

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

Soil Sample ID	Depth (bgs)	Date	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	DRO (mg/kg)	GRO (mg/kg)	ORO (mg/kg)
SS-1@2"	2"	03/05/2019	<0.050	0.771	0.396	3.38	<25.0	137	<100
SS-2@2"	2"	03/05/2019	0.187	3.48	0.980	8.22	40.0	272	<100
SS-3@2"	2"	03/05/2019	<0.002	<0.002	<0.002	<0.002	41.5	<0.200	<100
SS-4@2"	2"	03/05/2019	<0.002	<0.002	<0.002	<0.002	<25.0	<0.200	<100
SS-5@2"	2"	03/05/2019	<0.002	<0.002	<0.002	<0.002	<25.0	<0.200	<100
SS-6@2"	2"	03/05/2019	<0.050	2.44	2.26	19.6	98.7	594	<100
SS-7@2"	2"	03/05/2019	0.168	0.400	0.091	0.622	<25.0	18.1	<100
SS-8@2"	2"	03/05/2019	<0.050	<0.050	<0.050	0.258	240	14.1	127
SS-2@3"	3"	03/08/2019	<0.050	0.180	0.064	0.619	94.8	23.4	<200
SS-6@3"	3"	03/08/2019	<0.050	0.186	0.066	0.574	<50.0	33.4	<200
COGCC Allowable Levels			0.17	85	100	175	500*	500*	500*

Notes: bgs - below ground surface

COGCC - Colorado Oil and Gas Conservation Commission

DRO - diesel range organics

GRO - gasoline range organics

mg/kg - milligrams per kilogram

NA - not analyzed/not available

ORO - oil range organics

* - Standard applies to combined DRO-GRO-ORO

< - less than laboratory reporting limit

Bold indicates result exceeds allowable level





March 06, 2019

LT Environmental, Inc.

Brian Sulzberger

4600 West 60th Avenue

Arvada

CO 80003

**Project Name - KMG - Hudson Compressor
Station**

Project Number - 014219027

Attached are your analytical results for KMG - Hudson Compressor Station received by Origins Laboratory, Inc. March 05, 2019. This project is associated with Origins project number Y903044-01.

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

Brian Sulzberger
Project Number: 014219027
Project: KMG - Hudson Compressor Station

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS-1@2"	Y903044-01	Soil	March 5, 2019 14:10	03/05/2019 16:35
SS-2@2"	Y903044-02	Soil	March 5, 2019 14:20	03/05/2019 16:35
SS-3@2"	Y903044-03	Soil	March 5, 2019 14:30	03/05/2019 16:35
SS-4@2"	Y903044-04	Soil	March 5, 2019 14:40	03/05/2019 16:35
SS-5@2"	Y903044-05	Soil	March 5, 2019 14:50	03/05/2019 16:35
SS-6@2"	Y903044-06	Soil	March 5, 2019 15:00	03/05/2019 16:35
SS-7@2"	Y903044-07	Soil	March 5, 2019 15:10	03/05/2019 16:35
SS-8@2"	Y903044-08	Soil	March 5, 2019 15:20	03/05/2019 16:35

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.

Jen Pellegrini, Project Manager

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




Brian Sulzberger
Project Number: 014219027
Project: KMG - Hudson Compressor Station

9903044

page 1 of 1

Client: LT Environmental
Address: 4600 W. 60th Ave
Arvada, CO 80003
Telephone Number: 303-433-9788
Email Address: KMG Team

Project Manager: Brian Sulzberger
Project Name: Hudson Compressor Station
Project Number: 014219027
Samples Collected By: Jeff Braden

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix				Analysis				Sample Instructions
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	Air Summa #	Other	TPH	GRE/DRE	GBTEX	PH	
SS 1 @ 2"	3/5/19	1410	1	X						X			X			Sample ID revised 1
SS 2 @ 2"	3/5/19	1420	1	X						X			X			per the email from 2
SS 3 @ 2"	3/5/19	1430	1	X						X			X			Mike on 3/6/19 3
SS 4 @ 2"	3/5/19	1440	1	X						X			X			qp 4
SS 5 @ 2"	3/5/19	1450	1	X						X			X			5
SS 6 @ 2"	3/5/19	1500	1	X						X			X			6
SS 7 @ 2"	3/5/19	1510	1	X						X			X			7
SS 8 @ 2"	3/5/19	1520	1	X						X			X			8
																9
																10
Reinforced By: 	Date: 3/5/19	Time: 1635							Received By:	Date: 3/5/19	Time: 1635	Turnaround Time: Same Day <input checked="" type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input type="checkbox"/> 72 Hr <input type="checkbox"/> Standard				
Reinforced By: 	Date:	Time:							Received By: 	Date: 3/5/19	Time: 1635					

Date Results Needed

Temp Received: 4.2

Origins Laboratory, Inc.

Jefe Pellegrini

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

Brian Sulzberger
Project Number: 014219027
Project: KMG - Hudson Compressor Station

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: Y903044

Client: LTE

Client Project ID: KMG-Hudson Compressor

Checklist Completed by: JP

Shipped Via: HD
(UPS, FedEx, Hand Delivered, Pick-up, etc.)

Date/time completed: 3/5/19

Airbill #: NA

Matrix(s) Received: (Check all that apply) ☒ Soil/Solid ☐ Water ☐ Other: _____

Cooler Number/Temperature: 1 / 9.2 °C _____ / _____ °C _____ / _____ °C _____ / _____ °C (Describe)

Thermometer ID: TCB

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C ⁽¹⁾ ?		<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 ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?		<input checked="" type="checkbox"/>		
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.			<input checked="" type="checkbox"/>	
Are samples preserved that require preservation and was it checked ⁽¹⁾ ? (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 ₃ , HCL, H ₂ SO ₄ / (pH >10 for samples preserved with NaAsO ₂ +NaOH, ZnAc+NaOH)			<input checked="" type="checkbox"/>	
Additional Comments (if any):				

⁽¹⁾ 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.

JP
Reviewed by (Project Manager)

3/5/19
Date/Time Reviewed

Origins Laboratory, Inc.

Jen Pellegrini

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

Brian Sulzberger
Project Number: 014219027
Project: KMG - Hudson Compressor Station

SS-1@2"

3/5/2019 2:10:00PM

Analyte	Result	Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y903044-01 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25.0	mg/kg	1	B9C0502	JTD	03/05/2019	03/05/2019	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	JTD	"	"	U

Surrogate: o-Terphenyl 75.8 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	137	50.0	mg/kg	250	B9C0501	JTD	03/05/2019	03/05/2019	
Benzene	ND	0.050	"	25	"	JTD	"	03/06/2019	U
Toluene	0.771	0.050	"	"	"	JTD	"	"	
Ethylbenzene	0.396	0.050	"	"	"	JTD	"	"	
Xylenes, total	3.38	0.050	"	"	"	JTD	"	"	

Surrogate: 1,2-Dichloroethane-d4 96.8 % 70-130 " " "

Surrogate: Toluene-d8 101 % 70-130 " " "

Surrogate: 4-Bromofluorobenzene 104 % 70-130 " " "

Origins Laboratory, Inc.



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Jen Pellegrini, Project Manager

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

Brian Sulzberger
Project Number: 014219027
Project: KMG - Hudson Compressor Station

SS-2@2"

3/5/2019 2:20:00PM

Analyte	Result	Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y903044-02 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	40.0	25.0	mg/kg	1	B9C0502	JTD	03/05/2019	03/05/2019	
Residual Range Organics (C28-C40)	ND	100	"	"	"	JTD	"	"	U

Surrogate: o-Terphenyl	83.8 %	59-131			"	"	"
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GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	272	50.0	mg/kg	250	B9C0501	JTD	03/05/2019	03/05/2019
Benzene	0.187	0.050	"	25	"	JTD	"	03/06/2019
Toluene	3.48	0.498	"	250	"	JTD	"	03/05/2019
Ethylbenzene	0.980	0.498	"	"	"	JTD	"	"
Xylenes, total	8.22	0.498	"	"	"	JTD	"	"

Surrogate: 1,2-Dichloroethane-d4	124 %	70-130			"	"	03/06/2019
Surrogate: Toluene-d8	94.3 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	104 %	70-130			"	"	"

Origins Laboratory, Inc.



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Jen Pellegrini, Project Manager

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

Brian Sulzberger
Project Number: 014219027
Project: KMG - Hudson Compressor Station

SS-3@2"

3/5/2019 2:30:00PM

Analyte	Result	Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y903044-03 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	41.5	25.0	mg/kg	1	B9C0502	JTD	03/05/2019	03/05/2019	
Residual Range Organics (C28-C40)	ND	100	"	"	"	JTD	"	"	U

Surrogate: o-Terphenyl 90.6 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B9C0501	JTD	03/05/2019	03/05/2019	U
Benzene	ND	0.002	"	"	"	JTD	"	"	U
Toluene	ND	0.002	"	"	"	JTD	"	"	U
Ethylbenzene	ND	0.002	"	"	"	JTD	"	"	U
Xylenes, total	ND	0.002	"	"	"	JTD	"	"	U

Surrogate: 1,2-Dichloroethane-d4 96.4 % 70-130 " " "
Surrogate: Toluene-d8 100 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 97.9 % 70-130 " " "

Origins Laboratory, Inc.



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Jen Pellegrini, Project Manager

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

Brian Sulzberger
Project Number: 014219027
Project: KMG - Hudson Compressor Station

SS-4@2"

3/5/2019 2:40:00PM

Analyte	Result	Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y903044-04 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25.0	mg/kg	1	B9C0502	JTD	03/05/2019	03/05/2019	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	JTD	"	"	U

Surrogate: o-Terphenyl 85.8 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B9C0501	JTD	03/05/2019	03/05/2019	U
Benzene	ND	0.002	"	"	"	JTD	"	"	U
Toluene	ND	0.002	"	"	"	JTD	"	"	U
Ethylbenzene	ND	0.002	"	"	"	JTD	"	"	U
Xylenes, total	ND	0.002	"	"	"	JTD	"	"	U

Surrogate: 1,2-Dichloroethane-d4 97.6 % 70-130 " " "
Surrogate: Toluene-d8 99.0 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 98.4 % 70-130 " " "

Origins Laboratory, Inc.



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Jen Pellegrini, Project Manager

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

Brian Sulzberger
Project Number: 014219027
Project: KMG - Hudson Compressor Station

SS-5@2"

3/5/2019 2:50:00PM

Analyte	Result	Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y903044-05 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25.0	mg/kg	1	B9C0502	JTD	03/05/2019	03/05/2019	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	JTD	"	"	U

Surrogate: o-Terphenyl 85.0 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B9C0501	JTD	03/05/2019	03/05/2019	U
Benzene	ND	0.002	"	"	"	JTD	"	"	U
Toluene	ND	0.002	"	"	"	JTD	"	"	U
Ethylbenzene	ND	0.002	"	"	"	JTD	"	"	U
Xylenes, total	ND	0.002	"	"	"	JTD	"	"	U

Surrogate: 1,2-Dichloroethane-d4 99.5 % 70-130 " " "
Surrogate: Toluene-d8 99.5 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 98.1 % 70-130 " " "

Origins Laboratory, Inc.



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Jen Pellegrini, Project Manager

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

Brian Sulzberger
Project Number: 014219027
Project: KMG - Hudson Compressor Station

SS-6@2"

3/5/2019 3:00:00PM

Analyte	Result	Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y903044-06 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	98.7	25.0	mg/kg	1	B9C0502	JTD	03/05/2019	03/05/2019	
Residual Range Organics (C28-C40)	ND	100	"	"	"	JTD	"	"	U

Surrogate: o-Terphenyl 85.1 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	594	50.0	mg/kg	250	B9C0501	JTD	03/05/2019	03/05/2019	
Benzene	ND	0.050	"	25	"	JTD	"	03/06/2019	U
Toluene	2.44	0.050	"	"	"	JTD	"	"	
Ethylbenzene	2.26	0.050	"	"	"	JTD	"	"	
Xylenes, total	19.6	0.050	"	"	"	JTD	"	"	

Surrogate: 1,2-Dichloroethane-d4 96.8 % 70-130 " " "

Surrogate: Toluene-d8 103 % 70-130 " " "

Surrogate: 4-Bromofluorobenzene 110 % 70-130 " " "

Origins Laboratory, Inc.



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Jen Pellegrini, Project Manager

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

Brian Sulzberger
Project Number: 014219027
Project: KMG - Hudson Compressor Station

SS-7@2"

3/5/2019 3:10:00PM

Analyte	Result	Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y903044-07 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	25.0	mg/kg	1	B9C0502	JTD	03/05/2019	03/05/2019	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	JTD	"	"	U

Surrogate: o-Terphenyl 83.5 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	18.1	5.00	mg/kg	25	B9C0501	JTD	03/05/2019	03/05/2019
Benzene	0.168	0.050	"	"	"	JTD	"	"
Toluene	0.400	0.050	"	"	"	JTD	"	"
Ethylbenzene	0.091	0.050	"	"	"	JTD	"	"
Xylenes, total	0.622	0.050	"	"	"	JTD	"	"

Surrogate: 1,2-Dichloroethane-d4 95.9 % 70-130 " " "

Surrogate: Toluene-d8 101 % 70-130 " " "

Surrogate: 4-Bromofluorobenzene 95.8 % 70-130 " " "

Origins Laboratory, Inc.



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Jen Pellegrini, Project Manager

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

Brian Sulzberger
Project Number: 014219027
Project: KMG - Hudson Compressor Station

SS-8@2"

3/5/2019 3:20:00PM

Analyte	Result	Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y903044-08 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	240	25.0	mg/kg	1	B9C0502	JTD	03/05/2019	03/05/2019	
Residual Range Organics (C28-C40)	127	100	"	"	"	JTD	"	"	

Surrogate: o-Terphenyl	92.9 %	59-131			"	"	"	
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GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	14.1	5.00	mg/kg	25	B9C0501	JTD	03/05/2019	03/05/2019	
Benzene	ND	0.050	"	"	"	JTD	"	"	U
Toluene	ND	0.050	"	"	"	JTD	"	"	U
Ethylbenzene	ND	0.050	"	"	"	JTD	"	"	U
Xylenes, total	0.258	0.050	"	"	"	JTD	"	"	

Surrogate: 1,2-Dichloroethane-d4	95.5 %	70-130			"	"	"	
Surrogate: Toluene-d8	101 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	96.0 %	70-130			"	"	"	

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.

Jen Pellegrini, Project Manager

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

Brian Sulzberger
Project Number: 014219027
Project: KMG - Hudson Compressor Station

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
Batch B9C0501 - EPA 5030 (soil)										
Blank (B9C0501-BLK1)					Prepared: 03/05/2019 Analyzed: 03/05/2019					
Gasoline Range Hydrocarbons	ND	0.200	mg/kg							U
Benzene	ND	0.002	"							U
Toluene	ND	0.002	"							U
Ethylbenzene	ND	0.002	"							U
Xylenes, total	ND	0.002	"							U
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		98.3	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		101	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		96.9	70-130			

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.

Jen Pellegrini, Project Manager

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

Brian Sulzberger
Project Number: 014219027
Project: KMG - Hudson Compressor Station

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
Batch B9C0501 - EPA 5030 (soil)										
LCS (B9C0501-BS1)					Prepared: 03/05/2019 Analyzed: 03/05/2019					
Benzene	0.102	0.002	mg/kg	0.100		102	77.1-124			
Toluene	0.113	0.002	"	0.100		113	74.5-128			
Ethylbenzene	0.110	0.002	"	0.100		110	66.4-127			
m,p-Xylene	0.218	0.004	"	0.200		109	76.6-124			
o-Xylene	0.108	0.002	"	0.100		108	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		92.1	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		101	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		101	70-130			

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.

Jen Pellegrini, Project Manager

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

Brian Sulzberger
Project Number: 014219027
Project: KMG - Hudson Compressor Station

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 B9C0501 - EPA 5030 (soil)

Matrix Spike (B9C0501-MS1)		Source: Y903032-01			Prepared: 03/05/2019 Analyzed: 03/05/2019					
Benzene	0.087	0.002	mg/kg	0.100	ND	86.9	71.8-126			
Toluene	0.095	0.002	"	0.100	ND	94.8	65.1-130			
Ethylbenzene	0.090	0.002	"	0.100	ND	90.4	62.2-130			
m,p-Xylene	0.181	0.004	"	0.200	0.002	89.3	46.5-137			
o-Xylene	0.089	0.002	"	0.100	0.0006	88.8	54.2-134			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		96.0	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		99.2	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		100	70-130			

Origins Laboratory, Inc.



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Jen Pellegrini, Project Manager

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

Brian Sulzberger
Project Number: 014219027
Project: KMG - Hudson Compressor Station

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 B9C0501 - EPA 5030 (soil)

Matrix Spike Dup (B9C0501-MSD1)		Source: Y903032-01			Prepared: 03/05/2019 Analyzed: 03/05/2019					
Benzene	0.083	0.002	mg/kg	0.100	ND	83.0	71.8-126	4.64	11.3	
Toluene	0.090	0.002	"	0.100	ND	90.4	65.1-130	4.79	15.4	
Ethylbenzene	0.087	0.002	"	0.100	ND	86.7	62.2-130	4.20	19.6	
m,p-Xylene	0.173	0.004	"	0.200	0.002	85.4	46.5-137	4.49	19.2	
o-Xylene	0.086	0.002	"	0.100	0.0006	85.1	54.2-134	4.22	17.9	
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		97.6	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		99.1	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		101	70-130			

Origins Laboratory, Inc.



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Jen Pellegrini, Project Manager

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

Brian Sulzberger
Project Number: 014219027
Project: KMG - Hudson Compressor Station

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 8015C - 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 B9C0502 - EPA 3580

Blank (B9C0502-BLK1)

Prepared: 03/05/2019 Analyzed: 03/05/2019

Diesel (C10-C28)	ND	50.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	200	"							U
Surrogate: o-Terphenyl	41		"	50.0		82.6	59-131			

LCS (B9C0502-BS1)

Prepared: 03/05/2019 Analyzed: 03/05/2019

Diesel (C10-C28)	1050	50.0	mg/kg	1000		105	64-121			
Residual Range Organics (C28-C40)	1050	200	"	1000		105	58-124			
Surrogate: o-Terphenyl	52		"	50.0		104	59-131			

Matrix Spike (B9C0502-MS1)

Source: Y903032-01

Prepared: 03/05/2019 Analyzed: 03/05/2019

Diesel (C10-C28)	995	50.0	mg/kg	1000	ND	99.5	53-125			
Residual Range Organics (C28-C40)	1020	200	"	1000	13.5	100	47-133			
Surrogate: o-Terphenyl	53		"	50.0		107	59-131			

Matrix Spike Dup (B9C0502-MSD1)

Source: Y903032-01

Prepared: 03/05/2019 Analyzed: 03/05/2019

Diesel (C10-C28)	1050	50.0	mg/kg	1000	ND	105	53-125	5.16	20	
Residual Range Organics (C28-C40)	1100	200	"	1000	13.5	108	47-133	7.59	20	
Surrogate: o-Terphenyl	54		"	50.0		108	59-131			

Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: 014219027
Project: KMG - Hudson Compressor Station

Notes and Definitions

U Sample is Non-Detect.

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.



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.

Jen Pellegrini, Project Manager



March 11, 2019

LT Environmental, Inc.

Brian Sulzberger

4600 West 60th Avenue

Arvada

CO 80003

**Project Name - KMG - Hudson Compressor
Station**

Project Number - 014219027

Attached are your analytical results for KMG - Hudson Compressor Station received by Origins Laboratory, Inc. March 08, 2019. This project is associated with Origins project number Y903109-01.

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

Brian Sulzberger
Project Number: 014219027
Project: KMG - Hudson Compressor Station

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS-2@3"	Y903109-01	Soil	March 8, 2019 14:00	03/08/2019 15:10
SS-6@3"	Y903109-02	Soil	March 8, 2019 14:05	03/08/2019 15:10

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.

Jen Pellegrini, Project Manager

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

Brian Sulzberger
Project Number: 014219027
Project: KMG - Hudson Compressor Station

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: 4903109

Client: LTE

Client Project ID: KMG-Hudson

Checklist Completed by: JP

Shipped Via: HD
(UPS, FedEx, Hand Delivered, Pick-up, etc.)

Date/time completed: 3/8/19

Airbill #: NA

Matrix(s) Received: (Check all that apply): X Soil/Solid Water Other:

Cooler Number/Temperature: 1 / 1.9 °C / °C / °C (Describe)

Thermometer ID: TU03

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C ⁽¹⁾ ?	<u>X</u>			
Is there ice present (document if blue ice is used)	<u>X</u>			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		<u>X</u>		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)		<u>X</u>		
Were all samples received intact ⁽¹⁾ ?	<u>X</u>			
Was adequate sample volume provided ⁽¹⁾ ?	<u>X</u>			
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?		<u>X</u>		
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	<u>X</u>			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<u>X</u>			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<u>X</u>			
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	<u>X</u>			
For volatiles in water — is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.			<u>X</u>	
Are samples preserved that require preservation and was it checked ⁽¹⁾ ? (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 ₃ , HCL, H ₂ SO ₄ / (pH > 10 for samples preserved with NaAsO ₂ +NaOH, ZnAc+NaOH)			<u>X</u>	
Additional Comments (if any):				

⁽¹⁾ 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 3-8-19

Origins Laboratory, Inc.

[Signature]

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

Brian Sulzberger
Project Number: 014219027
Project: KMG - Hudson Compressor Station

SS-2@3"

3/8/2019 2:00:00PM

Analyte	Result	Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y903109-01 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	94.8	50.0	mg/kg	1	B9C0804	JTD	03/08/2019	03/09/2019	
Residual Range Organics (C28-C40)	ND	200	"	"	"	JTD	"	"	U

Surrogate: o-Terphenyl 84.7 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	23.4	5.00	mg/kg	25	B9C0803	JTD	03/08/2019	03/08/2019	
Benzene	ND	0.050	"	"	"	JTD	"	"	U
Toluene	0.180	0.050	"	"	"	JTD	"	"	
Ethylbenzene	0.064	0.050	"	"	"	JTD	"	"	
Xylenes, total	0.619	0.050	"	"	"	JTD	"	"	

Surrogate: 1,2-Dichloroethane-d4 83.1 % 70-130 " " "
Surrogate: Toluene-d8 105 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 97.2 % 70-130 " " "

Origins Laboratory, Inc.



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Jen Pellegrini, Project Manager

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

Brian Sulzberger
Project Number: 014219027
Project: KMG - Hudson Compressor Station

SS-6@3"

3/8/2019 2:05:00PM

Analyte	Result	Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y903109-02 (Soil)

DRO/RRO by EPA8015C

Diesel (C10-C28)	ND	50.0	mg/kg	1	B9C0804	JTD	03/08/2019	03/09/2019	U
Residual Range Organics (C28-C40)	ND	200	"	"	"	JTD	"	"	U

Surrogate: o-Terphenyl 76.8 % 59-131 " " "

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	33.4	5.00	mg/kg	25	B9C0803	JTD	03/08/2019	03/08/2019	
Benzene	ND	0.050	"	"	"	JTD	"	"	U
Toluene	0.186	0.050	"	"	"	JTD	"	"	
Ethylbenzene	0.066	0.050	"	"	"	JTD	"	"	
Xylenes, total	0.574	0.050	"	"	"	JTD	"	"	

Surrogate: 1,2-Dichloroethane-d4 83.6 % 70-130 " " "

Surrogate: Toluene-d8 103 % 70-130 " " "

Surrogate: 4-Bromofluorobenzene 96.2 % 70-130 " " "

Origins Laboratory, Inc.



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Jen Pellegrini, Project Manager

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

Brian Sulzberger
Project Number: 014219027
Project: KMG - Hudson Compressor Station

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
Batch B9C0803 - EPA 5030 (soil)										
Blank (B9C0803-BLK1)					Prepared: 03/08/2019 Analyzed: 03/08/2019					
Gasoline Range Hydrocarbons	ND	0.200	mg/kg							U
Benzene	ND	0.002	"							U
Toluene	ND	0.002	"							U
Ethylbenzene	ND	0.002	"							U
Xylenes, total	ND	0.002	"							U
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125		84.6	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		105	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		96.2	70-130			

Origins Laboratory, Inc.



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Jen Pellegrini, Project Manager

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

Brian Sulzberger
Project Number: 014219027
Project: KMG - Hudson Compressor Station

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
Batch B9C0803 - EPA 5030 (soil)										
LCS (B9C0803-BS1)					Prepared: 03/08/2019 Analyzed: 03/08/2019					
Benzene	0.093	0.002	mg/kg	0.100		93.4	77.1-124			
Toluene	0.106	0.002	"	0.100		106	74.5-128			
Ethylbenzene	0.110	0.002	"	0.100		110	66.4-127			
m,p-Xylene	0.220	0.004	"	0.200		110	76.6-124			
o-Xylene	0.104	0.002	"	0.100		104	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	0.098		"	0.125		78.7	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		105	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		98.7	70-130			

Origins Laboratory, Inc.



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Jen Pellegrini, Project Manager

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

Brian Sulzberger
Project Number: 014219027
Project: KMG - Hudson Compressor Station

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 B9C0803 - EPA 5030 (soil)

Matrix Spike (B9C0803-MS1)		Source: Y903108-01			Prepared: 03/08/2019 Analyzed: 03/08/2019					
Benzene	0.084	0.002	mg/kg	0.100	ND	84.0	71.8-126			
Toluene	0.100	0.002	"	0.100	ND	100	65.1-130			
Ethylbenzene	0.095	0.002	"	0.100	ND	95.5	62.2-130			
m,p-Xylene	0.191	0.004	"	0.200	ND	95.6	46.5-137			
o-Xylene	0.091	0.002	"	0.100	ND	91.2	54.2-134			
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125		88.8	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		103	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		98.9	70-130			

Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: 014219027
Project: KMG - Hudson Compressor Station

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 B9C0803 - EPA 5030 (soil)

Matrix Spike Dup (B9C0803-MSD1)		Source: Y903108-01			Prepared: 03/08/2019 Analyzed: 03/08/2019					
Benzene	0.095	0.002	mg/kg	0.100	ND	95.4	71.8-126	12.8	11.3	QR-02
Toluene	0.115	0.002	"	0.100	ND	115	65.1-130	13.9	15.4	
Ethylbenzene	0.110	0.002	"	0.100	ND	110	62.2-130	14.2	19.6	
m,p-Xylene	0.221	0.004	"	0.200	ND	110	46.5-137	14.2	19.2	
o-Xylene	0.105	0.002	"	0.100	ND	105	54.2-134	14.6	17.9	
Surrogate: 1,2-Dichloroethane-d4	0.10		"	0.125		83.6	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		103	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		98.8	70-130			

Origins Laboratory, Inc.



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Jen Pellegrini, Project Manager

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

Brian Sulzberger
Project Number: 014219027
Project: KMG - Hudson Compressor Station

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 8015C - 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 B9C0804 - EPA 3580

Blank (B9C0804-BLK1)

Prepared: 03/08/2019 Analyzed: 03/08/2019

Diesel (C10-C28)	ND	50.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	200	"							U
Surrogate: o-Terphenyl	40		"	50.0		80.4	59-131			

Blank (B9C0804-BLK2)

Prepared: 03/08/2019 Analyzed: 03/09/2019

Diesel (C10-C28)	ND	50.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	200	"							U
Surrogate: o-Terphenyl	41		"	50.0		82.4	59-131			

LCS (B9C0804-BS1)

Prepared: 03/08/2019 Analyzed: 03/08/2019

Diesel (C10-C28)	887	50.0	mg/kg	1000		88.7	64-121			
Residual Range Organics (C28-C40)	894	200	"	1000		89.4	58-124			
Surrogate: o-Terphenyl	48		"	50.0		95.9	59-131			

LCS (B9C0804-BS2)

Prepared: 03/08/2019 Analyzed: 03/09/2019

Diesel (C10-C28)	929	50.0	mg/kg	1000		92.9	64-121			
Residual Range Organics (C28-C40)	921	200	"	1000		92.1	58-124			
Surrogate: o-Terphenyl	49		"	50.0		97.1	59-131			

Matrix Spike (B9C0804-MS1)

Source: Y903106-04

Prepared: 03/08/2019 Analyzed: 03/08/2019

Diesel (C10-C28)	938	50.0	mg/kg	1000	ND	93.8	53-125			
Residual Range Organics (C28-C40)	912	200	"	1000	ND	91.2	47-133			

Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: 014219027
Project: KMG - Hudson Compressor Station

Extractable Petroleum Hydrocarbons by 8015C - Quality Control Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B9C0804 - EPA 3580										
Matrix Spike (B9C0804-MS1)		Source: Y903106-04			Prepared: 03/08/2019 Analyzed: 03/08/2019					
Surrogate: o-Terphenyl	45		mg/kg	50.0		90.6	59-131			
Matrix Spike (B9C0804-MS2)		Source: Y903106-05			Prepared: 03/08/2019 Analyzed: 03/09/2019					
Diesel (C10-C28)	969	50.0	mg/kg	1000	ND	96.9	53-125			
Residual Range Organics (C28-C40)	1000	200	"	1000	ND	100	47-133			
Surrogate: o-Terphenyl	48		"	50.0		96.4	59-131			
Matrix Spike Dup (B9C0804-MSD1)		Source: Y903106-04			Prepared: 03/08/2019 Analyzed: 03/08/2019					
Diesel (C10-C28)	897	50.0	mg/kg	1000	ND	89.7	53-125	4.47	20	
Residual Range Organics (C28-C40)	847	200	"	1000	ND	84.7	47-133	7.43	20	
Surrogate: o-Terphenyl	43		"	50.0		85.5	59-131			
Matrix Spike Dup (B9C0804-MSD2)		Source: Y903106-05			Prepared: 03/08/2019 Analyzed: 03/09/2019					
Diesel (C10-C28)	966	50.0	mg/kg	1000	ND	96.6	53-125	0.312	20	
Residual Range Organics (C28-C40)	946	200	"	1000	ND	94.6	47-133	5.63	20	
Surrogate: o-Terphenyl	47		"	50.0		94.1	59-131			

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

Brian Sulzberger
Project Number: 014219027
Project: KMG - Hudson Compressor Station

Notes and Definitions

U Sample is Non-Detect.

QR-02 The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.

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, Project Manager