

# Summit Scientific

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741 Corporate Circle – Suite I ♦ Golden, Colorado 80401

303.277.9310 - laboratory ♦ 303.374.5933 - fax

May 01, 2009

John Cocroft  
LT Environmental, Inc.  
4600 West 60th Avenue  
Arvada, CO 80003  
RE: KMG - HSR-Selby 1-32

Enclosed are the results of analyses for samples received by Summit Scientific on 04/28/09 16:35. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to be 'BS' or 'Shrewsbury', with a long, sweeping horizontal line extending to the right.

Ben Shrewsbury  
Vice President / Laboratory Director

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

Project: KMG - HSR-Selby 1-32

Project Number: KMG09482  
Project Manager: John Cocroft

**Reported:**  
05/01/09 12:42

### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
N01@2'	R904141-01	Soil	04/28/09 14:00	04/28/09 16:35
S01@2'	R904141-02	Soil	04/28/09 14:10	04/28/09 16:35
W01@2'	R904141-03	Soil	04/28/09 13:55	04/28/09 16:35
E01@2'	R904141-04	Soil	04/28/09 14:05	04/28/09 16:35
GW01	R904141-05	Water	04/28/09 14:15	04/28/09 16:35

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Project Number: KMG09482  
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Reported:  
05/01/09 12:42

## Summit Scientific

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741 Corporate Circle Suite I ♦ Golden, Colorado 80401  
303-277-9310 ♦ 303-277-9531 Fax

Client: LT Environmental, Inc.

Address: 4600 West 60th Avenue

City/State/Zip: Arvada, CO 80003

Phone: (303) 433-9788 Fax: (303) 433-1432

Sampler Name: Phillip Hamilton

Project Manager:

E-Mail:

Project Name: HSR SELLRY 1-72

Project Number: ~~HEW~~ KH6-09482

Page 7 of 7

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

Project: KMG - HSR-Selby 1-32

Project Number: KMG09482  
Project Manager: John Cocroft

Reported:  
05/01/09 12:42

**N01@2'**  
**R904141-01 (Soil)**

**Summit Scientific**

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **04/28/09 14:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C6-C10 (TEPH-GRO)	ND	50	mg/kg	1	9042902	04/29/09	04/29/09	8015 Full Carbon Chain	
C10-C28 (TEPH-DRO)	ND	50	"	"	"	"	"	"	
C28-C36 (TEPH-ORO)	ND	50	"	"	"	"	"	"	
C6-C36 Total TEPH	ND	50	"	"	"	"	"	"	

Date Sampled: **04/28/09 14:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: <i>o</i> -Terphenyl		101 %	77.7-123		"	"	"	"	
Surrogate: Trifluorotoluene		127 %	73.9-120		"	"	"	"	

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **04/28/09 14:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	5.0	ug/kg	1	9042901	04/29/09	04/29/09	EPA 8260B	
Toluene	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	
Xylenes (total)	ND	5.0	"	"	"	"	"	"	

Date Sampled: **04/28/09 14:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		110 %	77.3-121		"	"	"	"	
Surrogate: Toluene-d8		104 %	91.4-107		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		104 %	85.3-109		"	"	"	"	

**Physical Parameters by APHA/ASTM/EPA Methods**

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Reported:  
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**N01@2'**  
**R904141-01 (Soil)**

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**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **04/28/09 14:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	896	1.00	umhos/cm	1	9042904	04/29/09	04/29/09	SM 2510b/mod	

Date Sampled: **04/28/09 14:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.3		pH Units	"	9042903	04/29/09	04/29/09	EPA 9045B	

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Project Number: KMG09482  
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Reported:  
05/01/09 12:42

**S01@2'**  
**R904141-02 (Soil)**

**Summit Scientific**

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **04/28/09 14:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C6-C10 (TEPH-GRO)	ND	50	mg/kg	1	9042902	04/29/09	04/29/09	8015 Full Carbon Chain	
C10-C28 (TEPH-DRO)	ND	50	"	"	"	"	"	"	
C28-C36 (TEPH-ORO)	ND	50	"	"	"	"	"	"	
C6-C36 Total TEPH	ND	50	"	"	"	"	"	"	

Date Sampled: **04/28/09 14:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		101 %	77.7-123		"	"	"	"	
Surrogate: Trifluorotoluene		122 %	73.9-120		"	"	"	"	

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **04/28/09 14:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	5.0	ug/kg	1	9042901	04/29/09	04/29/09	EPA 8260B	
Toluene	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	
Xylenes (total)	ND	5.0	"	"	"	"	"	"	

Date Sampled: **04/28/09 14:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		126 %	77.3-121		"	"	"	"	
Surrogate: Toluene-d8		101 %	91.4-107		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		102 %	85.3-109		"	"	"	"	

**Physical Parameters by APHA/ASTM/EPA Methods**

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Reported:  
05/01/09 12:42

**S01@2'**  
**R904141-02 (Soil)**

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**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **04/28/09 14:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	711	1.00	umhos/cm	1	9042904	04/29/09	04/29/09	SM 2510b/mod	

Date Sampled: **04/28/09 14:10**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.7		pH Units	"	9042903	04/29/09	04/29/09	EPA 9045B	

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**W01@2'**  
**R904141-03 (Soil)**

**Summit Scientific**

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **04/28/09 13:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C6-C10 (TEPH-GRO)	ND	50	mg/kg	1	9042902	04/29/09	04/29/09	8015 Full Carbon Chain	
C10-C28 (TEPH-DRO)	ND	50	"	"	"	"	"	"	
C28-C36 (TEPH-ORO)	ND	50	"	"	"	"	"	"	
C6-C36 Total TEPH	ND	50	"	"	"	"	"	"	

Date Sampled: **04/28/09 13:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		102 %	77.7-123		"	"	"	"	
Surrogate: Trifluorotoluene		122 %	73.9-120		"	"	"	"	

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **04/28/09 13:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	5.0	ug/kg	1	9042901	04/29/09	04/29/09	EPA 8260B	
Toluene	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	
Xylenes (total)	ND	5.0	"	"	"	"	"	"	

Date Sampled: **04/28/09 13:55**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		131 %	77.3-121		"	"	"	"	
Surrogate: Toluene-d8		103 %	91.4-107		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		106 %	85.3-109		"	"	"	"	

**Physical Parameters by APHA/ASTM/EPA Methods**

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**W01@2'**  
**R904141-03 (Soil)**

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**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **04/28/09 13:55**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Specific Conductance (EC)	<b>618</b>	1.00	umhos/cm	1	9042904	04/29/09	04/29/09	SM 2510b/mod	

Date Sampled: **04/28/09 13:55**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<b>pH</b>	<b>8.1</b>		pH Units	"	9042903	04/29/09	04/29/09	EPA 9045B	

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Reported:  
05/01/09 12:42

**E01@2'**  
**R904141-04 (Soil)**

**Summit Scientific**

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **04/28/09 14:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>C6-C10 (TEPH-GRO)</b>	<b>53</b>	50	mg/kg	1	9042805	04/28/09	04/29/09	8015 Full Carbon Chain	
<b>C10-C28 (TEPH-DRO)</b>	<b>110</b>	50	"	"	"	"	"	"	
C28-C36 (TEPH-ORO)	ND	50	"	"	"	"	"	"	
<b>C6-C36 Total TEPH</b>	<b>160</b>	50	"	"	"	"	"	"	

Date Sampled: **04/28/09 14:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		92.8 %	77.7-123		"	"	"	"	
Surrogate: Trifluorotoluene		92.8 %	73.9-120		"	"	"	"	

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **04/28/09 14:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	5.0	ug/kg	1	9042808	04/28/09	04/28/09	EPA 8260B	
Toluene	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	
Xylenes (total)	ND	5.0	"	"	"	"	"	"	

Date Sampled: **04/28/09 14:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		129 %	77.3-121		"	"	"	"	
Surrogate: Toluene-d8		97.5 %	91.4-107		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		107 %	85.3-109		"	"	"	"	

**Physical Parameters by APHA/ASTM/EPA Methods**

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05/01/09 12:42

**E01@2'**  
**R904141-04 (Soil)**

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**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **04/28/09 14:05**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Specific Conductance (EC)	948	1.00	umhos/cm	1	9042806	04/28/09	04/29/09	SM 2510b/mod	

Date Sampled: **04/28/09 14:05**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
pH	7.5		pH Units	"	9042807	04/28/09	"	EPA 9045B	

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05/01/09 12:42

**GW01**  
**R904141-05 (Water)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **04/28/09 14:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Benzene</b>	<b>130</b>	1.0	ug/l	1	9042809	04/28/09	04/29/09	EPA 8260B	
<b>Toluene</b>	<b>150</b>	1.0	"	"	"	"	"	"	
<b>Ethylbenzene</b>	<b>9.4</b>	1.0	"	"	"	"	"	"	
<b>Xylenes (total)</b>	<b>97</b>	1.0	"	"	"	"	"	"	

Date Sampled: **04/28/09 14:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: 1,2-Dichloroethane-d4</i>		105 %	77.3-121		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		103 %	91.4-107		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		106 %	85.3-109		"	"	"	"	

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Project Number: KMG09482  
Project Manager: John Cocroft

Reported:  
05/01/09 12:42

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

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

**Batch 9042805 - EPA 3550A**

**Blank (9042805-BLK1)**

Prepared: 04/28/09 Analyzed: 04/29/09

C6-C10 (TEPH-GRO)	ND	50	mg/kg
C10-C28 (TEPH-DRO)	ND	50	"
C28-C36 (TEPH-ORO)	ND	50	"
C6-C36 Total TEPH	ND	50	"

**LCS (9042805-BS1)**

Prepared: 04/28/09 Analyzed: 04/29/09

C6-C10 (TEPH-GRO)	512	50	mg/kg	519	98.7	70-130
C10-C28 (TEPH-DRO)	ND	50	"			83.3-127

**LCS Dup (9042805-BSD1)**

Prepared: 04/28/09 Analyzed: 04/29/09

C6-C10 (TEPH-GRO)	467	50	mg/kg	519	90.0	70-130	9.19	20
C10-C28 (TEPH-DRO)	ND	50	"			83.3-127		15

**Matrix Spike (9042805-MS1)**

Source: R904141-04

Prepared: 04/28/09 Analyzed: 04/29/09

C6-C10 (TEPH-GRO)	446	50	mg/kg	519	53	75.7	70-130
C10-C28 (TEPH-DRO)	ND	50	"		110		75.8-126

**Matrix Spike (9042805-MS2)**

Source: R904141-04

Prepared: 04/28/09 Analyzed: 04/29/09

C6-C10 (TEPH-GRO)	ND	50	mg/kg		53		70-130
C10-C28 (TEPH-DRO)	520	50	"	500	110	82.0	75.8-126

**Matrix Spike Dup (9042805-MSD1)**

Source: R904141-04

Prepared: 04/28/09 Analyzed: 04/29/09

C6-C10 (TEPH-GRO)	441	50	mg/kg	519	53	74.8	70-130	1.13	20
C10-C28 (TEPH-DRO)	ND	50	"		110	75.8-126			13.6

**Matrix Spike Dup (9042805-MSD2)**

Source: R904141-04

Prepared: 04/28/09 Analyzed: 04/29/09

C6-C10 (TEPH-GRO)	ND	50	mg/kg		53	70-130			20
C10-C28 (TEPH-DRO)	501	50	"	500	110	78.2	75.8-126	3.72	13.6

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

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

**Batch 9042902 - EPA 3550A**

**Blank (9042902-BLK1)**

Prepared: 04/29/09 Analyzed: 04/30/09

C6-C10 (TEPH-GRO)	ND	50	mg/kg
C10-C28 (TEPH-DRO)	ND	50	"
C28-C36 (TEPH-ORO)	ND	50	"
C6-C36 Total TEPH	ND	50	"

**Blank (9042902-BLK2)**

Prepared: 04/29/09 Analyzed: 04/30/09

C6-C10 (TEPH-GRO)	ND	50	mg/kg
C10-C28 (TEPH-DRO)	ND	50	"
C28-C36 (TEPH-ORO)	ND	50	"
C6-C36 Total TEPH	ND	50	"

**LCS (9042902-BS1)**

Prepared: 04/29/09 Analyzed: 04/30/09

C6-C10 (TEPH-GRO)	ND	50	mg/kg			70-130
C10-C28 (TEPH-DRO)	558	50	"	500	112	83.3-127

**LCS (9042902-BS2)**

Prepared: 04/29/09 Analyzed: 04/30/09

C6-C10 (TEPH-GRO)	ND	50	mg/kg			70-130
C10-C28 (TEPH-DRO)	576	50	"	500	115	83.3-127

**LCS (9042902-BS3)**

Prepared: 04/29/09 Analyzed: 04/30/09

C6-C10 (TEPH-GRO)	485	50	mg/kg	519	93.4	70-130
C10-C28 (TEPH-DRO)	ND	50	"			83.3-127

**LCS (9042902-BS4)**

Prepared: 04/29/09 Analyzed: 04/30/09

C6-C10 (TEPH-GRO)	511	50	mg/kg	519	98.5	70-130
C10-C28 (TEPH-DRO)	ND	50	"			83.3-127

**LCS Dup (9042902-BSD1)**

Prepared: 04/29/09 Analyzed: 04/30/09

C6-C10 (TEPH-GRO)	ND	50	mg/kg			70-130		20
C10-C28 (TEPH-DRO)	567	50	"	500	113	83.3-127	1.60	15

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Project Number: KMG09482  
Project Manager: John Cocroft

Reported:  
05/01/09 12:42

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

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

**Batch 9042902 - EPA 3550A**

**LCS Dup (9042902-BSD2)**

Prepared: 04/29/09 Analyzed: 04/30/09

C6-C10 (TEPH-GRO)	ND	50	mg/kg				70-130		20	
C10-C28 (TEPH-DRO)	578	50	"	500		116	83.3-127	0.347	15	

**LCS Dup (9042902-BSD3)**

Prepared: 04/29/09 Analyzed: 04/30/09

C6-C10 (TEPH-GRO)	523	50	mg/kg	519		101	70-130	7.54	20	
C10-C28 (TEPH-DRO)	ND	50	"				83.3-127		15	

**LCS Dup (9042902-BSD4)**

Prepared: 04/29/09 Analyzed: 04/30/09

C6-C10 (TEPH-GRO)	505	50	mg/kg	519		97.3	70-130	1.18	20	
C10-C28 (TEPH-DRO)	ND	50	"				83.3-127		15	

**Matrix Spike (9042902-MS1)**

Source: R904134-02

Prepared: 04/29/09 Analyzed: 04/30/09

C6-C10 (TEPH-GRO)	ND	50	mg/kg		ND		70-130			
C10-C28 (TEPH-DRO)	505	50	"	500	ND	101	75.8-126			

**Matrix Spike (9042902-MS2)**

Source: R904134-02

Prepared: 04/29/09 Analyzed: 04/30/09

C6-C10 (TEPH-GRO)	ND	50	mg/kg		ND		70-130			
C10-C28 (TEPH-DRO)	478	50	"	500	ND	95.6	75.8-126			

**Matrix Spike (9042902-MS3)**

Source: R904134-03

Prepared: 04/29/09 Analyzed: 04/30/09

C6-C10 (TEPH-GRO)	559	50	mg/kg	519	ND	108	70-130			
C10-C28 (TEPH-DRO)	ND	50	"		ND		75.8-126			

**Matrix Spike (9042902-MS4)**

Source: R904134-03

Prepared: 04/29/09 Analyzed: 04/30/09

C6-C10 (TEPH-GRO)	542	50	mg/kg	519	ND	104	70-130			
C10-C28 (TEPH-DRO)	ND	50	"		ND		75.8-126			

**Matrix Spike Dup (9042902-MSD1)**

Source: R904134-02

Prepared: 04/29/09 Analyzed: 04/30/09

C6-C10 (TEPH-GRO)	ND	50	mg/kg		ND		70-130		20	
C10-C28 (TEPH-DRO)	478	50	"	500	ND	95.6	75.8-126	5.49	13.6	

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

Project: KMG - HSR-Selby 1-32

Project Number: KMG09482  
Project Manager: John Cocroft

Reported:  
05/01/09 12:42

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

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

**Batch 9042902 - EPA 3550A**

<b>Matrix Spike Dup (9042902-MSD2)</b>		<b>Source: R904134-02</b>			Prepared: 04/29/09		Analyzed: 04/30/09			
C6-C10 (TEPH-GRO)	ND	50	mg/kg		ND		70-130		20	
C10-C28 (TEPH-DRO)	476	50	"	500	ND	95.2	75.8-126	0.419	13.6	
<b>Matrix Spike Dup (9042902-MSD3)</b>		<b>Source: R904134-03</b>			Prepared: 04/29/09		Analyzed: 04/30/09			
C6-C10 (TEPH-GRO)	556	50	mg/kg	519	ND	107	70-130	0.538	20	
C10-C28 (TEPH-DRO)	ND	50	"		ND		75.8-126		13.6	
<b>Matrix Spike Dup (9042902-MSD4)</b>		<b>Source: R904134-03</b>			Prepared: 04/29/09		Analyzed: 04/30/09			
C6-C10 (TEPH-GRO)	552	50	mg/kg	519	ND	106	70-130	1.83	20	
C10-C28 (TEPH-DRO)	ND	50	"		ND		75.8-126		13.6	

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Arvada CO, 80003

Project: KMG - HSR-Selby 1-32

Project Number: KMG09482  
Project Manager: John Cocroft

Reported:  
05/01/09 12:42

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

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

**Batch 9042808 - EPA 5030 Soil MS**

**Blank (9042808-BLK1)**

Prepared & Analyzed: 04/28/09

Benzene	ND	5.0	ug/kg
Toluene	ND	5.0	"
Ethylbenzene	ND	5.0	"
Xylenes (total)	ND	5.0	"

Surrogate: 1,2-Dichloroethane-d4	50.4	"	40.0	126	77.3-121
Surrogate: Toluene-d8	39.4	"	40.0	98.5	91.4-107
Surrogate: 4-Bromofluorobenzene	43.5	"	40.0	109	85.3-109

**LCS (9042808-BS1)**

Prepared & Analyzed: 04/28/09

Benzene	80.7	5.0	ug/kg	100	80.7	70-114
Toluene	87.5	5.0	"	100	87.5	72.7-116
Surrogate: 1,2-Dichloroethane-d4	54.5		"	40.0	136	77.3-121
Surrogate: Toluene-d8	39.2		"	40.0	98.0	91.4-107
Surrogate: 4-Bromofluorobenzene	45.1		"	40.0	113	85.3-109

**LCS Dup (9042808-BSD1)**

Prepared & Analyzed: 04/28/09

Benzene	83.9	5.0	ug/kg	100	83.9	70-114	3.89	8.14
Toluene	87.8	5.0	"	100	87.8	72.7-116	0.342	7.88
Surrogate: 1,2-Dichloroethane-d4	54.1		"	40.0	135	77.3-121		
Surrogate: Toluene-d8	39.5		"	40.0	98.8	91.4-107		
Surrogate: 4-Bromofluorobenzene	42.6		"	40.0	106	85.3-109		

**Matrix Spike (9042808-MS1)**

Source: R904141-04

Prepared & Analyzed: 04/28/09

Benzene	85.7	5.0	ug/kg	100	ND	85.7	66.8-117
Toluene	91.6	5.0	"	100	ND	91.6	71.5-117
Surrogate: 1,2-Dichloroethane-d4	51.3		"	40.0		128	77.3-121
Surrogate: Toluene-d8	39.3		"	40.0		98.2	91.4-107
Surrogate: 4-Bromofluorobenzene	41.8		"	40.0		104	85.3-109

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

Project: KMG - HSR-Selby 1-32  
Project Number: KMG09482  
Project Manager: John Cocroft

Reported:  
05/01/09 12:42

**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 9042808 - EPA 5030 Soil MS**

**Matrix Spike Dup (9042808-MSD1)**

**Source: R904141-04**

Prepared & Analyzed: 04/28/09

Benzene	86.3	5.0	ug/kg	100	ND	86.3	66.8-117	0.698	17.8	
Toluene	93.7	5.0	"	100	ND	93.7	71.5-117	2.27	14.4	
Surrogate: 1,2-Dichloroethane-d4	53.2		"	40.0		133	77.3-121			
Surrogate: Toluene-d8	39.3		"	40.0		98.2	91.4-107			
Surrogate: 4-Bromofluorobenzene	42.4		"	40.0		106	85.3-109			

**Batch 9042809 - EPA 5030 Water MS**

**Blank (9042809-BLK1)**

Prepared: 04/28/09 Analyzed: 04/29/09

Benzene	ND	1.0	ug/l							
Toluene	ND	1.0	"							
Ethylbenzene	ND	1.0	"							
Xylenes (total)	ND	1.0	"							
Surrogate: 1,2-Dichloroethane-d4	14.5		"	13.3		109	77.3-121			
Surrogate: Toluene-d8	13.3		"	13.3		100	91.4-107			
Surrogate: 4-Bromofluorobenzene	13.8		"	13.3		104	85.3-109			

**LCS (9042809-BS1)**

Prepared: 04/28/09 Analyzed: 04/29/09

Benzene	28.7	1.0	ug/l	33.3		86.2	70-114			
Toluene	31.1	1.0	"	33.3		93.4	72.7-116			
Surrogate: 1,2-Dichloroethane-d4	14.1		"	13.3		106	77.3-121			
Surrogate: Toluene-d8	13.2		"	13.3		99.2	91.4-107			
Surrogate: 4-Bromofluorobenzene	13.5		"	13.3		102	85.3-109			

**LCS Dup (9042809-BSD1)**

Prepared: 04/28/09 Analyzed: 04/29/09

Benzene	29.1	1.0	ug/l	33.3		87.4	70-114	1.38	8.14	
Toluene	31.4	1.0	"	33.3		94.3	72.7-116	0.960	7.88	
Surrogate: 1,2-Dichloroethane-d4	14.4		"	13.3		108	77.3-121			
Surrogate: Toluene-d8	13.0		"	13.3		97.7	91.4-107			
Surrogate: 4-Bromofluorobenzene	13.6		"	13.3		102	85.3-109			

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

Project: KMG - HSR-Selby 1-32  
Project Number: KMG09482  
Project Manager: John Cocroft

Reported:  
05/01/09 12:42

**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 9042809 - EPA 5030 Water MS**

<b>Matrix Spike (9042809-MS1)</b>		<b>Source: R904141-05</b>			Prepared: 04/28/09		Analyzed: 04/29/09				
Benzene	157	1.0	ug/l	33.3	130	81.1	66.8-117				
Toluene	173	1.0	"	33.3	150	69.1	71.5-117				QM-4X
Surrogate: 1,2-Dichloroethane-d4	15.2		"	13.3		114	77.3-121				
Surrogate: Toluene-d8	13.4		"	13.3		101	91.4-107				
Surrogate: 4-Bromofluorobenzene	13.6		"	13.3		102	85.3-109				

<b>Matrix Spike Dup (9042809-MSD1)</b>		<b>Source: R904141-05</b>			Prepared: 04/28/09		Analyzed: 04/29/09				
Benzene	109	1.0	ug/l	33.3	130	NR	66.8-117	36.1	17.8		QM-4X
Toluene	122	1.0	"	33.3	150	NR	71.5-117	34.6	14.4		QM-4X
Surrogate: 1,2-Dichloroethane-d4	17.5		"	13.3		132	77.3-121				
Surrogate: Toluene-d8	13.5		"	13.3		102	91.4-107				
Surrogate: 4-Bromofluorobenzene	14.1		"	13.3		106	85.3-109				

**Batch 9042901 - EPA 5030 Soil MS**

<b>Blank (9042901-BLK1)</b>					Prepared: 04/29/09		Analyzed: 04/30/09				
Benzene	ND	5.0	ug/kg								
Toluene	ND	5.0	"								
Ethylbenzene	ND	5.0	"								
Xylenes (total)	ND	5.0	"								
Surrogate: 1,2-Dichloroethane-d4	47.2		"	40.0		118	77.3-121				
Surrogate: Toluene-d8	40.8		"	40.0		102	91.4-107				
Surrogate: 4-Bromofluorobenzene	42.1		"	40.0		105	85.3-109				

<b>Blank (9042901-BLK2)</b>					Prepared: 04/29/09		Analyzed: 04/30/09				
Benzene	ND	5.0	ug/kg								
Toluene	ND	5.0	"								
Ethylbenzene	ND	5.0	"								
Xylenes (total)	ND	5.0	"								
Surrogate: 1,2-Dichloroethane-d4	47.1		"	40.0		118	77.3-121				
Surrogate: Toluene-d8	39.6		"	40.0		99.0	91.4-107				
Surrogate: 4-Bromofluorobenzene	41.2		"	40.0		103	85.3-109				

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

Project: KMG - HSR-Selby 1-32

Project Number: KMG09482  
Project Manager: John Cocroft

Reported:  
05/01/09 12:42

**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 9042901 - EPA 5030 Soil MS**

**LCS (9042901-BS1)**

Prepared: 04/29/09 Analyzed: 04/30/09

Benzene	89.9	5.0	ug/kg	100		89.9	70-114			
Toluene	87.1	5.0	"	100		87.1	72.7-116			
Surrogate: 1,2-Dichloroethane-d4	48.2		"	40.0		120	77.3-121			
Surrogate: Toluene-d8	42.8		"	40.0		107	91.4-107			
Surrogate: 4-Bromofluorobenzene	41.6		"	40.0		104	85.3-109			

**LCS (9042901-BS2)**

Prepared: 04/29/09 Analyzed: 04/30/09

Benzene	84.6	5.0	ug/kg	100		84.6	70-114			
Toluene	86.5	5.0	"	100		86.5	72.7-116			
Surrogate: 1,2-Dichloroethane-d4	44.0		"	40.0		110	77.3-121			
Surrogate: Toluene-d8	41.6		"	40.0		104	91.4-107			
Surrogate: 4-Bromofluorobenzene	41.7		"	40.0		104	85.3-109			

**LCS Dup (9042901-BSD1)**

Prepared: 04/29/09 Analyzed: 04/30/09

Benzene	86.3	5.0	ug/kg	100		86.3	70-114	4.09	8.14	
Toluene	86.9	5.0	"	100		86.9	72.7-116	0.230	7.88	
Surrogate: 1,2-Dichloroethane-d4	47.5		"	40.0		119	77.3-121			
Surrogate: Toluene-d8	41.7		"	40.0		104	91.4-107			
Surrogate: 4-Bromofluorobenzene	42.4		"	40.0		106	85.3-109			

**LCS Dup (9042901-BSD2)**

Prepared: 04/29/09 Analyzed: 04/30/09

Benzene	85.6	5.0	ug/kg	100		85.6	70-114	1.18	8.14	
Toluene	88.3	5.0	"	100		88.3	72.7-116	2.06	7.88	
Surrogate: 1,2-Dichloroethane-d4	45.7		"	40.0		114	77.3-121			
Surrogate: Toluene-d8	41.6		"	40.0		104	91.4-107			
Surrogate: 4-Bromofluorobenzene	41.7		"	40.0		104	85.3-109			

**Matrix Spike (9042901-MS1)**

Source: R904134-01

Prepared: 04/29/09 Analyzed: 04/30/09

Benzene	86.6	5.0	ug/kg	100	ND	86.6	66.8-117			
Toluene	87.4	5.0	"	100	ND	87.4	71.5-117			
Surrogate: 1,2-Dichloroethane-d4	45.3		"	40.0		113	77.3-121			
Surrogate: Toluene-d8	40.7		"	40.0		102	91.4-107			
Surrogate: 4-Bromofluorobenzene	41.7		"	40.0		104	85.3-109			

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Project: KMG - HSR-Selby 1-32

Project Number: KMG09482  
Project Manager: John Cocroft

Reported:  
05/01/09 12:42

**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 9042901 - EPA 5030 Soil MS**

<b>Matrix Spike (9042901-MS2)</b>		<b>Source: R904134-01</b>			<b>Prepared: 04/29/09</b>		<b>Analyzed: 04/30/09</b>			
Benzene	90.3	5.0	ug/kg	100	ND	90.3	66.8-117			
Toluene	87.5	5.0	"	100	ND	87.5	71.5-117			
Surrogate: 1,2-Dichloroethane-d4	42.8		"	40.0		107	77.3-121			
Surrogate: Toluene-d8	40.9		"	40.0		102	91.4-107			
Surrogate: 4-Bromofluorobenzene	41.8		"	40.0		104	85.3-109			
<b>Matrix Spike Dup (9042901-MSD2)</b>		<b>Source: R904134-01</b>			<b>Prepared: 04/29/09</b>		<b>Analyzed: 04/30/09</b>			
Benzene	86.0	5.0	ug/kg	100	ND	86.0	66.8-117	4.88	17.8	
Toluene	86.9	5.0	"	100	ND	86.9	71.5-117	0.688	14.4	
Surrogate: 1,2-Dichloroethane-d4	45.3		"	40.0		113	77.3-121			
Surrogate: Toluene-d8	40.8		"	40.0		102	91.4-107			
Surrogate: 4-Bromofluorobenzene	41.7		"	40.0		104	85.3-109			

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4600 West 60th Avenue  
Arvada CO, 80003

Project: KMG - HSR-Selby 1-32

Project Number: KMG09482  
Project Manager: John Cocroft

Reported:  
05/01/09 12:42

**Physical Parameters by APHA/ASTM/EPA Methods - Quality Control**  
**Summit Scientific**

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

**Batch 9042806 - General Preparation**

**Duplicate (9042806-DUP1)**      **Source: R904141-04**      Prepared: 04/28/09      Analyzed: 04/29/09

Specific Conductance (EC)	820	1.00	umhos/cm	948	14.5	20
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**Batch 9042807 - General Preparation**

**Duplicate (9042807-DUP1)**      **Source: R904141-04**      Prepared: 04/28/09      Analyzed: 04/29/09

pH	7.2		pH Units	7.5	4.08	20
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**Batch 9042903 - General Preparation**

**Duplicate (9042903-DUP1)**      **Source: R904141-02**      Prepared & Analyzed: 04/29/09

pH	8.8		pH Units	8.7	1.14	20
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**Batch 9042904 - General Preparation**

**Duplicate (9042904-DUP1)**      **Source: R904141-02**      Prepared & Analyzed: 04/29/09

Specific Conductance (EC)	684	1.00	umhos/cm	711	3.87	20
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Summit Scientific

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4600 West 60th Avenue  
Arvada CO, 80003

Project: KMG - HSR-Selby 1-32  
Project Number: KMG09482  
Project Manager: John Cocroft

**Reported:**  
05/01/09 12:42

### Notes and Definitions

QM-4X The spike recovery was outside of QC acceptance limits for the MS and/or MSD due to analyte concentration at 4 times or greater the spike concentration. The QC batch was accepted based on LCS and/or LCSD recoveries within the acceptance limits.

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

