



January 12, 2016

LT Environmental, Inc.

Rob Rebel

4600 West 60th Avenue

Arvada

CO 80003

Project Name - Anschwitz Equus Farm 4-62-15-22 Project Number - 027315024

Attached are your analytical results for Anschwitz Equus Farm 4-62-15-22 received by Origins Laboratory, Inc. January 06, 2016. This project is associated with Origins project number X601039-01.

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: 027315024
Project: Anschwitz Equus Farm 4-62-15-22

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS01	X601039-01	Soil	January 6, 2016 11:45	01/06/2016 14:15
SS02	X601039-02	Soil	January 6, 2016 11:50	01/06/2016 14:15

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.

Rob Rebel
Project Number: 027315024
Project: Anschwitz Equus Farm 4-62-15-22

ORIGINS
LABORATORY, INC

www.originslaboratory.com

page 1 of 1

Client: LIE Project Manager: Rob Rabe
 Address: 4600 W 66th AVE Project Name: Anschutz Equus Farm 422-5-22
Arvada CO 80003 Project Number: 027315024
 Telephone Number: 303-433-4788 Samples Collected By: Chad Buelke
 Email Address: rrabe1@lhenl.com

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis			Sample Instructions
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	Air Summa #	Other	Grx	Grx	
SS01	1-6-15	11:45	1	X					X				X	1
SS02	1-6-15	11:50	1	X					X				X	2
														3
														4
														5
														6
														7
														8
														9
														10
Relinquished By: <u>Chad Buelke</u>	Date: <u>1-6-16</u>	Time: <u>14:15</u>	Received By: <u>[Signature]</u>				Date: <u>1/6/16</u>			Time: <u>14:15</u>			Turnaround Time: Same Day <input type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input type="checkbox"/> 72 Hr <input checked="" type="checkbox"/> Standard	
Relinquished By:	Date:	Time:	Received By:				Date:			Time:				

Temp Received: 17.0 Date Result Needed

Origins Laboratory, Inc.

Jose Pellegrini

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

Rob Rebel
Project Number: 027315024
Project: Anschwitz Equus Farm 4-62-15-22

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: 4601039

Client: LTE

Client Project ID: Anschwitz Equus Farm 4-62-15

Checklist Completed by: J. Pellegrini

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

Date/time completed: 1/6/16 1419

Airbill #: NA

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

Cooler Number/Temperature: 1 / 12.0 °C 1 / _____ °C 1 / _____ °C 1 / _____ °C

Thermometer ID: JCO3

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"/>		Sampled Same day
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.

Reviewed by (Project Manager) [Signature]

01/06/16
Date/Time Reviewed

Origins Laboratory, Inc.

Jefe Pellegrini

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

Rob Rebel
Project Number: 027315024
Project: Anschwitz Equus Farm 4-62-15-22

SS01
1/6/2016 11:45:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X601039-01 (Soil)

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

Diesel (C10-C28)	616	50.0	mg/kg	1	B6A0604	01/06/2016	01/06/2016
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Surrogate: o-Terphenyl	107 %	59-131			"	"	"
------------------------	-------	--------	--	--	---	---	---

GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	9.49	5.00	mg/kg	25	B6A0605	01/06/2016	01/07/2016
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Benzene	ND	0.050	"	"	"	"	"
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Toluene	ND	0.050	"	"	"	"	"
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Ethylbenzene	ND	0.050	"	"	"	"	"
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Xylenes, total	ND	0.050	"	"	"	"	"
----------------	----	-------	---	---	---	---	---

Surrogate: 1,2-Dichloroethane-d4	102 %	70-130			"	"	"
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Surrogate: Toluene-d8	95.5 %	70-130			"	"	"
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Surrogate: 4-Bromofluorobenzene	93.3 %	70-130			"	"	"
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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: 027315024
Project: Anschwitz Equus Farm 4-62-15-22

SS02

1/6/2016 11:50:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X601039-02 (Soil)

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

Diesel (C10-C28)	295	50.0	mg/kg	1	B6A0604	01/06/2016	01/06/2016
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Surrogate: o-Terphenyl	107 %	59-131			"	"	"
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GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	6.84	5.00	mg/kg	25	B6A0605	01/06/2016	01/07/2016
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Benzene	ND	0.050	"	"	"	"	"
---------	----	-------	---	---	---	---	---

Toluene	ND	0.050	"	"	"	"	"
---------	----	-------	---	---	---	---	---

Ethylbenzene	ND	0.050	"	"	"	"	"
--------------	----	-------	---	---	---	---	---

Xylenes, total	ND	0.050	"	"	"	"	"
----------------	----	-------	---	---	---	---	---

Surrogate: 1,2-Dichloroethane-d4	102 %	70-130			"	"	"
----------------------------------	-------	--------	--	--	---	---	---

Surrogate: Toluene-d8	94.8 %	70-130			"	"	"
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Surrogate: 4-Bromofluorobenzene	95.8 %	70-130			"	"	"
---------------------------------	--------	--------	--	--	---	---	---

Origins Laboratory, Inc.



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

Rob Rebel
Project Number: 027315024
Project: Anschwitz Equus Farm 4-62-15-22

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 B6A0605 - EPA 5030 (soil)										
Blank (B6A0605-BLK1)					Prepared: 01/06/2016 Analyzed: 01/06/2016					
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	64.7		ug/kg	62.5		104	70-130			
Surrogate: Toluene-d8	59.3		"	62.5		94.9	70-130			
Surrogate: 4-Bromofluorobenzene	59.8		"	62.5		95.7	70-130			

Origins Laboratory, Inc.



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4600 West 60th Avenue
Arvada CO 80003

Rob Rebel
Project Number: 027315024
Project: Anschwitz Equus Farm 4-62-15-22

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 B6A0605 - EPA 5030 (soil)

LCS (B6A0605-BS1)

Prepared: 01/06/2016 Analyzed: 01/06/2016

Benzene	0.090	0.002	mg/kg	0.100		90.3	77.1-124			
Toluene	0.090	0.002	"	0.100		89.7	74.5-128			
Ethylbenzene	0.103	0.002	"	0.100		103	66.4-127			
m,p-Xylene	0.206	0.004	"	0.200		103	76.6-124			
o-Xylene	0.104	0.002	"	0.100		104	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	63.0		ug/kg	62.5		101	70-130			
Surrogate: Toluene-d8	58.0		"	62.5		92.9	70-130			
Surrogate: 4-Bromofluorobenzene	60.9		"	62.5		97.5	70-130			

Origins Laboratory, Inc.



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

Rob Rebel
Project Number: 027315024
Project: Anschwitz Equus Farm 4-62-15-22

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 B6A0605 - EPA 5030 (soil)										
LCS Dup (B6A0605-BSD1)					Prepared: 01/06/2016 Analyzed: 01/06/2016					
Benzene	0.090	0.002	mg/kg	0.100		89.9	77.1-124	0.466	20	
Toluene	0.090	0.002	"	0.100		89.5	74.5-128	0.156	20	
Ethylbenzene	0.100	0.002	"	0.100		99.8	66.4-127	2.81	20	
m,p-Xylene	0.201	0.004	"	0.200		101	76.6-124	2.37	20	
o-Xylene	0.106	0.002	"	0.100		106	76.6-124	1.11	20	
Surrogate: 1,2-Dichloroethane-d4	63.7		ug/kg	62.5		102	70-130			
Surrogate: Toluene-d8	58.4		"	62.5		93.4	70-130			
Surrogate: 4-Bromofluorobenzene	60.0		"	62.5		96.1	70-130			

Origins Laboratory, Inc.



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

Rob Rebel
Project Number: 027315024
Project: Anschwitz Equus Farm 4-62-15-22

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 B6A0604 - EPA 3580

Blank (B6A0604-BLK1)

Prepared: 01/06/2016 Analyzed: 01/06/2016

Diesel (C10-C28)	ND	50.0	mg/kg							
Surrogate: o-Terphenyl	39		"	50.0		78.6	59-131			

LCS (B6A0604-BS1)

Prepared: 01/06/2016 Analyzed: 01/06/2016

Diesel (C10-C28)	907	50.0	mg/kg	1000		90.7	64-121			
Surrogate: o-Terphenyl	49		"	50.0		98.2	59-131			

LCS Dup (B6A0604-BSD1)

Prepared: 01/06/2016 Analyzed: 01/06/2016

Diesel (C10-C28)	985	50.0	mg/kg	1000		98.5	64-121	8.24	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

Rob Rebel

Project Number: 027315024

Project: Anschwitz Equus Farm 4-62-15-22

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.



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.



October 26, 2016

LT Environmental, Inc.

Gentry Muniz

4600 West 60th Avenue

Arvada

CO 80003

**Project Name - Anschutz Equus Farms 4-62-15_22 Project Number - 027315024
NENE**

Attached are your analytical results for Anschutz Equus Farms 4-62-15_22 NENE received by Origins Laboratory, Inc. October 19, 2016. This project is associated with Origins project number X610210-01.

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

Gentry Muniz

Project Number: 027315024

Project: Anschutz Equus Farms 4-62-15_22
NENE

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS01	X610210-01	Soil	October 19, 2016 12:25	10/19/2016 15:05

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.

Gentry Muniz
Project Number: 027315024
Project: Anschutz Equus Farms 4-62-15_22
NENE

ORIGINS

LABORATORY, INC

www.originslaboratory.com

page 1 of 1

Client: ~~BTB~~ LT Environmental Inc
Address: 4400 W 60th Ave
Arvada, CO
Telephone Number: 303 433 9788
Email Address: gmuniz@ltenv.com

X610210

Project Manager: Gentry Muniz
Project Name: Anschütz Equus Farms
Project Number: 027315024
Samples Collected By: DS

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix				Analysis				Sample Instructions
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	Air Summa Continer #	Other	TPH	STEX	TPH 1500/600		
5501	10/19/16	1225	2	X						X						1
																2
																3
																4
																5
																6
																7
																8
																9
																10
Relinquished By: Drew Stormo	Date: 10/19/16		Time: 1505					Received By: [Signature]				Date: 10/19/16	Time: 1505	Turnaround Time: Same Day <input type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input type="checkbox"/> 72 Hr <input checked="" type="checkbox"/> Standard <input type="checkbox"/>		
Relinquished By:	Date:		Time:					Received By:				Date:	Time:			

Temp Received- 6.8

Date Results Needed

Origins Laboratory, Inc.

Jeff Pellipini

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

Gentry Muniz

Project Number: 027315024

Project: Anschutz Equus Farms 4-62-15_22
NENE

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: XL 10210

Client: LTE

Client Project ID: Anschutz Equus Farms

Checklist Completed by: Jeff Sam

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

Date/time completed: 10/20/16

Airbill #: N/A

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

Cooler Number/Temperature: 1 / 16.2 °C 1 / _____ °C 1 / _____ °C (Describe)

Thermometer ID: TCCB

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.

Reviewed by (Project Manager) Jeff Sam

Date/Time Reviewed 10/26/16

Origins Laboratory, Inc.

Jeff Pellegrini

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

Gentry Muniz
Project Number: 027315024
Project: Anschutz Equus Farms 4-62-15_22
NENE

SS01

10/19/2016 12:25:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X610210-01 (Soil)

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

Diesel (C10-C28)	ND	50.0	mg/kg	1	B6J2404	10/24/2016	10/26/2016	U
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Surrogate: o-Terphenyl	63.3 %	59-131			"	"	"	
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GBTEX by EPA 8260C

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B6J2403	10/24/2016	10/24/2016	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	103 %	70-130			"	"	"	
Surrogate: Toluene-d8	98.7 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	100 %	70-130			"	"	"	

Origins Laboratory, Inc.



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

Gentry Muniz
Project Number: 027315024
Project: Anschutz Equus Farms 4-62-15_22
NENE

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 B6J2403 - EPA 5030 (soil)										
Blank (B6J2403-BLK1)					Prepared: 10/24/2016 Analyzed: 10/25/2016					
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	65		ug/kg	62.5		105	70-130			
Surrogate: Toluene-d8	64		"	62.5		102	70-130			
Surrogate: 4-Bromofluorobenzene	64		"	62.5		103	70-130			

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

Gentry Muniz
Project Number: 027315024
Project: Anschutz Equus Farms 4-62-15_22
NENE

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 B6J2403 - EPA 5030 (soil)										
LCS (B6J2403-BS1)					Prepared: 10/24/2016 Analyzed: 10/25/2016					
Benzene	0.099	0.002	mg/kg	0.100		99.4	77.1-124			
Toluene	0.104	0.002	"	0.100		104	74.5-128			
Ethylbenzene	0.111	0.002	"	0.100		111	66.4-127			
m,p-Xylene	0.225	0.004	"	0.200		113	76.6-124			
o-Xylene	0.111	0.002	"	0.100		111	76.6-124			
Surrogate: 1,2-Dichloroethane-d4	62		ug/kg	62.5		99.2	70-130			
Surrogate: Toluene-d8	64		"	62.5		103	70-130			
Surrogate: 4-Bromofluorobenzene	65		"	62.5		103	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 B6J2403 - EPA 5030 (soil)

Matrix Spike (B6J2403-MS1)		Source: X610210-01			Prepared: 10/24/2016 Analyzed: 10/24/2016					
Benzene	0.101	0.002	mg/kg	0.100	ND	101	71.8-126			
Toluene	0.101	0.002	"	0.100	ND	101	65.1-130			
Ethylbenzene	0.107	0.002	"	0.100	ND	107	62.2-130			
m,p-Xylene	0.212	0.004	"	0.200	ND	106	46.5-137			
o-Xylene	0.104	0.002	"	0.100	ND	104	54.2-134			
Surrogate: 1,2-Dichloroethane-d4	57		ug/kg	62.5		91.5	70-130			
Surrogate: Toluene-d8	66		"	62.5		105	70-130			
Surrogate: 4-Bromofluorobenzene	60		"	62.5		95.3	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 B6J2403 - EPA 5030 (soil)

Matrix Spike Dup (B6J2403-MSD1)		Source: X610210-01			Prepared: 10/24/2016 Analyzed: 10/24/2016					
Benzene	0.106	0.002	mg/kg	0.100	ND	106	71.8-126	4.12	11.3	
Toluene	0.104	0.002	"	0.100	ND	104	65.1-130	3.17	15.4	
Ethylbenzene	0.109	0.002	"	0.100	ND	109	62.2-130	1.46	19.6	
m,p-Xylene	0.221	0.004	"	0.200	ND	111	46.5-137	4.15	19.2	
o-Xylene	0.111	0.002	"	0.100	ND	111	54.2-134	6.16	17.9	
Surrogate: 1,2-Dichloroethane-d4	61		ug/kg	62.5		97.7	70-130			
Surrogate: Toluene-d8	66		"	62.5		105	70-130			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		99.8	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 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 B6J2404 - EPA 3580

Blank (B6J2404-BLK1)

Prepared: 10/24/2016 Analyzed: 10/24/2016

Diesel (C10-C28)	ND	50.0	mg/kg							U
Surrogate: o-Terphenyl	38		"	50.0		75.2	59-131			

LCS (B6J2404-BS1)

Prepared: 10/24/2016 Analyzed: 10/24/2016

Diesel (C10-C28)	891	50.0	mg/kg	1000		89.1	64-121			
Surrogate: o-Terphenyl	41		"	50.0		82.4	59-131			

Matrix Spike (B6J2404-MS1)

Source: X610210-01

Prepared: 10/24/2016 Analyzed: 10/24/2016

Diesel (C10-C28)	909	50.0	mg/kg	1000	22.5	88.7	53-125			
Surrogate: o-Terphenyl	41		"	50.0		81.2	59-131			

Matrix Spike Dup (B6J2404-MSD1)

Source: X610210-01

Prepared: 10/24/2016 Analyzed: 10/24/2016

Diesel (C10-C28)	943	50.0	mg/kg	1000	22.5	92.1	53-125	3.65	20	
Surrogate: o-Terphenyl	44		"	50.0		87.4	59-131			

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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.

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