

FIGURES

Figure 1: Topographic Site Location Map

Figure 2: Aerial Site Location Map

Figure 3: Soil/Groundwater Sample Analytical Map



Topographic Site Location Map
 Loustalet #15-1
 Water Vault Removal
 40.397984 / -104.542287
 NW¼ SW¼ SEC.15 T5N R64W 6PM
 Weld County, Colorado
 API # 05-123-12923

Source: USGS 7.5 Minute Topographic
 Map, Kersey, CO Quadrangle 2013

Figure 1

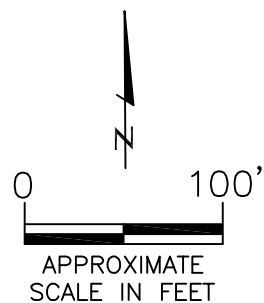


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LEGEND

- LOUSTALET #15-1 TANK BATTERY
- APPROXIMATE LOCATION OF WATER VAULT REMOVAL



AERIAL SITE LOCATION MAP

LOUSTALET #15-1
 WATER VAULT REMOVAL
 40.397984 / -104.542287
 NW1/4 SW1/4 SEC.15 T5N R64W 6PM
 WELD COUNTY, COLORADO
 API # 05-123-12923

DATE:
 11/24/15

FIG. NO.
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DRAWN BY:
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LEGEND

- — — — — APPROXIMATE EXCAVATION BOUNDARIES
- SS-02 APPROXIMATE LOCATION OF SOIL SAMPLES SUBMITTED FOR LABORATORY ANALYSIS
- GW-01 APPROXIMATE LOCATION OF GROUNDWATER SAMPLE SUBMITTED FOR LABORATORY ANALYSIS

PARAMETERS

SOIL SAMPLE LOCATION

DATE
DEPTH (FEET)
B = BENZENE (mg/kg)
T = TOLUENE (mg/kg)
E = ETHYLBENZENE (mg/kg)
X = TOTAL XYLENES (mg/kg)
N = NAPHTHALENE (mg/kg)
G = TPH-GRO (mg/kg)
D = TPH-DRO (mg/kg)

mg/kg = MILLIGRAMS PER KILOGRAM

TPH-GRO = TOTAL PETROLEUM HYDROCARBONS - GASOLINE RANGE ORGANICS

TPH-DRO = TOTAL PETROLEUM HYDROCARBONS - DIESEL RANGE ORGANICS

NOTE: VALUES PRESENTED WITH A LESS THAN SYMBOL (<) DID NOT CONTAIN CONCENTRATIONS AT OR ABOVE LABORATORY DETECTION LIMITS

SITE WAS UNDER DECOMMISSIONING DURING TIME OF ASSESSMENT. NO FACILITIES PRESENT DURING TIME OF SAMPLING.

GROUNDWATER SAMPLE LOCATION

DATE
B = BENZENE (µg/L)
T = TOLUENE (µg/L)
E = ETHYLBENZENE (µg/L)
X = TOTAL XYLENES (µg/L)

µg/L = MICROGRAMS PER LITER

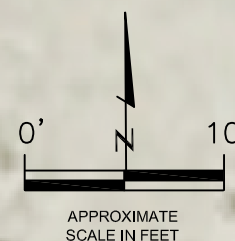
NOTE: VALUES PRESENTED WITH A LESS THAN SYMBOL (<) DID NOT CONTAIN CONCENTRATIONS AT OR ABOVE LABORATORY DETECTION LIMITS

SOIL/GROUNDWATER SAMPLE ANALYTICAL MAP

LOUSTALET #15-1
WATER VAULT REMOVAL
40.397984/-104.542287
NW1/4 SW1/4 SEC.15 T5N R64W 6PM
WELD COUNTY, COLORADO
API # 05-123-12923

GW-01
09/10/15
B = <4.0
T = <4.0
E = <4.0
X = 8.0

SS-04@2.5'
09/10/15
2.5'
B = <0.002
T = <0.002
E = <0.002
X = <0.002
N = <0.007
G = 1.79
D = <50.0



APPROXIMATE
SCALE IN FEET

DATE:

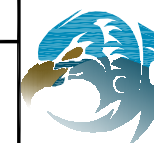
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FIG.
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amn



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TABLE

Table 1: Soil Analytical Results Summary

Table 2: Groundwater Analytical Results Summary

TABLE 1
SOIL ANALYTICAL RESULTS SUMMARY
LOUSTALET #15-1
WATER VAULT REMOVAL
40.397984 / -104.542287
NW¼ SW¼ SEC.15 T5N R64W 6PM
WELD COUNTY, COLORADO
API # 05-123-12923

Sample Location (Latitude/Longitude)	Date	Approximate Depth (feet)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	Naphthalene (mg/kg)	TPH-GRO (mg/kg)	TPH-DRO (mg/kg)	Specific Conductance (mmhos/cm)	pH (pH units)	SAR
COGCC Table 910-1 Regulatory Limits (mg/kg)			0.17	85	100	175	23	500		<4	6 to 9	<12[^]5
SS-04 @ 2.5' (40.398001 / -104.542299)	09/10/15	2.5	<0.002	<0.002	<0.002	<0.002	<0.007	1.79	<50.0	0.274	7.97	0.2
COGCC = Colorado Oil and Gas Conservation Commission mg/kg = milligrams per kilogram mmhos/cm = millimhos per centimeter NA = Not Analyzed TPH-GRO = Total Petroleum Hydrocarbons - Gasoline Range Organics TPH-DRO = Total Petroleum Hydrocarbons - Diesel Range Organics SAR = Sodium Adsorption Ratio Note: Values presented with a less than symbol (<) did not contain concentrations at or above the laboratory reporting limit.												



TABLE 2
GROUNDWATER ANALYTICAL RESULTS SUMMARY
LOUSTALET #15-1
WATER VAULT REMOVAL
40.397984 / -104.542287
NW¼ SW¼ SEC.15 T5N R64W 6PM
WELD COUNTY, COLORADO
API # 05-123-12923

Sample Location (Latitude/Longitude)	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)
COGCC Table 910-1 Regulatory Limits (µg/L)		5	560	700	1400
GW-01 (40.397993 / -104.542283)	09/10/15	<4.0	<4.0	<4.0	8.0
COGCC = Colorado Oil and Gas Conservation Commission µg/L - micrograms per liter Note: Values presented with a less than symbol (<) indicate concentrations were not observed at or above the laboratory reporting limit.					



ATTACHMENT A

Laboratory Analytical Reports



September 14, 2015

Eagle Environmental Consulting, Inc.

Martin C Eckert III

4101 Inca Street

Denver

CO 80211

Project Name - Noble - Loustalet #15-1

Project Number - [none]

Attached are your analytical results for Noble - Loustalet #15-1 received by Origins Laboratory, Inc. September 10, 2015. This project is associated with Origins project number X509126-01.

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 - Loustalet #15-1

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS-04 @ 2.5'	X509126-01	Soil	September 10, 2015 12:20	09/10/2015 15:28

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 - Loustalet #15-1

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: X509126

Client: Eagle

Client Project ID: Loustalet #15-1

Checklist Completed by: Jeff Smith

Shipped Via: H/D
(UPS, FedEx, Hand Delivered, Pick-up, etc.)

Date/time completed: 9/10/15

Airbill #: NA

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

Cooler Number/Temperature: 1 / 6.0 °C 1 / _____ °C 1 / _____ °C 1 / _____ °C

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 ⁽¹⁾ ?				
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"/>			PH
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: [Signature] (Project Manager)

Date/Time Reviewed: 9/10/15

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.

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

Martin C Eckert III
Project Number: [none]
Project: Noble - Loustalet #15-1

SS-04 @ 2.5'

9/10/2015 12:20:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. X509126-01 (Soil)

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

Diesel (C10-C28)	ND	50.0	mg/kg	1	5110012	09/10/2015	09/11/2015
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Surrogate: o-Terphenyl	67.5 %	59-131			"	"	"
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GBTEX + Napthalene by 8260C

Gasoline Range Hydrocarbons	1.79	0.200	mg/kg	1	5110013	09/10/2015	09/10/2015
Benzene	ND	0.002	"	"	"	"	"
Toluene	ND	0.002	"	"	"	"	"
Ethylbenzene	ND	0.002	"	"	"	"	"
Xylenes, total	ND	0.002	"	"	"	"	"
Napthalene	ND	0.007	"	"	"	"	"

Surrogate: 1,2-Dichloroethane-d4	110 %	70-130			"	"	"
Surrogate: Toluene-d8	97.8 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	98.5 %	70-130			"	"	"

Metals by 6010C

Calcium, Total Recoverable	5530	4.3	mg/Kg	1	244621	09/11/2015	09/11/2015
Magnesium, Total Recoverable	2440	4.3	"	"	"	"	"
Sodium, Total Recoverable	528	22	"	"	"	"	"

pH in Soil by EPA 9045D

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 - Loustalet #15-1

SS-04 @ 2.5'**9/10/2015 12:20:00PM**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Notes
		Limit							

Origins Laboratory, Inc.**X509126-01 (Soil)****pH in Soil by EPA 9045D**

pH	7.97		pH Units	1	5110015	09/10/2015	09/10/2015
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Sodium Absorption Ratio

Sodium Absorption Ratio	0.2	0.01	NONE	1	244621	09/11/2015	09/11/2015
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.274		mmhos/cm	1	5110014	09/10/2015	09/10/2015
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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 - Loustalet #15-1

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 5110013 - EPA 5030 (soil)

Blank (5110013-BLK1)

Prepared: 09/10/2015 Analyzed: 09/10/2015

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	"							
Naphthalene	ND	0.007	"							
Surrogate: 1,2-Dichloroethane-d4	64		ug/kg	62.5		102	70-130			
Surrogate: Toluene-d8	60		"	62.5		95.3	70-130			
Surrogate: 4-Bromofluorobenzene	61		"	62.5		97.8	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 - Loustalet #15-1

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 5I10013 - EPA 5030 (soil)										
LCS (5I10013-BS1)					Prepared: 09/10/2015 Analyzed: 09/10/2015					
Benzene	0.098	0.002	mg/kg	0.100		98.1	70-130			
Toluene	0.100	0.002	"	0.100		99.8	70-130			
Ethylbenzene	0.107	0.002	"	0.100		107	70-130			
m,p-Xylene	0.211	0.004	"	0.200		106	70-130			
o-Xylene	0.106	0.002	"	0.100		106	70-130			
Naphthalene	0.092	0.007	"	0.100		92.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	62		ug/kg	62.5		99.4	70-130			
Surrogate: Toluene-d8	59		"	62.5		95.1	70-130			
Surrogate: 4-Bromofluorobenzene	61		"	62.5		97.2	70-130			

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

Martin C Eckert III
Project Number: [none]
Project: Noble - Loustalet #15-1

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 5I10013 - EPA 5030 (soil)										
Matrix Spike (5I10013-MS1)		Source: X509124-01			Prepared: 09/10/2015 Analyzed: 09/10/2015					
Benzene	0.083	0.002	mg/kg	0.100	ND	83.1	70-130			
Toluene	0.077	0.002	"	0.100	ND	76.5	70-130			
Ethylbenzene	0.079	0.002	"	0.100	ND	78.8	70-130			
m,p-Xylene	0.156	0.004	"	0.200	ND	78.1	70-130			
o-Xylene	0.078	0.002	"	0.100	ND	78.0	70-130			
Naphthalene	0.078	0.007	"	0.100	ND	77.5	70-130			
Surrogate: 1,2-Dichloroethane-d4	68		ug/kg	62.5		109	70-130			
Surrogate: Toluene-d8	60		"	62.5		95.8	70-130			
Surrogate: 4-Bromofluorobenzene	64		"	62.5		102	70-130			

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4101 Inca Street
Denver CO 80211

Martin C Eckert III
Project Number: [none]
Project: Noble - Loustalet #15-1

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 5I10013 - EPA 5030 (soil)										
Matrix Spike Dup (5I10013-MSD1)	Source: X509124-01				Prepared: 09/10/2015 Analyzed: 09/10/2015					
Benzene	0.098	0.002	mg/kg	0.100	ND	97.7	70-130	16.1	20	
Toluene	0.091	0.002	"	0.100	ND	91.4	70-130	17.7	20	
Ethylbenzene	0.093	0.002	"	0.100	ND	93.1	70-130	16.6	20	
m,p-Xylene	0.186	0.004	"	0.200	ND	93.1	70-130	17.5	20	
o-Xylene	0.094	0.002	"	0.100	ND	93.9	70-130	18.5	20	
Naphthalene	0.087	0.007	"	0.100	ND	86.7	70-130	11.2	20	
Surrogate: 1,2-Dichloroethane-d4	68		ug/kg	62.5		108	70-130			
Surrogate: Toluene-d8	60		"	62.5		96.1	70-130			
Surrogate: 4-Bromofluorobenzene	64		"	62.5		102	70-130			

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

Martin C Eckert III
Project Number: [none]
Project: Noble - Loustalet #15-1

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 5I10012 - EPA 3580

Blank (5I10012-BLK1)

Prepared: 09/10/2015 Analyzed: 09/10/2015

Diesel (C10-C28) ND 50.0 mg/kg

Surrogate: o-Terphenyl 52 " 50.0 104 59-131

LCS (5I10012-BS1)

Prepared: 09/10/2015 Analyzed: 09/10/2015

Diesel (C10-C28) 911 50.0 mg/kg 1000 91.1 64-121

Surrogate: o-Terphenyl 50 " 50.0 99.5 59-131

Matrix Spike (5I10012-MS1)

Source: X509124-01

Prepared: 09/10/2015 Analyzed: 09/10/2015

Diesel (C10-C28) 795 50.0 mg/kg 1000 ND 79.5 53-125

Surrogate: o-Terphenyl 45 " 50.0 89.3 59-131

Matrix Spike Dup (5I10012-MSD1)

Source: X509124-01

Prepared: 09/10/2015 Analyzed: 09/10/2015

Diesel (C10-C28) 1040 50.0 mg/kg 1000 ND 104 53-125 26.9 20 QR-02

Surrogate: o-Terphenyl 54 " 50.0 108 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 - Loustalet #15-1

Classical Chemistry Parameters - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5I10014 - NO PREP										
Blank (5I10014-BLK1)					Prepared: 09/10/2015 Analyzed: 09/10/2015					
Specific Conductance (EC)	0.00470		mmhos/cm							
Duplicate (5I10014-DUP1)					Source: X509124-01 Prepared: 09/10/2015 Analyzed: 09/10/2015					
Specific Conductance (EC)	0.102		mmhos/cm		0.109			5.97	25	
Batch 5I10015 - NO PREP										
Duplicate (5I10015-DUP1)					Source: X509126-01 Prepared: 09/10/2015 Analyzed: 09/10/2015					
pH	8.01		pH Units		7.97			0.501	25	

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 - Loustalet #15-1

Metals by 6010C - Quality Control ALG-J

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 244621 - EPA 3050B										
Blank (2446211-BLK)		Source: 2446211-BLK			Prepared: 09/11/2015 Analyzed: 09/11/2015					
Magnesium, Total Recoverable	ND	5	mg/Kg				-			U
Sodium, Total Recoverable	ND	25	"				-			U
Calcium, Total Recoverable	ND	5	"				-			U
LCS (2446211-LCS)		Source: 2446211-LCS			Prepared: 09/11/2015 Analyzed: 09/11/2015					
Sodium, Total Recoverable	1310	25	mg/Kg	1250		105	80-120			
Magnesium, Total Recoverable	253	5	"	250		101	80-120			
Calcium, Total Recoverable	258	5	"	250		103	80-120			
MS (J1507248-001-MS)		Source: J1507248-001-MS			Prepared: 09/11/2015 Analyzed: 09/11/2015					
Sodium, Total Recoverable	1220	22	mg/Kg	1120		106	75-125		20	
Magnesium, Total Recoverable	1520	4.5	"	223		179	75-125		20	
Calcium, Total Recoverable	1750	4.5	"	223		133	75-125		20	
MSD (J1507248-001-SD)		Source: J1507248-001-SD			Prepared: 09/11/2015 Analyzed: 09/11/2015					
Calcium, Total Recoverable	1760	3.8	mg/Kg	191		164	75-125	<1	20	
Magnesium, Total Recoverable	1440	3.8	"	191		169	75-125	5	20	
Sodium, Total Recoverable	1050	19	"	954		106	75-125	15	20	

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 - Loustalet #15-1

Notes and Definitions

U The compound was analyzed for, but was not detected (Non-detect) at or above the MRL/MDL.

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.

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 For Noelle Doyle Mathis, President



September 11, 2015

Eagle Environmental Consulting, Inc.

Martin C Eckert III

4101 Inca Street

Denver

CO 80211

Project Name - Noble - Loustalet #15-1

Project Number - [none]

Attached are your analytical results for Noble - Loustalet #15-1 received by Origins Laboratory, Inc. September 10, 2015. This project is associated with Origins project number X509130-01.

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 - Loustalet #15-1

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
GW-01	X509130-01	Water	September 10, 2015 12:10	09/10/2015 15:27

Origins Laboratory, Inc.



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Martin C Eckert III
Project Number: [none]
Project: Noble - Loustalet #15-1

ORIGINS

LABORATORY, INC

X509130

www.originslaboratory.com

Client: EROLE ENV CONSULTING, INC.

Address: 4101 Ina Street

Durham, CO, 80211

Telephone Number: (303) 433-0479

Email Address: mce3@erole-consult.com

Project Manager: Martin Eickert III

Project Name: Leustadt #15-1

Project Number: -

Samples Collected By: AM/JS

page 1 of 1

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis	Sample Instructions
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	Air Summa Canister #		
GW-01	9/10/15	1210	3	X					X		BTEX- 2500	1
												2
												3
												4
												5
												6
												7
												8
												9
												10

Relinquished By: AM/JS Date: 9/10/15 Time: 1527

Relinquished By: [Signature] Date: 9/10/15 Time: 1527

Relinquished By: [Signature] Date: 9/10/15 Time: 1527

Received By: [Signature] Date: 9/10/15 Time: 1527

Turnaround Time: ☒ Same Day ☐ 24 Hr ☐ 48 Hr ☐ 72 Hr ☐ Standard

Temp Received: 60

Date Results Needed: 9/10/15

Temp: 60

Relinquished By: AM/JS Date: 9/10/15 Time: 1527

Received By: [Signature] Date: 9/10/15 Time: 1527

Turnaround Time: ☒ Same Day ☐ 24 Hr ☐ 48 Hr ☐ 72 Hr ☐ Standard

Temp Received: 60

Date Results Needed: 9/10/15

Temp: 60

Relinquished By: AM/JS Date: 9/10/15 Time: 1527

Received By: [Signature] Date: 9/10/15 Time: 1527

Turnaround Time: ☒ Same Day ☐ 24 Hr ☐ 48 Hr ☐ 72 Hr ☐ Standard

Temp Received: 60

Date Results Needed: 9/10/15

Temp: 60

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.

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

Martin C Eckert III
Project Number: [none]
Project: Noble - Loustalet #15-1

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: XS09130

Client: Eagle

Client Project ID: Noble - Loustalet

Checklist Completed by: Jen Pellegrini

Shipped Via: 411
(UPS, FedEx, Hand Delivered, Pick-up, etc.)

Date/time completed: 9/10/15

Airbill #: N/A

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

Cooler Number/Temperature: 1 / 6.0 °C 1 / 1 °C 1 / 1 °C 1 / 1 °C

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 ⁽¹⁾ ?	<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 ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input 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"/>	<input type="checkbox"/>	<input type="checkbox"/>	<u>HCL</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.

Jen Pellegrini
Reviewed by (Project Manager)

9/10/15
Date/Time Reviewed

Origins Laboratory, Inc.

Jen Pellegrini

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Eagle Environmental Consulting, Inc.

4101 Inca Street

Denver CO 80211

Martin C Eckert III

Project Number: [none]

Project: Noble - Loustalet #15-1

GW-01

9/10/2015 12:10:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.

X509130-01 (Water)

BTEX by EPA 8260C

Benzene	ND	4.0	ug/L	4	5110009	09/10/2015	09/10/2015
Toluene	ND	4.0	"	"	"	"	"
Ethylbenzene	ND	4.0	"	"	"	"	"
Xylenes, total	8.0	4.0	"	"	"	"	"

Surrogate: 1,2-Dichloroethane-d4	103 %	84-121			"	"	"
Surrogate: Toluene-d8	102 %	85-115			"	"	"
Surrogate: 4-Bromofluorobenzene	101 %	84-114			"	"	"

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 - Loustalet #15-1

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 5110009 - EPA 5030B (Water)

Blank (5110009-BLK1)

Prepared: 09/10/2015 Analyzed: 09/10/2015

Benzene	ND	1.0	ug/L							
Toluene	ND	1.0	"							
Ethylbenzene	ND	1.0	"							
Xylenes, total	ND	1.0	"							
Surrogate: 1,2-Dichloroethane-d4	63		"	62.5	100		84-121			
Surrogate: Toluene-d8	63		"	62.5	101		85-115			
Surrogate: 4-Bromofluorobenzene	63		"	62.5	101		84-114			

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 - Loustalet #15-1

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 5110009 - EPA 5030B (Water)

LCS (5110009-BS1)

Prepared: 09/10/2015 Analyzed: 09/10/2015

Benzene	43.6	1.0	ug/L	50.0		87.1	75-126			
Toluene	44.8	1.0	"	50.0		89.6	78.7-126			
Ethylbenzene	46.3	1.0	"	50.0		92.5	80-130			
m,p-Xylene	92.1	2.0	"	100		92.1	77.2-133			
o-Xylene	45.4	1.0	"	50.0		90.9	77.9-126			
Surrogate: 1,2-Dichloroethane-d4	63		"	62.5		101	84-121			
Surrogate: Toluene-d8	64		"	62.5		102	85-115			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		100	84-114			

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 - Loustalet #15-1

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 5I10009 - EPA 5030B (Water)

Matrix Spike (5I10009-MS1)		Source: X509101-02			Prepared: 09/10/2015 Analyzed: 09/10/2015					
Benzene	41.4	1.0	ug/L	50.0	ND	82.8	74-130			
Toluene	41.2	1.0	"	50.0	ND	82.4	73-131			
Ethylbenzene	41.0	1.0	"	50.0	ND	81.9	76-132			
m,p-Xylene	82.0	2.0	"	100	ND	82.0	69-139			
o-Xylene	41.0	1.0	"	50.0	ND	82.0	74-131			
Surrogate: 1,2-Dichloroethane-d4	59		"	62.5		94.0	84-121			
Surrogate: Toluene-d8	63		"	62.5		102	85-115			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		100	84-114			

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 - Loustalet #15-1

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 5I10009 - EPA 5030B (Water)

Matrix Spike Dup (5I10009-MSD1)		Source: X509101-02			Prepared: 09/10/2015 Analyzed: 09/10/2015					
Benzene	48.3	1.0	ug/L	50.0	ND	96.7	74-130	15.4	20	
Toluene	47.7	1.0	"	50.0	ND	95.4	73-131	14.6	20	
Ethylbenzene	46.8	1.0	"	50.0	ND	93.6	76-132	13.2	20	
m,p-Xylene	93.1	2.0	"	100	ND	93.1	69-139	12.6	20	
o-Xylene	47.2	1.0	"	50.0	ND	94.3	74-131	14.0	20	
Surrogate: 1,2-Dichloroethane-d4	60		"	62.5		95.6	84-121			
Surrogate: Toluene-d8	63		"	62.5		101	85-115			
Surrogate: 4-Bromofluorobenzene	64		"	62.5		102	84-114			

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 - Loustalet #15-1

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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