



December 14, 2017

Eagle Environmental Consulting, Inc.

Martin C Eckert III

4101 Inca Street

Denver

CO 80211

Project Name - Noble - Feit E #23-97HZ

Project Number - [none]

Attached are your analytical results for Noble - Feit E #23-97HZ received by Origins Laboratory, Inc. December 13, 2017. This project is associated with Origins project number Y712229-01.

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

Eagle Environmental Consulting, Inc.  
4101 Inca Street  
Denver CO 80211

Martin C Eckert III  
Project Number: [none]  
Project: Noble - Feit E #23-97HZ

## CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
PH-01@2-4	Y712229-01	Soil	December 13, 2017 14:33	12/13/2017 16:52
PH-02@0-2	Y712229-02	Soil	December 13, 2017 13:51	12/13/2017 16:52
PH-03@0-2	Y712229-03	Soil	December 13, 2017 14:13	12/13/2017 16:52
PH-04@6-8	Y712229-04	Soil	December 13, 2017 13:26	12/13/2017 16:52
PH-05@8-10	Y712229-05	Soil	December 13, 2017 13:03	12/13/2017 16:52
PH-06@10-12	Y712229-06	Soil	December 13, 2017 12:34	12/13/2017 16:52
PH-07@4-6	Y712229-07	Soil	December 13, 2017 14:54	12/13/2017 16:52
PH-08@2-4	Y712229-08	Soil	December 13, 2017 15:18	12/13/2017 16:52

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 4101 Inca Street  
 Denver CO 80211

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - Feit E #23-97HZ

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: 9712229

Client: Eagle Env.

Client Project ID: Noble - Feit E #23 - 97HZ

Checklist Completed by: DM

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

Date/time completed: 12-13-12

Airbill #: PC

Matrix(s) Received: (Check all that apply):  Soil/Solid  Water  Other: \_\_\_\_\_ (Describe)

Cooler Number/Temperature: 1 / 2.1 °C 1 / \_\_\_\_\_ °C 1 / \_\_\_\_\_ °C 1 / \_\_\_\_\_ °C

Thermometer ID: 1003

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"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input 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 type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are short holding time analytes or samples with HTs due within 48 hours present <sup>(1)</sup> ?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Is a chain-of-custody (COC) present and filled out completely <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client with date and time recorded <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water – is there headspace (> ¼ inch bubble) present? <b>If yes, contact client and note in narrative.</b>	<input type="checkbox"/>	<input type="checkbox"/>	<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 type="checkbox"/>	<input checked="" type="checkbox"/>	<input 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]

12-13-12  
 Date/Time Reviewed

Origins Laboratory, Inc.

Jefe Pellegrini

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 4101 Inca Street  
 Denver CO 80211

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - Feit E #23-97HZ

PH-01@2-4  
 12/13/2017 2:33:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
 Y712229-01 (Soil)

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

Diesel (C10-C28)	ND	50.0	mg/kg	1	B7L1310	12/13/2017	12/13/2017	U
Surrogate: <i>o</i> -Terphenyl	71.7 %	59-131			"	"	"	

**GBTEX + Napthalene by 8260C**

Gasoline Range Hydrocarbons	<b>0.411</b>	0.200	mg/kg	1	B7L1309	12/13/2017	12/13/2017	
Benzene	ND	0.002	"	"	"	"	"	U
Toluene	ND	0.002	"	"	"	"	"	U
Ethylbenzene	ND	0.002	"	"	"	"	"	U
Xylenes, total	ND	0.002	"	"	"	"	"	U
Napthalene	ND	0.007	"	"	"	"	"	U
Surrogate: 1,2-Dichloroethane-d4	117 %	70-130			"	"	"	
Surrogate: Toluene-d8	96.0 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	99.9 %	70-130			"	"	"	

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Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - Feit E #23-97HZ

PH-02@0-2  
 12/13/2017 1:51:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
 Y712229-02 (Soil)

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

Diesel (C10-C28)	3790	50.0	mg/kg	1	B7L1310	12/13/2017	12/13/2017	
Surrogate: <i>o</i> -Terphenyl	101 %	59-131			"	"	"	

**GBTEX + Napthalene by 8260C**

Gasoline Range Hydrocarbons	12.7	0.200	mg/kg	1	B7L1309	12/13/2017	12/13/2017	
Benzene	ND	0.050	"	25	"	"	"	U
Toluene	ND	0.050	"	"	"	"	"	U
Ethylbenzene	0.068	0.050	"	"	"	"	"	
Xylenes, total	1.07	0.050	"	"	"	"	"	
Naphthalene	0.674	0.175	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4	109 %	70-130			"	"	"	
Surrogate: Toluene-d8	105 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	164 %	70-130			"	"	"	S-04

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PH-03@0-2  
 12/13/2017 2:13:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
 Y712229-03 (Soil)

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

Diesel (C10-C28)	787	50.0	mg/kg	1	B7L1310	12/13/2017	12/13/2017	
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Surrogate: <i>o</i> -Terphenyl	114 %	59-131			"	"	"	
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### GBTEX + Napthalene by 8260C

Gasoline Range Hydrocarbons	19.1	0.200	mg/kg	1	B7L1309	12/13/2017	12/13/2017	
Benzene	0.003	0.002	"	"	"	"	"	
Toluene	ND	0.002	"	"	"	"	"	U
Ethylbenzene	0.003	0.002	"	"	"	"	"	
Xylenes, total	0.056	0.002	"	"	"	"	"	
Napthalene	0.030	0.007	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	112 %	70-130			"	"	"	
Surrogate: Toluene-d8	103 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	192 %	70-130			"	"	"	S-04

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PH-04@6-8  
 12/13/2017 1:26:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
 Y712229-04 (Soil)

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

Diesel (C10-C28)	1010	50.0	mg/kg	1	B7L1310	12/13/2017	12/13/2017	
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Surrogate: <i>o</i> -Terphenyl	95.7 %	59-131			"	"	"	
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**GBTEX + Napthalene by 8260C**

Gasoline Range Hydrocarbons	1010	50.0	mg/kg	250	B7L1309	12/13/2017	12/14/2017	
Benzene	0.371	0.050	"	25	"	"	12/13/2017	
Toluene	ND	0.050	"	"	"	"	"	U
Ethylbenzene	2.16	0.498	"	250	"	"	12/14/2017	
Xylenes, total	11.2	0.498	"	"	"	"	"	
Napthalene	2.45	0.175	"	25	"	"	12/13/2017	

Surrogate: 1,2-Dichloroethane-d4	95.5 %	70-130			"	"	12/14/2017	
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Surrogate: Toluene-d8	96.3 %	70-130			"	"	"	
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Surrogate: 4-Bromofluorobenzene	85.6 %	70-130			"	"	"	
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PH-05@8-10  
 12/13/2017 1:03:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
 Y712229-05 (Soil)

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

Diesel (C10-C28)	970	50.0	mg/kg	1	B7L1310	12/13/2017	12/13/2017	
Surrogate: <i>o</i> -Terphenyl	91.8 %	59-131			"	"	"	

**GBTEX + Napthalene by 8260C**

Gasoline Range Hydrocarbons	277	5.00	mg/kg	25	B7L1309	12/13/2017	12/13/2017	
Benzene	0.062	0.050	"	"	"	"	"	
Toluene	ND	0.050	"	"	"	"	"	U
Ethylbenzene	0.414	0.050	"	"	"	"	"	
Xylenes, total	2.31	0.050	"	"	"	"	"	
Napthalene	0.815	0.175	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4	102 %	70-130			"	"	"	
Surrogate: Toluene-d8	103 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	145 %	70-130			"	"	"	S-04

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PH-06@10-12  
 12/13/2017 12:34:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
 Y712229-06 (Soil)

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

Diesel (C10-C28)	3370	50.0	mg/kg	1	B7L1310	12/13/2017	12/13/2017	
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Surrogate: <i>o</i> -Terphenyl	102 %	59-131			"	"	"	
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**GBTEX + Napthalene by 8260C**

Gasoline Range Hydrocarbons	1510	50.0	mg/kg	250	B7L1309	12/13/2017	12/14/2017	
Benzene	0.182	0.050	"	25	"	"	12/13/2017	
Toluene	ND	0.050	"	"	"	"	"	U
Ethylbenzene	2.31	0.050	"	"	"	"	"	
Xylenes, total	13.6	0.498	"	250	"	"	12/14/2017	
Napthalene	1.80	0.175	"	25	"	"	12/13/2017	

Surrogate: 1,2-Dichloroethane-d4	106 %	70-130			"	"	12/14/2017	
Surrogate: Toluene-d8	107 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	104 %	70-130			"	"	"	

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Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - Feit E #23-97HZ

PH-07@4-6  
 12/13/2017 2:54:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
 Y712229-07 (Soil)

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

Diesel (C10-C28)	115	50.0	mg/kg	1	B7L1310	12/13/2017	12/13/2017	
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Surrogate: o-Terphenyl	83.4 %	59-131			"	"	"	
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**GBTEX + Napthalene by 8260C**

Gasoline Range Hydrocarbons	72.7	5.00	mg/kg	25	B7L1309	12/13/2017	12/13/2017	
Benzene	ND	0.050	"	"	"	"	"	U
Toluene	ND	0.050	"	"	"	"	"	U
Ethylbenzene	0.380	0.050	"	"	"	"	"	
Xylenes, total	0.601	0.050	"	"	"	"	"	
Naphthalene	0.284	0.175	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	102 %	70-130			"	"	"	
Surrogate: Toluene-d8	85.3 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	114 %	70-130			"	"	"	

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 Denver CO 80211

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - Feit E #23-97HZ

PH-08@2-4  
 12/13/2017 3:18:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
 Y712229-08 (Soil)

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

Diesel (C10-C28)	ND	50.0	mg/kg	1	B7L1310	12/13/2017	12/13/2017	U
Surrogate: <i>o</i> -Terphenyl	78.4 %	59-131			"	"	"	

### GBTEX + Napthalene by 8260C

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B7L1309	12/13/2017	12/13/2017	U
Benzene	ND	0.050	"	"	"	"	"	U
Toluene	ND	0.050	"	"	"	"	"	U
Ethylbenzene	ND	0.050	"	"	"	"	"	U
Xylenes, total	ND	0.050	"	"	"	"	"	U
Napthalene	ND	0.175	"	"	"	"	"	U
Surrogate: 1,2-Dichloroethane-d4	99.8 %	70-130			"	"	"	
Surrogate: Toluene-d8	101 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	97.3 %	70-130			"	"	"	

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 Denver CO 80211

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - Feit E #23-97HZ

**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
<b>Batch B7L1309 - EPA 5030 (soil)</b>										
<b>Blank (B7L1309-BLK1)</b>										
					Prepared: 12/13/2017 Analyzed: 12/13/2017					
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
Naphthalene	ND	0.007	"							U
Surrogate: 1,2-Dichloroethane-d4	70		ug/kg	62.5		112	70-130			
Surrogate: Toluene-d8	62		"	62.5		98.4	70-130			
Surrogate: 4-Bromofluorobenzene	67		"	62.5		107	70-130			

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Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - Feit E #23-97HZ

**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 B7L1309 - EPA 5030 (soil)**

**LCS (B7L1309-BS1)**

Prepared: 12/13/2017 Analyzed: 12/13/2017

Benzene	0.107	0.002	mg/kg	0.100		107	70-130			
Toluene	0.103	0.002	"	0.100		103	70-130			
Ethylbenzene	0.117	0.002	"	0.100		117	70-130			
m,p-Xylene	0.221	0.004	"	0.200		111	70-130			
o-Xylene	0.107	0.002	"	0.100		107	70-130			
Naphthalene	0.099	0.007	"	0.100		98.9	70-130			
Surrogate: 1,2-Dichloroethane-d4	63		ug/kg	62.5		101	70-130			
Surrogate: Toluene-d8	62		"	62.5		98.7	70-130			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		98.9	70-130			

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Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - Feit E #23-97HZ

**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 B7L1309 - EPA 5030 (soil)

Matrix Spike (B7L1309-MS1)	Source: Y712228-05			Prepared: 12/13/2017 Analyzed: 12/13/2017						
Benzene	0.118	0.002	mg/kg	0.100	ND	118	70-130			
Toluene	0.112	0.002	"	0.100	ND	112	70-130			
Ethylbenzene	0.124	0.002	"	0.100	ND	124	70-130			
m,p-Xylene	0.236	0.004	"	0.200	ND	118	70-130			
o-Xylene	0.114	0.002	"	0.100	ND	114	70-130			
Naphthalene	0.102	0.007	"	0.100	0.004	98.3	70-130			
Surrogate: 1,2-Dichloroethane-d4	63		ug/kg	62.5		101	70-130			
Surrogate: Toluene-d8	61		"	62.5		97.6	70-130			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		98.7	70-130			

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Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - Feit E #23-97HZ

**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 B7L1309 - EPA 5030 (soil)

Matrix Spike Dup (B7L1309-MSD1)	Source: Y712228-05			Prepared: 12/13/2017 Analyzed: 12/13/2017						
Benzene	0.102	0.002	mg/kg	0.100	ND	102	70-130	14.9	20	
Toluene	0.097	0.002	"	0.100	ND	97.1	70-130	14.6	20	
Ethylbenzene	0.108	0.002	"	0.100	ND	108	70-130	14.2	20	
m,p-Xylene	0.205	0.004	"	0.200	ND	102	70-130	14.2	20	
o-Xylene	0.098	0.002	"	0.100	ND	98.4	70-130	14.4	20	
Naphthalene	0.093	0.007	"	0.100	0.004	89.7	70-130	8.75	20	
Surrogate: 1,2-Dichloroethane-d4	66		ug/kg	62.5		106	70-130			
Surrogate: Toluene-d8	61		"	62.5		97.5	70-130			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		99.2	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.*

Eagle Environmental Consulting, Inc.  
 4101 Inca Street  
 Denver CO 80211

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - Feit E #23-97HZ

**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 B7L1310 - EPA 3550B**

**Blank (B7L1310-BLK1)**

Prepared: 12/13/2017 Analyzed: 12/13/2017

Diesel (C10-C28)	ND	50.0	mg/kg							U
Surrogate: o-Terphenyl	49		"	50.0		98.6	59-131			

**LCS (B7L1310-BS1)**

Prepared: 12/13/2017 Analyzed: 12/13/2017

Diesel (C10-C28)	1050	50.0	mg/kg	1000		105	64-121			
Surrogate: o-Terphenyl	55		"	50.0		110	59-131			

**Matrix Spike (B7L1310-MS1)**

**Source: Y712228-05**

Prepared: 12/13/2017 Analyzed: 12/13/2017

Diesel (C10-C28)	1010	50.0	mg/kg	1000	ND	101	53-125			
Surrogate: o-Terphenyl	52		"	50.0		104	59-131			

**Matrix Spike Dup (B7L1310-MSD1)**

**Source: Y712228-05**

Prepared: 12/13/2017 Analyzed: 12/13/2017

Diesel (C10-C28)	981	50.0	mg/kg	1000	ND	98.1	53-125	2.79	20	
Surrogate: o-Terphenyl	52		"	50.0		105	59-131			

Origins Laboratory, Inc.



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Eagle Environmental Consulting, Inc.  
4101 Inca Street  
Denver CO 80211

Martin C Eckert III  
Project Number: [none]  
Project: Noble - Feit E #23-97HZ

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**Notes and Definitions**

U Sample is Non-Detect.

S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.

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