

Summit Scientific

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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,



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



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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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: KMG - HSR-Selby 1-32

Project Number: KMG09482
Project Manager: John Cocroft

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: <i>o</i> -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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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)

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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: <i>o</i> -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)	618	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						
pH	8.1		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
C6-C10 (TEPH-GRO)	53	50	mg/kg	1	9042805	04/28/09	04/29/09	8015 Full Carbon Chain	
C10-C28 (TEPH-DRO)	110	50	"	"	"	"	"	"	
C28-C36 (TEPH-ORO)	ND	50	"	"	"	"	"	"	
C6-C36 Total TEPH	160	50	"	"	"	"	"	"	

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: <i>o</i> -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)

Summit Scientific

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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Project: KMG - HSR-Selby 1-32

Project Number: KMG09482
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Reported:
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
Benzene	130	1.0	ug/l	1	9042809	04/28/09	04/29/09	EPA 8260B	
Toluene	150	1.0	"	"	"	"	"	"	
Ethylbenzene	9.4	1.0	"	"	"	"	"	"	
Xylenes (total)	97	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: 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 Level	Source		%REC		RPD		Notes
	Result	Limit	Units		Result	%REC	Limits	RPD	Limit		

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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Project Number: KMG09482
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Extractable Petroleum Hydrocarbons by 8015 - Quality Control
Summit Scientific

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

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

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05/01/09 12:42

Extractable Petroleum Hydrocarbons by 8015 - Quality Control
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Analyte	Reporting			Spike	Source	%REC			RPD	Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	

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	Notes
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	

Batch 9042902 - EPA 3550A

Matrix Spike Dup (9042902-MSD2)		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)	476	50	"	500	ND	95.2	75.8-126	0.419		13.6
Matrix Spike Dup (9042902-MSD3)		Source: R904134-03			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
Matrix Spike Dup (9042902-MSD4)		Source: R904134-03			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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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	"							
<i>Surrogate: 1,2-Dichloroethane-d4</i>	50.4		"	40.0		126	77.3-121			
<i>Surrogate: Toluene-d8</i>	39.4		"	40.0		98.5	91.4-107			
<i>Surrogate: 4-Bromofluorobenzene</i>	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			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	54.5		"	40.0		136	77.3-121			
<i>Surrogate: Toluene-d8</i>	39.2		"	40.0		98.0	91.4-107			
<i>Surrogate: 4-Bromofluorobenzene</i>	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	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	54.1		"	40.0		135	77.3-121			
<i>Surrogate: Toluene-d8</i>	39.5		"	40.0		98.8	91.4-107			
<i>Surrogate: 4-Bromofluorobenzene</i>	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			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	51.3		"	40.0		128	77.3-121			
<i>Surrogate: Toluene-d8</i>	39.3		"	40.0		98.2	91.4-107			
<i>Surrogate: 4-Bromofluorobenzene</i>	41.8		"	40.0		104	85.3-109			

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Project Manager: John Cocroft

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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

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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Project Number: KMG09482
Project Manager: John Cocroft

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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 9042809 - EPA 5030 Water MS

Matrix Spike (9042809-MS1)		Source: R904141-05			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			
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			
Matrix Spike Dup (9042809-MSD1)		Source: R904141-05			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

Blank (9042901-BLK1)		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			
Blank (9042901-BLK2)		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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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	

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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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 9042901 - EPA 5030 Soil MS

Matrix Spike (9042901-MS2)

Source: R904134-01 Prepared: 04/29/09 Analyzed: 04/30/09

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		

Matrix Spike Dup (9042901-MSD2)

Source: R904134-01 Prepared: 04/29/09 Analyzed: 04/30/09

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

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

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	

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	

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	

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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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

