09:00	<input type="checkbox"/>

ALS Group USA, Corp

Date: 05-Aug-14

Client: LT Environmental, Inc
Project: Specialty 2-4 7.28.14
Work Order: 14071465

Case Narrative

Batch 61176 MS/MSD data for Metals 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: 05-Aug-14

Client: LT Environmental, Inc
Project: Specialty 2-4 7.28.14
Sample ID: PB01
Collection Date: 7/28/2014 11:00 AM

Work Order: 14071465
Lab ID: 14071465-01
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID						
DRO (C10-C28)	56		SW8015M		Prep: SW3541 / 7/31/14	Analyst: IT
			9.7	mg/Kg-dry	1	8/1/2014 10:50 PM
Surr: 4-Terphenyl-d14	92.2		39-133	%REC	1	8/1/2014 10:50 PM
GASOLINE RANGE ORGANICS BY GC-FID						
GRO (C6-C10)	ND		SW8015		Prep: SW5035 / 8/1/14	Analyst: IT
			2,900	µg/Kg-dry	1	8/1/2014 09:23 PM
Surr: Toluene-d8	96.2		50-150	%REC	1	8/1/2014 09:23 PM
MERCURY BY CVAA						
Mercury	0.020		SW7471		Prep: SW7471 / 8/1/14	Analyst: LR
			0.014	mg/Kg-dry	1	8/1/2014 02:54 PM
METALS BY ICP-MS						
Arsenic	4.4		SW6020A		Prep: SW3050B / 7/31/14	Analyst: ML
			2.2	mg/Kg-dry	5	8/1/2014 12:23 AM
Barium	430		2.2	mg/Kg-dry	5	8/1/2014 12:23 AM
Cadmium	ND		0.88	mg/Kg-dry	5	8/1/2014 12:23 AM
Chromium	13		2.2	mg/Kg-dry	5	8/1/2014 12:23 AM
Copper	13		2.2	mg/Kg-dry	5	8/1/2014 12:23 AM
Lead	12		2.2	mg/Kg-dry	5	8/1/2014 12:23 AM
Nickel	14		2.2	mg/Kg-dry	5	8/1/2014 12:23 AM
Selenium	ND		2.2	mg/Kg-dry	5	8/1/2014 12:23 AM
Silver	ND		2.2	mg/Kg-dry	5	8/1/2014 12:23 AM
Zinc	52		4.4	mg/Kg-dry	5	8/1/2014 12:23 AM
SOLUBLE CATIONS FOR SAR						
			SW6020A		Prep: USDA Method 20B / 8/3/14	Analyst: RH
Calcium	550		10	mg/L	20	8/4/2014 05:47 PM
Magnesium	290		4.0	mg/L	20	8/4/2014 05:47 PM
Sodium	3,900		40	mg/L	200	8/4/2014 07:00 PM
SODIUM ADSORPTION RATIO						
			USDA H60 METHOD		Prep: USDA Method 20B / 8/3/14	Analyst: RH
Sodium Adsorption Ratio	34		0.010	none	1	8/4/2014
SEMI-VOLATILE ORGANIC COMPOUNDS						
			SW846 8270D		Prep: SW3541 / 7/31/14	Analyst: RM
Acenaphthene	ND		15	µg/Kg-dry	1	8/1/2014 03:12 PM
Anthracene	ND		15	µg/Kg-dry	1	8/1/2014 03:12 PM
Benzo(a)anthracene	ND		15	µg/Kg-dry	1	8/1/2014 03:12 PM
Benzo(a)pyrene	ND		15	µg/Kg-dry	1	8/1/2014 03:12 PM
Benzo(b)fluoranthene	ND		15	µg/Kg-dry	1	8/1/2014 03:12 PM
Benzo(k)fluoranthene	ND		15	µg/Kg-dry	1	8/1/2014 03:12 PM
Chrysene	ND		15	µg/Kg-dry	1	8/1/2014 03:12 PM
Dibenzo(a,h)anthracene	ND		15	µg/Kg-dry	1	8/1/2014 03:12 PM
Fluoranthene	ND		15	µg/Kg-dry	1	8/1/2014 03:12 PM

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

ALS Group USA, Corp

Date: 05-Aug-14

Client: LT Environmental, Inc
Project: Specialty 2-4 7.28.14
Sample ID: PB01
Collection Date: 7/28/2014 11:00 AM

Work Order: 14071465
Lab ID: 14071465-01
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Fluorene	ND		15	µg/Kg-dry	1	8/1/2014 03:12 PM
Indeno(1,2,3-cd)pyrene	ND		15	µg/Kg-dry	1	8/1/2014 03:12 PM
Naphthalene	ND		15	µg/Kg-dry	1	8/1/2014 03:12 PM
Pyrene	ND		15	µg/Kg-dry	1	8/1/2014 03:12 PM
Surr: 2-Fluorobiphenyl	79.1		12-100	%REC	1	8/1/2014 03:12 PM
Surr: 4-Terphenyl-d14	76.8		25-137	%REC	1	8/1/2014 03:12 PM
Surr: Nitrobenzene-d5	64.0		37-107	%REC	1	8/1/2014 03:12 PM
VOLATILE ORGANIC COMPOUNDS			SW8260B	Prep: SW5035 / 7/29/14		Analyst: RS
Benzene	ND		35	µg/Kg-dry	1	8/1/2014 01:02 PM
Ethylbenzene	ND		35	µg/Kg-dry	1	8/1/2014 01:02 PM
m,p-Xylene	ND		71	µg/Kg-dry	1	8/1/2014 01:02 PM
o-Xylene	ND		35	µg/Kg-dry	1	8/1/2014 01:02 PM
Toluene	ND		35	µg/Kg-dry	1	8/1/2014 01:02 PM
Xylenes, Total	ND		110	µg/Kg-dry	1	8/1/2014 01:02 PM
Surr: 1,2-Dichloroethane-d4	103		70-130	%REC	1	8/1/2014 01:02 PM
Surr: 4-Bromofluorobenzene	96.2		70-130	%REC	1	8/1/2014 01:02 PM
Surr: Dibromofluoromethane	103		70-130	%REC	1	8/1/2014 01:02 PM
Surr: Toluene-d8	102		70-130	%REC	1	8/1/2014 01:02 PM
ELECTRICAL CONDUCTIVITY (SAR)			USDA H60 METHOD	Prep: USDA Method 20B / 8/3/14		Analyst: JB
Electrical Conductivity @ Saturation	24		0.050	mmhos/cm @25	10	8/4/2014 10:30 AM
CHROMIUM, TRIVALENT			CALCULATION			Analyst: JJG
Chromium, Trivalent	13		0.59	mg/Kg-dry	1	8/4/2014 08:15 AM
CHROMIUM, HEXAVALENT			SW7196A	Prep: SW3060A / 7/30/14		Analyst: EE
Chromium, Hexavalent	ND		0.59	mg/Kg-dry	1	7/31/2014 03:00 PM
MOISTURE			A2540 G			Analyst: TM
Moisture	15		0.050	% of sample	1	7/30/2014 10:05 AM
PH			SW9045D	Prep: EXTRACT / 7/31/14		Analyst: TM
pH	9.0			s.u.	1	7/31/2014 02:00 PM

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

ALS Group USA, Corp

Date: 05-Aug-14

Client: LT Environmental, Inc
Project: Specialty 2-4 7.28.14
Sample ID: PB02
Collection Date: 7/28/2014 11:20 AM

Work Order: 14071465
Lab ID: 14071465-02
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID						
DRO (C10-C28)	74		11	mg/Kg-dry	1	8/1/2014 11:20 PM
Surr: 4-Terphenyl-d14	101		39-133	%REC	1	8/1/2014 11:20 PM
GASOLINE RANGE ORGANICS BY GC-FID						
GRO (C6-C10)	ND		3,400	µg/Kg-dry	1	8/1/2014 10:14 PM
Surr: Toluene-d8	123		50-150	%REC	1	8/1/2014 10:14 PM
MERCURY BY CVAA						
Mercury	0.014		0.0085	mg/Kg-dry	1	8/1/2014 02:56 PM
METALS BY ICP-MS						
Arsenic	3.6		2.1	mg/Kg-dry	5	8/1/2014 12:29 AM
Barium	950		21	mg/Kg-dry	50	8/2/2014 08:25 AM
Cadmium	ND		0.85	mg/Kg-dry	5	8/1/2014 12:29 AM
Chromium	12		2.1	mg/Kg-dry	5	8/1/2014 12:29 AM
Copper	11		2.1	mg/Kg-dry	5	8/1/2014 12:29 AM
Lead	9.8		2.1	mg/Kg-dry	5	8/1/2014 12:29 AM
Nickel	13		2.1	mg/Kg-dry	5	8/1/2014 12:29 AM
Selenium	ND		2.1	mg/Kg-dry	5	8/1/2014 12:29 AM
Silver	ND		2.1	mg/Kg-dry	5	8/1/2014 12:29 AM
Zinc	47		4.3	mg/Kg-dry	5	8/1/2014 12:29 AM
SOLUBLE CATIONS FOR SAR						
			SW6020A		Prep: USDA Method 20B / 8/1/14	Analyst: RH
Calcium	490		10	mg/L	20	8/2/2014 07:22 AM
Magnesium	400		4.0	mg/L	20	8/2/2014 07:22 AM
Sodium	5,700		40	mg/L	200	8/4/2014 02:38 PM
SODIUM ADSORPTION RATIO						
			USDA H60 METHOD		Prep: USDA Method 20B / 8/1/14	Analyst: RH
Sodium Adsorption Ratio	46		0.010	none	1	8/1/2014
SEMI-VOLATILE ORGANIC COMPOUNDS						
			SW846 8270D		Prep: SW3541 / 7/31/14	Analyst: RM
Acenaphthene	ND		18	µg/Kg-dry	1	8/1/2014 03:33 PM
Anthracene	ND		18	µg/Kg-dry	1	8/1/2014 03:33 PM
Benzo(a)anthracene	ND		18	µg/Kg-dry	1	8/1/2014 03:33 PM
Benzo(a)pyrene	ND		18	µg/Kg-dry	1	8/1/2014 03:33 PM
Benzo(b)fluoranthene	ND		18	µg/Kg-dry	1	8/1/2014 03:33 PM
Benzo(k)fluoranthene	ND		18	µg/Kg-dry	1	8/1/2014 03:33 PM
Chrysene	ND		18	µg/Kg-dry	1	8/1/2014 03:33 PM
Dibenzo(a,h)anthracene	ND		18	µg/Kg-dry	1	8/1/2014 03:33 PM
Fluoranthene	ND		18	µg/Kg-dry	1	8/1/2014 03:33 PM

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

ALS Group USA, Corp

Date: 05-Aug-14

Client: LT Environmental, Inc
Project: Specialty 2-4 7.28.14
Sample ID: PB02
Collection Date: 7/28/2014 11:20 AM

Work Order: 14071465
Lab ID: 14071465-02
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Fluorene	ND		18	µg/Kg-dry	1	8/1/2014 03:33 PM
Indeno(1,2,3-cd)pyrene	ND		18	µg/Kg-dry	1	8/1/2014 03:33 PM
Naphthalene	ND		18	µg/Kg-dry	1	8/1/2014 03:33 PM
Pyrene	ND		18	µg/Kg-dry	1	8/1/2014 03:33 PM
Surr: 2-Fluorobiphenyl	77.3		12-100	%REC	1	8/1/2014 03:33 PM
Surr: 4-Terphenyl-d14	96.9		25-137	%REC	1	8/1/2014 03:33 PM
Surr: Nitrobenzene-d5	62.5		37-107	%REC	1	8/1/2014 03:33 PM
VOLATILE ORGANIC COMPOUNDS			SW8260B	Prep: SW5035 / 7/29/14		Analyst: AK
Benzene	ND		41	µg/Kg-dry	1	8/1/2014 11:18 PM
Ethylbenzene	ND		41	µg/Kg-dry	1	8/1/2014 11:18 PM
m,p-Xylene	ND		82	µg/Kg-dry	1	8/1/2014 11:18 PM
o-Xylene	ND		41	µg/Kg-dry	1	8/1/2014 11:18 PM
Toluene	ND		41	µg/Kg-dry	1	8/1/2014 11:18 PM
Xylenes, Total	ND		120	µg/Kg-dry	1	8/1/2014 11:18 PM
Surr: 1,2-Dichloroethane-d4	97.4		70-130	%REC	1	8/1/2014 11:18 PM
Surr: 4-Bromofluorobenzene	97.2		70-130	%REC	1	8/1/2014 11:18 PM
Surr: Dibromofluoromethane	99.6		70-130	%REC	1	8/1/2014 11:18 PM
Surr: Toluene-d8	93.0		70-130	%REC	1	8/1/2014 11:18 PM
ELECTRICAL CONDUCTIVITY (SAR)			USDA H60 METHOD	Prep: USDA Method 20B / 8/1/14		Analyst: JB
Electrical Conductivity @ Saturation	36		0.050	mmhos/cm @25	10	8/1/2014 04:00 PM
CHROMIUM, TRIVALENT			CALCULATION			Analyst: JJG
Chromium, Trivalent	12		0.69	mg/Kg-dry	1	8/4/2014 08:15 AM
CHROMIUM, HEXAVALENT			SW7196A	Prep: SW3060A / 7/30/14		Analyst: EE
Chromium, Hexavalent	ND		0.65	mg/Kg-dry	1	7/31/2014 03:00 PM
MOISTURE			A2540 G			Analyst: TM
Moisture	27		0.050	% of sample	1	7/30/2014 10:05 AM
PH			SW9045D	Prep: EXTRACT / 7/31/14		Analyst: TM
pH	8.4			s.u.	1	7/31/2014 02:00 PM

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

ALS Group USA, Corp

Date: 05-Aug-14

Client: LT Environmental, Inc
Project: Specialty 2-4 7.28.14
Sample ID: PB03
Collection Date: 7/28/2014 11:40 AM

Work Order: 14071465
Lab ID: 14071465-03
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
DIESEL RANGE ORGANICS BY GC-FID						
DRO (C10-C28)	73		12	mg/Kg-dry	1	8/1/2014 11:50 PM
Surr: 4-Terphenyl-d14	106		39-133	%REC	1	8/1/2014 11:50 PM
GASOLINE RANGE ORGANICS BY GC-FID						
GRO (C6-C10)	ND		3,800	µg/Kg-dry	1	8/1/2014 10:39 PM
Surr: Toluene-d8	99.8		50-150	%REC	1	8/1/2014 10:39 PM
MERCURY BY CVAA						
Mercury	0.023		0.013	mg/Kg-dry	1	8/1/2014 02:58 PM
METALS BY ICP-MS						
Arsenic	5.5		3.0	mg/Kg-dry	5	8/1/2014 12:35 AM
Barium	440		3.0	mg/Kg-dry	5	8/1/2014 12:35 AM
Cadmium	ND		1.2	mg/Kg-dry	5	8/1/2014 12:35 AM
Chromium	14		3.0	mg/Kg-dry	5	8/1/2014 12:35 AM
Copper	13		3.0	mg/Kg-dry	5	8/1/2014 12:35 AM
Lead	10		3.0	mg/Kg-dry	5	8/1/2014 12:35 AM
Nickel	14		3.0	mg/Kg-dry	5	8/1/2014 12:35 AM
Selenium	ND		3.0	mg/Kg-dry	5	8/1/2014 12:35 AM
Silver	ND		3.0	mg/Kg-dry	5	8/1/2014 12:35 AM
Zinc	51		5.9	mg/Kg-dry	5	8/1/2014 12:35 AM
SOLUBLE CATIONS FOR SAR						
			SW6020A		Prep: USDA Method 20B / 8/1/14	Analyst: RH
Calcium	620		10	mg/L	20	8/2/2014 07:48 AM
Magnesium	1,000		4.0	mg/L	20	8/2/2014 07:48 AM
Sodium	17,000		40	mg/L	200	8/4/2014 02:45 PM
SODIUM ADSORPTION RATIO						
			USDA H60 METHOD		Prep: USDA Method 20B / 8/1/14	Analyst: RH
Sodium Adsorption Ratio	99		0.010	none	1	8/1/2014
SEMI-VOLATILE ORGANIC COMPOUNDS						
			SW846 8270D		Prep: SW3541 / 7/31/14	Analyst: RM
Acenaphthene	ND		20	µg/Kg-dry	1	8/1/2014 03:53 PM
Anthracene	ND		20	µg/Kg-dry	1	8/1/2014 03:53 PM
Benzo(a)anthracene	ND		20	µg/Kg-dry	1	8/1/2014 03:53 PM
Benzo(a)pyrene	ND		20	µg/Kg-dry	1	8/1/2014 03:53 PM
Benzo(b)fluoranthene	ND		20	µg/Kg-dry	1	8/1/2014 03:53 PM
Benzo(k)fluoranthene	ND		20	µg/Kg-dry	1	8/1/2014 03:53 PM
Chrysene	ND		20	µg/Kg-dry	1	8/1/2014 03:53 PM
Dibenzo(a,h)anthracene	ND		20	µg/Kg-dry	1	8/1/2014 03:53 PM
Fluoranthene	ND		20	µg/Kg-dry	1	8/1/2014 03:53 PM

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

ALS Group USA, Corp

Date: 05-Aug-14

Client: LT Environmental, Inc
Project: Specialty 2-4 7.28.14
Sample ID: PB03
Collection Date: 7/28/2014 11:40 AM

Work Order: 14071465
Lab ID: 14071465-03
Matrix: SOIL

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Fluorene	ND		20	µg/Kg-dry	1	8/1/2014 03:53 PM
Indeno(1,2,3-cd)pyrene	ND		20	µg/Kg-dry	1	8/1/2014 03:53 PM
Naphthalene	ND		20	µg/Kg-dry	1	8/1/2014 03:53 PM
Pyrene	ND		20	µg/Kg-dry	1	8/1/2014 03:53 PM
Surr: 2-Fluorobiphenyl	81.5		12-100	%REC	1	8/1/2014 03:53 PM
Surr: 4-Terphenyl-d14	95.3		25-137	%REC	1	8/1/2014 03:53 PM
Surr: Nitrobenzene-d5	65.0		37-107	%REC	1	8/1/2014 03:53 PM
VOLATILE ORGANIC COMPOUNDS			SW8260B	Prep: SW5035 / 7/29/14	Analyst: AK	
Benzene	ND		46	µg/Kg-dry	1	8/1/2014 11:43 PM
Ethylbenzene	ND		46	µg/Kg-dry	1	8/1/2014 11:43 PM
m,p-Xylene	ND		91	µg/Kg-dry	1	8/1/2014 11:43 PM
o-Xylene	ND		46	µg/Kg-dry	1	8/1/2014 11:43 PM
Toluene	ND		46	µg/Kg-dry	1	8/1/2014 11:43 PM
Xylenes, Total	ND		140	µg/Kg-dry	1	8/1/2014 11:43 PM
Surr: 1,2-Dichloroethane-d4	98.0		70-130	%REC	1	8/1/2014 11:43 PM
Surr: 4-Bromofluorobenzene	95.4		70-130	%REC	1	8/1/2014 11:43 PM
Surr: Dibromofluoromethane	98.0		70-130	%REC	1	8/1/2014 11:43 PM
Surr: Toluene-d8	95.0		70-130	%REC	1	8/1/2014 11:43 PM
ELECTRICAL CONDUCTIVITY (SAR)			USDA H60 METHOD	Prep: USDA Method 20B / 8/1/14	Analyst: JB	
Electrical Conductivity @ Saturation	90		0.050	mmhos/cm @25	10	8/1/2014 04:00 PM
CHROMIUM, TRIVALENT			CALCULATION	Analyst: JJG		
Chromium, Trivalent	14		0.76	mg/Kg-dry	1	8/4/2014 08:15 AM
CHROMIUM, HEXAVALENT			SW7196A	Prep: SW3060A / 7/30/14	Analyst: EE	
Chromium, Hexavalent	ND		0.75	mg/Kg-dry	1	7/31/2014 03:00 PM
MOISTURE			A2540 G	Analyst: TM		
Moisture	34		0.050	% of sample	1	7/30/2014 10:05 AM
PH			SW9045D	Prep: EXTRACT / 7/31/14	Analyst: TM	
pH	8.7			s.u.	1	7/31/2014 02:00 PM

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

Client: LT Environmental, Inc
Work Order: 14071465
Project: Specialty 2-4 7.28.14

QC BATCH REPORT

Batch ID: **61163** Instrument ID **GC8** Method: **SW8015M**

MBLK		Sample ID: DBLKS1-61163-61163				Units: mg/Kg		Analysis Date: 8/1/2014 01:20 PM		
Client ID:		Run ID: GC8_140801A				SeqNo: 2873626		Prep Date: 7/31/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	ND	5.0								
<i>Surr: 4-Terphenyl-d14</i>	<i>1.988</i>	<i>0</i>	<i>2</i>	<i>0</i>	<i>99.4</i>	<i>39-133</i>	<i>0</i>			

LCS		Sample ID: DLCSS1-61163-61163				Units: mg/Kg		Analysis Date: 8/1/2014 01:50 PM		
Client ID:		Run ID: GC8_140801A				SeqNo: 2873627		Prep Date: 7/31/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	168	5.0	200	0	84	61-109	0			
<i>Surr: 4-Terphenyl-d14</i>	<i>1.691</i>	<i>0</i>	<i>2</i>	<i>0</i>	<i>84.5</i>	<i>39-133</i>	<i>0</i>			

MS		Sample ID: 14071379-01B MS				Units: mg/Kg		Analysis Date: 8/1/2014 02:20 PM		
Client ID:		Run ID: GC8_140801A				SeqNo: 2873628		Prep Date: 7/31/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	631.6	8.1	325	284.7	107	48-110	0			
<i>Surr: 4-Terphenyl-d14</i>	<i>3.09</i>	<i>0</i>	<i>3.25</i>	<i>0</i>	<i>95.1</i>	<i>39-133</i>	<i>0</i>			

MSD		Sample ID: 14071379-01B MSD				Units: mg/Kg		Analysis Date: 8/1/2014 02:50 PM		
Client ID:		Run ID: GC8_140801A				SeqNo: 2873629		Prep Date: 7/31/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (C10-C28)	596.1	8.2	329.5	284.7	94.5	48-110	631.6	5.78	30	
<i>Surr: 4-Terphenyl-d14</i>	<i>2.974</i>	<i>0</i>	<i>3.295</i>	<i>0</i>	<i>90.2</i>	<i>39-133</i>	<i>3.09</i>	<i>3.84</i>	<i>30</i>	

The following samples were analyzed in this batch: | 14071465-01B | 14071465-02B | 14071465-03B |

Client: LT Environmental, Inc
 Work Order: 14071465
 Project: Specialty 2-4 7.28.14

QC BATCH REPORT

Batch ID: **61210** Instrument ID **GC9** Method: **SW8015**

MBLK		Sample ID: MBLK-61210-61210				Units: µg/Kg		Analysis Date: 8/1/2014 06:00 PM		
Client ID:		Run ID: GC9_140801A				SeqNo: 2874551		Prep Date: 8/1/2014		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	4766	0	5000	0	95.3	50-150	0			

LCS		Sample ID: LCS-61210-61210				Units: µg/Kg		Analysis Date: 8/1/2014 05:34 PM		
Client ID:		Run ID: GC9_140801A				SeqNo: 2874550		Prep Date: 8/1/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	495600	2,500	500000	0	99.1	70-130	0			
Surr: Toluene-d8	4648	0	5000	0	93	50-150	0			

MS		Sample ID: 14071621-02A MS				Units: µg/Kg		Analysis Date: 8/1/2014 08:06 PM		
Client ID:		Run ID: GC9_140801A				SeqNo: 2874555		Prep Date: 8/1/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	595100	2,500	500000	0	119	70-130	0			
Surr: Toluene-d8	5549	0	5000	0	111	50-150	0			

MSD		Sample ID: 14071621-02A MSD				Units: µg/Kg		Analysis Date: 8/1/2014 08:31 PM		
Client ID:		Run ID: GC9_140801A				SeqNo: 2874556		Prep Date: 8/1/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
GRO (C6-C10)	562200	2,500	500000	0	112	70-130	595100	5.68	30	
Surr: Toluene-d8	5454	0	5000	0	109	50-150	5549	1.73	30	

The following samples were analyzed in this batch:

14071465-01A	14071465-02A	14071465-03A
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Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: LT Environmental, Inc
Work Order: 14071465
Project: Specialty 2-4 7.28.14

QC BATCH REPORT

Batch ID: **61208** Instrument ID **HG1** Method: **SW7471**

MBLK		Sample ID: MBLK-61208-61208				Units: mg/Kg		Analysis Date: 8/1/2014 02:24 PM		
Client ID:		Run ID: HG1_140801A				SeqNo: 2873212		Prep Date: 8/1/2014		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-61208-61208				Units: mg/Kg		Analysis Date: 8/1/2014 02:26 PM		
Client ID:		Run ID: HG1_140801A				SeqNo: 2873213		Prep Date: 8/1/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury 0.1785 0.020 0.1665 0 107 80-120 0

MS		Sample ID: 14071549-17CMS				Units: mg/Kg		Analysis Date: 8/1/2014 02:31 PM		
Client ID:		Run ID: HG1_140801A				SeqNo: 2873215		Prep Date: 8/1/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury 0.1793 0.015 0.1243 0.04776 106 75-125 0

MSD		Sample ID: 14071549-17CMSD				Units: mg/Kg		Analysis Date: 8/1/2014 02:33 PM		
Client ID:		Run ID: HG1_140801A				SeqNo: 2873216		Prep Date: 8/1/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Mercury 0.1797 0.015 0.1258 0.04776 105 75-125 0.1793 0.241 35

The following samples were analyzed in this batch:

14071465-01B	14071465-02B	14071465-03B
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Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: LT Environmental, Inc
Work Order: 14071465
Project: Specialty 2-4 7.28.14

QC BATCH REPORT

Batch ID: **61150** Instrument ID **ICPMS1** Method: **SW6020A**

DUP		Sample ID: 14071463-01CDUP				Units: mg/L		Analysis Date: 8/2/2014 07:10 AM		
Client ID:		Run ID: ICPMS1_140801A				SeqNo: 2874416		Prep Date: 8/1/2014		DF: 20
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Calcium	38.42	10	0	0	0	0-0	41.12	6.79		
Magnesium	15.37	4.0	0	0	0	0-0	13.11	15.8		
Sodium	673	4.0	0	0	0	0-0	741.8	9.73		

DUP		Sample ID: 14071463-01CDUP				Units: none		Analysis Date: 8/1/2014		
Client ID:		Run ID: SAR_140801A				SeqNo: 2874642		Prep Date: 8/1/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Sodium Adsorption Ratio	23.21	0.010	0	0	0		25.79	10.5	50	

The following samples were analyzed in this batch:

14071465-02C	14071465-03C
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Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: LT Environmental, Inc
Work Order: 14071465
Project: Specialty 2-4 7.28.14

QC BATCH REPORT

Batch ID: **61176** Instrument ID **ICPMS1** Method: **SW6020A**

MBLK		Sample ID: MBLK-61176-61176				Units: mg/Kg		Analysis Date: 7/31/2014 08:47 PM		
Client ID:		Run ID: ICPMS1_140731A				SeqNo: 2872073		Prep Date: 7/31/2014		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	0.007715	0.25								J
Cadmium	ND	0.10								
Chromium	ND	0.25								
Copper	ND	0.25								
Lead	0.001788	0.25								J
Nickel	ND	0.25								
Selenium	ND	0.25								
Silver	ND	0.25								
Zinc	0.08495	0.50								J

LCS		Sample ID: LCS-61176-61176				Units: mg/Kg		Analysis Date: 7/31/2014 08:53 PM		
Client ID:		Run ID: ICPMS1_140731A				SeqNo: 2872075		Prep Date: 7/31/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	4.603	0.25	5	0	92.1	80-120	0			
Barium	4.68	0.25	5	0	93.6	80-120	0			
Cadmium	4.642	0.10	5	0	92.8	80-120	0			
Chromium	4.855	0.25	5	0	97.1	80-120	0			
Copper	4.747	0.25	5	0	94.9	80-120	0			
Lead	4.659	0.25	5	0	93.2	80-120	0			
Nickel	4.879	0.25	5	0	97.6	80-120	0			
Selenium	4.567	0.25	5	0	91.3	80-120	0			
Silver	4.788	0.25	5	0	95.8	80-120	0			
Zinc	4.761	0.50	5	0	95.2	80-120	0			

MS		Sample ID: 14071443-06BMS				Units: mg/Kg		Analysis Date: 7/31/2014 09:55 PM		
Client ID:		Run ID: ICPMS1_140731A				SeqNo: 2872096		Prep Date: 7/31/2014		DF: 10
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	10.37	3.7	7.44	2.59	105	75-125	0			
Barium	71.25	3.7	7.44	53.51	238	75-125	0			SO
Cadmium	7.783	1.5	7.44	0.1234	103	75-125	0			
Chromium	18.48	3.7	7.44	7.664	145	75-125	0			S
Copper	12.01	3.7	7.44	4.68	98.5	75-125	0			
Lead	11.67	3.7	7.44	3.935	104	75-125	0			
Nickel	18.65	3.7	7.44	11.13	101	75-125	0			
Selenium	9.293	3.7	7.44	1.122	110	75-125	0			
Silver	7.371	3.7	7.44	0.01572	98.9	75-125	0			
Zinc	33.33	7.4	7.44	22.88	140	75-125	0			S

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

Client: LT Environmental, Inc
Work Order: 14071465
Project: Specialty 2-4 7.28.14

QC BATCH REPORT

Batch ID: **61176** Instrument ID **ICPMS1** Method: **SW6020A**

MSD		Sample ID: 14071443-06BMSD				Units: mg/Kg		Analysis Date: 7/31/2014 10:01 PM		
Client ID:		Run ID: ICPMS1_140731A				SeqNo: 2872101		Prep Date: 7/31/2014		DF: 10
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	10.81	3.7	7.429	2.59	111	75-125	10.37	4.13	25	
Barium	69.52	3.7	7.429	53.51	215	75-125	71.25	2.46	25	SO
Cadmium	7.779	1.5	7.429	0.1234	103	75-125	7.783	0.0531	25	
Chromium	16.51	3.7	7.429	7.664	119	75-125	18.48	11.3	25	
Copper	12.06	3.7	7.429	4.68	99.3	75-125	12.01	0.407	25	
Lead	12.81	3.7	7.429	3.935	119	75-125	11.67	9.33	25	
Nickel	19.87	3.7	7.429	11.13	118	75-125	18.65	6.34	25	
Selenium	7.571	3.7	7.429	1.122	86.8	75-125	9.293	20.4	25	
Silver	7.343	3.7	7.429	0.01572	98.6	75-125	7.371	0.381	25	
Zinc	36.49	7.4	7.429	22.88	183	75-125	33.33	9.05	25	S

The following samples were analyzed in this batch: 14071465-01B 14071465-02B 14071465-03B

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

Client: LT Environmental, Inc
Work Order: 14071465
Project: Specialty 2-4 7.28.14

QC BATCH REPORT

Batch ID: **61195** Instrument ID **ICPMS2** Method: **SW6020A**

DUP		Sample ID: 14071621-02CDUP				Units: mg/L		Analysis Date: 8/4/2014 06:18 PM		
Client ID:		Run ID: ICPMS2_140804A				SeqNo: 2876039		Prep Date: 8/3/2014		DF: 20
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Calcium	115.3	10	0	0	0	0-0	108.9	5.66		
Magnesium	29.84	4.0	0	0	0	0-0	28.28	5.37		
Sodium	7.892	4.0	0	0	0	0-0	9.022	13.4		

DUP		Sample ID: 14071621-02CDUP				Units: none		Analysis Date: 8/4/2014		
Client ID:		Run ID: SAR_140804A				SeqNo: 2876932		Prep Date: 8/3/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Sodium Adsorption Ratio	0.1695	0.010	0	0	0		0.1992	16.1	50	

The following samples were analyzed in this batch:

14071465-01C

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

Client: LT Environmental, Inc
Work Order: 14071465
Project: Specialty 2-4 7.28.14

QC BATCH REPORT

Batch ID: **61162** Instrument ID **SVMS6** Method: **SW846 8270D**

MBLK		Sample ID: SBLKS1-61162-61162				Units: µg/Kg		Analysis Date: 8/1/2014 10:45 AM		
Client ID:		Run ID: SVMS6_140801A				SeqNo: 2873349		Prep Date: 7/31/2014		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	1187	0	1667	0	71.2	12-100	0			
Surr: 4-Terphenyl-d14	1671	0	1667	0	100	25-137	0			
Surr: Nitrobenzene-d5	1045	0	1667	0	62.7	37-107	0			

LCS		Sample ID: SLCSS1-61162-61162				Units: µg/Kg		Analysis Date: 8/1/2014 11:06 AM		
Client ID:		Run ID: SVMS6_140801A				SeqNo: 2873350		Prep Date: 7/31/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	443.3	6.7	666.7	0	66.5	45-110	0			
Anthracene	536.7	6.7	666.7	0	80.5	55-105	0			
Benzo(a)anthracene	536.7	6.7	666.7	0	80.5	50-110	0			
Benzo(a)pyrene	605.7	6.7	666.7	0	90.8	50-110	0			
Benzo(b)fluoranthene	582.3	6.7	666.7	0	87.3	45-115	0			
Benzo(k)fluoranthene	616.7	6.7	666.7	0	92.5	45-115	0			
Chrysene	586	6.7	666.7	0	87.9	55-110	0			
Dibenzo(a,h)anthracene	624.3	6.7	666.7	0	93.6	40-125	0			
Fluoranthene	594.7	6.7	666.7	0	89.2	55-115	0			
Fluorene	477	6.7	666.7	0	71.5	50-110	0			
Indeno(1,2,3-cd)pyrene	562.3	6.7	666.7	0	84.3	40-120	0			
Naphthalene	408.3	6.7	666.7	0	61.2	40-105	0			
Pyrene	574	6.7	666.7	0	86.1	45-125	0			
Surr: 2-Fluorobiphenyl	1138	0	1667	0	68.3	12-100	0			
Surr: 4-Terphenyl-d14	1714	0	1667	0	103	25-137	0			
Surr: Nitrobenzene-d5	1048	0	1667	0	62.9	37-107	0			

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

Client: LT Environmental, Inc
 Work Order: 14071465
 Project: Specialty 2-4 7.28.14

QC BATCH REPORT

Batch ID: 61162 Instrument ID SVMS6 Method: SW846 8270D

MS				Sample ID: 14071489-01C MS				Units: µg/Kg		Analysis Date: 8/1/2014 11:26 AM	
Client ID:			Run ID: SVMS6_140801A			SeqNo:2873351		Prep Date: 7/31/2014		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Acenaphthene	888.4	13	1302	0	68.2	45-110	0				
Anthracene	1042	13	1302	0	80	55-105	0				
Benzo(a)anthracene	1000	13	1302	0	76.8	50-110	0				
Benzo(a)pyrene	1147	13	1302	0	88.1	50-110	0				
Benzo(b)fluoranthene	1159	13	1302	0	89	45-115	0				
Benzo(k)fluoranthene	1151	13	1302	0	88.4	45-115	0				
Chrysene	1055	13	1302	0	81	55-110	0				
Dibenzo(a,h)anthracene	1140	13	1302	0	87.5	40-125	0				
Fluoranthene	1045	13	1302	0	80.2	55-115	0				
Fluorene	971.7	13	1302	0	74.6	50-110	0				
Indeno(1,2,3-cd)pyrene	1133	13	1302	0	87	40-120	0				
Naphthalene	739.3	13	1302	0	56.8	40-105	0				
Pyrene	1077	13	1302	0	82.7	45-125	0				
Surr: 2-Fluorobiphenyl	2339	0	3254	0	71.9	12-100	0				
Surr: 4-Terphenyl-d14	3329	0	3254	0	102	25-137	0				
Surr: Nitrobenzene-d5	1906	0	3254	0	58.6	37-107	0				

MSD				Sample ID: 14071489-01C MSD				Units: µg/Kg		Analysis Date: 8/1/2014 11:47 AM	
Client ID:			Run ID: SVMS6_140801A			SeqNo:2873352		Prep Date: 7/31/2014		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Acenaphthene	836.8	13	1266	0	66.1	45-110	888.4	5.98	30		
Anthracene	879.9	13	1266	0	69.5	55-105	1042	16.9	30		
Benzo(a)anthracene	827.3	13	1266	0	65.3	50-110	1000	18.9	30		
Benzo(a)pyrene	945.7	13	1266	0	74.7	50-110	1147	19.2	30		
Benzo(b)fluoranthene	929.2	13	1266	0	73.4	45-115	1159	22	30		
Benzo(k)fluoranthene	952.7	13	1266	0	75.2	45-115	1151	18.8	30		
Chrysene	873.5	13	1266	0	69	55-110	1055	18.8	30		
Dibenzo(a,h)anthracene	924.2	13	1266	0	73	40-125	1140	20.9	30		
Fluoranthene	799.5	13	1266	0	63.1	55-115	1045	26.6	30		
Fluorene	872.3	13	1266	0	68.9	50-110	971.7	10.8	30		
Indeno(1,2,3-cd)pyrene	919.1	13	1266	0	72.6	40-120	1133	20.9	30		
Naphthalene	819.7	13	1266	0	64.7	40-105	739.3	10.3	30		
Pyrene	897.6	13	1266	0	70.9	45-125	1077	18.2	30		
Surr: 2-Fluorobiphenyl	2414	0	3165	0	76.3	12-100	2339	3.14	40		
Surr: 4-Terphenyl-d14	3100	0	3165	0	97.9	25-137	3329	7.13	40		
Surr: Nitrobenzene-d5	2156	0	3165	0	68.1	37-107	1906	12.3	40		

The following samples were analyzed in this batch:

14071465-01B 14071465-02B 14071465-03B

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

Client: LT Environmental, Inc
Work Order: 14071465
Project: Specialty 2-4 7.28.14

QC BATCH REPORT

Batch ID: **61088** Instrument ID **VMS5** Method: **SW8260B**

MBLK				Sample ID: MBLK-61088-61088				Units: µg/Kg			Analysis Date: 7/29/2014 03:46 PM			
Client ID:				Run ID: VMS5_140729A				SeqNo: 2868536			Prep Date: 7/29/2014		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	1038	0	1000	0	104	70-130	0							
Surr: 4-Bromofluorobenzene	960	0	1000	0	96	70-130	0							
Surr: Dibromofluoromethane	1020	0	1000	0	102	70-130	0							
Surr: Toluene-d8	1034	0	1000	0	103	70-130	0							

LCS				Sample ID: LCS-61088-61088			Units: µg/Kg		Analysis Date: 7/29/2014 02:30 PM		
Client ID:			Run ID: VMS5_140729A			SeqNo: 2868535		Prep Date: 7/29/2014		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Benzene	929	30	1000	0	92.9	75-125	0				
Ethylbenzene	1002	30	1000	0	100	75-125	0				
m,p-Xylene	2032	60	2000	0	102	80-125	0				
o-Xylene	1012	30	1000	0	101	75-125	0				
Toluene	969.5	30	1000	0	97	70-125	0				
Xylenes, Total	3044	90	3000	0	101	75-125	0				
Surr: 1,2-Dichloroethane-d4	999.5	0	1000	0	100	70-130	0				
Surr: 4-Bromofluorobenzene	992.5	0	1000	0	99.2	70-130	0				
Surr: Dibromofluoromethane	1016	0	1000	0	102	70-130	0				
Surr: Toluene-d8	1047	0	1000	0	105	70-130	0				

MS				Sample ID: 14071463-01A MS				Units: µg/Kg		Analysis Date: 8/4/2014 08:02 PM	
Client ID:			Run ID: VMS5_140804A		SeqNo: 2876806		Prep Date: 7/29/2014		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Benzene	988.5	30	1000	0	98.8	75-125	0				
Ethylbenzene	1030	30	1000	0	103	75-125	0				
m,p-Xylene	2172	60	2000	0	109	80-125	0				
o-Xylene	1048	30	1000	0	105	75-125	0				
Toluene	996.5	30	1000	0	99.6	70-125	0				
Xylenes, Total	3220	90	3000	0	107	75-125	0				
Surr: 1,2-Dichloroethane-d4	1026	0	1000	0	103	70-130	0				
Surr: 4-Bromofluorobenzene	992	0	1000	0	99.2	70-130	0				
Surr: Dibromofluoromethane	1056	0	1000	0	106	70-130	0				
Surr: Toluene-d8	1026	0	1000	0	103	70-130	0				

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

Client: LT Environmental, Inc
Work Order: 14071465
Project: Specialty 2-4 7.28.14

QC BATCH REPORT

Batch ID: **61088** Instrument ID **VMS5** Method: **SW8260B**

MSD				Sample ID: 14071463-01A MSD			Units: µg/Kg		Analysis Date: 8/4/2014 08:28 PM	
Client ID:				Run ID: VMS5_140804A			SeqNo: 2876807		Prep Date: 7/29/2014	
									DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	963	30	1000	0	96.3	75-125	988.5	2.61	30	
Ethylbenzene	1063	30	1000	0	106	75-125	1030	3.15	30	
m,p-Xylene	2230	60	2000	0	112	80-125	2172	2.61	30	
o-Xylene	1076	30	1000	0	108	75-125	1048	2.68	30	
Toluene	1003	30	1000	0	100	70-125	996.5	0.65	30	
Xylenes, Total	3306	90	3000	0	110	75-125	3220	2.64	30	
Surr: 1,2-Dichloroethane-d4	1019	0	1000	0	102	70-130	1026	0.636	30	
Surr: 4-Bromofluorobenzene	995	0	1000	0	99.5	70-130	992	0.302	30	
Surr: Dibromofluoromethane	1038	0	1000	0	104	70-130	1056	1.72	30	
Surr: Toluene-d8	1018	0	1000	0	102	70-130	1026	0.734	30	

The following samples were analyzed in this batch: 14071465-01A 14071465-02A 14071465-03A

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

Client: LT Environmental, Inc
Work Order: 14071465
Project: Specialty 2-4 7.28.14

QC BATCH REPORT

Batch ID: **61150** Instrument ID **WETCHEM** Method: **USDA H60 Method**

DUP		Sample ID: 14071463-01C DUP				Units: mmhos/cm @25°C		Analysis Date: 8/1/2014 04:00 PM		
Client ID:		Run ID: WETCHEM_140801Q				SeqNo: 2873510		Prep Date: 8/1/2014		DF: 10
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Electrical Conductivity @ Saturation	4.4	0.050	0	0	0		4.38	0.456	50	

The following samples were analyzed in this batch:

14071465-02C	14071465-03C
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Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: LT Environmental, Inc
Work Order: 14071465
Project: Specialty 2-4 7.28.14

QC BATCH REPORT

Batch ID: **61165** Instrument ID **WETCHEM** Method: **SW9045D**

LCS					Sample ID: LCS-61165-61165					Units:s.u.			Analysis Date: 7/31/2014 02:00 PM			
Client ID:					Run ID: WETCHEM_140731D					SeqNo:2870767			Prep Date: 7/31/2014		DF: 1	
Analyte					Result	PQL	SPK Val	SPK Ref Value	%REC		Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
pH					4.01	0	4	0	100		90-110	0				

DUP					Sample ID: 14071366-02A DUP					Units:s.u.		Analysis Date: 7/31/2014 02:00 PM		
Client ID:				Run ID: WETCHEM_140731D				SeqNo:2870769			Prep Date: 7/31/2014		DF: 1	
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual			
pH		8.74	0	0	0	0	0-0	8.78	0.457	20				

DUP				Sample ID: 14071562-01B DUP				Units: s.u.			Analysis Date: 7/31/2014 02:00 PM		
Client ID:				Run ID: WETCHEM_140731D				SeqNo: 2870789		Prep Date: 7/31/2014		DF: 1	
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual		
pH		7.39	0	0	0	0	0-0	7.46	0.943	20			

The following samples were analyzed in this batch:

14071465-01B	14071465-02B	14071465-03B
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Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: LT Environmental, Inc
Work Order: 14071465
Project: Specialty 2-4 7.28.14

QC BATCH REPORT

Batch ID: **61187** Instrument ID **WETCHEM** Method: **SW7196A**

MBLK		Sample ID: MBLK-61187-61187				Units: mg/Kg		Analysis Date: 7/31/2014 03:00 PM		
Client ID:		Run ID: WETCHEM_140731I				SeqNo: 2871308		Prep Date: 7/30/2014		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-61187-61187				Units: mg/Kg		Analysis Date: 7/31/2014 03:00 PM		
Client ID:		Run ID: WETCHEM_140731I				SeqNo: 2871309		Prep Date: 7/30/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent 1.868 0.50 2 0 93.4 80-120 0

MS		Sample ID: 14071488-02B MS				Units: mg/Kg		Analysis Date: 7/31/2014 03:00 PM		
Client ID:		Run ID: WETCHEM_140731I				SeqNo: 2871318		Prep Date: 7/30/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent 1.912 0.50 1.992 0.1548 88.2 75-125 0

MS		Sample ID: 14071488-02B MS High				Units: mg/Kg		Analysis Date: 7/31/2014 03:00 PM		
Client ID:		Run ID: WETCHEM_140731I				SeqNo: 2871319		Prep Date: 7/30/2014		DF: 5
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent 39.6 2.5 40 0.1548 98.6 75-125 0

MS		Sample ID: 14071488-02B MSI				Units: mg/Kg		Analysis Date: 7/31/2014 03:00 PM		
Client ID:		Run ID: WETCHEM_140731I				SeqNo: 2871321		Prep Date: 7/30/2014		DF: 100
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent 1321 50 1437 0.1548 92 75-125 0

MSD		Sample ID: 14071488-02B MSD				Units: mg/Kg		Analysis Date: 7/31/2014 03:00 PM		
Client ID:		Run ID: WETCHEM_140731I				SeqNo: 2871320		Prep Date: 7/30/2014		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Chromium, Hexavalent 2.254 0.50 1.984 0.1548 106 75-125 1.912 16.4 20

The following samples were analyzed in this batch:

14071465-01B 14071465-02B 14071465-03B

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

Client: LT Environmental, Inc
Work Order: 14071465
Project: Specialty 2-4 7.28.14

QC BATCH REPORT

Batch ID: **61195** Instrument ID **WETCHEM** Method: **USDA H60 Method**

DUP		Sample ID: 14071621-02C DUP				Units: mmhos/cm @25°C		Analysis Date: 8/4/2014 10:30 AM		
Client ID:		Run ID: WETCHEM_140804D				SeqNo: 2874937		Prep Date: 8/3/2014		DF: 10
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Electrical Conductivity @ Saturation	0.892	0.050	0	0	0		0.861	3.54	50	

The following samples were analyzed in this batch:

14071465-01C

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

Client: LT Environmental, Inc
Work Order: 14071465
Project: Specialty 2-4 7.28.14

QC BATCH REPORT

Batch ID: **R145437** Instrument ID **MOIST** Method: **A2540 G**

MBLK		Sample ID: WBLKS-R145437				Units: % of sample		Analysis Date: 7/30/2014 10:05 AM		
Client ID:		Run ID: MOIST_140730A				SeqNo: 2870476		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-R145437				Units: % of sample		Analysis Date: 7/30/2014 10:05 AM		
Client ID:		Run ID: MOIST_140730A				SeqNo: 2870475		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: 14071463-01B DUP				Units: % of sample		Analysis Date: 7/30/2014 10:05 AM		
Client ID:		Run ID: MOIST_140730A				SeqNo: 2870466		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Moisture 11.28 0.050 0 0 0 0-0 11.41 1.15 20

DUP		Sample ID: 14071464-01B DUP				Units: % of sample		Analysis Date: 7/30/2014 10:05 AM		
Client ID:		Run ID: MOIST_140730A				SeqNo: 2870468		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Moisture 12 0.050 0 0 0 0-0 11.57 3.65 20

The following samples were analyzed in this batch:

14071465-01B	14071465-02B	14071465-03B
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Note: See Qualifiers Page for a list of Qualifiers and their explanation.



CHAIN OF CUSTODY

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

COC number (for client tracking)


Page - 1 of

[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 2810 1044 Fax: +852 2810 2021 Email: HongKong@alsglobal.com

4.4°C



Sample Receipt Checklist

Client Name: **LTENV**

Date/Time Received: **29-Jul-14 09:00**

Work Order: **14071465**

Received by: **DS**

Checklist completed by Diane Shaw 30-Jul-14
eSignature Date

Reviewed by: Ann Preston 30-Jul-14
eSignature Date

Matrices: **Soil**

Carrier name: **FedEx**

Shipping container/cooler in good condition?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>
Custody seals intact on shipping container/cooler?	Yes <input 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>4.4 c</u>		
Cooler(s)/Kit(s):			
Date/Time sample(s) sent to storage:	<u>7/30/2014 10:00:52 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: (818) 399-8070
Nick Martinez
ALS Environmental
127 E. 1st Street

Origin ID: GRRA



Ship Date: 28 JUL 14
Act Wgt: 44.0 LB
CAD: 2284840/NET3550

Dims: 14 X 28 X 15 IN

PARACHUTE, MI 49424

SHIP TO: (818) 399-8070
sample receiving
ALS Laboratory Group
3352 128TH AVE

BILL BENDER

HOLLAND, MI 49424

Delivery Address Bar Code



Ref # 072814-1
Invoice #
PO # Parachute
Dept #

2 of 2

TUE - 29 JUL 10:30A
PRIORITY OVERNIGHT

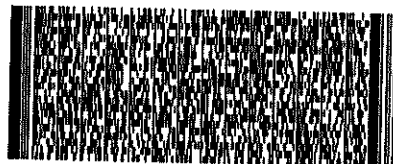
MP# 7707 0841 1180

Met# 7707 0841 1262

[291]

68 GRRA

49424
MI-US
GRR



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ALS Parachute Custody Seal

DATE 7-28

Time 1:22

Name