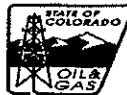


State of Colorado  
Oil and Gas Conservation Commission

1120 Lincoln Street, Suite 801, Denver, Colorado 80203 (303) 894-2100 Fax 894-2109



FOR OGCC USE ONLY

RECEIVED 08/15/2015  
PROJECT 9652  
SPILL 2232916  
Document 2526216

## 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.

OGCC Employee:

☐ Spill ☐ Complaint  
☐ Inspection ☐ NOAV

Tracking No: \_\_\_\_\_

## CAUSE OF CONDITION BEING INVESTIGATED AND REMEDIATED

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

## GENERAL INFORMATION

<b>OGCC Operator Number:</b> 47121		<b>Contact Name and Telephone</b>	
<b>Name of Operator:</b> Kerr-McGee Gathering LLC		<b>Name:</b> Charles Chase	
<b>Address:</b> 1099 18th Street, Suite 1800		<b>No:</b> (970) 336-3500	
<b>City:</b> Denver <b>State:</b> CO <b>Zip:</b> 80202		<b>Fax:</b> (720) 929-7726	
<b>API/Facility No:</b> Not Applicable		<b>County:</b> Weld	
<b>Facility Name:</b> Platteville Compressor Station		<b>Facility Number:</b> 421464	
<b>Well Name:</b> Not Applicable		<b>Well Number:</b> Not Applicable	
<b>Location (Qtr, Sec, Twp, Rng, Meridian):</b> NESE 13-T3N-R66W		<b>Latitude:</b> 40.22301 <b>Longitude:</b> -104.71955	

## TECHNICAL CONDITIONS

<b>Type of Waste Causing Impact (crude oil, condensate, produced water, etc.):</b> Oil and Produced Water	
<b>Site Conditions:</b> Is location within a sensitive area (according to Rule 901e)? <input type="checkbox"/> Y <input checked="" type="checkbox"/> N If yes, attach evaluation.	
<b>Adjacent land use (cultivated, irrigated, dry land farming, industrial, residential, etc.):</b> Rangeland	
<b>Soil type, if not previously identified on Form 2A or Federal Surface Use Plan:</b> Sand and Gravel	
<b>Potential receptors (water wells within 1/4 mi, surface waters, etc.):</b> Water well approximately 510' north, surface water approximately 525' southeast, building approximately 165' north, and depth to groundwater currently unknown.	
<b>Description of Impact (if previously provided, refer to that form or document):</b>	
<b>Impacted Media (check):</b>	<b>Extent of Impact:</b>
<input checked="" type="checkbox"/> Soils	180' SW-NE x 25' SE-NW x 1' bgs (outside of berm)
<input type="checkbox"/> Vegetation	Unknown - Excavation Activities Ongoing (within berm)
<input type="checkbox"/> Groundwater	
<input type="checkbox"/> Surface water	
<b>How Determined:</b> Collected soil samples for laboratory analysis	

## REMEDIATION WORKPLAN

<b>Describe initial action taken (if previously provided, refer to that form or document):</b> <p>On May 1, 2013, an inlet slug catcher level sensor failed causing the slug catcher to fill up and allow liquids to flow to the low pressure tank. The low pressure tank overflowed releasing approximately 45 barrels (bbls) of condensate within the lined tank battery containment berm. A small amount of condensate (&lt; 0.5 bbl) misted onto the surface soil outside of the tank battery berm and ran approximately 180 feet northeast due to melting snow. A vacuum truck was used to recover approximately 44.5 bbls of condensate from within the tank battery berm. The petroleum hydrocarbon impacted surface soil to the east of the tank battery was excavated. Groundwater was not encountered in the excavation. A topographic Site Location Map showing the general location of the release is attached as Figure 1.</p>
<b>Describe how source is to be removed:</b> <p>On May 6, 2013, four confirmation soil samples were collected from the base of the shallow excavation to the east of the tank battery and submitted for laboratory analysis of total petroleum hydrocarbons (TPH) and benzene, toluene, ethylbenzene, and total xylenes (BTEX). Laboratory results for the confirmation soil samples indicated that TPH and BTEX concentrations were less than the Colorado Oil and Gas Conservation Commission (COGCC) Table 910-1 allowable levels at the extent of the excavation. Approximately 300 cubic yards of impacted soil were removed from the excavation and transported to the Kerr-McGee land treatment facility in Weld County, Colorado and the Buffalo Ridge Landfill in Keenesburg, Colorado for disposal. The laboratory analytical results from the shallow excavation to the east of the tank battery are summarized on Table 1 and the laboratory analytical report is attached. The general site layout, excavation dimensions, and soil sample locations are depicted on the Excavation Site Map attached Figure 2.</p> <p>Excavation activities beneath the former tank battery are ongoing at the site. A total of 1,776 cubic yards of impacted soil have been removed from the site to date and transported to the Kerr-McGee land treatment facility in Weld County, Colorado. The details from the additional excavation and subsurface assessment activities will be provided on a Form 27 update report.</p>
<b>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.:</b> <p>The impacted soil was transported to the Kerr-McGee land treatment facility in Weld County, Colorado and the Buffalo Ridge landfill in Keenesburg, Colorado for disposal.</p>

State of Colorado  
Oil and Gas Conservation Commission  
1120 Lincoln Street, Suite 801, Denver, Colorado  
(303) 894-2100 Fax 894-2109



REMEDIAL WORKPLAN (CONT.)

OGCC Employee:

Tracking Number: \_\_\_\_\_  
Name of Operator: Kerr-McGee Gathering LLC  
OGCC Operator No: 47121  
Received Date: \_\_\_\_\_  
Well Name & No: \_\_\_\_\_  
Facility Name & No.: Platteville Compressor Station

If groundwater has been impacted, describe proposed monitoring plan (# of wells or sample points, sampling schedule, analytical methods, etc.):  
Subsurface assessment activities are ongoing at the site. If groundwater impacts are encountered, groundwater monitoring wells will be installed at the site to fully define the extent and magnitude of the release. The monitoring wells will be surveyed so that the groundwater flow direction can be accurately determined. Groundwater monitoring activities will be conducted on a quarterly basis and all groundwater samples will be submitted for laboratory analysis of BTEX. If groundwater impacts are not encountered during the subsurface assessment, Kerr-McGee will request a No Further Action status for this site.

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.  
The excavation area will be restored to its pre-release grade.

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:  
Subsurface assessment activities are ongoing at the site. The details from the additional excavation and subsurface assessment activities will be provided on a Form 27 Update Report.

Final disposition of E&P waste (landtreated and disposed onsite, name of licensed disposal facility, recycling, reuse, etc.):  
The impacted soil was transported to the Kerr-McGee land treatment facility in Weld County, Colorado and the Buffalo Ridge landfill in Keenesburg, Colorado for disposal.

IMPLEMENTATION SCHEDULE

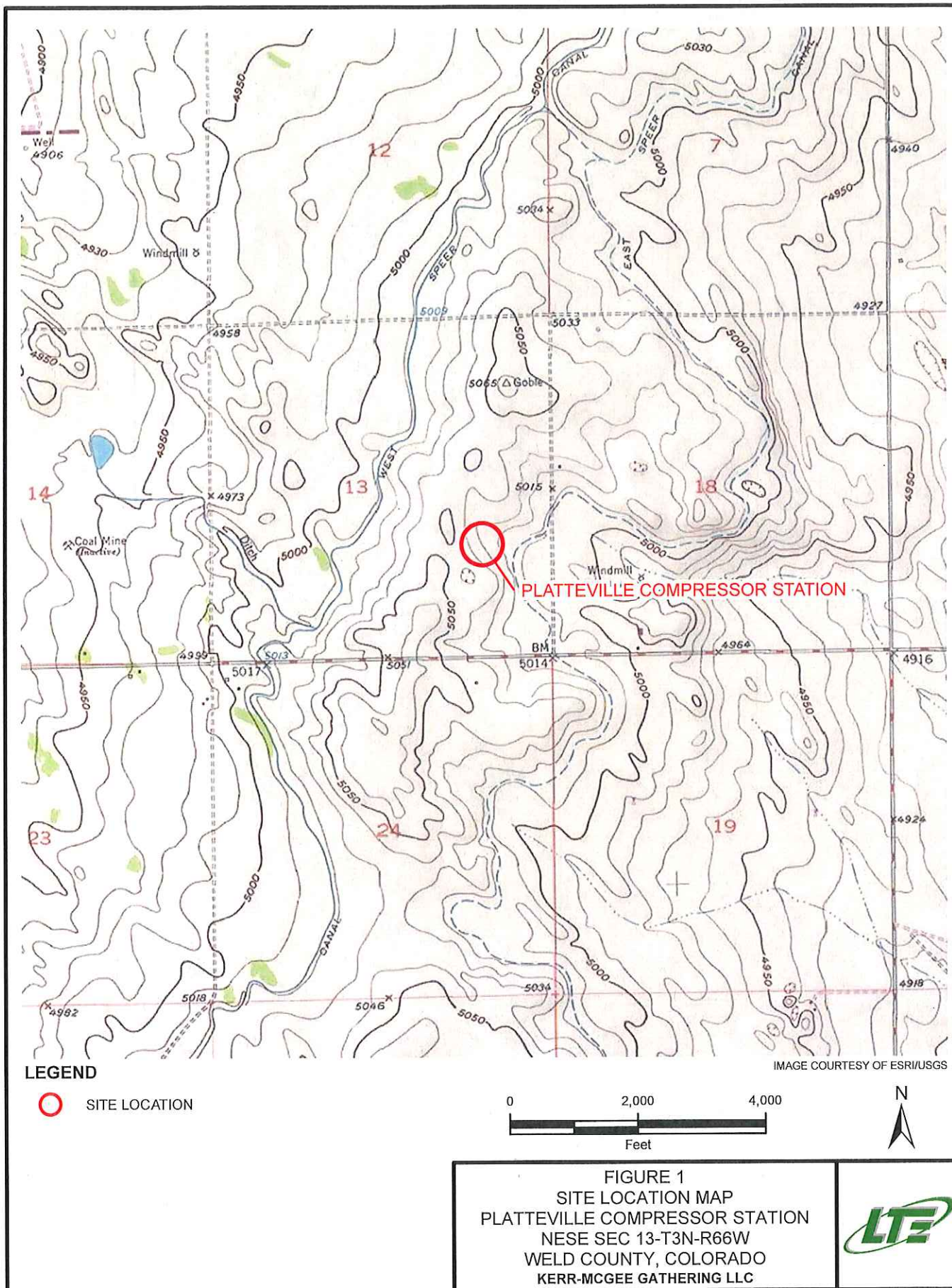
Date Site Investigation Began: <u>5/1/2013</u>	Date Site Investigation Completed: <u>Active</u>	Remediation Plan Submitted: _____
Remediation Start Date: <u>5/1/2013</u>	Anticipated Completion Date: <u>TBD</u>	Actual Completion Date: _____

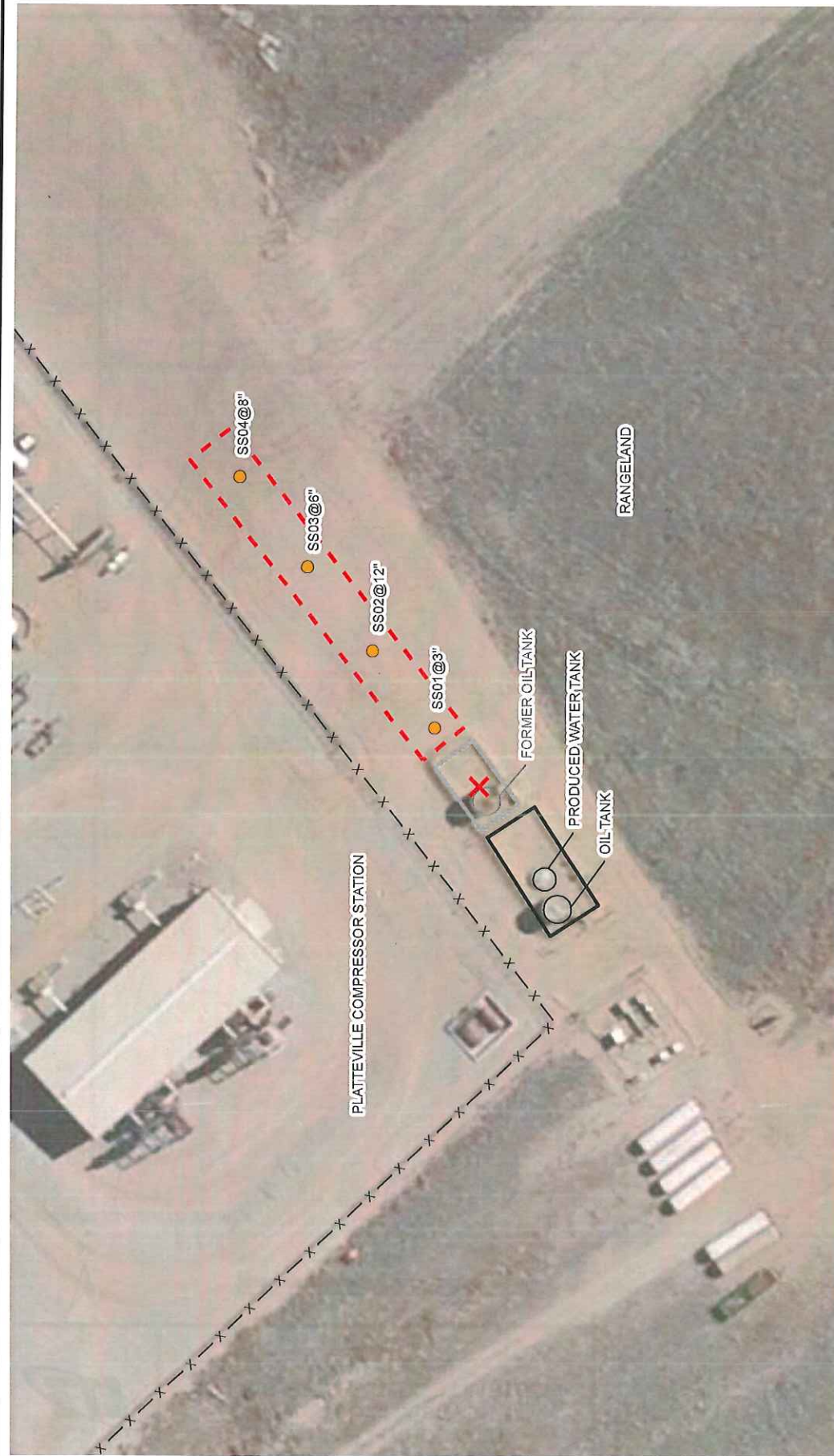
I hereby certify that the statements made in this form are, to the best of my knowledge, true, correct, and complete.

Print Name: Charles Chase

Signed:  Title: Staff HSE Representative Date: 8/12/15

OGCC Approved: \_\_\_\_\_ Title: \_\_\_\_\_ Date: \_\_\_\_\_





**LEGEND**

- X RELEASE LOCATION
- SOIL SAMPLE
- x — x FENCE
- MIST AREA EXCAVATION EXTENT
- BERM
- FORMER BERM

IMAGE COURTESY OF ESRI



**FIGURE 2**  
**EXCAVATION SITE MAP**  
**PLATTEVILLE COMPRESSOR STATION**  
**NESE SEC 13-T3N-R66W**  
**WELD COUNTY, COLORADO**  
**KERR-MCGEE GATHERING LLC**



**TABLE 1**  
**SOIL SAMPLE ANALYTICAL RESULTS**  
**PLATTEVILLE COMPRESSOR STATION**  
**WELD COUNTY, COLORADO**  
**KERR-MCGEE GATHERING LLC**

Soil Sample ID	Depth (bgs)	Date	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	DRO (mg/kg)	GRO (mg/kg)	ORO (mg/kg)
SS01@3"	3"	05/06/2013	<0.0050	<0.0050	<0.0050	<0.0050	130	1.7	<50
SS02@12"	12"	05/06/2013	<0.0050	<0.0050	<0.0050	<0.0050	<50	<0.50	<50
SS03@6"	6"	05/06/2013	<0.0050	<0.0050	<0.0050	<0.0050	<50	<0.50	<50
SS04@8"	8"	05/06/2013	<0.0050	<0.0050	<0.0050	<0.0050	<50	<0.50	<50
<b>COGCC Allowable Levels</b>			<b>0.17</b>	<b>85</b>	<b>100</b>	<b>175</b>	<b>500*</b>	<b>500*</b>	<b>500*</b>

Notes: bgs - below ground surface  
COGCC - Colorado Oil and Gas Conservation Commission  
DRO - diesel range organics  
GRO - gasoline range organics  
mg/kg - milligrams per kilogram

NA - not analyzed/not available  
ORO - oil range organics  
\* - Standard applies to combined DRO-GRO-ORO  
< - less than laboratory reporting limit  
Bold indicates result exceeds allowable level



# Summit Scientific

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741 Corporate Circle – Suite I ♦ Golden, Colorado 80401

303.277.9310 - laboratory ♦ 303.277.9531 - fax

May 07, 2013

John Cocroft  
LT Environmental, Inc.  
4600 West 60th Avenue  
Arvada, CO 80003  
RE: KMG - Platteville Station

Enclosed are the results of analyses for samples received by Summit Scientific on 05/06/13 15:45. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read 'P. Shrewsbury', with a stylized, cursive script.

Paul Shrewsbury For Ben Shrewsbury  
President / Laboratory Manager



LT Environmental, Inc.  
4600 West 60th Avenue  
Arvada CO, 80003

Project: KMG - Platteville Station  
Project Number: 0142  
Project Manager: John Cocroft

Reported:  
05/07/13 06:51

### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS01@3"	R305047-01	Soil	05/06/13 11:15	05/06/13 15:45
SS02@12"	R305047-02	Soil	05/06/13 11:16	05/06/13 15:45
SS03@6"	R305047-03	Soil	05/06/13 11:17	05/06/13 15:45
SS04@8"	R305047-04	Soil	05/06/13 11:18	05/06/13 15:45

Summit Scientific

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*



LT Environmental, Inc.  
4600 West 60th Avenue  
Arvada CO, 80003

Project: KMG - Platteville Station

Project Number: 0142  
Project Manager: John Cocroft

Reported:  
05/07/13 06:51

R305047

Summit Scientific

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303-277-9310 • 303-374-9933 Fax

Page 1 of 1

Client: LITE  
Address: 4600 West 60th Avenue  
City/State/Zip: Arvada CO 80003  
Phone: 303-433-9788 Fax: 303-433-1432  
Sample Name: Philip Hamilton  
Project Manager: J Cocroft  
E-Mail: jcocroft@summit-sc.com  
Project Name: Platteville Station  
Project Number: 0142

Sample Description	Date Sampled	Time Sampled	Number of Containers	Preservative				Matrix				Analyze For:	Special Instructions	
				HQ	None	Other (Specify)	Groundwater	Soil	Air - Canister Serial #	Other (Specify)				
SS0103*	5/6/2013	1115	1	X	X									
SS0201*	5/6/2013	1116	1	X	X									
SS0306*	5/6/2013	1117	1	X	X									
SS0402*	5/6/2013	1118	1	X	X									

Requested by: [Signature] Date/Time: 5/6/13 15:45  
Received by: [Signature] Date/Time: 5/6/13 15:45  
Retransmitted by: [Signature] Date/Time: 5/6/13 15:45  
Received by: [Signature] Date/Time: 5/6/13 15:45

Turn Around Time (Check)  
Same Day ☒ 24 Hours ☐ 48 Hours ☐ 72 Hours ☐ Standard ☐

Notes:

Sample Integrity:  
Temperature Upon Receipt: 4.9  
Intact: ☒ No ☐

www.summit-sc.com

Summit Scientific

[Signature]

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LT Environmental, Inc.  
4600 West 60th Avenue  
Arvada CO, 80003

Project: KMG - Platteville Station  
Project Number: 0142  
Project Manager: John Cocroft

Reported:  
05/07/13 06:51

SS01@3"  
R305047-01 (Soil)

Summit Scientific

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: 05/06/13 11:15

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (TEPH-DRO)	130	50	mg/kg	1	3050615	05/06/13	05/06/13	8015M	
C28-C36 (TEPH-ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: 05/06/13 11:15

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		116 %	30-150		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: 05/06/13 11:15

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0050	mg/kg	1	3050614	05/06/13	05/06/13	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	1.7	0.50	"	"	"	"	"	"	

Date Sampled: 05/06/13 11:15

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		106 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		101 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		97.6 %	21-167		"	"	"	"	

Summit Scientific

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LT Environmental, Inc.  
4600 West 60th Avenue  
Arvada CO, 80003

Project: KMG - Platteville Station  
Project Number: 0142  
Project Manager: John Cocroft

Reported:  
05/07/13 06:51

SS02@12"  
R305047-02 (Soil)

Summit Scientific

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: 05/06/13 11:16

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (TEPH-DRO)	ND	50	mg/kg	1	3050615	05/06/13	05/06/13	8015M	
C28-C36 (TEPH-ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: 05/06/13 11:16

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		110 %	30-150		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: 05/06/13 11:16

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0050	mg/kg	1	3050614	05/06/13	05/06/13	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: 05/06/13 11:16

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		105 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		101 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		100 %	21-167		"	"	"	"	

Summit Scientific

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LT Environmental, Inc.  
4600 West 60th Avenue  
Arvada CO, 80003

Project: KMG - Platteville Station  
Project Number: 0142  
Project Manager: John Cocroft

Reported:  
05/07/13 06:51

SS03@6"  
R305047-03 (Soil)

Summit Scientific

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: 05/06/13 11:17

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (TEPH-DRO)	ND	50	mg/kg	1	3050615	05/06/13	05/06/13	8015M	
C28-C36 (TEPH-ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: 05/06/13 11:17

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		113 %	30-150		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: 05/06/13 11:17

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0050	mg/kg	1	3050614	05/06/13	05/06/13	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: 05/06/13 11:17

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		111 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		100 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		95.8 %	21-167		"	"	"	"	

Summit Scientific

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LT Environmental, Inc.  
4600 West 60th Avenue  
Arvada CO, 80003

Project: KMG - Platteville Station  
Project Number: 0142  
Project Manager: John Cocroft

Reported:  
05/07/13 06:51

SS04@8"  
R305047-04 (Soil)

Summit Scientific

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: 05/06/13 11:18

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (TEPH-DRO)	ND	50	mg/kg	1	3050615	05/06/13	05/06/13	8015M	
C28-C36 (TEPH-ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: 05/06/13 11:18

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl		111 %	30-150		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: 05/06/13 11:18

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0050	mg/kg	1	3050614	05/06/13	05/06/13	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: 05/06/13 11:18

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		110 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		102 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		99.8 %	21-167		"	"	"	"	

Summit Scientific

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LT Environmental, Inc.  
4600 West 60th Avenue  
Arvada CO, 80003

Project: KMG - Platteville Station  
Project Number: 0142  
Project Manager: John Cocroft

Reported:  
05/07/13 06:51

**Extractable Petroleum Hydrocarbons by 8015 - Quality Control**  
**Summit Scientific**

Reporting				Spike	Source		%REC	RPD		
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 3050615 - EPA 3550A										
Blank (3050615-BLK1)				Prepared: 05/06/13 Analyzed: 05/07/13						
C10-C28 (TEPH-DRO)	ND	50	mg/kg							
C28-C36 (TEPH-ORO)	ND	50	"							
LCS (3050615-BS1)				Prepared: 05/06/13 Analyzed: 05/07/13						
C10-C28 (TEPH-DRO)	515	50	mg/kg	501		103	73-134			
LCS Dup (3050615-BSD1)				Prepared: 05/06/13 Analyzed: 05/07/13						
C10-C28 (TEPH-DRO)	489	50	mg/kg	501		97.6	73-134	5.12	11	
Matrix Spike (3050615-MS1)				Source: R305047-01		Prepared: 05/06/13 Analyzed: 05/07/13				
C10-C28 (TEPH-DRO)	568	50	mg/kg	501	126	88.3	50-148			
Matrix Spike Dup (3050615-MSD1)				Source: R305047-01		Prepared: 05/06/13 Analyzed: 05/07/13				
C10-C28 (TEPH-DRO)	543	50	mg/kg	501	126	83.4	50-148	4.41	13	

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LT Environmental, Inc.  
4600 West 60th Avenue  
Arvada CO, 80003

Project: KMG - Platteville Station  
Project Number: 0142  
Project Manager: John Cocroft

Reported:  
05/07/13 06:51

**Volatile Organic Compounds by EPA Method 8260B - Quality Control**  
**Summit Scientific**

Analyte	Reporting			Spike Level	Source		%REC		RPD	
	Result	Limit	Units		Result	%REC	Limits	RPD	Limit	Notes

**Batch 3050614 - EPA 5030 Soil MS**

**Blank (3050614-BLK1)**

Prepared & Analyzed: 05/06/13

Benzene	ND	0.0050	mg/kg							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.0050	"							
Gasoline Range Hydrocarbons	ND	0.50	"							
Surrogate: 1,2-Dichloroethane-d4	0.0421		"	0.0397	106	23-173				
Surrogate: Toluene-d8	0.0396		"	0.0400	99.0	20-170				
Surrogate: 4-Bromofluorobenzene	0.0416		"	0.0400	104	21-167				

**LCS (3050614-BS1)**

Prepared & Analyzed: 05/06/13

Benzene	0.0838	0.0050	mg/kg	0.100	83.8	58-130				
Toluene	0.0964	0.0050	"	0.100	96.4	61-134				
Ethylbenzene	0.118	0.0050	"	0.100	118	74-139				
m,p-Xylene	0.224	0.010	"	0.200	112	73-137				
o-Xylene	0.115	0.0050	"	0.100	115	73-141				
Surrogate: 1,2-Dichloroethane-d4	0.0411		"	0.0397	103	23-173				
Surrogate: Toluene-d8	0.0397		"	0.0400	99.2	20-170				
Surrogate: 4-Bromofluorobenzene	0.0400		"	0.0400	100	21-167				

**LCS Dup (3050614-BSD1)**

Prepared: 05/06/13 Analyzed: 05/07/13

Benzene	0.0856	0.0050	mg/kg	0.100	85.6	58-130	2.09	13		
Toluene	0.0976	0.0050	"	0.100	97.6	61-134	1.24	16		
Ethylbenzene	0.122	0.0050	"	0.100	122	74-139	3.06	12		
m,p-Xylene	0.229	0.010	"	0.200	114	73-137	2.18	14		
o-Xylene	0.116	0.0050	"	0.100	116	73-141	0.674	12		
Surrogate: 1,2-Dichloroethane-d4	0.0406		"	0.0397	102	23-173				
Surrogate: Toluene-d8	0.0398		"	0.0400	99.4	20-170				
Surrogate: 4-Bromofluorobenzene	0.0394		"	0.0400	98.5	21-167				

Summit Scientific

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LT Environmental, Inc.  
4600 West 60th Avenue  
Arvada CO, 80003

Project: KMG - Platteville Station  
Project Number: 0142  
Project Manager: John Cocroft

Reported:  
05/07/13 06:51

**Volatile Organic Compounds by EPA Method 8260B - Quality Control**  
**Summit Scientific**

Analyte	Reporting			Spike	Source		%REC		RPD	
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

**Batch 3050614 - EPA 5030 Soil MS**

**Matrix Spike (3050614-MS1)** Source: R305047-01 Prepared: 05/06/13 Analyzed: 05/07/13

Benzene	0.0808	0.0050	mg/kg	0.100	ND	80.8	30-131		
Toluene	0.0926	0.0050	"	0.100	ND	92.6	30-134		
Ethylbenzene	0.115	0.0050	"	0.100	ND	115	22-153		
m,p-Xylene	0.217	0.010	"	0.200	ND	108	10-159		
o-Xylene	0.113	0.0050	"	0.100	ND	113	31-151		
Surrogate: 1,2-Dichloroethane-d4	0.0440		"	0.0397		111	23-173		
Surrogate: Toluene-d8	0.0390		"	0.0400		97.4	20-170		
Surrogate: 4-Bromofluorobenzene	0.0391		"	0.0400		97.8	21-167		

**Matrix Spike Dup (3050614-MSD1)** Source: R305047-01 Prepared: 05/06/13 Analyzed: 05/07/13

Benzene	0.0833	0.0050	mg/kg	0.100	ND	83.3	30-131	3.03	34
Toluene	0.0949	0.0050	"	0.100	ND	94.9	30-134	2.50	30
Ethylbenzene	0.120	0.0050	"	0.100	ND	120	22-153	4.16	24
m,p-Xylene	0.224	0.010	"	0.200	ND	112	10-159	3.11	68
o-Xylene	0.116	0.0050	"	0.100	ND	116	31-151	3.25	38
Surrogate: 1,2-Dichloroethane-d4	0.0444		"	0.0397		112	23-173		
Surrogate: Toluene-d8	0.0395		"	0.0400		98.8	20-170		
Surrogate: 4-Bromofluorobenzene	0.0398		"	0.0400		99.4	21-167		

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### Notes and Definitions

DET Analyte DETECTED  
ND Analyte NOT DETECTED at or above the reporting limit  
NR Not Reported  
dry Sample results reported on a dry weight basis  
RPD Relative Percent Difference

Summit Scientific

A handwritten signature in black ink, appearing to be 'J. Cocroft'.

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