

State of Colorado
Oil and Gas Conservation Commission



1120 Lincoln Street, Suite 801, Denver, Colorado 80203 (303)894-2100 Fax:(303)894-2109

FOR OGCC USE ONLY	
OGCC Employee:	
Spill Inspection	Complaint NOAV
Tracking No:	

SITE INVESTIGATION AND REMEDIATION WORKPLAN

This form shall be submitted to the Director for approval prior to the initiation of site investigation and remediation activities. Form 27 is intended to be used whenever possible. Additional documentation will be required when large volumes of soil and groundwater have been impacted or involve large facilities with multiple source areas. See Rule 910. Attach as many pages as needed to fully describe the proposed work.

CAUSE OF CONDITION BEING INVESTIGATED AND REMEDIATED

Spill or Release Plug & Abandon Central Facility Closure Site/Facility Closure Other (describe): _____

OGCC Operator Number: _____	Contact Name and Telephone: _____
Name of Operator: _____	_____
Address: _____	No: _____
City: _____ State: _____ Zip: _____	Fax: _____

API Number: _____	County: _____
Facility Name: _____	Facility Number: _____
Well Name: _____	Well Number: _____
Location: (QtrQtr, Sec, Twp, Rng, Meridian): _____	Latitude: _____ Longitude: _____

TECHNICAL CONDITIONS

Type of Waste Causing Impact (crude oil, condensate, produced water, etc): _____

Site Conditions: Is location within a sensitive area (according to Rule 901e)? Y N If yes, attach evaluation.

Adjacent land use (cultivated, irrigated, dry land farming, industrial, residential, etc.): _____

Soil type, if not previously identified on Form 2A or Federal Surface Use Plan: _____

Potential receptors (water wells within 1/4 mi, surface waters, etc.): _____

Description of Impact (if previously provided, refer to that form or document):

Impacted Media (check):	Extent of Impact:	How Determined:
Soils	_____	_____
Vegetation	_____	_____
Groundwater	_____	_____
Surface Water	_____	_____

REMEDIALTION WORKPLAN

Describe initial action taken (if previously provided, refer to that form or document):

Describe how source is to be removed:

Describe how remediation of existing impacts is to be accomplished, including removal and disposal at an injection well or licensed facility, land treatment on site, removal of impacted groundwater, insitu bioremediation, burning of oily vegetation, etc.:



Tracking Number: _____
Name of Operator: _____
OGCC Operator No: _____
Received Date: _____
Well Name & No: _____
Facility Name & No: _____

REMEDIATION WORKPLAN (Cont.)

If groundwater has been impacted, describe proposed monitoring plan (# of wells or sample points, sampling schedule, analytical methods, etc.):

Describe reclamation plan. Discuss existing and new grade recontouring; method and testing of compaction alleviation; and reseeding program, including location of new seed, seed mix and noxious weed prevention. Attach diagram or drawing. Use additional sheet for description if required.

Attach samples and analytical results taken to verify remediation of impacts. Show locations of samples on an onsite schematic or drawing.

Is further site investigation required? Y N If yes, describe:

Final disposition of E&P waste (landtreated and disposed onsite, name of licensed disposal facility, recycling, reuse, etc.):

IMPLEMENTATION SCHEDULE

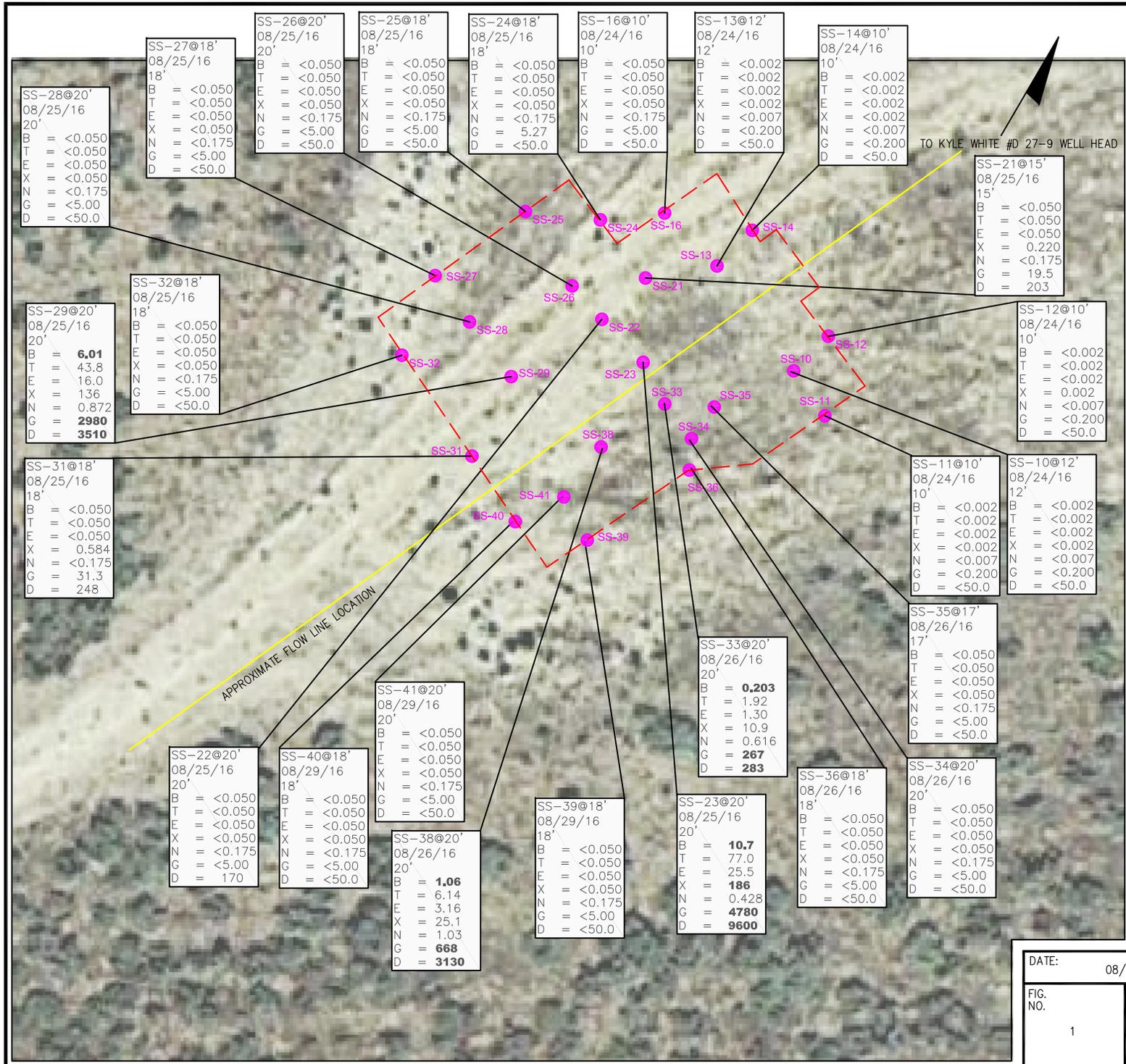
Date Site Investigation Began: _____ Date Site Investigation Completed: _____ Date Remediation Plan Submitted: _____
Remediation Start Date: _____ Anticipated Completion Date: _____ Actual Completion Date: _____

I hereby certify that the statements made in this form are, to the best of my knowledge, true, correct, and complete.

Print Name: _____ Signed: _____

Title: _____ Date: _____

OGCC Approved: _____ Title: _____ Date: _____



LEGEND

--- APPROXIMATE EXCAVATION BOUNDARIES

● SS-02 APPROXIMATE LOCATION OF SOIL SAMPLES SUBMITTED FOR LABORATORY ANALYSIS

PARAMETERS

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

VALUES PRESENTED IN **BOLD** TYPEFACE CONTAIN CONCENTRATIONS EXCEEDING COGCC TABLE 910-1 REGULATORY LIMITS.

COGCC - COLORADO OIL AND GAS CONSERVATION COMMISSION

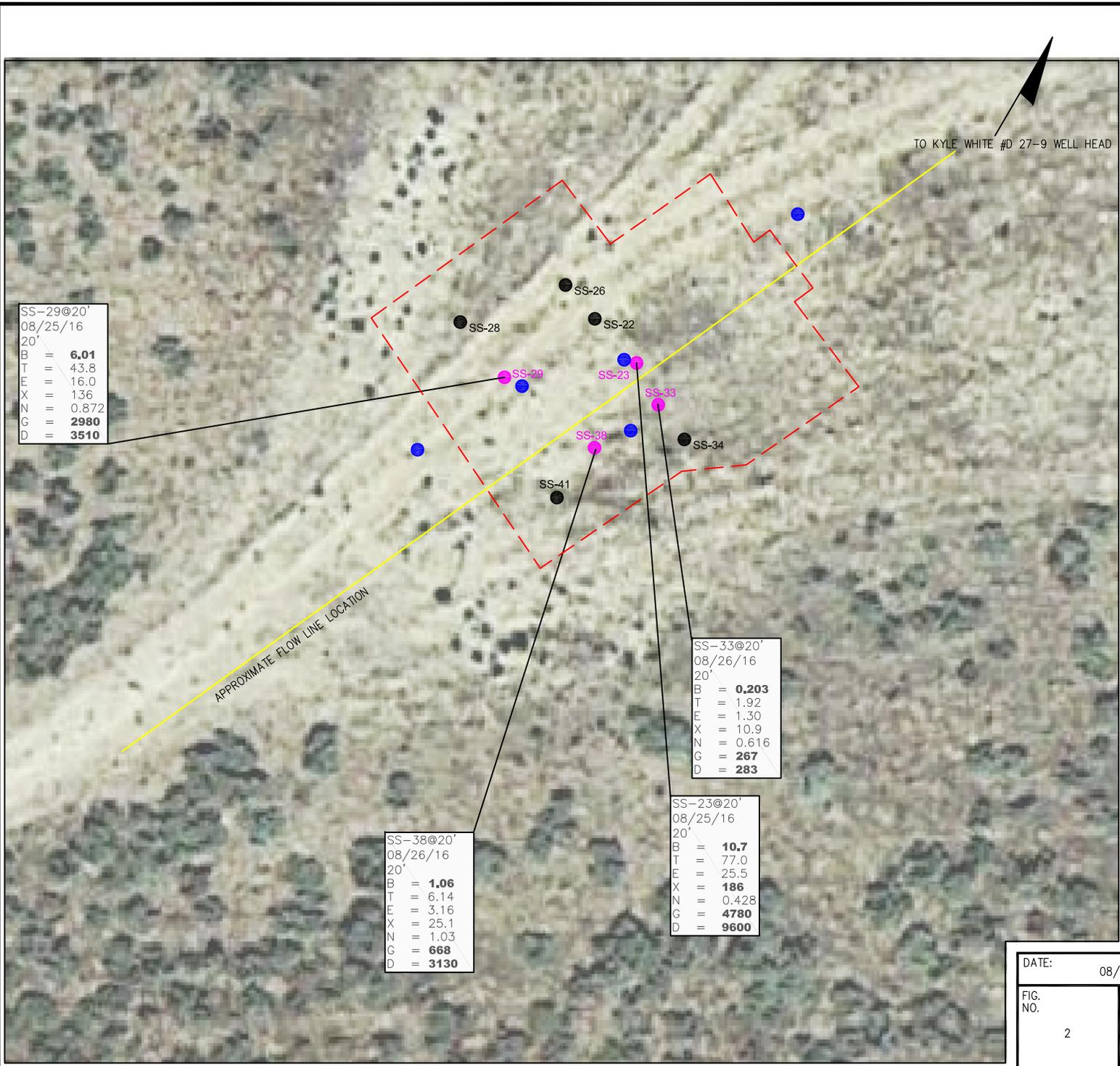
0' N 20'

APPROXIMATE SCALE IN FEET

SOIL ANALYTICAL MAP
 KYLE WHITE #D 27-9
 FLOW LINE RELEASE
 40.194698 / -104.530075
 NE1/4 SE1/4 SEC.27 T3N R64W 6PM
 WELD COUNTY, COLORADO
 API # 05-123-16888

DATE:	08/31/16
FIG. NO.	1
DRAWN BY:	or

EAGLE ENVIRONMENTAL CONSULTING, INC.
 4101 INCA STREET, DENVER, CO 80211
 Ph: 303-433-0479 • F: 303-325-5449



SS-29@20'
08/25/16
20'
B = **6.01**
T = 43.8
E = 16.0
X = 136
N = 0.872
G = **2980**
D = **3510**

SS-33@20'
08/26/16
20'
B = **0.203**
T = 1.92
E = 1.30
X = 10.9
N = 0.616
G = **267**
D = **283**

SS-23@20'
08/25/16
20'
B = **10.7**
T = 77.0
E = 25.5
X = **186**
N = 0.428
G = **4780**
D = **9600**

SS-38@20'
08/26/16
20'
B = **1.06**
T = 6.14
E = 3.16
X = 25.1
N = 1.03
G = **668**
D = **3130**

LEGEND

- APPROXIMATE EXCAVATION BOUNDARIES
- SS-01 SOIL SAMPLES COLLECTED AT 20 FEET BGS THAT DID NOT EXCEED COGCC TABLE 910-1 STANDARDS
- SS-02 APPROXIMATE LOCATION OF SOIL SAMPLES SUBMITTED FOR LABORATORY ANALYSIS
- PROPOSED SOIL BORING LOCATIONS

PARAMETERS

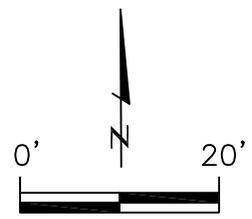
SAMPLE LOCATION
DATE
DEPTH (FEET)
B = BENZENE (mg/kg)
T = TOLUENE (mg/kg)
E = ETHYLBENZENE (mg/kg)
X = TOTAL XYLENES (mg/kg)
N = NAPHTHALENE (mg/kg)
G = TPH-GRO (mg/kg)
D = TPH-DRO (mg/kg)

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

VALUES PRESENTED IN **BOLD** TYPEFACE CONTAIN CONCENTRATIONS EXCEEDING COGCC TABLE 910-1 REGULATORY LIMITS.

COGCC - COLORADO OIL AND GAS CONSERVATION COMMISSION
BGS - BELOW GROUND SURFACE



APPROXIMATE SCALE IN FEET

PROPOSED SOIL BORING LOCATION MAP
KYLE WHITE #D 27-9
FLOW LINE RELEASE
40.194698 / -104.530075
NE1/4 SE1/4 SEC.27 T3N R64W 6PM
WELD COUNTY, COLORADO
API # 05-123-16888

DATE:	08/31/16
FIG. NO.	2
DRAWN BY:	or

EAGLE ENVIRONMENTAL CONSULTING, INC.
4101 INCA STREET, DENVER, CO 80211
Ph: 303-433-0479 • F: 303-325-5449



April 29, 2016

Eagle Environmental Consulting, Inc.

Martin C Eckert III

4101 Inca Street

Denver

CO 80211

Project Name - Noble - Kyle White #D 27-9

Project Number - [none]

Attached are your analytical results for Noble - Kyle White #D 27-9 received by Origins Laboratory, Inc. April 28, 2016. This project is associated with Origins project number X604311-01.

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 - Kyle White #D 27-9

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS-01 @ 5.5'	X604311-01	Soil	April 28, 2016 10:25	04/28/2016 15:10
SS-02 @ 5.5'	X604311-02	Soil	April 28, 2016 10:30	04/28/2016 15:10
SS-03 @ 5.5'	X604311-03	Soil	April 28, 2016 10:35	04/28/2016 15:10
SS-04 @ 5.5'	X604311-04	Soil	April 28, 2016 10:40	04/28/2016 15:10
SS-05 @ 5.5'	X604311-05	Soil	April 28, 2016 10:45	04/28/2016 15:10
SS-06 @ 5.5'	X604311-06	Soil	April 28, 2016 10:50	04/28/2016 15:10
SS-07 @ 7'	X604311-07	Soil	April 28, 2016 10:55	04/28/2016 15:10
SS-08 @ 7'	X604311-08	Soil	April 28, 2016 11:00	04/28/2016 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.

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

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Kyle White #D 27-9

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

Sample Receipt Checklist

Origins Work Order: X604311 Client: Eagle
 Client Project ID: Kyle White #27-9

Checklist Completed by: Jefe Smith Shipped Via: HTD
 Date/time completed: 4/28/10 (UPS, FedEx, Hand Delivered, Pick-up, etc.)
 Airbill #: NA

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

Cooler Number/Temperature: 1 / _____ °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"/>		
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 HNO3, HCL, H2SO4) / (pH >10 for samples preserved with NaAsO2+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: 4/28/10

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.

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

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Kyle White #D 27-9

SS-01 @ 5.5'
4/28/2016 10:25:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X604311-01 (Soil)

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

Diesel (C10-C28)	ND	50.0	mg/kg	1	B6D2801	04/28/2016	04/28/2016	U
Surrogate: <i>o</i> -Terphenyl	82.7 %	59-131			"	"	"	

GBTEX + Napthalene by 8260C

Gasoline Range Hydrocarbons	8.91	5.00	mg/kg	25	B6D2803	"	04/28/2016	
Benzene	1.64	0.050	"	"	"	"	"	
Toluene	0.405	0.050	"	"	"	"	"	
Ethylbenzene	0.067	0.050	"	"	"	"	"	
Xylenes, total	0.249	0.050	"	"	"	"	"	
Napthalene	ND	0.175	"	"	"	"	"	U
Surrogate: 1,2-Dichloroethane-d4	95.6 %	70-130			"	"	"	
Surrogate: Toluene-d8	102 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	92.2 %	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 - Kyle White #D 27-9

SS-02 @ 5.5'
4/28/2016 10:30:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X604311-02 (Soil)

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

Diesel (C10-C28)	ND	50.0	mg/kg	1	B6D2801	04/28/2016	04/28/2016	U
Surrogate: <i>o</i> -Terphenyl	72.9 %	59-131			"	"	"	

GBTEX + Napthalene by 8260C

Gasoline Range Hydrocarbons	56.1	5.00	mg/kg	25	B6D2803	"	04/28/2016	
Benzene	2.09	0.050	"	"	"	"	"	
Toluene	3.77	0.050	"	"	"	"	"	
Ethylbenzene	1.48	0.050	"	"	"	"	"	
Xylenes, total	6.39	0.050	"	"	"	"	"	
Napthalene	ND	0.175	"	"	"	"	"	U
Surrogate: 1,2-Dichloroethane-d4	92.9 %	70-130			"	"	"	
Surrogate: Toluene-d8	104 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	94.0 %	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.

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

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Kyle White #D 27-9

SS-03 @ 5.5'
4/28/2016 10:35:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X604311-03 (Soil)

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

Diesel (C10-C28)	102	50.0	mg/kg	1	B6D2801	04/28/2016	04/28/2016	
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Surrogate: <i>o</i> -Terphenyl	78.8 %	59-131			"	"	"	
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GBTEX + Napthalene by 8260C

Gasoline Range Hydrocarbons	37.5	5.00	mg/kg	25	B6D2803	"	04/29/2016	
Benzene	ND	0.050	"	"	"	"	"	U
Toluene	0.160	0.050	"	"	"	"	"	
Ethylbenzene	0.060	0.050	"	"	"	"	"	
Xylenes, total	0.632	0.050	"	"	"	"	"	
Napthalene	ND	0.175	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	93.9 %	70-130			"	"	04/28/2016	
Surrogate: Toluene-d8	102 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	92.0 %	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.

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

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Kyle White #D 27-9

SS-04 @ 5.5'
4/28/2016 10:40:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X604311-04 (Soil)

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

Diesel (C10-C28)	120	50.0	mg/kg	1	B6D2801	04/28/2016	04/28/2016	
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Surrogate: o-Terphenyl	83.4 %	59-131			"	"	"	
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GBTEX + Napthalene by 8260C

Gasoline Range Hydrocarbons	28.2	5.00	mg/kg	25	B6D2803	"	04/28/2016	
Benzene	ND	0.050	"	"	"	"	"	U
Toluene	0.056	0.050	"	"	"	"	"	
Ethylbenzene	ND	0.050	"	"	"	"	"	U
Xylenes, total	0.408	0.050	"	"	"	"	"	
Naphthalene	ND	0.175	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	94.3 %	70-130			"	"	"	
Surrogate: Toluene-d8	103 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	94.6 %	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 - Kyle White #D 27-9

SS-05 @ 5.5'
4/28/2016 10:45:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X604311-05 (Soil)

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

Diesel (C10-C28)	581	50.0	mg/kg	1	B6D2801	04/28/2016	04/28/2016	
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Surrogate: o-Terphenyl	97.7 %	59-131			"	"	"	
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GBTEX + Napthalene by 8260C

Gasoline Range Hydrocarbons	154	5.00	mg/kg	25	B6D2803	"	04/29/2016	
Benzene	ND	0.050	"	"	"	"	"	U
Toluene	0.245	0.050	"	"	"	"	"	
Ethylbenzene	0.300	0.050	"	"	"	"	"	
Xylenes, total	3.34	0.050	"	"	"	"	"	
Napthalene	ND	0.007	"	1	"	"	04/28/2016	U

Surrogate: 1,2-Dichloroethane-d4	96.5 %	70-130			"	"	"	
Surrogate: Toluene-d8	103 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	91.6 %	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 - Kyle White #D 27-9

SS-06 @ 5.5'
4/28/2016 10:50:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X604311-06 (Soil)

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

Diesel (C10-C28)	ND	50.0	mg/kg	1	B6D2801	04/28/2016	04/28/2016	U
Surrogate: <i>o</i> -Terphenyl	85.3 %	59-131			"	"	"	

GBTEX + Napthalene by 8260C

Gasoline Range Hydrocarbons	20.0	5.00	mg/kg	25	B6D2803	"	04/29/2016	
Benzene	0.120	0.050	"	"	"	"	"	
Toluene	0.562	0.050	"	"	"	"	"	
Ethylbenzene	0.158	0.050	"	"	"	"	"	
Xylenes, total	1.58	0.050	"	"	"	"	"	
Napthalene	ND	0.175	"	"	"	"	"	U
Surrogate: 1,2-Dichloroethane-d4	96.1 %	70-130			"	"	04/28/2016	
Surrogate: Toluene-d8	101 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	90.7 %	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 - Kyle White #D 27-9

SS-07 @ 7'
4/28/2016 10:55:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X604311-07 (Soil)

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

Diesel (C10-C28)	6690	50.0	mg/kg	1	B6D2801	04/28/2016	04/28/2016	
Surrogate: o-Terphenyl	92.3 %	59-131			"	"	"	

GBTEX + Napthalene by 8260C

Gasoline Range Hydrocarbons	2610	50.0	mg/kg	250	B6D2803	"	04/28/2016	
Benzene	8.84	0.498	"	"	"	"	"	
Toluene	47.7	0.498	"	"	"	"	"	
Ethylbenzene	12.0	0.498	"	"	"	"	"	
Xylenes, total	104	0.498	"	"	"	"	"	
Naphthalene	4.04	1.75	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	95.8 %	70-130			"	"	"	
Surrogate: Toluene-d8	115 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	98.7 %	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 - Kyle White #D 27-9

SS-08 @ 7'
4/28/2016 11:00:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X604311-08 (Soil)

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

Diesel (C10-C28)	55.8	50.0	mg/kg	1	B6D2801	04/28/2016	04/28/2016	
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Surrogate: <i>o</i> -Terphenyl	85.4 %	59-131			"	"	"	
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GBTEX + Napthalene by 8260C

Gasoline Range Hydrocarbons	15.6	5.00	mg/kg	25	B6D2803	"	04/29/2016	
Benzene	ND	0.050	"	"	"	"	"	U
Toluene	ND	0.050	"	"	"	"	"	U
Ethylbenzene	ND	0.050	"	"	"	"	"	U
Xylenes, total	ND	0.050	"	"	"	"	"	U
Naphthalene	ND	0.175	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	97.1 %	70-130			"	"	04/28/2016	
Surrogate: Toluene-d8	101 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	92.1 %	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 - Kyle White #D 27-9

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 B6D2803 - EPA 5030 (soil)

Blank (B6D2803-BLK1)

Prepared: 04/28/2016 Analyzed: 04/28/2016

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
Naphthalene	ND	0.007	"							U
Surrogate: 1,2-Dichloroethane-d4	61		ug/kg	62.5		96.8	70-130			
Surrogate: Toluene-d8	64		"	62.5		102	70-130			
Surrogate: 4-Bromofluorobenzene	58		"	62.5		93.2	70-130			

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 - Kyle White #D 27-9

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 B6D2803 - EPA 5030 (soil)

Blank (B6D2803-BLK2)

Prepared: 04/28/2016 Analyzed: 04/28/2016

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
Naphthalene	ND	0.007	"							U
Surrogate: 1,2-Dichloroethane-d4	60		ug/kg	62.5		95.7	70-130			
Surrogate: Toluene-d8	65		"	62.5		103	70-130			
Surrogate: 4-Bromofluorobenzene	58		"	62.5		92.6	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 - Kyle White #D 27-9

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 B6D2803 - EPA 5030 (soil)

LCS (B6D2803-BS1)

Prepared: 04/28/2016 Analyzed: 04/28/2016

Benzene	0.085	0.002	mg/kg	0.100		85.2	70-130			
Toluene	0.084	0.002	"	0.100		84.0	70-130			
Ethylbenzene	0.085	0.002	"	0.100		85.4	70-130			
m,p-Xylene	0.168	0.004	"	0.200		84.2	70-130			
o-Xylene	0.082	0.002	"	0.100		81.6	70-130			
Naphthalene	0.080	0.007	"	0.100		80.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	56		ug/kg	62.5		89.3	70-130			
Surrogate: Toluene-d8	63		"	62.5		101	70-130			
Surrogate: 4-Bromofluorobenzene	59		"	62.5		94.3	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 - Kyle White #D 27-9

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 B6D2803 - EPA 5030 (soil)

LCS (B6D2803-BS2)

Prepared: 04/28/2016 Analyzed: 04/28/2016

Benzene	0.093	0.002	mg/kg	0.100		92.9	70-130			
Toluene	0.093	0.002	"	0.100		92.7	70-130			
Ethylbenzene	0.093	0.002	"	0.100		93.3	70-130			
m,p-Xylene	0.185	0.004	"	0.200		92.5	70-130			
o-Xylene	0.090	0.002	"	0.100		89.7	70-130			
Naphthalene	0.086	0.007	"	0.100		86.5	70-130			
Surrogate: 1,2-Dichloroethane-d4	55		ug/kg	62.5		88.4	70-130			
Surrogate: Toluene-d8	65		"	62.5		104	70-130			
Surrogate: 4-Bromofluorobenzene	59		"	62.5		94.5	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 - Kyle White #D 27-9

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 B6D2803 - EPA 5030 (soil)

Matrix Spike (B6D2803-MS1)	Source: X604309-02			Prepared: 04/28/2016 Analyzed: 04/28/2016						
Benzene	0.096	0.002	mg/kg	0.100	ND	95.8	70-130			
Toluene	0.094	0.002	"	0.100	ND	94.3	70-130			
Ethylbenzene	0.095	0.002	"	0.100	ND	95.4	70-130			
m,p-Xylene	0.189	0.004	"	0.200	ND	94.3	70-130			
o-Xylene	0.093	0.002	"	0.100	ND	92.6	70-130			
Naphthalene	0.090	0.007	"	0.100	ND	90.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	54		ug/kg	62.5		86.5	70-130			
Surrogate: Toluene-d8	64		"	62.5		102	70-130			
Surrogate: 4-Bromofluorobenzene	58		"	62.5		93.4	70-130			

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 - Kyle White #D 27-9

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 B6D2803 - EPA 5030 (soil)

Matrix Spike (B6D2803-MS2)	Source: X604309-05			Prepared: 04/28/2016 Analyzed: 04/28/2016						
Benzene	0.102	0.002	mg/kg	0.100	ND	102	70-130			
Toluene	0.101	0.002	"	0.100	ND	101	70-130			
Ethylbenzene	0.103	0.002	"	0.100	ND	103	70-130			
m,p-Xylene	0.203	0.004	"	0.200	ND	101	70-130			
o-Xylene	0.100	0.002	"	0.100	ND	99.8	70-130			
Naphthalene	0.094	0.007	"	0.100	ND	93.6	70-130			
Surrogate: 1,2-Dichloroethane-d4	55		ug/kg	62.5		87.3	70-130			
Surrogate: Toluene-d8	64		"	62.5		102	70-130			
Surrogate: 4-Bromofluorobenzene	59		"	62.5		94.5	70-130			

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 - Kyle White #D 27-9

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 B6D2803 - EPA 5030 (soil)

Matrix Spike Dup (B6D2803-MSD1)	Source: X604309-02			Prepared: 04/28/2016 Analyzed: 04/28/2016						
Benzene	0.090	0.002	mg/kg	0.100	ND	90.4	70-130	5.82	20	
Toluene	0.088	0.002	"	0.100	ND	88.2	70-130	6.64	20	
Ethylbenzene	0.089	0.002	"	0.100	ND	88.6	70-130	7.41	20	
m,p-Xylene	0.177	0.004	"	0.200	ND	88.4	70-130	6.50	20	
o-Xylene	0.087	0.002	"	0.100	ND	87.5	70-130	5.73	20	
Naphthalene	0.086	0.007	"	0.100	ND	85.6	70-130	5.28	20	
Surrogate: 1,2-Dichloroethane-d4	55		ug/kg	62.5		88.0	70-130			
Surrogate: Toluene-d8	64		"	62.5		102	70-130			
Surrogate: 4-Bromofluorobenzene	60		"	62.5		95.8	70-130			

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 - Kyle White #D 27-9

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 B6D2803 - EPA 5030 (soil)

Matrix Spike Dup (B6D2803-MSD2)	Source: X604309-05			Prepared: 04/28/2016 Analyzed: 04/28/2016						
Benzene	0.081	0.002	mg/kg	0.100	ND	80.9	70-130	23.4	20	QR-02
Toluene	0.080	0.002	"	0.100	ND	80.5	70-130	22.2	20	QR-02
Ethylbenzene	0.081	0.002	"	0.100	ND	81.1	70-130	23.5	20	QR-02
m,p-Xylene	0.162	0.004	"	0.200	ND	80.8	70-130	22.6	20	QR-02
o-Xylene	0.080	0.002	"	0.100	ND	79.7	70-130	22.4	20	QR-02
Naphthalene	0.077	0.007	"	0.100	ND	76.8	70-130	19.6	20	
Surrogate: 1,2-Dichloroethane-d4	55		ug/kg	62.5		88.7	70-130			
Surrogate: Toluene-d8	64		"	62.5		103	70-130			
Surrogate: 4-Bromofluorobenzene	59		"	62.5		94.7	70-130			

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 - Kyle White #D 27-9

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 B6D2801 - EPA 3580

Blank (B6D2801-BLK1)

Prepared: 04/28/2016 Analyzed: 04/28/2016

Diesel (C10-C28) ND 50.0 mg/kg U

Surrogate: o-Terphenyl 42 " 50.0 83.5 59-131

Blank (B6D2801-BLK2)

Prepared: 04/28/2016 Analyzed: 04/28/2016

Diesel (C10-C28) ND 50.0 mg/kg U

Surrogate: o-Terphenyl 45 " 50.0 90.1 59-131

LCS (B6D2801-BS1)

Prepared: 04/28/2016 Analyzed: 04/28/2016

Diesel (C10-C28) 825 50.0 mg/kg 1000 82.5 64-121

Surrogate: o-Terphenyl 40 " 50.0 80.6 59-131

LCS (B6D2801-BS2)

Prepared: 04/28/2016 Analyzed: 04/28/2016

Diesel (C10-C28) 977 50.0 mg/kg 1000 97.7 64-121

Surrogate: o-Terphenyl 51 " 50.0 102 59-131

Matrix Spike (B6D2801-MS1)

Source: X604292-02

Prepared: 04/28/2016 Analyzed: 04/28/2016

Diesel (C10-C28) 712 50.0 mg/kg 1000 ND 71.2 53-125

Surrogate: o-Terphenyl 37 " 50.0 74.6 59-131

Matrix Spike (B6D2801-MS2)

Source: X604317-01

Prepared: 04/28/2016 Analyzed: 04/28/2016

Diesel (C10-C28) 828 50.0 mg/kg 1000 ND 82.8 53-125

Surrogate: o-Terphenyl 40 " 50.0 79.6 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 - Kyle White #D 27-9

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 B6D2801 - EPA 3580

Matrix Spike Dup (B6D2801-MSD1)		Source: X604292-02			Prepared: 04/28/2016 Analyzed: 04/28/2016					
Diesel (C10-C28)	776	50.0	mg/kg	1000	ND	77.6	53-125	8.63	20	
Surrogate: o-Terphenyl	41		"	50.0		81.2	59-131			
Matrix Spike Dup (B6D2801-MSD2)		Source: X604317-01			Prepared: 04/28/2016 Analyzed: 04/28/2016					
Diesel (C10-C28)	924	50.0	mg/kg	1000	ND	92.4	53-125	11.0	20	
Surrogate: o-Terphenyl	50		"	50.0		99.3	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.

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

Martin C Eckert III
Project Number: [none]
Project: Noble - Kyle White #D 27-9

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.

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



August 25, 2016

Eagle Environmental Consulting, Inc.

Martin C Eckert III

4101 Inca Street

Denver

CO 80211

Project Name - Noble - Kyle White #D 27-9

Project Number - [none]

Attached are your analytical results for Noble - Kyle White #D 27-9 received by Origins Laboratory, Inc. August 24, 2016. This project is associated with Origins project number X608255-01.

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 - Kyle White #D 27-9

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS-10 @ 12'	X608255-01	Soil	August 24, 2016 10:15	08/24/2016 17:15
SS-11 @ 10'	X608255-02	Soil	August 24, 2016 10:30	08/24/2016 17:15
SS-12 @ 10'	X608255-03	Soil	August 24, 2016 10:35	08/24/2016 17:15
SS-13 @ 12'	X608255-04	Soil	August 24, 2016 11:00	08/24/2016 17:15
SS-14 @ 10'	X608255-05	Soil	August 24, 2016 11:05	08/24/2016 17:15
SS-16 @ 10'	X608255-06	Soil	August 24, 2016 13:30	08/24/2016 17:15
SS-19 @ 19'	X608255-07	Soil	August 24, 2016 15:40	08/24/2016 17:15
SS-20 @ 17'	X608255-08	Soil	August 24, 2016 15:50	08/24/2016 17:15

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.

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

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Kyle White #D 27-9

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: X608255

Client: Eagle

Client Project ID: Kyle White #D 27-9

Checklist Completed by: Jef Smith

Shipped Via: HTD

(UPS, FedEx, Hand Delivered, Pick-up, etc.)

Date/time completed: 8/24/16

Airbill #: N/A

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

Cooler Number/Temperature: 1 / 4.9 °C _____ / _____ °C _____ / _____ °C _____ / _____ °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⁾ ?	X			
Is there ice present (document if blue ice is used)	X			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		✓		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)		✓		
Were all samples received intact ⁽¹⁾ ?	✓			
Was adequate sample volume provided ⁽¹⁾ ?	✓			
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?		✓		
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	✓			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	✓			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	✓			
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	✓			
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.			✓	
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)			✓	
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.

Jef Smith
 Reviewed by (Project Manager)

8/24/16
 Date/Time Reviewed

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 - Kyle White #D 27-9

SS-10 @ 12'
8/24/2016 10:15:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X608255-01 (Soil)

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

Diesel (C10-C28)	ND	50.0	mg/kg	1	B6H2408	08/24/2016	08/24/2016	U
<i>Surrogate: o-Terphenyl</i>	78.4 %	59-131			"	"	"	

GBTEX + Napthalene by 8260C

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B6H2407	08/24/2016	08/24/2016	U
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
<i>Surrogate: 1,2-Dichloroethane-d4</i>	106 %	70-130			"	"	"	
<i>Surrogate: Toluene-d8</i>	96.1 %	70-130			"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>	108 %	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 - Kyle White #D 27-9

SS-11 @ 10'
8/24/2016 10:30:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X608255-02 (Soil)

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

Diesel (C10-C28)	ND	50.0	mg/kg	1	B6H2408	08/24/2016	08/24/2016	U
<i>Surrogate: o-Terphenyl</i>	84.4 %	59-131			"	"	"	

GBTEX + Napthalene by 8260C

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B6H2407	08/24/2016	08/24/2016	U
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
<i>Surrogate: 1,2-Dichloroethane-d4</i>	105 %	70-130			"	"	"	
<i>Surrogate: Toluene-d8</i>	95.6 %	70-130			"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>	110 %	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 - Kyle White #D 27-9

SS-12 @ 10'
8/24/2016 10:35:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X608255-03 (Soil)

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

Diesel (C10-C28)	ND	50.0	mg/kg	1	B6H2408	08/24/2016	08/24/2016	U
<i>Surrogate: o-Terphenyl</i>	78.2 %	59-131			"	"	"	

GBTEX + Napthalene by 8260C

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B6H2407	08/24/2016	08/24/2016	U
Benzene	ND	0.002	"	"	"	"	"	U
Toluene	ND	0.002	"	"	"	"	"	U
Ethylbenzene	ND	0.002	"	"	"	"	"	U
Xylenes, total	0.002	0.002	"	"	"	"	"	
Napthalene	ND	0.007	"	"	"	"	"	U

<i>Surrogate: 1,2-Dichloroethane-d4</i>	104 %	70-130			"	"	"	
<i>Surrogate: Toluene-d8</i>	95.8 %	70-130			"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>	110 %	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 - Kyle White #D 27-9

SS-13 @ 12'
8/24/2016 11:00:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X608255-04 (Soil)

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

Diesel (C10-C28)	ND	50.0	mg/kg	1	B6H2408	08/24/2016	08/24/2016	U
<i>Surrogate: o-Terphenyl</i>	87.1 %	59-131			"	"	"	

GBTEX + Napthalene by 8260C

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B6H2407	08/24/2016	08/24/2016	U
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
<i>Surrogate: 1,2-Dichloroethane-d4</i>	103 %	70-130			"	"	"	
<i>Surrogate: Toluene-d8</i>	95.4 %	70-130			"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>	109 %	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 - Kyle White #D 27-9

SS-14 @ 10'
 8/24/2016 11:05:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 X608255-05 (Soil)

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

Diesel (C10-C28)	ND	50.0	mg/kg	1	B6H2408	08/24/2016	08/24/2016	U
Surrogate: o-Terphenyl	88.0 %	59-131			"	"	"	

GBTEX + Napthalene by 8260C

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B6H2407	08/24/2016	08/24/2016	U
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	104 %	70-130			"	"	"	
Surrogate: Toluene-d8	94.6 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	109 %	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 - Kyle White #D 27-9

SS-16 @ 10'
8/24/2016 1:30:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X608255-06 (Soil)

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

Diesel (C10-C28)	ND	50.0	mg/kg	1	B6H2408	08/24/2016	08/24/2016	U
<i>Surrogate: o-Terphenyl</i>	90.0 %	59-131			"	"	"	

GBTEX + Napthalene by 8260C

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B6H2407	08/24/2016	08/25/2016	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
<i>Surrogate: 1,2-Dichloroethane-d4</i>	101 %	70-130			"	"	"	
<i>Surrogate: Toluene-d8</i>	96.5 %	70-130			"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>	105 %	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 - Kyle White #D 27-9

SS-19 @ 19'
8/24/2016 3:40:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X608255-07 (Soil)

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

Diesel (C10-C28)	3870	50.0	mg/kg	1	B6H2408	08/24/2016	08/24/2016	
Surrogate: <i>o</i> -Terphenyl	104 %	59-131			"	"	"	

GBTEX + Napthalene by 8260C

Gasoline Range Hydrocarbons	2270	50.0	mg/kg	250	B6H2407	08/24/2016	08/25/2016	
Benzene	2.96	0.498	"	"	"	"	"	
Toluene	21.2	0.498	"	"	"	"	"	
Ethylbenzene	9.47	0.498	"	"	"	"	"	
Xylenes, total	82.1	0.498	"	"	"	"	"	
Naphthalene	2.92	1.75	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	104 %	70-130			"	"	"	
Surrogate: Toluene-d8	99.9 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	116 %	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 - Kyle White #D 27-9

SS-20 @ 17'
8/24/2016 3:50:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X608255-08 (Soil)

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

Diesel (C10-C28)	3340	50.0	mg/kg	1	B6H2408	08/24/2016	08/24/2016	
Surrogate: <i>o</i> -Terphenyl	98.5 %	59-131			"	"	"	

GBTEX + Napthalene by 8260C

Gasoline Range Hydrocarbons	2150	50.0	mg/kg	250	B6H2407	08/24/2016	08/25/2016	
Benzene	1.20	0.498	"	"	"	"	"	
Toluene	4.16	0.498	"	"	"	"	"	
Ethylbenzene	5.18	0.498	"	"	"	"	"	
Xylenes, total	72.1	0.498	"	"	"	"	"	
Naphthalene	2.11	1.75	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4	102 %	70-130			"	"	08/25/2016	
Surrogate: Toluene-d8	96.6 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	110 %	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 - Kyle White #D 27-9

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 B6H2407 - EPA 5030 (soil)

Blank (B6H2407-BLK1)

Prepared: 08/24/2016 Analyzed: 08/24/2016

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
Naphthalene	ND	0.007	"							U
Surrogate: 1,2-Dichloroethane-d4	67		ug/kg	62.5		108	70-130			
Surrogate: Toluene-d8	59		"	62.5		95.0	70-130			
Surrogate: 4-Bromofluorobenzene	68		"	62.5		109	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 - Kyle White #D 27-9

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 B6H2407 - EPA 5030 (soil)

LCS (B6H2407-BS1)

Prepared: 08/24/2016 Analyzed: 08/24/2016

Benzene	0.099	0.002	mg/kg	0.100		98.9	70-130			
Toluene	0.093	0.002	"	0.100		92.6	70-130			
Ethylbenzene	0.096	0.002	"	0.100		96.4	70-130			
m,p-Xylene	0.193	0.004	"	0.200		96.6	70-130			
o-Xylene	0.098	0.002	"	0.100		97.8	70-130			
Naphthalene	0.091	0.007	"	0.100		90.8	70-130			
Surrogate: 1,2-Dichloroethane-d4	68		ug/kg	62.5		109	70-130			
Surrogate: Toluene-d8	60		"	62.5		95.9	70-130			
Surrogate: 4-Bromofluorobenzene	68		"	62.5		109	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 - Kyle White #D 27-9

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 B6H2407 - EPA 5030 (soil)

Matrix Spike (B6H2407-MS1)	Source: X608231-01			Prepared: 08/24/2016 Analyzed: 08/24/2016						
Benzene	0.157	0.002	mg/kg	0.200	ND	78.6	70-130			
Toluene	0.147	0.002	"	0.200	ND	73.3	70-130			
Ethylbenzene	0.148	0.002	"	0.200	ND	74.2	70-130			
m,p-Xylene	0.297	0.004	"	0.400	ND	74.3	70-130			
o-Xylene	0.153	0.002	"	0.200	ND	76.6	70-130			
Naphthalene	0.142	0.007	"	0.200	0.002	70.1	70-130			
Surrogate: 1,2-Dichloroethane-d4	73		ug/kg	62.5		116	70-130			
Surrogate: Toluene-d8	60		"	62.5		95.4	70-130			
Surrogate: 4-Bromofluorobenzene	70		"	62.5		111	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 - Kyle White #D 27-9

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 B6H2407 - EPA 5030 (soil)

Matrix Spike Dup (B6H2407-MSD1)	Source: X608231-01			Prepared: 08/24/2016 Analyzed: 08/24/2016						
Benzene	0.142	0.002	mg/kg	0.200	ND	71.2	70-130	9.75	20	
Toluene	0.132	0.002	"	0.200	ND	65.8	70-130	10.9	20	QM-07
Ethylbenzene	0.129	0.002	"	0.200	ND	64.4	70-130	14.2	20	QM-07
m,p-Xylene	0.258	0.004	"	0.400	ND	64.4	70-130	14.3	20	QM-07
o-Xylene	0.132	0.002	"	0.200	ND	65.8	70-130	15.1	20	QM-07
Naphthalene	0.118	0.007	"	0.200	0.002	58.1	70-130	18.5	20	QM-07
Surrogate: 1,2-Dichloroethane-d4	73		ug/kg	62.5		116	70-130			
Surrogate: Toluene-d8	60		"	62.5		95.4	70-130			
Surrogate: 4-Bromofluorobenzene	67		"	62.5		107	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 - Kyle White #D 27-9

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 B6H2408 - EPA 3580

Blank (B6H2408-BLK1)

Prepared: 08/24/2016 Analyzed: 08/24/2016

Diesel (C10-C28)	ND	50.0	mg/kg							U
Surrogate: o-Terphenyl	46		"	50.0		91.0	59-131			

LCS (B6H2408-BS1)

Prepared: 08/24/2016 Analyzed: 08/24/2016

Diesel (C10-C28)	885	50.0	mg/kg	1000		88.5	64-121			
Surrogate: o-Terphenyl	41		"	50.0		82.7	59-131			

Matrix Spike (B6H2408-MS1)

Source: X608231-01

Prepared: 08/24/2016 Analyzed: 08/24/2016

Diesel (C10-C28)	944	50.0	mg/kg	1000	16.0	92.8	53-125			
Surrogate: o-Terphenyl	46		"	50.0		91.5	59-131			

Matrix Spike Dup (B6H2408-MSD1)

Source: X608231-01

Prepared: 08/24/2016 Analyzed: 08/24/2016

Diesel (C10-C28)	853	50.0	mg/kg	1000	16.0	83.7	53-125	10.1	20	
Surrogate: o-Terphenyl	43		"	50.0		85.6	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.

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

Martin C Eckert III
Project Number: [none]
Project: Noble - Kyle White #D 27-9

Notes and Definitions

U Sample is Non-Detect.

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

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



August 26, 2016

Eagle Environmental Consulting, Inc.

Martin C Eckert III

4101 Inca Street

Denver

CO 80211

Project Name - Noble - Kyle White #D 27-9

Project Number - [none]

Attached are your analytical results for Noble - Kyle White #D 27-9 received by Origins Laboratory, Inc. August 25, 2016. This project is associated with Origins project number X608266-01.

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 - Kyle White #D 27-9

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS-21 @ 15	X608266-01	Soil	August 25, 2016 9:20	08/25/2016 17:00
SS-22 @ 20	X608266-02	Soil	August 25, 2016 11:00	08/25/2016 17:00
SS-23 @ 20	X608266-03	Soil	August 25, 2016 11:05	08/25/2016 17:00
SS-24 @ 18	X608266-04	Soil	August 25, 2016 13:45	08/25/2016 17:00
SS-25 @ 18	X608266-05	Soil	August 25, 2016 13:50	08/25/2016 17:00
SS-26 @ 20	X608266-06	Soil	August 25, 2016 13:55	08/25/2016 17:00
SS-27 @ 18	X608266-07	Soil	August 25, 2016 14:35	08/25/2016 17:00
SS-28 @ 20	X608266-08	Soil	August 25, 2016 14:40	08/25/2016 17:00
SS-29 @ 20	X608266-09	Soil	August 25, 2016 15:30	08/25/2016 17:00
SS-31 @ 18	X608266-10	Soil	August 25, 2016 15:35	08/25/2016 17:00

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 - Kyle White #D 27-9

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS-32 @ 18	X608266-11	Soil	August 25, 2016 14:45	08/25/2016 17:00

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

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

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Kyle White #D 27-9

www.originslaboratory.com

X608266

page 1 of 2

ORIGINS
 LABORATORY, INC

Client: EAGLE ENV CONSULTING
 Address: 4101 INCA ST
DENVER CO
 Telephone Number: 303 433 0419
 Email Address: MCE3@eagle-env.com

Project Manager: MARTIN ECKERT III
 Project Name: KYLE WHITE #D 27-9
 Project Number: ---
 Samples Collected By: AR

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

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix				Analysis			Sample Instructions	
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	Air Summa #	Other	GRTX	DZO	MTHMTEK		
SS-21 @ 15'	8/25/16	020	2	X				X				X				
SS-22 @ 20'		1100	1													
SS-23 @ 20'		1105	1													
SS-24 @ 18'		1345	1													
SS-25 @ 16'		1350	1													
SS-26 @ 20'		1355	1													
SS-27 @ 16'		1435	1													
SS-28 @ 20'		1440	1													
SS-29 @ 20'		1530	1													
SS-31 @ 18'		1535	1													
Relinquished By: <u>AR</u>	Date: 8/25/16	Time: 1700														
Relinquished By:	Date:	Time:														

Temp Received: 5.6
 Date Results Needed: N/A
 Turnaround Time: Same Day 24 Hr
 48 Hr Standard
 Date: 8/25/16
 Time: 1700

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.

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

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Kyle White #D 27-9

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: X608266

Client: Eagle

Client Project ID: Kyle White #D 27-9

Checklist Completed by: Jefe Smith

Shipped Via: HTD

(UPS, FedEx, Hand Delivered, Pick-up, etc.)

Date/time completed: 8/25/16

Airbill #: N/A

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

Cooler Number/Temperature: 1 / 5.6 °C 1 / °C 1 / °C (Describe) 1 / °C

Thermometer ID: T603

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

Jefe Smith
 Reviewed by (Project Manager)

8/25/16
 Date/Time Reviewed

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 - Kyle White #D 27-9

SS-21 @ 15
8/25/2016 9:20:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X608266-01 (Soil)

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

Diesel (C10-C28)	203	50.0	mg/kg	1	B6H2508	08/25/2016	08/25/2016	
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Surrogate: o-Terphenyl	69.2 %	59-131			"	"	"	
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GBTEX + Napthalene by 8260C

Gasoline Range Hydrocarbons	19.5	5.00	mg/kg	25	B6H2504	08/25/2016	08/25/2016	
Benzene	ND	0.050	"	"	"	"	"	U
Toluene	ND	0.050	"	"	"	"	"	U
Ethylbenzene	ND	0.050	"	"	"	"	"	U
Xylenes, total	0.220	0.050	"	"	"	"	"	
Naphthalene	ND	0.175	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	94.0 %	70-130			"	"	"	
Surrogate: Toluene-d8	107 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	102 %	70-130			"	"	"	

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 - Kyle White #D 27-9

SS-22 @ 20
8/25/2016 11:00:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X608266-02 (Soil)

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

Diesel (C10-C28)	170	50.0	mg/kg	1	B6H2508	08/25/2016	08/26/2016	
Surrogate: o-Terphenyl	86.4 %	59-131			"	"	"	

GBTEX + Napthalene by 8260C

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B6H2504	08/25/2016	08/25/2016	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	89.1 %	70-130			"	"	"	
Surrogate: Toluene-d8	101 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	102 %	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 - Kyle White #D 27-9

SS-23 @ 20
8/25/2016 11:05:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X608266-03 (Soil)

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

Diesel (C10-C28)	9600	50.0	mg/kg	1	B6H2508	08/25/2016	08/26/2016	
Surrogate: <i>o</i> -Terphenyl	127 %	59-131			"	"	"	

GBTEX + Napthalene by 8260C

Gasoline Range Hydrocarbons	4780	50.0	mg/kg	250	B6H2504	08/25/2016	08/25/2016	
Benzene	10.7	0.498	"	"	"	"	"	
Toluene	77.0	0.498	"	"	"	"	"	
Ethylbenzene	25.5	0.498	"	"	"	"	"	
Xylenes, total	186	0.498	"	"	"	"	"	
Naphthalene	0.428	0.175	"	25	"	"	08/25/2016	
Surrogate: 1,2-Dichloroethane-d4	96.6 %	70-130			"	"	08/25/2016	
Surrogate: Toluene-d8	135 %	70-130			"	"	"	S-04
Surrogate: 4-Bromofluorobenzene	109 %	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 - Kyle White #D 27-9

SS-24 @ 18
8/25/2016 1:45:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X608266-04 (Soil)

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

Diesel (C10-C28)	ND	50.0	mg/kg	1	B6H2508	08/25/2016	08/26/2016	U
Surrogate: o-Terphenyl	88.8 %	59-131			"	"	"	

GBTEX + Napthalene by 8260C

Gasoline Range Hydrocarbons	5.27	5.00	mg/kg	25	B6H2504	08/25/2016	08/26/2016	
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	87.9 %	70-130			"	"	"	
Surrogate: Toluene-d8	103 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	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.

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

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Kyle White #D 27-9

SS-25 @ 18
8/25/2016 1:50:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X608266-05 (Soil)

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

Diesel (C10-C28)	ND	50.0	mg/kg	1	B6H2508	08/25/2016	08/26/2016	U
<i>Surrogate: o-Terphenyl</i>	83.9 %	59-131			"	"	"	

GBTEX + Napthalene by 8260C

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B6H2504	08/25/2016	08/26/2016	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
<i>Surrogate: 1,2-Dichloroethane-d4</i>	88.9 %	70-130			"	"	"	
<i>Surrogate: Toluene-d8</i>	104 %	70-130			"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>	103 %	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 - Kyle White #D 27-9

SS-26 @ 20
8/25/2016 1:55:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X608266-06 (Soil)

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

Diesel (C10-C28)	ND	50.0	mg/kg	1	B6H2508	08/25/2016	08/26/2016	U
<i>Surrogate: o-Terphenyl</i>	76.9 %	59-131			"	"	"	

GBTEX + Napthalene by 8260C

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B6H2504	08/25/2016	08/26/2016	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
<i>Surrogate: 1,2-Dichloroethane-d4</i>	89.2 %	70-130			"	"	"	
<i>Surrogate: Toluene-d8</i>	102 %	70-130			"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>	99.4 %	70-130			"	"	"	

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 - Kyle White #D 27-9

SS-27 @ 18
8/25/2016 2:35:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X608266-07 (Soil)

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

Diesel (C10-C28)	ND	50.0	mg/kg	1	B6H2508	08/25/2016	08/26/2016	U
<i>Surrogate: o-Terphenyl</i>	73.0 %	59-131			"	"	"	

GBTEX + Napthalene by 8260C

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B6H2504	08/25/2016	08/26/2016	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
<i>Surrogate: 1,2-Dichloroethane-d4</i>	89.6 %	70-130			"	"	"	
<i>Surrogate: Toluene-d8</i>	102 %	70-130			"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>	102 %	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 - Kyle White #D 27-9

SS-28 @ 20
8/25/2016 2:40:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X608266-08 (Soil)

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

Diesel (C10-C28)	ND	50.0	mg/kg	1	B6H2508	08/25/2016	08/26/2016	U
<i>Surrogate: o-Terphenyl</i>	75.3 %	59-131			"	"	"	

GBTEX + Napthalene by 8260C

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B6H2504	08/25/2016	08/26/2016	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
<i>Surrogate: 1,2-Dichloroethane-d4</i>	90.5 %	70-130			"	"	"	
<i>Surrogate: Toluene-d8</i>	102 %	70-130			"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>	98.7 %	70-130			"	"	"	

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 - Kyle White #D 27-9

SS-29 @ 20
8/25/2016 3:30:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X608266-09 (Soil)

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

Diesel (C10-C28)	3510	50.0	mg/kg	1	B6H2508	08/25/2016	08/26/2016	
Surrogate: <i>o</i> -Terphenyl	113 %	59-131			"	"	"	

GBTEX + Napthalene by 8260C

Gasoline Range Hydrocarbons	2980	50.0	mg/kg	250	B6H2504	08/25/2016	08/25/2016	
Benzene	6.01	0.050	"	25	"	"	08/26/2016	
Toluene	43.8	0.498	"	250	"	"	08/25/2016	
Ethylbenzene	16.0	0.498	"	"	"	"	"	
Xylenes, total	136	0.498	"	"	"	"	"	
Naphthalene	0.872	0.175	"	25	"	"	08/26/2016	
Surrogate: 1,2-Dichloroethane-d4	93.8 %	70-130			"	"	08/25/2016	
Surrogate: Toluene-d8	126 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	107 %	70-130			"	"	"	

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 - Kyle White #D 27-9

SS-31 @ 18
8/25/2016 3:35:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X608266-10 (Soil)

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

Diesel (C10-C28)	248	50.0	mg/kg	1	B6H2508	08/25/2016	08/26/2016	
Surrogate: <i>o</i> -Terphenyl	95.2 %	59-131			"	"	"	

GBTEX + Napthalene by 8260C

Gasoline Range Hydrocarbons	31.3	5.00	mg/kg	25	B6H2504	08/25/2016	08/26/2016	
Benzene	ND	0.050	"	"	"	"	"	U
Toluene	ND	0.050	"	"	"	"	"	U
Ethylbenzene	ND	0.050	"	"	"	"	"	U
Xylenes, total	0.584	0.050	"	"	"	"	"	
Naphthalene	ND	0.175	"	"	"	"	"	U
Surrogate: 1,2-Dichloroethane-d4	88.1 %	70-130			"	"	"	
Surrogate: Toluene-d8	106 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	99.4 %	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 - Kyle White #D 27-9

SS-32 @ 18
 8/25/2016 2:45:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 X608266-11 (Soil)

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

Diesel (C10-C28)	ND	50.0	mg/kg	1	B6H2508	08/25/2016	08/26/2016	U
Surrogate: o-Terphenyl	83.8 %	59-131			"	"	"	

GBTEX + Napthalene by 8260C

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B6H2504	08/25/2016	08/26/2016	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	93.2 %	70-130			"	"	"	
Surrogate: Toluene-d8	102 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	98.4 %	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 - Kyle White #D 27-9

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 B6H2504 - EPA 5030 (soil)

Blank (B6H2504-BLK1)

Prepared: 08/25/2016 Analyzed: 08/25/2016

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
Naphthalene	ND	0.007	"							U
Surrogate: 1,2-Dichloroethane-d4	62		ug/kg	62.5		99.1	70-130			
Surrogate: Toluene-d8	65		"	62.5		104	70-130			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		102	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 - Kyle White #D 27-9

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 B6H2504 - EPA 5030 (soil)

LCS (B6H2504-BS1)

Prepared: 08/25/2016 Analyzed: 08/25/2016

Benzene	0.107	0.002	mg/kg	0.100		107	70-130			
Toluene	0.110	0.002	"	0.100		110	70-130			
Ethylbenzene	0.094	0.002	"	0.100		94.1	70-130			
m,p-Xylene	0.197	0.004	"	0.200		98.7	70-130			
o-Xylene	0.092	0.002	"	0.100		92.3	70-130			
Naphthalene	0.088	0.007	"	0.100		88.3	70-130			
Surrogate: 1,2-Dichloroethane-d4	59		ug/kg	62.5		94.8	70-130			
Surrogate: Toluene-d8	68		"	62.5		108	70-130			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		98.6	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 - Kyle White #D 27-9

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 B6H2504 - EPA 5030 (soil)

Matrix Spike (B6H2504-MS1)	Source: X608230-01			Prepared: 08/25/2016 Analyzed: 08/25/2016						
Benzene	0.113	0.002	mg/kg	0.100	ND	113	70-130			
Toluene	0.105	0.002	"	0.100	ND	105	70-130			
Ethylbenzene	0.105	0.002	"	0.100	ND	105	70-130			
m,p-Xylene	0.212	0.004	"	0.200	ND	106	70-130			
o-Xylene	0.106	0.002	"	0.100	ND	106	70-130			
Naphthalene	0.090	0.007	"	0.100	ND	89.9	70-130			
Surrogate: 1,2-Dichloroethane-d4	66		ug/kg	62.5		106	70-130			
Surrogate: Toluene-d8	60		"	62.5		96.7	70-130			
Surrogate: 4-Bromofluorobenzene	64		"	62.5		102	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 - Kyle White #D 27-9

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 B6H2504 - EPA 5030 (soil)

Matrix Spike Dup (B6H2504-MSD1)	Source: X608230-01			Prepared: 08/25/2016 Analyzed: 08/25/2016						
Benzene	0.107	0.002	mg/kg	0.100	ND	107	70-130	5.55	20	
Toluene	0.098	0.002	"	0.100	ND	98.0	70-130	7.28	20	
Ethylbenzene	0.097	0.002	"	0.100	ND	97.5	70-130	7.33	20	
m,p-Xylene	0.196	0.004	"	0.200	ND	98.2	70-130	7.37	20	
o-Xylene	0.098	0.002	"	0.100	ND	98.1	70-130	7.59	20	
Naphthalene	0.083	0.007	"	0.100	ND	83.3	70-130	7.57	20	
Surrogate: 1,2-Dichloroethane-d4	66		ug/kg	62.5		106	70-130			
Surrogate: Toluene-d8	59		"	62.5		94.9	70-130			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		101	70-130			

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 - Kyle White #D 27-9

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 B6H2508 - EPA 3580

Blank (B6H2508-BLK1)

Prepared: 08/25/2016 Analyzed: 08/25/2016

Diesel (C10-C28)	ND	50.0	mg/kg							U
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Surrogate: o-Terphenyl

45			"	50.0		89.9	59-131			
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LCS (B6H2508-BS1)

Prepared: 08/25/2016 Analyzed: 08/25/2016

Diesel (C10-C28)	862	50.0	mg/kg	1000		86.2	64-121			
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Surrogate: o-Terphenyl

46			"	50.0		91.1	59-131			
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Matrix Spike (B6H2508-MS1)

Source: X608267-01

Prepared: 08/25/2016 Analyzed: 08/25/2016

Diesel (C10-C28)	880	50.0	mg/kg	1000	13.7	86.6	53-125			
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Surrogate: o-Terphenyl

47			"	50.0		93.2	59-131			
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Matrix Spike Dup (B6H2508-MSD1)

Source: X608267-01

Prepared: 08/25/2016 Analyzed: 08/25/2016

Diesel (C10-C28)	859	50.0	mg/kg	1000	13.7	84.5	53-125	2.46	20	
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Surrogate: o-Terphenyl

49			"	50.0		97.7	59-131			
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Eagle Environmental Consulting, Inc.
4101 Inca Street
Denver CO 80211

Martin C Eckert III
Project Number: [none]
Project: Noble - Kyle White #D 27-9

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.



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



August 30, 2016

Eagle Environmental Consulting, Inc.

Martin C Eckert III

4101 Inca Street

Denver

CO 80211

Project Name - Noble - Kyle White #D 27-9

Project Number - [none]

Attached are your analytical results for Noble - Kyle White #D 27-9 received by Origins Laboratory, Inc. August 29, 2016. This project is associated with Origins project number X608309-01.

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 - Kyle White #D 27-9

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS-39 @ 18'	X608309-01	Soil	August 29, 2016 13:50	08/29/2016 15:45
SS-40 @ 18'	X608309-02	Soil	August 29, 2016 14:05	08/29/2016 15:45
SS-41 @ 20'	X608309-03	Soil	August 29, 2016 13:45	08/29/2016 15:45

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 - Kyle White #D 27-9

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

Sample Receipt Checklist

Origins Work Order: X608309 Client: Eagle
 Client Project ID: Kyle White #D 27-9
 Checklist Completed by: Jeff Smith Shipped Via: HTD
 Date/time completed: 8/29/12 (UPS, FedEx, Hand Delivered, Pick-up, etc.)
 Airbill #: 22A
 Matrix(s) Received: (Check all that apply): Soil/Solid Water Other: _____
 Cooler Number/Temperature: 1 / 4.1 °C 1 / _____ °C 1 / _____ °C (Describe)
 Thermometer ID: TB03

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"/>			
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 HNO3, HCL, H2SO4) / (pH >10 for samples preserved with NaAsO2+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.

Jeff Smith Reviewed by (Project Manager) 8/29/12
Date/Time Reviewed

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 - Kyle White #D 27-9

SS-39 @ 18'
8/29/2016 1:50:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X608309-01 (Soil)

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

Diesel (C10-C28)	ND	50.0	mg/kg	1	B6H2905	08/29/2016	08/29/2016	U
<i>Surrogate: o-Terphenyl</i>	73.1 %	59-131			"	"	"	

GBTEX + Napthalene by 8260C

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B6H2903	08/29/2016	08/29/2016	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
<i>Surrogate: 1,2-Dichloroethane-d4</i>	97.9 %	70-130			"	"	"	
<i>Surrogate: Toluene-d8</i>	103 %	70-130			"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>	102 %	70-130			"	"	"	

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 - Kyle White #D 27-9

SS-40 @ 18'
8/29/2016 2:05:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X608309-02 (Soil)

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

Diesel (C10-C28)	ND	50.0	mg/kg	1	B6H2905	08/29/2016	08/29/2016	U
<i>Surrogate: o-Terphenyl</i>	68.0 %	59-131			"	"	"	

GBTEX + Napthalene by 8260C

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B6H2903	08/29/2016	08/29/2016	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
<i>Surrogate: 1,2-Dichloroethane-d4</i>	96.8 %	70-130			"	"	"	
<i>Surrogate: Toluene-d8</i>	102 %	70-130			"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>	103 %	70-130			"	"	"	

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 - Kyle White #D 27-9

SS-41 @ 20'
8/29/2016 1:45:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
X608309-03 (Soil)

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

Diesel (C10-C28)	ND	50.0	mg/kg	1	B6H2905	08/29/2016	08/29/2016	U
<i>Surrogate: o-Terphenyl</i>	53.8 %	59-131			"	"	"	S-04

GBTEX + Napthalene by 8260C

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B6H2903	08/29/2016	08/29/2016	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
<i>Surrogate: 1,2-Dichloroethane-d4</i>	96.0 %	70-130			"	"	"	
<i>Surrogate: Toluene-d8</i>	102 %	70-130			"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>	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 - Kyle White #D 27-9

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 B6H2903 - EPA 5030 (soil)

Blank (B6H2903-BLK1)

Prepared: 08/29/2016 Analyzed: 08/29/2016

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
Naphthalene	ND	0.007	"							U
Surrogate: 1,2-Dichloroethane-d4	58		ug/kg	62.5		93.2	70-130			
Surrogate: Toluene-d8	63		"	62.5		100	70-130			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		98.7	70-130			

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 - Kyle White #D 27-9

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 B6H2903 - EPA 5030 (soil)

LCS (B6H2903-BS1)

Prepared: 08/29/2016 Analyzed: 08/29/2016

Benzene	0.107	0.002	mg/kg	0.100		107	70-130			
Toluene	0.103	0.002	"	0.100		103	70-130			
Ethylbenzene	0.103	0.002	"	0.100		103	70-130			
m,p-Xylene	0.207	0.004	"	0.200		103	70-130			
o-Xylene	0.100	0.002	"	0.100		99.9	70-130			
Naphthalene	0.088	0.007	"	0.100		88.0	70-130			
Surrogate: 1,2-Dichloroethane-d4	61		ug/kg	62.5		97.1	70-130			
Surrogate: Toluene-d8	63		"	62.5		101	70-130			
Surrogate: 4-Bromofluorobenzene	61		"	62.5		98.0	70-130			

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 - Kyle White #D 27-9

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 B6H2903 - EPA 5030 (soil)

Matrix Spike (B6H2903-MS1)	Source: X608212-01			Prepared: 08/29/2016 Analyzed: 08/29/2016						
Benzene	0.096	0.002	mg/kg	0.100	ND	96.4	70-130			
Toluene	0.093	0.002	"	0.100	ND	92.8	70-130			
Ethylbenzene	0.089	0.002	"	0.100	0.0008	88.0	70-130			
m,p-Xylene	0.179	0.004	"	0.200	0.001	89.1	70-130			
o-Xylene	0.088	0.002	"	0.100	ND	87.8	70-130			
Naphthalene	0.075	0.007	"	0.100	ND	75.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	63		ug/kg	62.5		100	70-130			
Surrogate: Toluene-d8	63		"	62.5		101	70-130			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		100	70-130			

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 - Kyle White #D 27-9

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 B6H2903 - EPA 5030 (soil)

Matrix Spike Dup (B6H2903-MSD1)	Source: X608212-01			Prepared: 08/29/2016 Analyzed: 08/29/2016						
Benzene	0.097	0.002	mg/kg	0.100	ND	96.9	70-130	0.496	20	
Toluene	0.092	0.002	"	0.100	ND	91.9	70-130	0.975	20	
Ethylbenzene	0.088	0.002	"	0.100	0.0008	87.1	70-130	1.02	20	
m,p-Xylene	0.176	0.004	"	0.200	0.001	87.5	70-130	1.76	20	
o-Xylene	0.087	0.002	"	0.100	ND	86.9	70-130	1.10	20	
Naphthalene	0.077	0.007	"	0.100	ND	77.3	70-130	2.68	20	
Surrogate: 1,2-Dichloroethane-d4	63		ug/kg	62.5		101	70-130			
Surrogate: Toluene-d8	62		"	62.5		99.6	70-130			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		98.8	70-130			

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 - Kyle White #D 27-9

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 B6H2905 - EPA 3580

Blank (B6H2905-BLK1)

Prepared: 08/29/2016 Analyzed: 08/29/2016

Diesel (C10-C28)	ND	50.0	mg/kg							U
Surrogate: o-Terphenyl	35		"	50.0		69.9	59-131			

LCS (B6H2905-BS1)

Prepared: 08/29/2016 Analyzed: 08/29/2016

Diesel (C10-C28)	887	50.0	mg/kg	1000		88.7	64-121			
Surrogate: o-Terphenyl	38		"	50.0		77.0	59-131			

LCS Dup (B6H2905-BSD1)

Prepared: 08/29/2016 Analyzed: 08/29/2016

Diesel (C10-C28)	1010	50.0	mg/kg	1000		101	64-121	13.2	20	
Surrogate: o-Terphenyl	45		"	50.0		90.0	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 - Kyle White #D 27-9

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.



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