

# Summit Scientific

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741 Corporate Circle – Suite I ♦ Golden, Colorado 80401

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June 29, 2009

John Cocroft  
LT Environmental, Inc.  
4600 West 60th Avenue  
Arvada, CO 80003  
RE: KMG - Nygren 5-19 Pad

Enclosed are the results of analyses for samples received by Summit Scientific on 05/18/09 17:16. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to be 'LS' followed by a long, sweeping horizontal line.

Logan Shrewsbury For Ben Shrewsbury  
Vice President / Laboratory Director

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

Project: KMG - Nygren 5-19 Pad

Project Number: KMG 09477.01  
Project Manager: John Cocroft

**Reported:**  
06/29/09 17:25

## ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
RPBG02	R905118-01	Soil	05/18/09 11:15	05/18/09 17:16

Summit Scientific  
R905118

52

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

Page ( of (

Client: LT Environmental, Inc.

Address: 4600 West 60th Avenue

City/State/Zip: Arvada, CO 80003

phone: (303) 433-9788

Sampler Name: hilo

**Project Manager:** John Cocroft

E-Mail:

Project N

Project N

Project Manager:

**E-Mail:**

Project Name:

Project Number:

John Cocroft

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John Cocroft . . .

[micocroft@ltenv.com](mailto:micocroft@ltenv.com)

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1. *Journal of the American Medical Association*, 1997; 277: 1001-1005.

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[www.s2scientific.com](http://www.s2scientific.com)

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

Project: KMG - Nygren 5-19 Pad  
Project Number: KMG 09477.01  
Project Manager: John Cocroft

Reported:  
06/29/09 17:25

**RPBG02**  
**R905118-01 (Soil)**

**Summit Scientific**

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **05/18/09 11:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C6-C10 (TEPH-GRO)	ND	50	mg/kg	1	9052003	05/20/09	05/20/09	8015 Full Carbon Chain	
C10-C28 (TEPH-DRO)	ND	50	"	"	"	"	"	"	
C28-C36 (TEPH-ORO)	ND	50	"	"	"	"	"	"	
C6-C36 Total TEPH	ND	50	"	"	"	"	"	"	

Date Sampled: **05/18/09 11:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: <i>o</i> -Terphenyl		86.4 %	77.7-123		"	"	"	"	
Surrogate: Trifluorotoluene		82.4 %	73.9-120		"	"	"	"	

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

Date Sampled: **05/18/09 11:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0050	mg/kg	1	9051903	05/19/09	05/20/09	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.0050	"	"	"	"	"	"	

Date Sampled: **05/18/09 11:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		120 %	77.3-121		"	"	"	"	
Surrogate: Toluene-d8		94.5 %	91.4-107		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		105 %	85.3-109		"	"	"	"	

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

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**RPBG02**  
**R905118-01 (Soil)**

**Summit Scientific**

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

Date Sampled: **05/18/09 11:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.59	0.00100	mmhos/cm	1	9052201	05/22/09	05/22/09	SM 2510b/mod	

Date Sampled: **05/18/09 11:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.0		pH Units	"	9052202	05/22/09	05/22/09	EPA 9045B	

**Hazen Laboratories - LDNR True Total Barium - Dry Weight Basis**

Date Sampled: **05/18/09 11:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Barium	200	10	mg/kg	1	9060510	06/01/09	06/05/09	LDNR	

**Evergreen Analytical - Hot Water Soluble Boron, Soil Basis**

Date Sampled: **05/18/09 11:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	0.67	0.010	mg/L	1	9060402	05/28/09	05/29/09	GUPTA	B-03

**Evergreen Analytical - 6010 Hexavalent Chromium, Soil (3060A Mod Digest)**

Date Sampled: **05/18/09 11:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	1.80	mg/kg	1	9060402	05/21/09	05/22/09	SW6010B Cr6	

**Evergreen Analytical - Metals**

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**RPBG02**  
**R905118-01 (Soil)**

**Summit Scientific**

**Evergreen Analytical - Metals**

Date Sampled: **05/18/09 11:15**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Arsenic	5.0	1.6	mg/kg	1	9060402	05/22/09	05/26/09	SW6010B	
Cadmium	ND	0.79	"	"	"	"	"	"	
Chromium	8.4	0.79	"	"	"	"	"	"	
Copper	7.2	0.40	"	"	"	"	"	"	B-03
Lead	12	5.8	"	"	"	"	"	"	
Nickel	6.8	2.4	"	"	"	"	"	"	
Selenium	15	7.9	"	"	"	"	"	"	
Silver	ND	2.4	"	"	"	"	"	"	
Zinc	27	2.4	"	"	"	"	"	"	

**Evergreen Analytical - Mercury**

Date Sampled: **05/18/09 11:15**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Mercury	ND	0.019	mg/kg	1	9060402	05/27/09	05/29/09	SW7471A	

**Evergreen Analytical - Trivalent Chromium, Calculated, Soil Basis**

Date Sampled: **05/18/09 11:15**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium+3 Calculated	8.40	0.300	mg/kg	1	9060402	05/22/09	06/01/09	CalcCr+3	

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06/29/09 17:25

**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 9052003 - EPA 3550A**

**Blank (9052003-BLK1)**

Prepared: 05/20/09 Analyzed: 05/21/09

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 (9052003-BLK2)**

Prepared: 05/20/09 Analyzed: 05/21/09

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 (9052003-BS1)**

Prepared & Analyzed: 05/20/09

C6-C10 (TEPH-GRO)	ND	50	mg/kg			70-130
C10-C28 (TEPH-DRO)	363	50	"	500	72.6	83.3-127

**LCS (9052003-BS2)**

Prepared & Analyzed: 05/20/09

C6-C10 (TEPH-GRO)	ND	50	mg/kg			70-130
C10-C28 (TEPH-DRO)	454	50	"	500	90.8	83.3-127

**LCS (9052003-BS3)**

Prepared & Analyzed: 05/20/09

C6-C10 (TEPH-GRO)	487	50	mg/kg	519	93.8	70-130
C10-C28 (TEPH-DRO)	ND	50	"			83.3-127

**LCS (9052003-BS4)**

Prepared & Analyzed: 05/20/09

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

**LCS Dup (9052003-BSD1)**

Prepared & Analyzed: 05/20/09

C6-C10 (TEPH-GRO)	ND	50	mg/kg			70-130		20
C10-C28 (TEPH-DRO)	367	50	"	500	73.4	83.3-127	1.10	15

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06/29/09 17:25

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

**Batch 9052003 - EPA 3550A**

**LCS Dup (9052003-BSD2)**

Prepared & Analyzed: 05/20/09

C6-C10 (TEPH-GRO)	ND	50	mg/kg				70-130		20	
C10-C28 (TEPH-DRO)	304	50	"	500		60.8	83.3-127	39.6	15	

**LCS Dup (9052003-BSD3)**

Prepared: 05/20/09 Analyzed: 05/21/09

C6-C10 (TEPH-GRO)	439	50	mg/kg	519		84.6	70-130	10.4	20	
C10-C28 (TEPH-DRO)	ND	50	"				83.3-127		15	

**LCS Dup (9052003-BSD4)**

Prepared: 05/20/09 Analyzed: 05/21/09

C6-C10 (TEPH-GRO)	487	50	mg/kg	519		93.8	70-130	0.412	20	
C10-C28 (TEPH-DRO)	ND	50	"				83.3-127		15	

**Matrix Spike (9052003-MS1)**

Source: R905118-01

Prepared: 05/20/09 Analyzed: 05/21/09

C6-C10 (TEPH-GRO)	ND	50	mg/kg		ND		70-130			
C10-C28 (TEPH-DRO)	542	50	"	500	ND	108	75.8-126			

**Matrix Spike (9052003-MS2)**

Source: R905118-01

Prepared: 05/20/09 Analyzed: 05/21/09

C6-C10 (TEPH-GRO)	ND	50	mg/kg		ND		70-130			
C10-C28 (TEPH-DRO)	487	50	"	500	ND	97.4	75.8-126			

**Matrix Spike (9052003-MS3)**

Source: R905118-01

Prepared: 05/20/09 Analyzed: 05/21/09

C6-C10 (TEPH-GRO)	515	50	mg/kg	519	ND	99.2	70-130			
C10-C28 (TEPH-DRO)	ND	50	"		ND		75.8-126			

**Matrix Spike (9052003-MS4)**

Source: R905118-01

Prepared: 05/20/09 Analyzed: 05/21/09

C6-C10 (TEPH-GRO)	516	50	mg/kg	519	ND	99.4	70-130			
C10-C28 (TEPH-DRO)	ND	50	"		ND		75.8-126			

**Matrix Spike Dup (9052003-MSD1)**

Source: R905118-01

Prepared: 05/20/09 Analyzed: 05/21/09

C6-C10 (TEPH-GRO)	ND	50	mg/kg		ND		70-130		20	
C10-C28 (TEPH-DRO)	468	50	"	500	ND	93.6	75.8-126	14.7	13.6	

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Project Number: KMG 09477.01  
Project Manager: John Cocroft

**Reported:**  
06/29/09 17:25

**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 9052003 - EPA 3550A**

<b>Matrix Spike Dup (9052003-MSD2)</b>		<b>Source: R905118-01</b>			Prepared: 05/20/09		Analyzed: 05/21/09			
C6-C10 (TEPH-GRO)	ND	50	mg/kg		ND		70-130		20	
C10-C28 (TEPH-DRO)	483	50	"	500	ND	96.6	75.8-126	0.825	13.6	
<b>Matrix Spike Dup (9052003-MSD3)</b>		<b>Source: R905118-01</b>			Prepared: 05/20/09		Analyzed: 05/21/09			
C6-C10 (TEPH-GRO)	525	50	mg/kg	519	ND	101	70-130	1.92	20	
C10-C28 (TEPH-DRO)	ND	50	"		ND		75.8-126		13.6	
<b>Matrix Spike Dup (9052003-MSD4)</b>		<b>Source: R905118-01</b>			Prepared: 05/20/09		Analyzed: 05/21/09			
C6-C10 (TEPH-GRO)	525	50	mg/kg	519	ND	101	70-130	1.73	20	
C10-C28 (TEPH-DRO)	ND	50	"		ND		75.8-126		13.6	

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Project Number: KMG 09477.01  
Project Manager: John Cocroft

Reported:  
06/29/09 17:25

**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 9051903 - EPA 5030 Soil MS**

**Blank (9051903-BLK1)**

Prepared: 05/19/09 Analyzed: 05/20/09

Benzene	ND	0.0050	mg/kg							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.0050	"							
Surrogate: 1,2-Dichloroethane-d4	0.0449		"	0.0400		112	77.3-121			
Surrogate: Toluene-d8	0.0372		"	0.0400		93.0	91.4-107			
Surrogate: 4-Bromofluorobenzene	0.0392		"	0.0400		98.0	85.3-109			

**Blank (9051903-BLK2)**

Prepared: 05/19/09 Analyzed: 05/20/09

Benzene	ND	0.0050	mg/kg							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.0050	"							
Surrogate: 1,2-Dichloroethane-d4	0.0470		"	0.0400		118	77.3-121			
Surrogate: Toluene-d8	0.0377		"	0.0400		94.2	91.4-107			
Surrogate: 4-Bromofluorobenzene	0.0399		"	0.0400		99.8	85.3-109			

**LCS (9051903-BS1)**

Prepared: 05/19/09 Analyzed: 05/20/09

Benzene	0.0910	0.0050	mg/kg	0.100		91.0	70-114			
Toluene	0.0970	0.0050	"	0.100		97.0	72.7-116			
Surrogate: 1,2-Dichloroethane-d4	0.0459		"	0.0400		115	77.3-121			
Surrogate: Toluene-d8	0.0382		"	0.0400		95.5	91.4-107			
Surrogate: 4-Bromofluorobenzene	0.0396		"	0.0400		99.0	85.3-109			

**LCS (9051903-BS2)**

Prepared: 05/19/09 Analyzed: 05/20/09

Benzene	0.0916	0.0050	mg/kg	0.100		91.6	70-114			
Toluene	0.0978	0.0050	"	0.100		97.8	72.7-116			
Surrogate: 1,2-Dichloroethane-d4	0.0452		"	0.0400		113	77.3-121			
Surrogate: Toluene-d8	0.0381		"	0.0400		95.2	91.4-107			
Surrogate: 4-Bromofluorobenzene	0.0393		"	0.0400		98.2	85.3-109			

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Project Manager: John Cocroft

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06/29/09 17:25

**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 9051903 - EPA 5030 Soil MS**

**LCS Dup (9051903-BSD1)**

Prepared: 05/19/09 Analyzed: 05/20/09

Benzene	0.0920	0.0050	mg/kg	0.100		92.0	70-114	1.09	8.14	
Toluene	0.0983	0.0050	"	0.100		98.3	72.7-116	1.33	7.88	
Surrogate: 1,2-Dichloroethane-d4	0.0456		"	0.0400		114	77.3-121			
Surrogate: Toluene-d8	0.0381		"	0.0400		95.2	91.4-107			
Surrogate: 4-Bromofluorobenzene	0.0400		"	0.0400		100	85.3-109			

**LCS Dup (9051903-BSD2)**

Prepared: 05/19/09 Analyzed: 05/20/09

Benzene	0.0913	0.0050	mg/kg	0.100		91.3	70-114	0.328	8.14	
Toluene	0.0970	0.0050	"	0.100		97.0	72.7-116	0.821	7.88	
Surrogate: 1,2-Dichloroethane-d4	0.0459		"	0.0400		115	77.3-121			
Surrogate: Toluene-d8	0.0370		"	0.0400		92.5	91.4-107			
Surrogate: 4-Bromofluorobenzene	0.0393		"	0.0400		98.2	85.3-109			

**Matrix Spike (9051903-MS1)**

Source: R905118-01

Prepared: 05/19/09 Analyzed: 05/20/09

Benzene	0.0932	0.0050	mg/kg	0.100	0.0011	92.1	66.8-117			
Toluene	0.100	0.0050	"	0.100	ND	100	71.5-117			
Surrogate: 1,2-Dichloroethane-d4	0.0454		"	0.0400		114	77.3-121			
Surrogate: Toluene-d8	0.0383		"	0.0400		95.8	91.4-107			
Surrogate: 4-Bromofluorobenzene	0.0392		"	0.0400		98.0	85.3-109			

**Matrix Spike (9051903-MS2)**

Source: R905118-01

Prepared: 05/19/09 Analyzed: 05/20/09

Benzene	0.0911	0.0050	mg/kg	0.100	0.0011	90.0	66.8-117			
Toluene	0.0984	0.0050	"	0.100	ND	98.4	71.5-117			
Surrogate: 1,2-Dichloroethane-d4	0.0453		"	0.0400		113	77.3-121			
Surrogate: Toluene-d8	0.0374		"	0.0400		93.5	91.4-107			
Surrogate: 4-Bromofluorobenzene	0.0391		"	0.0400		97.8	85.3-109			

**Matrix Spike Dup (9051903-MSD1)**

Source: R905118-01

Prepared: 05/19/09 Analyzed: 05/20/09

Benzene	0.0910	0.0050	mg/kg	0.100	0.0011	89.9	66.8-117	2.39	17.8	
Toluene	0.0999	0.0050	"	0.100	ND	99.9	71.5-117	0.100	14.4	
Surrogate: 1,2-Dichloroethane-d4	0.0446		"	0.0400		112	77.3-121			
Surrogate: Toluene-d8	0.0379		"	0.0400		94.8	91.4-107			
Surrogate: 4-Bromofluorobenzene	0.0392		"	0.0400		98.0	85.3-109			

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Project Number: KMG 09477.01  
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Reported:  
06/29/09 17:25

**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 9051903 - EPA 5030 Soil MS**

Matrix Spike Dup (9051903-MSD2)	Source: R905118-01			Prepared: 05/19/09		Analyzed: 05/20/09				
Benzene	0.0909	0.0050	mg/kg	0.100	0.0011	89.8	66.8-117	0.220	17.8	
Toluene	0.0977	0.0050	"	0.100	ND	97.7	71.5-117	0.714	14.4	
Surrogate: 1,2-Dichloroethane-d4	0.0450		"	0.0400		112	77.3-121			
Surrogate: Toluene-d8	0.0370		"	0.0400		92.5	91.4-107			
Surrogate: 4-Bromofluorobenzene	0.0389		"	0.0400		97.2	85.3-109			

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

Project: KMG - Nygren 5-19 Pad

Project Number: KMG 09477.01  
Project Manager: John Cocroft

**Reported:**  
06/29/09 17:25

**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 9052201 - General Preparation**

<b>Duplicate (9052201-DUP1)</b>	<b>Source: R905118-01</b>			Prepared & Analyzed: 05/22/09						
Specific Conductance (EC)	1.63	0.00100	mmhos/cm		1.59			2.48	20	

**Batch 9052202 - General Preparation**

<b>Duplicate (9052202-DUP1)</b>	<b>Source: R905118-01</b>			Prepared & Analyzed: 05/22/09						
pH	7.8		pH Units		8.0			2.53	20	

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*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.*



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### Notes and Definitions

B-03      Analyte detected in the associated Method Blank, value not subtracted from result  
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

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A handwritten signature in black ink, appearing to be 'JM' followed by a long horizontal stroke.

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