



November 24, 2014

LT Environmental, Inc.

Rob Rebel

4600 West 60th Avenue

Arvada CO 80003

Project Name - 027314022

Project Number - 027314022

Attached are your analytical results for 027314022 received by Origins Laboratory, Inc. November 21, 2014. This project is associated with Origins project number X411234-01.

The analytical results in the following report were analyzed under the guidelines of EPA Methods. These methods are identified as follows; "SW" are defined in SW-846, "EPA" are defined in 40CFR part 136 and "SM" are defined in the most current revision of Standard Methods For the Examination of Water and Wastewater.

The analytical results apply specifically to the samples and analyses specified per the attached Chain of Custody. As such, this report shall not be reproduced except in full, without the written approval of Origin's laboratory.

Unless otherwise noted, the analytical results for all soil samples are reported on a wet weight basis. All analytical analyses were performed under NELAP guidelines unless noted by a data qualifier.

Any holding time exceedances, deviations from the method specifications or deviations from Origins Laboratory's Standard Operating Procedures are outlined in the case narrative.

Thank you for selecting Origins for your analytical needs. Please contact us with any questions concerning this report, or if we can help with anything at all.

Origins Laboratory, Inc.  
303.433.1322  
o-squad@oelabinc.com



1725 Elk Place, Denver, CO 80211 | Phone: 303.433.1322 | Fax: 303.265.9645

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

Rob Rebel  
Project Number: 027314022  
Project: 027314022

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS01	X411234-01	Soil	November 21, 2014 13:10	11/21/2014 15:15
SS02	X411234-02	Soil	November 21, 2014 13:15	11/21/2014 15:15
SS03	X411234-03	Soil	November 21, 2014 13:20	11/21/2014 15:15
SS04	X411234-04	Soil	November 21, 2014 13:25	11/21/2014 15:15
SS05	X411234-05	Soil	November 21, 2014 13:30	11/21/2014 15:15

Origins Laboratory, Inc.



*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

Rob Rebel  
 Project Number: 027314022  
 Project: 027314022

Origins Laboratory

F-012207-01-R1  
 Effective Date: 01/09/12

Sample Receipt Checklist

Origins Work Order: X411234 Client: LTE  
 Client Project ID: 027314022  
 Checklist Completed by: Jen Pellegrini Shipped Via: HTD  
 Date/time completed: 11-21-14 (UPS, FedEx, Hand Delivered, Pick-up, etc.)  
 Airbill #: N/A  
 Matrix(s) Received: (Check all that apply):  Soil/Solid  Water  Other: \_\_\_\_\_  
 Cooler Number/Temperature: 1 / 11.1 °C \_\_\_\_\_ / \_\_\_\_\_ °C \_\_\_\_\_ / \_\_\_\_\_ °C (Describe)  
 Thermometer ID: T003

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C <sup>(1)</sup> ?	X			
Is there ice present (document if blue ice is used)	X			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		X		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)		X		
Were all samples received intact <sup>(1)</sup> ?	X			
Was adequate sample volume provided <sup>(1)</sup> ?	X			
Are short holding time analytes or samples with HTs due within 48 hours present <sup>(1)</sup> ?		X		
Is a chain-of-custody (COC) present and filled out completely <sup>(1)</sup> ?	X			
Does the COC agree with the number and type of sample bottles received <sup>(1)</sup> ?	X			
Do the sample IDs on the bottle labels match the COC <sup>(1)</sup> ?	X			
Is the COC properly relinquished by the client with date and time recorded <sup>(1)</sup> ?	X			
For volatiles in water – is there headspace (> ¼ inch bubble) present? <b>If yes, contact client and note in narrative.</b>			X	
Are samples preserved that require preservation and was it checked <sup>(1)</sup> ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)(pH <2 for samples preserved with HNO3, HCL, H2SO4) / ( pH >10 for samples preserved with NaAsO2+NaOH, ZnAc+NaOH)			X	
Additional Comments (if any):				

<sup>(1)</sup>If NO, then contact the client before proceeding with analysis and note date/time and person contacted as well as the corrective action to in the additional comments (above) and the case narrative.

Jen Pellegrini Reviewed by (Project Manager) 11/21/14 Date/Time Reviewed

Origins Laboratory, Inc.



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

Rob Rebel  
 Project Number: 027314022  
 Project: 027314022

**SS01**

**11/21/2014 1:10:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**X411234-01 (Soil)**

**Diesel Range Organics (DRO/TEPH) by EPA 8015C**

Diesel (C10-C28)	2540	50.0	mg/kg	1	4K21010	11/21/2014	11/21/2014	
Surrogate: <i>o</i> -Terphenyl	111 %	59-131			"	"	"	

**GBTEX by EPA 8260C**

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	4K21009	11/21/2014	11/21/2014	
Benzene	ND	0.002	"	"	"	"	"	
Toluene	ND	0.002	"	"	"	"	"	
Ethylbenzene	ND	0.002	"	"	"	"	"	
Xylenes, total	0.002	0.002	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4	88.9 %	70-130			"	"	"	
Surrogate: Toluene-d8	96.3 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	102 %	70-130			"	"	"	

Origins Laboratory, Inc.



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LT Environmental, Inc.  
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Rob Rebel  
 Project Number: 027314022  
 Project: 027314022

**SS02**

**11/21/2014 1:15:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**X411234-02 (Soil)**

**Diesel Range Organics (DRO/TEPH) by EPA 8015C**

Diesel (C10-C28)	51.6	50.0	mg/kg	1	4K21010	11/21/2014	11/21/2014	
Surrogate: <i>o</i> -Terphenyl	69.7 %	59-131			"	"	"	

**GBTEX by EPA 8260C**

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	4K21009	11/21/2014	11/21/2014	
Benzene	ND	0.002	"	"	"	"	"	
Toluene	ND	0.002	"	"	"	"	"	
Ethylbenzene	ND	0.002	"	"	"	"	"	
Xylenes, total	ND	0.002	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	87.7 %	70-130			"	"	"	
Surrogate: Toluene-d8	97.2 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	100 %	70-130			"	"	"	

Origins Laboratory, Inc.



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LT Environmental, Inc.  
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Rob Rebel  
 Project Number: 027314022  
 Project: 027314022

**SS03**

**11/21/2014 1:20:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**X411234-03 (Soil)**

**Diesel Range Organics (DRO/TEPH) by EPA 8015C**

Diesel (C10-C28)	ND	50.0	mg/kg	1	4K21010	11/21/2014	11/21/2014	
Surrogate: <i>o</i> -Terphenyl	60.5 %	59-131			"	"	"	

**GBTEX by EPA 8260C**

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	4K21009	11/21/2014	11/21/2014	
Benzene	ND	0.002	"	"	"	"	"	
Toluene	ND	0.002	"	"	"	"	"	
Ethylbenzene	ND	0.002	"	"	"	"	"	
Xylenes, total	ND	0.002	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4	86.3 %	70-130			"	"	"	
Surrogate: Toluene-d8	96.5 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	104 %	70-130			"	"	"	

Origins Laboratory, Inc.



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 Project Number: 027314022  
 Project: 027314022

**SS04**

**11/21/2014 1:25:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**X411234-04 (Soil)**

**Diesel Range Organics (DRO/TEPH) by EPA 8015C**

Diesel (C10-C28)	ND	50.0	mg/kg	1	4K21010	11/21/2014	11/22/2014	
Surrogate: o-Terphenyl	96.8 %	59-131			"	"	"	

**GBTEX by EPA 8260C**

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	4K21009	11/21/2014	11/21/2014	
Benzene	ND	0.002	"	"	"	"	"	
Toluene	ND	0.002	"	"	"	"	"	
Ethylbenzene	ND	0.002	"	"	"	"	"	
Xylenes, total	ND	0.002	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4	85.7 %	70-130			"	"	"	
Surrogate: Toluene-d8	99.8 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	103 %	70-130			"	"	"	

Origins Laboratory, Inc.



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 4600 West 60th Avenue  
 Arvada CO 80003

Rob Rebel  
 Project Number: 027314022  
 Project: 027314022

**SS05**

**11/21/2014 1:30:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**X411234-05 (Soil)**

**Diesel Range Organics (DRO/TEPH) by EPA 8015C**

Diesel (C10-C28)	ND	50.0	mg/kg	1	4K21010	11/21/2014	11/21/2014	
Surrogate: <i>o</i> -Terphenyl	65.8 %	59-131			"	"	"	

**GBTEX by EPA 8260C**

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	4K21009	11/21/2014	11/21/2014	
Benzene	ND	0.002	"	"	"	"	"	
Toluene	ND	0.002	"	"	"	"	"	
Ethylbenzene	ND	0.002	"	"	"	"	"	
Xylenes, total	ND	0.002	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4	85.6 %	70-130			"	"	"	
Surrogate: Toluene-d8	98.3 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	103 %	70-130			"	"	"	

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 Arvada CO 80003

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 Project Number: 027314022  
 Project: 027314022

**Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 4K21009 - EPA 5030 (soil)**

**Blank (4K21009-BLK1)**

Prepared: 11/21/2014 Analyzed: 11/21/2014

Gasoline Range Hydrocarbons	ND	0.200	mg/kg							
Benzene	ND	0.002	"							
Toluene	ND	0.002	"							
Ethylbenzene	ND	0.002	"							
Xylenes, total	ND	0.002	"							
Surrogate: 1,2-Dichloroethane-d4	51.2		ug/kg	62.5		82.0	70-130			
Surrogate: Toluene-d8	62.2		"	62.5		99.6	70-130			
Surrogate: 4-Bromofluorobenzene	61.5		"	62.5		98.4	70-130			

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**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 4K21009 - EPA 5030 (soil)**

**LCS (4K21009-BS1)**

Prepared: 11/21/2014 Analyzed: 11/21/2014

Benzene	0.114	0.002	mg/kg	0.100		114	77.1-124			
Toluene	0.108	0.002	"	0.100		108	74.5-128			
Ethylbenzene	0.103	0.002	"	0.100		103	66.4-127			
m,p-Xylene	0.202	0.004	"	0.200		101	76.6-124			
o-Xylene	0.091	0.002	"	0.100		90.6	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	51.4		ug/kg	62.5		82.3	70-130			
Surrogate: Toluene-d8	61.9		"	62.5		99.0	70-130			
Surrogate: 4-Bromofluorobenzene	60.6		"	62.5		96.9	70-130			

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 Arvada CO 80003

Rob Rebel  
 Project Number: 027314022  
 Project: 027314022

**Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 4K21009 - EPA 5030 (soil)

Matrix Spike (4K21009-MS1)	Source: X411233-01			Prepared: 11/21/2014 Analyzed: 11/21/2014						
Benzene	0.111	0.002	mg/kg	0.100	ND	111	71.8-126			
Toluene	0.105	0.002	"	0.100	ND	105	65.1-130			
Ethylbenzene	0.101	0.002	"	0.100	ND	101	62.2-130			
m,p-Xylene	0.200	0.004	"	0.200	ND	100	46.5-137			
o-Xylene	0.090	0.002	"	0.100	ND	90.4	54.2-134			
Surrogate: 1,2-Dichloroethane-d4	52.8		ug/kg	62.5		84.5	70-130			
Surrogate: Toluene-d8	62.0		"	62.5		99.1	70-130			
Surrogate: 4-Bromofluorobenzene	61.6		"	62.5		98.6	70-130			

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Rob Rebel  
 Project Number: 027314022  
 Project: 027314022

**Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 4K21009 - EPA 5030 (soil)**

<b>Matrix Spike Dup (4K21009-MSD1)</b>		<b>Source: X411233-01</b>			Prepared: 11/21/2014 Analyzed: 11/21/2014					
Benzene	0.108	0.002	mg/kg	0.100	ND	108	71.8-126	2.06	11.3	
Toluene	0.103	0.002	"	0.100	ND	103	65.1-130	2.29	15.4	
Ethylbenzene	0.099	0.002	"	0.100	ND	99.4	62.2-130	1.56	19.6	
m,p-Xylene	0.193	0.004	"	0.200	ND	96.7	46.5-137	3.61	19.2	
o-Xylene	0.087	0.002	"	0.100	ND	87.3	54.2-134	3.53	17.9	
Surrogate: 1,2-Dichloroethane-d4	52.0		ug/kg	62.5		83.2	70-130			
Surrogate: Toluene-d8	60.5		"	62.5		96.8	70-130			
Surrogate: 4-Bromofluorobenzene	62.5		"	62.5		100	70-130			

Origins Laboratory, Inc.



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 Arvada CO 80003

Rob Rebel  
 Project Number: 027314022  
 Project: 027314022

**Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Extractable Petroleum Hydrocarbons by 8015M - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 4K21010 - EPA 3580**

**Blank (4K21010-BLK1)**

Prepared: 11/21/2014 Analyzed: 11/21/2014

Diesel (C10-C28)	ND	50.0	mg/kg							
Surrogate: o-Terphenyl	31		g	50.0		61.2	59-131			

**LCS (4K21010-BS1)**

Prepared: 11/21/2014 Analyzed: 11/21/2014

Diesel (C10-C28)	944	50.0	mg/kg	1000		94.4	64-121			
Surrogate: o-Terphenyl	33		g	50.0		65.3	59-131			

**Matrix Spike (4K21010-MS1)**

**Source: X411233-01**

Prepared: 11/21/2014 Analyzed: 11/21/2014

Diesel (C10-C28)	1180	50.0	mg/kg	1000	ND	118	53-125			
Surrogate: o-Terphenyl	39		g	50.0		78.6	59-131			

**Matrix Spike Dup (4K21010-MSD1)**

**Source: X411233-01**

Prepared: 11/21/2014 Analyzed: 11/21/2014

Diesel (C10-C28)	973	50.0	mg/kg	1000	ND	97.3	53-125	19.1	20	
Surrogate: o-Terphenyl	33		g	50.0		66.5	59-131			

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4600 West 60th Avenue  
Arvada CO 80003

Rob Rebel  
Project Number: 027314022  
Project: 027314022

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**Notes and Definitions**

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported at a wet weight basis.

Origins Laboratory, Inc.



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---

Jen Pellegrini For Noelle Doyle Mathis, President



February 17, 2015

LT Environmental, Inc.

Rob Rebel

4600 West 60th Avenue

Arvada CO 80003

Project Name - Dutch Lake 16-24H

Project Number - 027314022

Attached are your analytical results for Dutch Lake 16-24H received by Origins Laboratory, Inc. February 11, 2015. This project is associated with Origins project number X502123-01.

The analytical results in the following report were analyzed under the guidelines of EPA Methods. These methods are identified as follows; "SW" are defined in SW-846, "EPA" are defined in 40CFR part 136 and "SM" are defined in the most current revision of Standard Methods For the Examination of Water and Wastewater.

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Unless otherwise noted, the analytical results for all soil samples are reported on a wet weight basis. All analytical analyses were performed under NELAP guidelines unless noted by a data qualifier.

Any holding time exceedances, deviations from the method specifications or deviations from Origins Laboratory's Standard Operating Procedures are outlined in the case narrative.

Thank you for selecting Origins for your analytical needs. Please contact us with any questions concerning this report, or if we can help with anything at all.

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303.433.1322  
o-squad@oelabinc.com



1725 Elk Place, Denver, CO 80211 | Phone: 303.433.1322 | Fax: 303.265.9645

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

Rob Rebel  
Project Number: 027314022  
Project: Dutch Lake 16-24H

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS01	X502123-01	Soil	February 11, 2015 11:47	02/11/2015 13:38

Origins Laboratory, Inc.



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

Rob Rebel  
 Project Number: 027314022  
 Project: Dutch Lake 16-24H

Origins Laboratory F-012207-01-R1  
Effective Date: 01/09/12

Sample Receipt Checklist

Origins Work Order: XS02123 Client: LTE  
 Client Project ID: Dutch Lake 16-24H  
 Checklist Completed by: Jeff Smith Shipped Via: H/D  
 Date/time completed: 2/11/15 (UPS, FedEx, Hand Delivered, Pick-up, etc.)  
 Airbill #: N/A  
 Matrix(s) Received: (Check all that apply):  Soil/Solid  Water  Other: \_\_\_\_\_  
 Cooler Number/Temperature: 1 / 14.6 °C 1 / \_\_\_\_\_ °C 1 / \_\_\_\_\_ °C (Describe) \_\_\_\_\_ °C  
 Thermometer ID: T603

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C <sup>(1)</sup> ?		<input checked="" type="checkbox"/>		<u>Sampled Same Day</u>
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Were all samples received intact <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Was adequate sample volume provided <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Are short holding time analytes or samples with HTs due within 48 hours present <sup>(1)</sup> ?		<input checked="" type="checkbox"/>		
Is a chain-of-custody (COC) present and filled out completely <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Does the COC agree with the number and type of sample bottles received <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Do the sample IDs on the bottle labels match the COC <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client with date and time recorded <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
For volatiles in water – is there headspace (> ¼ inch bubble) present? <b>If yes, contact client and note in narrative.</b>			<input checked="" type="checkbox"/>	
Are samples preserved that require preservation and was it checked <sup>(1)</sup> ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)/(pH <2 for samples preserved with HNO <sub>3</sub> , HCL, H <sub>2</sub> SO <sub>4</sub> ) / ( pH >10 for samples preserved with NaAsO <sub>2</sub> +NaOH, ZnAc+NaOH)			<input checked="" type="checkbox"/>	
Additional Comments (if any):				

<sup>(1)</sup>If NO, then contact the client before proceeding with analysis and note date/time and person contacted as well as the corrective action to in the additional comments (above) and the case narrative.

Reviewed by (Project Manager) [Signature] Date/Time Reviewed 02-12-15

Origins Laboratory, Inc.

[Signature: Jen Pellegrini]

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

Rob Rebel  
 Project Number: 027314022  
 Project: Dutch Lake 16-24H

**SS01**

**2/11/2015 11:47:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**X502123-01 (Soil)**

**Diesel Range Organics (DRO/TEPH) by EPA 8015C**

Diesel (C10-C28)	ND	50.0	mg/kg	1	5B11008	02/11/2015	02/11/2015	
Surrogate: <i>o</i> -Terphenyl	100 %	59-131			"	"	"	

**GBTEX by EPA 8260C**

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	5B11009	02/11/2015	02/12/2015	
Benzene	ND	0.002	"	"	"	"	"	
Toluene	ND	0.002	"	"	"	"	"	
Ethylbenzene	ND	0.002	"	"	"	"	"	
Xylenes, total	ND	0.002	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4	129 %	70-130			"	"	"	
Surrogate: Toluene-d8	103 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	109 %	70-130			"	"	"	

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 Arvada CO 80003

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 Project: Dutch Lake 16-24H

**Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 5B11009 - EPA 5030 (soil)**

**Blank (5B11009-BLK1)**

Prepared: 02/11/2015 Analyzed: 02/11/2015

Gasoline Range Hydrocarbons	ND	0.200	mg/kg							
Benzene	ND	0.002	"							
Toluene	ND	0.002	"							
Ethylbenzene	ND	0.002	"							
Xylenes, total	ND	0.002	"							
Surrogate: 1,2-Dichloroethane-d4	79.3		ug/kg	62.5		127	70-130			
Surrogate: Toluene-d8	64.1		"	62.5		103	70-130			
Surrogate: 4-Bromofluorobenzene	66.0		"	62.5		106	70-130			

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**Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 5B11009 - EPA 5030 (soil)**

**LCS (5B11009-BS1)**

Prepared: 02/11/2015 Analyzed: 02/11/2015

Benzene	0.102	0.002	mg/kg	0.100		102	77.1-124			
Toluene	0.100	0.002	"	0.100		100	74.5-128			
Ethylbenzene	0.106	0.002	"	0.100		106	66.4-127			
m,p-Xylene	0.214	0.004	"	0.200		107	76.6-124			
o-Xylene	0.110	0.002	"	0.100		110	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	77.3		ug/kg	62.5		124	70-130			
Surrogate: Toluene-d8	63.8		"	62.5		102	70-130			
Surrogate: 4-Bromofluorobenzene	68.7		"	62.5		110	70-130			

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 Project: Dutch Lake 16-24H

**Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 5B11009 - EPA 5030 (soil)**

<b>Matrix Spike (5B11009-MS1)</b>	<b>Source: X502122-01</b>			<b>Prepared: 02/11/2015 Analyzed: 02/11/2015</b>						
Benzene	0.104	0.002	mg/kg	0.100	ND	104	71.8-126			
Toluene	0.103	0.002	"	0.100	ND	103	65.1-130			
Ethylbenzene	0.108	0.002	"	0.100	ND	108	62.2-130			
m,p-Xylene	0.217	0.004	"	0.200	ND	109	46.5-137			
o-Xylene	0.110	0.002	"	0.100	ND	110	54.2-134			
Surrogate: 1,2-Dichloroethane-d4	76.2		ug/kg	62.5		122	70-130			
Surrogate: Toluene-d8	63.3		"	62.5		101	70-130			
Surrogate: 4-Bromofluorobenzene	68.0		"	62.5		109	70-130			

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**Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 5B11009 - EPA 5030 (soil)**

<b>Matrix Spike Dup (5B11009-MSD1)</b>	<b>Source: X502122-01</b>			<b>Prepared: 02/11/2015 Analyzed: 02/11/2015</b>						
Benzene	0.099	0.002	mg/kg	0.100	ND	99.4	71.8-126	4.62	11.3	
Toluene	0.099	0.002	"	0.100	ND	99.2	65.1-130	3.29	15.4	
Ethylbenzene	0.106	0.002	"	0.100	ND	106	62.2-130	2.27	19.6	
m,p-Xylene	0.215	0.004	"	0.200	ND	107	46.5-137	1.13	19.2	
o-Xylene	0.106	0.002	"	0.100	ND	106	54.2-134	3.84	17.9	
Surrogate: 1,2-Dichloroethane-d4	76.5		ug/kg	62.5		122	70-130			
Surrogate: Toluene-d8	62.6		"	62.5		100	70-130			
Surrogate: 4-Bromofluorobenzene	69.6		"	62.5		111	70-130			

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**Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Extractable Petroleum Hydrocarbons by 8015M - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 5B11008 - EPA 3580**

**Blank (5B11008-BLK1)**

Prepared: 02/11/2015 Analyzed: 02/11/2015

Diesel (C10-C28)	ND	50.0	mg/kg							
Surrogate: o-Terphenyl	59		"	50.0		118	59-131			

**LCS (5B11008-BS1)**

Prepared: 02/11/2015 Analyzed: 02/11/2015

Diesel (C10-C28)	957	50.0	mg/kg	1000		95.7	64-121			
Surrogate: o-Terphenyl	52		"	50.0		105	59-131			

**LCS Dup (5B11008-BSD1)**

Prepared: 02/11/2015 Analyzed: 02/11/2015

Diesel (C10-C28)	849	50.0	mg/kg	1000		84.9	64-121	12.0	20	
Surrogate: o-Terphenyl	46		"	50.0		91.1	59-131			

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Arvada CO 80003

Rob Rebel  
Project Number: 027314022  
Project: Dutch Lake 16-24H

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**Notes and Definitions**

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported at a wet weight basis.

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Jen Pellegrini For Noelle Doyle Mathis, President