

Wellhead Closure Checklist

COGCC Rule 911.a.(4) Environmental Site Closure Assessment Field Form

Additional attachments (optional):		Pit Closure	Tank Battery Closure	Flowline Closure 4-22-22	Partially Buried Vault Closure
Site Name & COGCC Facility Number: Donovan D #02-30	Date: 1-5-22	Remediation Project #: 20148			
Associated Wells: 1 05-123-31847	Age of Site: years	Number of Photos Attached: 1			
Location: (GPS coordinates of wellhead or southeastern most wellhead for multiple) 40.262200 / -104.528530					Estimated Facility Size (acres):
General Condition of Site: (General observations regarding housekeeping, corrosion, waste management, etc.) <i>Overall good condition</i>					
USCS Soil Type: SC	Estimated Depth to Groundwater: ~10-15'				
Hydrocarbon Impacted Soils / Spills: (Note estimated size and if impact appears to be surficial or extends to an unknown depth) <i>None observed</i>					
Salt Crusted Soils or Impacted Vegetation: (Note estimated size and if impact appears to be surficial or extends to an unknown depth) <i>None observed</i>					
Wellhead(s)					
Well API	05-123-31847				
Age	years				
Condition of surface around wellhead	Good - Per Crew				
PID Readings	N/A - Excavated upon arrival				
Condition of subsurface (when necessary)	Good - no staining, no odor				
PID Readings	1.2	2.4	0.3	0.9	3.7
Sample taken? Location/Sample ID#	WH-SS-01	WH-SS-02	WH-SS-03	WH-SS-04	WH-FS-01
Photo Number(s)	See photolog				
Other observations regarding wellheads: <i>Well casing cut/capped after assessment</i>					
Summary					
Was impacted soil identified? <input checked="" type="radio"/> No Yes - less than 10 cubic yards Yes - more than 10 cubic yards					
Total number of samples field screened: 5			Total number of samples collected: 5		
Highest PID Reading: 3.7			Total number of samples submitted to lab for analysis: 1		
If more than 10 cubic yards of impacted soil were observed:					
Vertical extent:			Estimated spill volume:		
Lateral extent: N/A			Volume of soil removed:		
Is additional investigation required? N/A					
Was groundwater encountered during the investigation? <input checked="" type="radio"/> No Yes - not impacted or in contact with impacted soils Yes - groundwater impacted and/or in contact with impacted soils					
Measured depth to groundwater:			Was remedial groundwater removal conducted? Yes No		
Date Groundwater was encountered:			Commencement date of removal:		
Sheen on groundwater? Yes No			Volume of groundwater removed prior to sampling:		
Free product observed? Yes No			Volume of groundwater removed post sampling:		
Total number of samples collected:			Total Volume of groundwater removed:		
Total number of samples submitted to lab for analysis:					

Flowline Closure Checklist

COGCC Rule 911.a.(4) Environmental Site Closure Assessment Field Form

Additional Attachments:		Tank Battery Closure		Wellhead Closure		Pit Closure		Partially Buried Vault Closure	
		—		1-5-22		—		—	
Site Name & COGCC Facility Number: Dorovan S #02-30			Date: 4-22-22			Remediation Project #: 20148			
Associated Wells: 1 05-123-31847			Age of Site: years			Number of Photos Attached: 4			
Starting point: (GPS coordinates and descriptions) At Well: 40.262200 / -104.528358									
End point: (GPS coordinates and descriptions) At Sep: 40.265059 / -104.530236									
USCS Soil Type: SC			Estimated Depth to Groundwater: ~10-15'						
Hydrocarbon Impacted Soils / Spills: (Note estimated size and if impact appears to be surficial or extends to an unknown depth) None observed									
Salt Crusted Soils or Impacted Vegetation: (Note estimated size and if impact appears to be surficial or extends to an unknown depth) None observed									
Flowlines									
Flowline type	O, G, W								
Depth	~4'								
Age	years								
Length	~1300'								
Construction Material	Steel								
Were flowlines pulled?	Partial Removal (~535'); Partial ABIP (~825')								
Visual Integrity of lines	Good								
Visual impacts if trenched	None observed								
PID Readings if trenched	4.7	5.2	5.7	4.5					
Sample taken? Location/Sample ID#	FL-SS-01	FL-SS-02	FL-SS-03	FL-SS-04					
Photo Number(s)	See photo log								
Other observations regarding on location flowlines: Partial abandonment in place - between FL-SS-01 + FL-SS-03									
Summary									
Was impacted soil identified? <input checked="" type="radio"/> No Yes - less than 10 cubic yards Yes - more than 10 cubic yards									
Total number of samples field screened: 4					Total number of samples collected: 4				
Highest PID Reading: 5.7					Total number of samples submitted to lab for analysis: 2				
If more than 10 cubic yards of impacted soil were observed:									
Vertical extent:					Estimated spill volume:				
Lateral extent:					Volume of soil removed:				
Is additional investigation required? N/A									
Was groundwater encountered during the investigation? <input checked="" type="radio"/> No Yes - not impacted or in contact with impacted soils Yes - groundwater impacted and/or in contact with impacted soils									
Measured depth to groundwater:					Was remedial groundwater removal conducted? Yes No				
Date Groundwater was encountered:					Commencement date of removal:				
Seen on groundwater? Yes No					Volume of groundwater removed prior to sampling:				
Free product observed? Yes No					Volume of groundwater removed post sampling:				
Total number of samples collected:					Total Volume of groundwater removed:				
Total number of samples submitted to lab for analysis:									

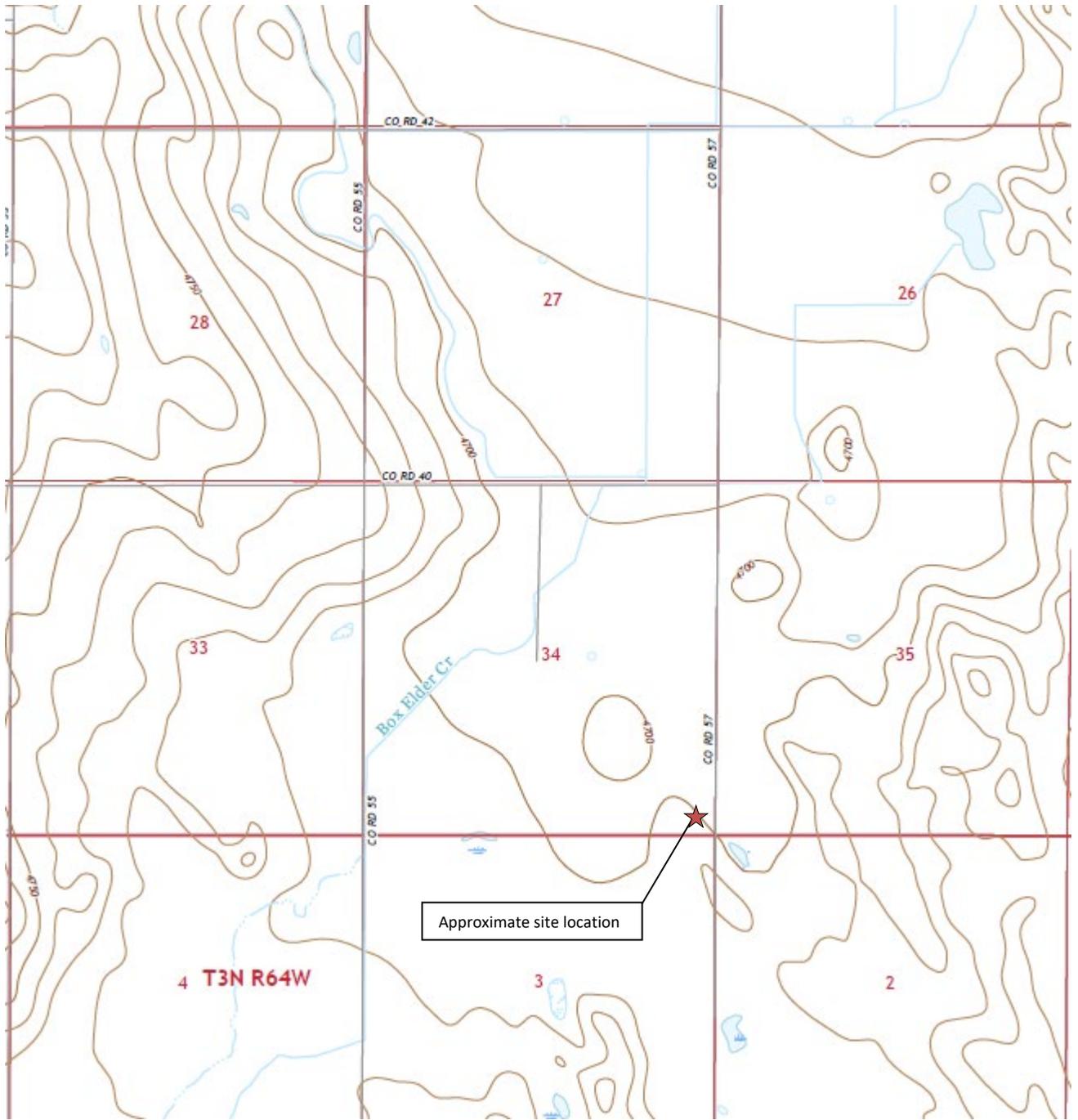


FIGURES

Figure 1: Topographic Site Location Map

Figure 2: Aerial Site Location Map

Figure 3: Soil Analytical Map



Topographic Site Location Map

Donovan D #02-30
 Closure Assessment
 40.262200 / -104.528330
 SE¼ SE¼ SEC.34 T4N R64W 6PM
 Weld County, Colorado
 API # 05-123-31847
 Remediation # 20148



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 CONSULTING, INC.

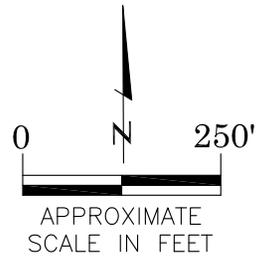
Source: USGS 7.5 Minute Topographic Map, Valley View School, CO Quadrangle 2019

Figure 1



LEGEND

- DONOVAN D #02-30 WELLHEAD (PLUGGED AND ABANDONED)
- ASSOCIATED SEPARATOR
- APPROXIMATE FLOWLINE LOCATION (REMOVED)
- APPROXIMATE FLOWLINE LOCATION (ABANDONED IN PLACE)

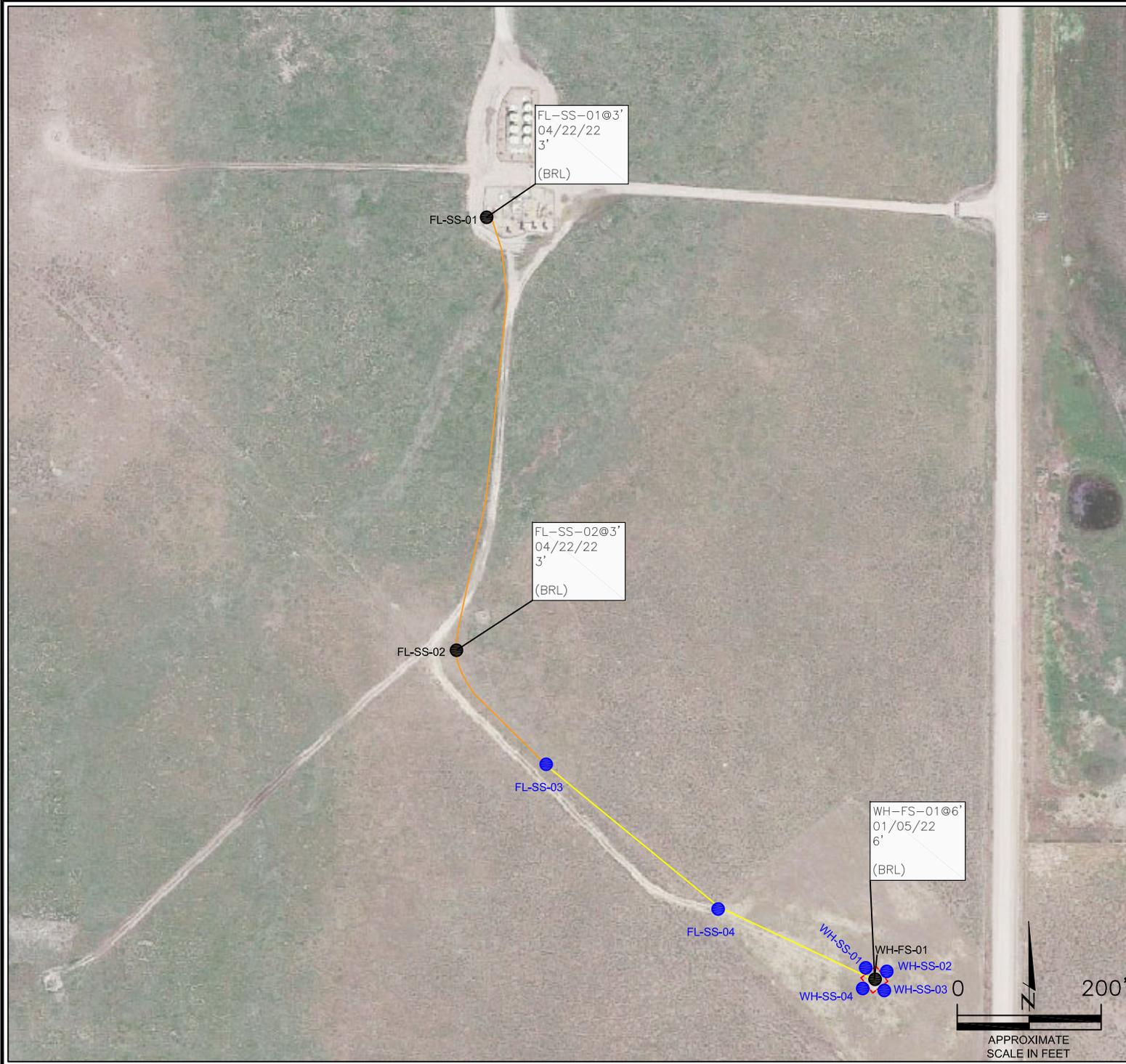


AERIAL SITE LOCATION MAP
 DONOVAN D #02-30
 CLOSURE ASSESSMENT
 40.262200 / -104.528330
 SE¼ SE¼ SEC.34 T4N R64W 6PM
 WELD COUNTY, COLORADO
 API # 05-123-31847
 REMEDIATION # 20148

DATE: 05/06/22	
FIG. NO. 2	DRAWN BY: RH



EAGLE
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 CONSULTING, INC.
 8000 W 44th Ave, Wheat Ridge, CO 80033
 Ph: 303-433-0479 • F: 303-325-5449



LEGEND

- WELLHEAD ASSESSMENT BOUNDARIES
- APPROXIMATE LOCATION OF SOIL SAMPLES FIELD SCREENED, ONLY, WITH PHOTOIONIZATION DETECTOR
- APPROXIMATE LOCATION OF SOIL SAMPLES SUBMITTED FOR LABORATORY ANALYSIS
- APPROXIMATE FLOWLINE LOCATION (REMOVED)
- APPROXIMATE FLOWLINE LOCATION (ABANDONED)

PARAMETERS

SAMPLE LOCATION	
DATE	
DEPTH (FEET)	
B = BENZENE (mg/kg)	
T = TOLUENE (mg/kg)	
E = ETHYLBENZENE (mg/kg)	
X = TOTAL XYLENES (mg/kg)	
G = TPH-GRO (mg/kg)	
D = TPH-DRO (mg/kg)	
R = TPH-RRO (mg/kg)	
1,2,4-TMB = 1,2,4 TRIMETHYLBENZENE (mg/kg)	
1,3,5-TMB = 1,3,5 TRIMETHYLBENZENE (mg/kg)	
Brn= BORON (mg/L)	
EC = SPECIFIC CONDUCTANCE (mmhos/cm)	
SAR= SODIUM ADSORPTION RATIO	
pH = pH (pH UNITS)	
POLYCYCLIC AROMATIC HYDROCARBONS (PAHs) (mg/kg)	

mg/kg = MILLIGRAMS PER KILOGRAM
 mg/L = MILLIGRAMS PER LITER
 mmhos/cm = MILLIMHOS PER CENTIMETER

(BRL) – ALL VALUES BELOW REGULATORY LIMITS

TPH-GRO = TOTAL PETROLEUM HYDROCARBONS – GASOLINE RANGE ORGANICS
 TPH-DRO = TOTAL PETROLEUM HYDROCARBONS – DIESEL RANGE ORGANICS
 TPH-RRO = TOTAL PETROLEUM HYDROCARBONS – RESIDUAL RANGE ORGANICS

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

VALUES PRESENTED IN **BOLD** EXCEED COGCC TABLE 915-1 REGULATORY LIMITS.

COGCC = COLORADO OIL AND GAS CONSERVATION COMMISSION

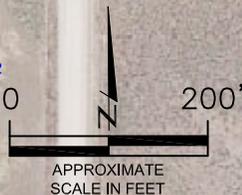
SOIL ANALYTICAL MAP
 DONOVAN D #02-30
 CLOSURE ASSESSMENT
 40.262200 / -104.528330
 SE¼ SE¼ SEC.34 T4N R64W 6PM
 WELD COUNTY, COLORADO
 API # 05-123-31847
 REMEDIATION # 20148

DATE:
05/06/22

DRAWN BY:
ER

FIG. NO. 3

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TABLES

Table 1: Photoionization Detector Reading Summary

Table 2: Soil Analytical Results Summary

Table 3: Polycyclic Aromatic Hydrocarbons Analytical Results Summary

**TABLE 1
 PHOTOIONIZATION DETECTOR READING SUMMARY
 DONOVAN D #02-30
 CLOSURE ASSESSMENT
 40.262200 / -104.528330
 SE1/4 SE1/4 SEC.34 T4N R64W 6PM
 WELD COUNTY, COLORADO
 API # 05-123-31847
 REMEDIATION # 20148**

Sample Location (Latitude/Longitude)	Date	Approximate Depth (feet)	PID Reading (ppm-v)	Lab Submission (Y/N)
WH-SS-01 @ 5' (40.262197 / -104.528357)	01/05/22	5	1.2	N
WH-SS-02 @ 5' (40.262191 / -104.528326)	01/05/22	5	2.6	N
WH-SS-03 @ 5' (40.262170 / -104.528326)	01/05/22	5	0.3	N
WH-SS-04 @ 5' (40.262171 / -104.528360)	01/05/22	5	0.9	N
WH-FS-01 @ 6' (40.262179 / -104.528343)	01/05/22	6	3.7	Y
FL-SS-01 @ 3' (40.265059 / -104.530236)	04/22/22	3	4.7	Y
FL-SS-02 @ 3' (40.263447 / -104.530370)	04/22/22	3	5.2	Y
FL-SS-03 @ 3' (40.263059 / -104.530040)	04/22/22	3	5.7	N
FL-SS-04 @ 3' (40.262444 / -104.529103)	04/22/22	3	4.5	N
(Y/N) = Yes or No ppm-v = parts per million by volume PID = photoionization detector				

TABLE 2
PAH ANALYTICAL RESULTS SUMMARY
DONOVAN D #02-30
CLOSURE ASSESSMENT
40.262200 / -104.528330
SE1/4 SE1/4 SEC.34 T4N R64W 6PM
WELD COUNTY, COLORADO
API # 05-123-31847
REMEDIAION # 20148

Sample Location (Latitude/Longitude)	Date	Approximate Depth (feet)	PID Reading (ppm-v)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	TPH-GRO (mg/kg)	TPH-DRO (mg/kg)	TPH-RRO (mg/kg)	1,2,4-TMB (mg/kg)	1,3,5-TMB (mg/kg)	Boron (mg/L)	Specific Conductance (mmhos/cm)	pH (pH units)	SAR
COGCC Table 915-1 Residential Screening Levels (mg/kg)				1.20	490	5.8	58	500			30	27	2	<4	6-8.3	<6
COGCC Table 915-1 Protection of Groundwater Soil Screening Levels				0.0026	0.69	0.78	9.9	--			0.0081	0.0087	--	--	--	--
WH-FS-01 @ 6' (40.262179 / -104.528343)	01/05/22	6	3.7	<0.00200	<0.00200	<0.00200	<0.00200	6.31	<25.0	<100	<0.00200	<0.00200	<0.199	0.909	7.96	2.91
FL-SS-01 @ 3' (40.265059 / -104.530236)	04/22/22	3	4.7	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	<0.00200	<0.00200	0.480	0.451	7.82	0.116
FL-SS-02 @ 3' (40.263447 / -104.530370)	04/22/22	3	5.2	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	<0.00200	<0.00200	1.02	0.751	7.47	0.347

COGCC = Colorado Oil and Gas Conservation Commission

mg/kg = milligrams per kilogram

mmhos/cm = millimhos per centimeter

PID = Photoionization Detector

ppm-v = parts per million by volume

mg/L = milligrams per liter

SAR = Sodium Adsorption Ratio

TPH-GRO = Total Petroleum Hydrocarbons - Gasoline Range Organics

TPH-DRO = Total Petroleum Hydrocarbons - Diesel Range Organics

TPH-RRO = Total Petroleum Hydrocarbons - Residual Range Organics

1,2,4-TMB = 1,2,4-Trimethylbenzene

1,3,5-TMB = 1,3,5-Trimethylbenzene

MDL = Minimum Detection Limits

Note: Values presented with a less than symbol (<) did not contain concentrations at or above the laboratory MDL and/or reporting limit.

Note: Values presented in **BOLD** contained concentrations exceeding COGCC Table 915-1 Regulatory Limits

TABLE 3
POLYCYCLIC AROMATIC HYDROCARBONS ANALYTICAL RESULTS SUMMARY
DONOVAN D #02-30
CLOSURE ASSESSMENT
40.262200 / -104.528330
SE1/4 SE1/4 SEC.34 T4N R64W 6PM
WELD COUNTY, COLORADO
API # 05-123-31847
REMEDIATION # 20148

Sample Location (Latitude/Longitude)	Date	Approximate Depth (feet)	PID Reading (ppm-v)	1-Methyl- naphthalene (mg/kg)	2-Methyl- naphthalene (mg/kg)	Acenaphthene (mg/kg)	Anthracene (mg/kg)	Benzo(a)-anthracene (mg/kg)	Benzo(a)- pyrene (mg/kg)	Benzo(b)- fluoranthene (mg/kg)	Benzo(k)- fluoranthene (mg/kg)	Chrysene (mg/kg)	Dibenzo(a,h)- anthracene (mg/kg)	Fluoranthene (mg/kg)	Fluorene (mg/kg)	Indeno(1,2,3- cd)-pyrene (mg/kg)	Naphthalene (mg/kg)	Pyrene (mg/kg)
COGCC Table 915-1 Residential Screening Levels				18	24	360	1,800	1.1	0.11	1.1	11	110	0.11	240	240	1.1	2	180
COGCC Table 915-1 Protection of Groundwater Soil Screening Levels				0.006	0.019	0.55	5.8	0.011	0.24	0.3	2.9	9	0.096	8.9	0.54	0.98	0.0038	1.3
WH-FS-01 @ 6' (40.262179 / -104.528343)	01/05/22	6	3.7	0.000534	0.00102	<0.00067	<0.00067	<0.00067	0.00069	0.000613	<0.00067	0.00101	<0.00067	0.000424	<0.00067	0.00086	<0.00067	<0.00067
FL-SS-01 @ 3' (40.265059 / -104.530236)	04/22/22	3	4.7	<0.00067	0.000682	<0.00067	<0.00067	<0.00067	0.000522	<0.00067	0.000497	<0.00067	<0.00067	0.00119	0.000592	<0.00067	0.00083	0.00101
FL-SS-02 @ 3' (40.263447 / -104.530370)	04/22/22	3	5.2	<0.00067	<0.00067	<0.00067	<0.00067	0.000811	0.00103	0.000922	0.00155	0.000923	0.00112	0.000973	<0.00067	0.00066	<0.00067	0.00101

COGCC = Colorado Oil and Gas Conservation Commission PID = Photoionization Detector
mg/kg = milligrams per kilogram ppm-v = parts per million by volume MDL - Minimum Detection Limit
Note: Values presented with a less than symbol (<) did not contain concentrations at or above the laboratory MDL and/or reporting limit.
Note: Values presented in **BOLD** contained concentrations exceeding COGCC Table 915-1 Regulatory Limits



ATTACHMENT A

Photo Log

Donovan D #02-30
API # 05-123-31847
Remediation # 20148

Closure Assessment

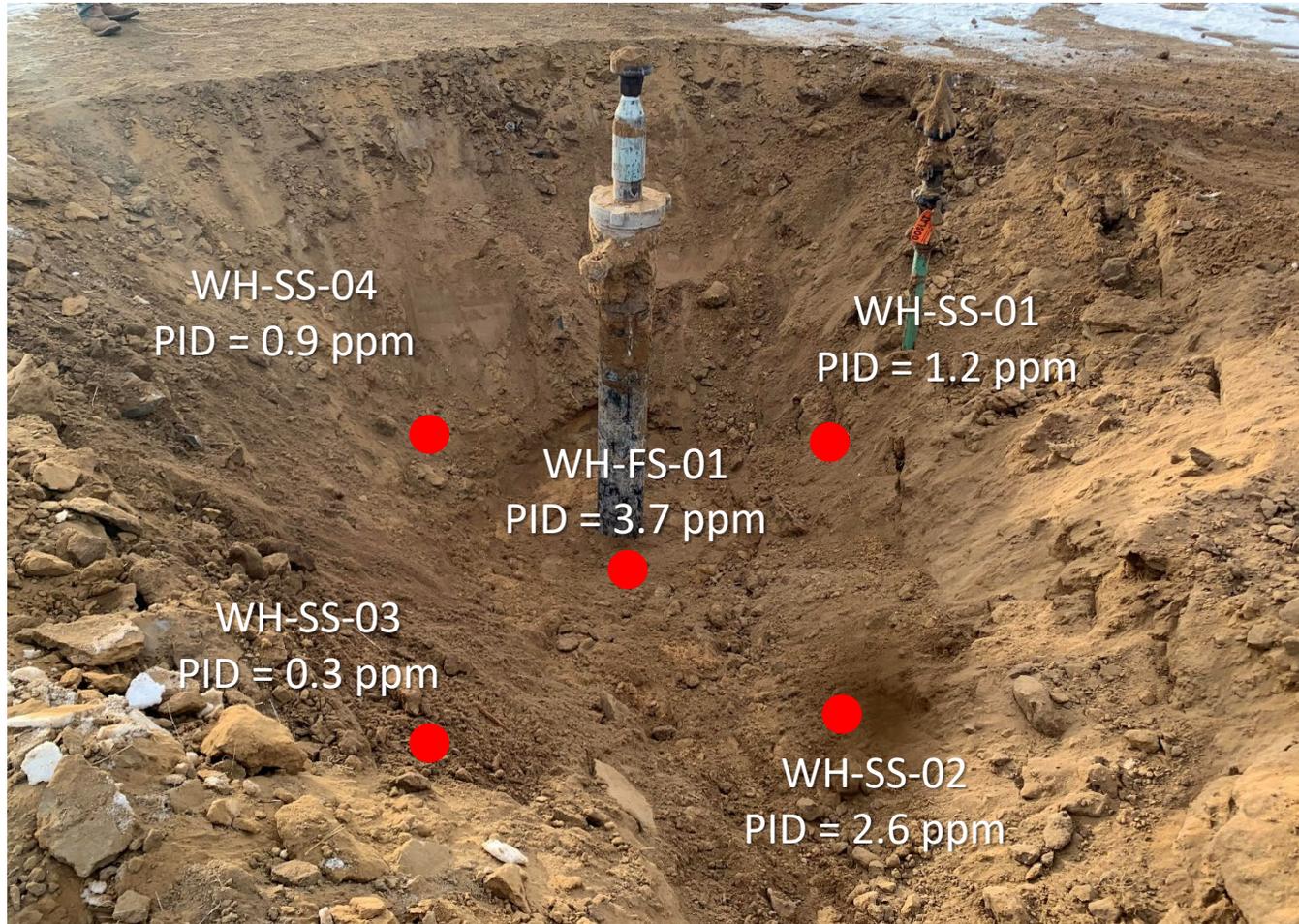
January- April 2022



EAGLE
ENVIRONMENTAL
CONSULTING, INC.
8000 W 44th Ave, Wheat Ridge, CO 80033
Ph: 303-433-0479 • F: 303-325-5449



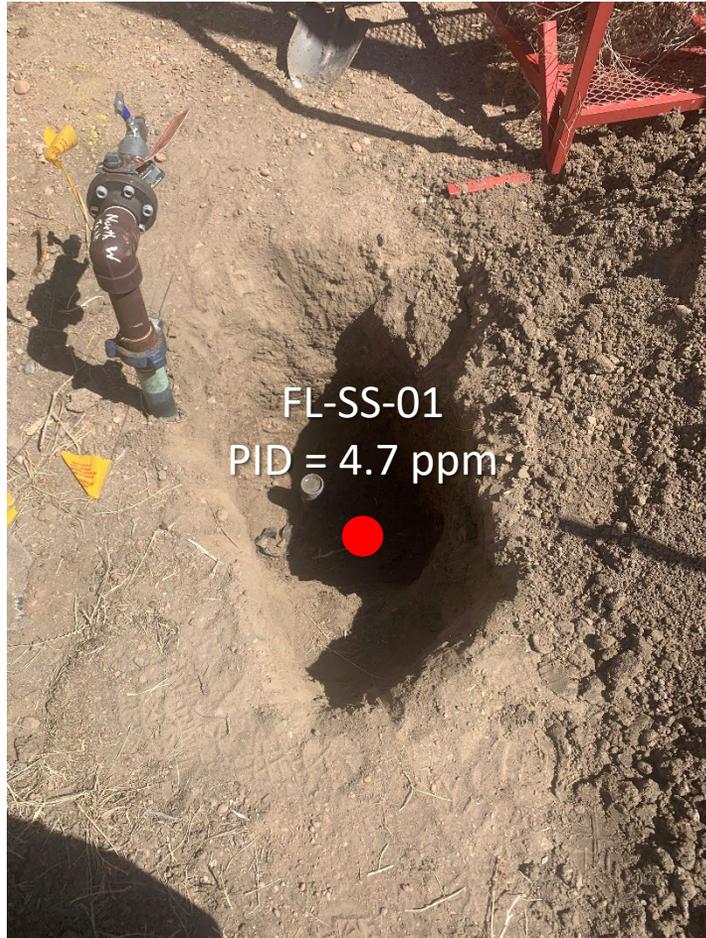
Wellhead Excavation – 01/05/22



Looking west

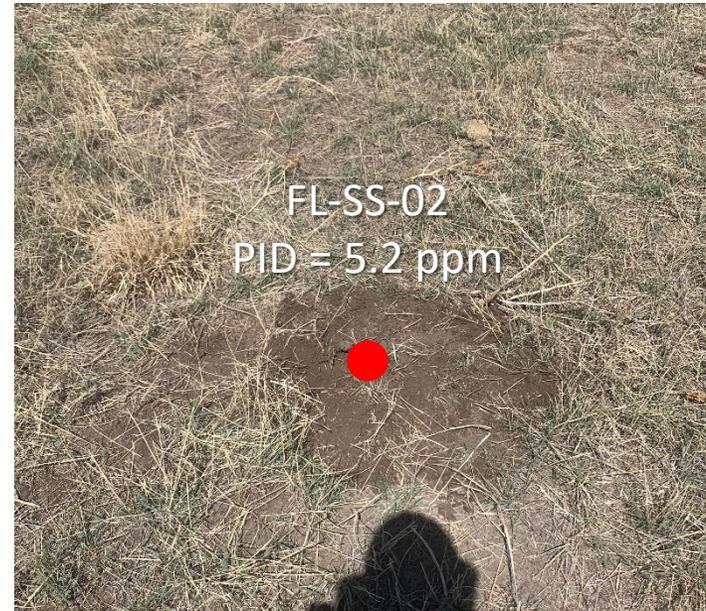
No petroleum hydrocarbon staining or odor observed

Flowline Decommission – 04/22/22



Looking north at flowline to separator connection

No petroleum hydrocarbon staining or odor observed



Looking north at flowline northwest→north change of direction

Sample collected via hand auger

No petroleum hydrocarbon staining or odor observed

Flowline Decommission – 04/22/22



Looking west at flowline cut point - flowline abandoned in placed from FL-SS-03 to FL-SS-01

No petroleum hydrocarbon staining or odor observed



Looking west at flowline cut point

No petroleum hydrocarbon staining or odor observed



ATTACHMENT B

Laboratory Analytical Reports



January 13, 2022

Eagle Environmental Consulting, Inc.

Martin C Eckert III

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - Noble - Donovan D #02-30

Project Number - -

Attached are your analytical results for Noble - Donovan D #02-30 received by Origins Laboratory, Inc. January 05, 2022. This project is associated with Origins project number Y201074-01.

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.
8000 W 44th Ave
Wheat Ridge CO 80033

Martin C Eckert III
Project Number: -
Project: Noble - Donovan D #02-30

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
WH-FS-01@6'	Y201074-01	Soil	January 5, 2022 8:30	01/05/2022 15:22

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.
 8000 W 44th Ave
 Wheat Ridge CO 80033

Martin C Eckert III
 Project Number: -
 Project: Noble - Donovan D #02-30

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: 4201074

Client: Eagle

Client Project ID: Donovan 2-30

Checklist Completed by: JAH

Shipped Via: HD

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

Date/time completed: 1/5/12

Airbill #: KA

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

Cooler Number/Temperature: 1 / 1.4 °C / _____ °C / _____ °C (Describe) _____ °C

Thermometer ID: 1003

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

⁽¹⁾If NO, then contact the client before proceeding with analysis and note date/time and person contacted as well as the corrective action to in the additional comments (above) and the case narrative.

Reviewed by (Project Manager) JAH

Date/Time Reviewed 1-6-12

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.
 8000 W 44th Ave
 Wheat Ridge CO 80033

Martin C Eckert III
 Project Number: -
 Project: Noble - Donovan D #02-30

WH-FS-01@6'

1/5/2022 8:30:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y201074-01 (Soil)

Boron (DTPA Sorbitol)

Boron	ND		0.199	mg/L	1	B2A0612	01/06/2022	01/07/2022	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B2A0502	01/05/2022	01/12/2022	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	75.9 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B2A0603	01/06/2022	01/06/2022	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	6.31		0.200	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	91.3 %		70-130			"	"	"	
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Origins Laboratory, Inc.



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Eagle Environmental Consulting, Inc.
 8000 W 44th Ave
 Wheat Ridge CO 80033

Martin C Eckert III
 Project Number: -
 Project: Noble - Donovan D #02-30

WH-FS-01@6'
1/5/2022 8:30:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y201074-01 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	99.3 %		70-130			B2A06 03	01/06/2022	01/06/2022	
Surrogate: 4-Bromofluorobenzene	102 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	2.22		0.499	meq/L	10	[CALC]	01/06/2022	01/07/2022	
Magnesium	0.856		0.823	"	"	"	"	"	
Sodium	3.60		0.435	"	"	"	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	0.000534	0.00033	0.00067	mg/Kg	1	L593737	01/10/2022	01/10/2022	J
2-Methylnaphthalene	0.00102	0.00039	0.00067	"	"	"	"	"	
Acenaphthene	ND	0.0003	0.00067	"	"	"	"	"	
Anthracene	ND	0.00033	0.00067	"	"	"	"	"	
Benzo(a)anthracene	ND	0.00041	0.00067	"	"	"	"	"	
Benzo(a)pyrene	0.00069	0.00024	0.00067	"	"	"	"	"	B
Benzo(b)fluoranthene	0.000613	0.00021	0.00067	"	"	"	"	"	JB
Benzo(k)fluoranthene	ND	0.00013	0.00067	"	"	"	"	"	
Chrysene	0.00101	0.00027	0.00067	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.00036	0.00067	"	"	"	"	"	
Fluoranthene	0.000424	0.00039	0.00067	"	"	"	"	"	J
Fluorene	ND	0.00029	0.00067	"	"	"	"	"	

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Eagle Environmental Consulting, Inc.
 8000 W 44th Ave
 Wheat Ridge CO 80033

Martin C Eckert III
 Project Number: -
 Project: Noble - Donovan D #02-30

WH-FS-01@6'

1/5/2022 8:30:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y201074-01 (Soil)

PAH by 8270D SIM

Indeno(1,2,3-cd)pyrene	0.00086	0.00029	0.00067	mg/Kg	1	L593737	01/10/2022	01/10/2022	B
Naphthalene	ND	0.000467	0.00067	"	"	"	"	"	
Pyrene	ND	0.00059	0.00067	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	61.5 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	58.7 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	43.4 %		29-110			"	"	"	

pH in Soil by 9045D

pH	7.96			pH Units	1	B2A0616	01/06/2022	01/07/2022	
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SAR by 20B Saturated Paste

SAR	2.91			SAR	1	B2A0609	01/06/2022	01/07/2022	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.909		0.00500	mmhos/cm	1	B2A0615	01/06/2022	01/07/2022	
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Origins Laboratory, Inc.



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Eagle Environmental Consulting, Inc.
 8000 W 44th Ave
 Wheat Ridge CO 80033

Martin C Eckert III
 Project Number: -
 Project: Noble - Donovan D #02-30

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B2A0502 - EPA 3580										
Blank (B2A0502-BLK1)										
					Prepared: 01/05/2022 Analyzed: 01/05/2022					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	27		"	24.9		107	50-150			

Origins Laboratory, Inc.



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Jordan A. Merrill, Project Manager

Eagle Environmental Consulting, Inc.
 8000 W 44th Ave
 Wheat Ridge CO 80033

Martin C Eckert III
 Project Number: -
 Project: Noble - Donovan D #02-30

Extractable Petroleum Hydrocarbons by 8015D - 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 B2A0502 - EPA 3580

LCS (B2A0502-BS1)

Prepared: 01/05/2022 Analyzed: 01/05/2022

Diesel (C10-C28)	940	50.0	mg/kg	1000		94.0	70-130			
Residual Range Organics (C28-C40)	955	200	"	1000		95.5	70-130			
Surrogate: o-Terphenyl	61		"	49.8		122	50-150			

Origins Laboratory, Inc.



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Eagle Environmental Consulting, Inc.
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 Wheat Ridge CO 80033

Martin C Eckert III
 Project Number: -
 Project: Noble - Donovan D #02-30

Extractable Petroleum Hydrocarbons by 8015D - 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 B2A0502 - EPA 3580

Matrix Spike (B2A0502-MS1)	Source: Y201052-01			Prepared: 01/05/2022 Analyzed: 01/05/2022						
Diesel (C10-C28)	934	50.0	mg/kg	1000	ND	93.4	70-130			
Residual Range Organics (C28-C40)	957	200	"	1000	ND	95.7	70-130			
Surrogate: o-Terphenyl	52		"	49.8		105	50-150			

Origins Laboratory, Inc.



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Eagle Environmental Consulting, Inc.
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 Wheat Ridge CO 80033

Martin C Eckert III
 Project Number: -
 Project: Noble - Donovan D #02-30

Extractable Petroleum Hydrocarbons by 8015D - 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 B2A0502 - EPA 3580

Matrix Spike Dup (B2A0502-MSD1)	Source: Y201052-01			Prepared: 01/05/2022 Analyzed: 01/05/2022						
Diesel (C10-C28)	926	50.0	mg/kg	1000	ND	92.6	70-130	0.837	35	
Residual Range Organics (C28-C40)	942	200	"	1000	ND	94.2	70-130	1.54	35	
Surrogate: o-Terphenyl	53		"	49.8		107	50-150			

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Eagle Environmental Consulting, Inc.
 8000 W 44th Ave
 Wheat Ridge CO 80033

Martin C Eckert III
 Project Number: -
 Project: Noble - Donovan D #02-30

Extractable Petroleum Hydrocarbons by 8015D - 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 B2A0603 - EPA 5030 (soil)

Blank (B2A0603-BLK1)

Prepared: 01/06/2022 Analyzed: 01/06/2022

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							U
Naphthalene	ND	0.0100	"							U
1,3,5-Trimethylbenzene	ND	0.00200	"							U
Benzene	ND	0.00200	"							U
Ethylbenzene	ND	0.00200	"							U
Toluene	ND	0.00200	"							U
Xylenes, total	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.10		"	0.125	82.0		70-130			
Surrogate: Toluene-d8	0.12		"	0.125	99.3		70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125	94.8		70-130			

Origins Laboratory, Inc.



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Martin C Eckert III
 Project Number: -
 Project: Noble - Donovan D #02-30

Volatile Organic Compounds by GC/MS SW846 8260D - 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 B2A0603 - EPA 5030 (soil)

LCS (B2A0603-BS1)

Prepared: 01/06/2022 Analyzed: 01/06/2022

1,2,4-Trimethylbenzene	0.105	0.00200	mg/kg	0.100		105	70-130			
Naphthalene	0.0954	0.0100	"	0.100		95.4	70-130			
1,3,5-Trimethylbenzene	0.105	0.00200	"	0.100		105	70-130			
Benzene	0.0964	0.00200	"	0.100		96.4	70-130			
Ethylbenzene	0.0990	0.00200	"	0.100		99.0	70-130			
m,p-Xylene	0.201	0.00400	"	0.200		101	70-130			
o-Xylene	0.102	0.00200	"	0.100		102	70-130			
Toluene	0.0995	0.00200	"	0.100		99.5	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.099		"	0.125		78.9	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.1	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		97.9	70-130			

Origins Laboratory, Inc.



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Eagle Environmental Consulting, Inc.
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 Wheat Ridge CO 80033

Martin C Eckert III
 Project Number: -
 Project: Noble - Donovan D #02-30

Volatile Organic Compounds by GC/MS SW846 8260D - 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 B2A0603 - EPA 5030 (soil)

Matrix Spike (B2A0603-MS1)	Source: Y201082-01			Prepared: 01/06/2022 Analyzed: 01/06/2022						
1,2,4-Trimethylbenzene	0.0898	0.00200	mg/kg	0.100	0.000920	88.9	70-130			
Naphthalene	0.0832	0.0100	"	0.100	0.00312	80.0	70-130			
1,3,5-Trimethylbenzene	0.0902	0.00200	"	0.100	0.000860	89.4	70-130			
Benzene	0.0853	0.00200	"	0.100	0.00184	83.4	70-130			
Ethylbenzene	0.0839	0.00200	"	0.100	0.000740	83.2	70-130			
m,p-Xylene	0.171	0.00400	"	0.200	0.00140	84.9	70-130			
o-Xylene	0.0878	0.00200	"	0.100	0.000880	86.9	70-130			
Toluene	0.0859	0.00200	"	0.100	ND	85.9	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125		87.5	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		97.7	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		98.8	70-130			

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 8000 W 44th Ave
 Wheat Ridge CO 80033

Martin C Eckert III
 Project Number: -
 Project: Noble - Donovan D #02-30

Volatile Organic Compounds by GC/MS SW846 8260D - 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 B2A0603 - EPA 5030 (soil)

Matrix Spike Dup (B2A0603-MSD1)	Source: Y201082-01			Prepared: 01/06/2022 Analyzed: 01/06/2022						
1,2,4-Trimethylbenzene	0.0886	0.00200	mg/kg	0.100	0.000920	87.6	70-130	1.37	20	
Naphthalene	0.0856	0.0100	"	0.100	0.00312	82.5	70-130	2.89	20	
1,3,5-Trimethylbenzene	0.0885	0.00200	"	0.100	0.000860	87.6	70-130	1.97	20	
Benzene	0.0845	0.00200	"	0.100	0.00184	82.7	70-130	0.872	20	
Ethylbenzene	0.0825	0.00200	"	0.100	0.000740	81.7	70-130	1.78	20	
m,p-Xylene	0.167	0.00400	"	0.200	0.00140	82.9	70-130	2.29	20	
o-Xylene	0.0860	0.00200	"	0.100	0.000880	85.1	70-130	2.05	20	
Toluene	0.0846	0.00200	"	0.100	ND	84.6	70-130	1.43	20	
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125		88.1	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.2	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		98.7	70-130			

Origins Laboratory, Inc.



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Eagle Environmental Consulting, Inc.
 8000 W 44th Ave
 Wheat Ridge CO 80033

Martin C Eckert III
 Project Number: -
 Project: Noble - Donovan D #02-30

Volatile Organic Compounds by GC/MS SW846 8260D - 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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Saturated Paste - 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 B2A0615 - NO PREP

Blank (B2A0615-BLK1)

Prepared: 01/06/2022 Analyzed: 01/07/2022

Specific Conductance (EC) 0.000900 0.00500 mmhos/cm

Duplicate (B2A0615-DUP1)

Source: Y201046-05

Prepared: 01/06/2022 Analyzed: 01/07/2022

Specific Conductance (EC) 4.31 0.00500 mmhos/cm

3.79

13.0

25

Batch B2A0616 - NO PREP

Duplicate (B2A0616-DUP1)

Source: Y201076-01

Prepared: 01/06/2022 Analyzed: 01/07/2022

pH 7.05 pH Units

7.32

3.76

25

Origins Laboratory, Inc.



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 8000 W 44th Ave
 Wheat Ridge CO 80033

Martin C Eckert III
 Project Number: -
 Project: Noble - Donovan D #02-30

PAH by 8270D SIM - Quality Control
Waypoint Analytical, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L593737 - 3550B

MSD (L 88905-MSD-L593737)		Source: 88905			Prepared: 01/10/2022 Analyzed: 01/10/2022					
1-Methylnaphthalene	0.142	0.00033	mg/Kg	0.164	<0.000330	86.5	30-130	2.8	30	
Benzo(a)anthracene	0.134	0.00041	"	0.164	<0.000410	81.7	30-130	0.7	30	
Anthracene	0.131	0.00033	"	0.164	<0.000330	79.8	30-130	2.3	30	
Acenaphthene	0.13	0.0003	"	0.164	<0.000300	79.2	30-130	3.9	30	
Chrysene	0.0661	0.00027	"	0.164	0.000531	40.3	30-130	1.5	30	
2-Methylnaphthalene	0.141	0.00039	"	0.164	<0.000390	85.9	30-130	2.8	30	
Pyrene	0.13	0.00059	"	0.164	<0.000590	79.2	30-130	2.3	30	
Benzo(b)fluoranthene	0.126	0.00021	"	0.164	0.000589	76.8	30-130	1.6	30	
Naphthalene	0.133	0.000467	"	0.164	<0.000467	81	30-130	14.5	30	
Indeno(1,2,3-cd)pyrene	0.129	0.00029	"	0.164	0.000991	78	30-130	5.5	30	
Fluorene	0.127	0.00029	"	0.164	<0.000290	77.4	30-130	3.2	30	
Fluoranthene	0.136	0.00039	"	0.164	<0.000390	82.9	30-130	2.9	30	
Dibenz(a,h)anthracene	0.143	0.00036	"	0.164	<0.000360	87.1	30-130	1.4	30	
Benzo(k)fluoranthene	0.132	0.00013	"	0.164	0.000263	80.4	30-130	2.2	30	
Benzo(a)pyrene	0.156	0.00024	"	0.164	0.000937	94.5	30-130	6.6	30	
Surrogate: 4-Terphenyl-d14	58.3		"	0.329	227	58.3	33-122			
Surrogate: 2-Fluorobiphenyl	59.8		"	0.329	239	59.8	33-115			
Surrogate: Nitrobenzene-d5	49.2		"	0.329	187	49.2	29-110			

MS (L 88905-MS-L593737)		Source: 88905			Prepared: 01/10/2022 Analyzed: 01/10/2022					
Benzo(b)fluoranthene	0.124	0.00021	mg/Kg	0.166	0.000589	74.6	30-130			
Dibenz(a,h)anthracene	0.141	0.00036	"	0.166	<0.000360	84.9	30-130			
Pyrene	0.127	0.00059	"	0.166	<0.000590	76.5	30-130			
Naphthalene	0.115	0.000467	"	0.166	<0.000467	69.2	30-130			
Indeno(1,2,3-cd)pyrene	0.122	0.00029	"	0.166	0.000991	72.8	30-130			
Fluorene	0.123	0.00029	"	0.166	<0.000290	74	30-130			
Fluoranthene	0.132	0.00039	"	0.166	<0.000390	79.5	30-130			

Origins Laboratory, Inc.



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Eagle Environmental Consulting, Inc.
 8000 W 44th Ave
 Wheat Ridge CO 80033

Martin C Eckert III
 Project Number: -
 Project: Noble - Donovan D #02-30

PAH by 8270D SIM - Quality Control
Waypoint Analytical, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L593737 - 3550B

MS (L 88905-MS-L593737)	Source: 88905		Prepared: 01/10/2022 Analyzed: 01/10/2022							
2-Methylnaphthalene	0.137	0.00039	mg/Kg	0.166	<0.000390	82.5	30-130			
Benzo(a)pyrene	0.146	0.00024	"	0.166	0.000937	87.3	30-130			
Benzo(a)anthracene	0.133	0.00041	"	0.166	<0.000410	80.1	30-130			
Anthracene	0.128	0.00033	"	0.166	<0.000330	77.1	30-130			
Acenaphthene	0.125	0.0003	"	0.166	<0.000300	75.3	30-130			
Benzo(k)fluoranthene	0.129	0.00013	"	0.166	0.000263	77.7	30-130			
1-Methylnaphthalene	0.138	0.00033	"	0.166	<0.000330	83.1	30-130			
Chrysene	0.0671	0.00027	"	0.166	0.000531	40.4	30-130			
Surrogate: Nitrobenzene-d5	56.3		"	0.332	181	56.3	29-110			
Surrogate: 4-Terphenyl-d14	63.2		"	0.332	221	63.2	33-122			
Surrogate: 2-Fluorobiphenyl	66.8		"	0.332	239	66.8	33-115			

LCS (LCS-L593737)	Prepared: 01/10/2022 Analyzed: 01/10/2022									
Dibenz(a,h)anthracene	0.147	0.00036	mg/Kg	0.167		88	30-130			
Fluoranthene	0.13	0.00039	"	0.167		77.8	30-130			
Fluorene	0.123	0.00029	"	0.167		73.6	30-130			
Indeno(1,2,3-cd)pyrene	0.13	0.00029	"	0.167		77.8	30-130			
Naphthalene	0.114	0.000467	"	0.167		68.2	30-130			
Pyrene	0.125	0.00059	"	0.167		74.8	30-130			
Acenaphthene	0.124	0.0003	"	0.167		74.2	30-130			
Chrysene	0.13	0.00027	"	0.167		77.8	30-130			
Benzo(b)fluoranthene	0.115	0.00021	"	0.167		68.8	30-130			
Benzo(a)pyrene	0.155	0.00024	"	0.167		92.8	30-130			
Anthracene	0.126	0.00033	"	0.167		75.4	30-130			
2-Methylnaphthalene	0.135	0.00039	"	0.167		80.8	30-130			
1-Methylnaphthalene	0.136	0.00033	"	0.167		81.4	30-130			
Benzo(a)anthracene	0.133	0.00041	"	0.167		79.6	30-130			

Origins Laboratory, Inc.



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Eagle Environmental Consulting, Inc.
 8000 W 44th Ave
 Wheat Ridge CO 80033

Martin C Eckert III
 Project Number: -
 Project: Noble - Donovan D #02-30

PAH by 8270D SIM - Quality Control
Waypoint Analytical, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L593737 - 3550B

LCS (LCS-L593737)

Prepared: 01/10/2022 Analyzed: 01/10/2022

Benzo(k)fluoranthene	0.143	0.00013	mg/Kg	0.167		85.6	30-130			
Surrogate: Nitrobenzene-d5	57.6		"	0.333		57.6	29-110			
Surrogate: 4-Terphenyl-d14	63.9		"	0.333		63.9	33-122			
Surrogate: 2-Fluorobiphenyl	67.8		"	0.333		67.8	33-115			

LRB (LRB-L593737)

Prepared: 01/10/2022 Analyzed: 01/10/2022

Pyrene	ND	0.00067	mg/Kg				-			
Dibenz(a,h)anthracene	0.000461	0.00067	"				-			J
Fluoranthene	ND	0.00067	"				-			
Fluorene	ND	0.00067	"				-			
Indeno(1,2,3-cd)pyrene	0.000585	0.00067	"				-			J
Chrysene	ND	0.00067	"				-			
Acenaphthene	ND	0.00067	"				-			
Naphthalene	ND	0.00067	"				-			
Benzo(k)fluoranthene	ND	0.00067	"				-			
Benzo(b)fluoranthene	0.000381	0.00067	"				-			J
Benzo(a)pyrene	0.000468	0.00067	"				-			J
Anthracene	ND	0.00067	"				-			
2-Methylnaphthalene	ND	0.00067	"				-			
1-Methylnaphthalene	ND	0.00067	"				-			
Benzo(a)anthracene	ND	0.00067	"				-			
Surrogate: Nitrobenzene-d5	84.9		"	0.333		84.9	29-110			
Surrogate: 4-Terphenyl-d14	120		"	0.333		120	33-122			
Surrogate: 2-Fluorobiphenyl	119		"	0.333		119	33-115			*

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.
8000 W 44th Ave
Wheat Ridge CO 80033

Martin C Eckert III
Project Number: -
Project: Noble - Donovan D #02-30

Notes and Definitions

- U Sample is Non-Detect.
- JB [Undefined]
- J Estimated Value. Analyte below reported quantitation limit.
- B Analyte detected in associated method blank.
- * QC Failure
- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference

All soil results are reported on 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.



May 03, 2022

Eagle Environmental Consulting, Inc.

Martin C Eckert III

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - Noble - Donovan D #02-30

Project Number - -

Attached are your analytical results for Noble - Donovan D #02-30 received by Origins Laboratory, Inc. April 22, 2022. This project is associated with Origins project number Y204540-01.

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.
8000 W 44th Ave
Wheat Ridge CO 80033

Martin C Eckert III
Project Number: -
Project: Noble - Donovan D #02-30

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
FL-SS-01@3'	Y204540-01	Soil	April 22, 2022 11:07	04/22/2022 14:15
FL-SS-02@3'	Y204540-02	Soil	April 22, 2022 12:30	04/22/2022 14:15

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Eagle Environmental Consulting, Inc.
 8000 W 44th Ave
 Wheat Ridge CO 80033

Martin C Eckert III
 Project Number: -
 Project: Noble - Donovan D #02-30

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

Sample Receipt Checklist

Origins Work Order: Y204540 Client: Eagle
 Client Project ID: Donovan D 02-30

Checklist Completed by: SG Shipped Via: HD
 Date/time completed: 4/25/22 (UPS, FedEx, Hand Delivered, Pick-up, etc.)
 Airbill #: N/A

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

Cooler Number/Temperature: 1 / 0.6 °C / _____ °C / _____ °C / _____ °C (Describe)

Thermometer ID: T004

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)	/			
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 Na ₂ CO ₃ -NaOH, ZnAc ₂ -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.

Reviewed by JB (Project Manager) Date/Time Reviewed 4-26-22

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.
 8000 W 44th Ave
 Wheat Ridge CO 80033

Martin C Eckert III
 Project Number: -
 Project: Noble - Donovan D #02-30

FL-SS-01@3'

4/22/2022 11:07:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y204540-01 (Soil)

Boron (DTPA Sorbitol)

Boron	0.480		0.100	mg/L	1	B2D2517	04/25/2022	04/26/2022	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B2D2602	04/26/2022	04/28/2022	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	83.4 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B2D2525	04/25/2022	04/26/2022	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	104 %		70-130			"	"	"	
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Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Eagle Environmental Consulting, Inc.
 8000 W 44th Ave
 Wheat Ridge CO 80033

Martin C Eckert III
 Project Number: -
 Project: Noble - Donovan D #02-30

FL-SS-01@3'

4/22/2022 11:07:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y204540-01 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	102 %		70-130			B2D25 25	04/25/2022	04/26/2022	
Surrogate: 4-Bromofluorobenzene	95.9 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	3.10		0.499	meq/L	10	[CALC]	04/26/2022	04/27/2022	
Magnesium	0.938		0.823	"	"	"	"	"	
Sodium	ND		0.435	"	"	"	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.000364	0.00067	mg/Kg	1	L612949	04/27/2022	04/28/2022	
2-Methylnaphthalene	0.000682	0.000645	0.00067	"	"	"	"	"	
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"	
Anthracene	ND	0.000334	0.00067	"	"	"	"	"	
Benzo(a)anthracene	ND	0.000493	0.00067	"	"	"	"	"	
Benzo(a)pyrene	0.000522	0.000468	0.00067	"	"	"	"	"	J
Benzo(b)fluoranthene	ND	0.000585	0.00067	"	"	"	"	"	
Benzo(k)fluoranthene	0.000497	0.000437	0.00067	"	"	"	"	"	J
Chrysene	ND	0.000624	0.00067	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"	
Fluoranthene	0.00119	0.000394	0.00067	"	"	"	"	"	
Fluorene	0.000592	0.000286	0.00067	"	"	"	"	"	J

Origins Laboratory, Inc.



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Eagle Environmental Consulting, Inc.
 8000 W 44th Ave
 Wheat Ridge CO 80033

Martin C Eckert III
 Project Number: -
 Project: Noble - Donovan D #02-30

FL-SS-01@3'

4/22/2022 11:07:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y204540-01 (Soil)

PAH by 8270D SIM

Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	mg/Kg	1	L612949	04/27/2022	04/28/2022	
Naphthalene	0.00083	0.000484	0.00067	"	"	"	"	"	
Pyrene	0.00101	0.000643	0.00067	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	48.5 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	62.7 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	55.5 %		29-110			"	"	"	

pH in Soil by 9045D

pH	7.82			pH Units	1	B2D2606	04/26/2022	04/27/2022	
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SAR by 20B Saturated Paste

SAR	0.116			SAR	1	B2D2604	04/26/2022	04/27/2022	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.451		0.00500	mmhos/cm	1	B2D2607	04/26/2022	04/27/2022	
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Origins Laboratory, Inc.



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Eagle Environmental Consulting, Inc.
 8000 W 44th Ave
 Wheat Ridge CO 80033

Martin C Eckert III
 Project Number: -
 Project: Noble - Donovan D #02-30

FL-SS-02@3'

4/22/2022 12:30:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y204540-02 (Soil)

Boron (DTPA Sorbitol)

Boron	1.02		0.100	mg/L	1	B2D2605	04/26/2022	04/27/2022	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B2D2602	04/26/2022	04/28/2022	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	57.5 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B2D2525	04/25/2022	04/26/2022	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	109 %		70-130			"	"	"	
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Origins Laboratory, Inc.



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Eagle Environmental Consulting, Inc.
 8000 W 44th Ave
 Wheat Ridge CO 80033

Martin C Eckert III
 Project Number: -
 Project: Noble - Donovan D #02-30

FL-SS-02@3'

4/22/2022 12:30:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y204540-02 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	102 %		70-130			B2D25 25	04/25/2022	04/26/2022	
Surrogate: 4-Bromofluorobenzene	97.2 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	4.42		0.499	meq/L	10	[CALC]	04/26/2022	04/27/2022	
Magnesium	1.67		0.823	"	"	"	"	"	
Sodium	0.605		0.435	"	"	"	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.000364	0.00067	mg/Kg	1	L612949	04/27/2022	04/28/2022	
2-Methylnaphthalene	ND	0.000645	0.00067	"	"	"	"	"	
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"	
Anthracene	ND	0.000334	0.00067	"	"	"	"	"	
Benzo(a)anthracene	0.000811	0.000493	0.00067	"	"	"	"	"	
Benzo(a)pyrene	0.00103	0.000468	0.00067	"	"	"	"	"	
Benzo(b)fluoranthene	0.000922	0.000585	0.00067	"	"	"	"	"	
Benzo(k)fluoranthene	0.00155	0.000437	0.00067	"	"	"	"	"	
Chrysene	0.000923	0.000624	0.00067	"	"	"	"	"	
Dibenz(a,h)anthracene	0.00112	0.000614	0.00067	"	"	"	"	"	
Fluoranthene	0.000973	0.000394	0.00067	"	"	"	"	"	
Fluorene	ND	0.000286	0.00067	"	"	"	"	"	

Origins Laboratory, Inc.



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Eagle Environmental Consulting, Inc.
 8000 W 44th Ave
 Wheat Ridge CO 80033

Martin C Eckert III
 Project Number: -
 Project: Noble - Donovan D #02-30

FL-SS-02@3'

4/22/2022 12:30:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y204540-02 (Soil)

PAH by 8270D SIM

Indeno(1,2,3-cd)pyrene	0.00066	0.000627	0.00067	mg/Kg	1	L612949	04/27/2022	04/28/2022	J
Naphthalene	ND	0.000484	0.00067	"	"	"	"	"	
Pyrene	0.00101	0.000643	0.00067	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	45.8 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	57.2 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	52.1 %		29-110			"	"	"	

pH in Soil by 9045D

pH	7.47			pH Units	1	B2D2606	04/26/2022	04/27/2022	
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SAR by 20B Saturated Paste

SAR	0.347			SAR	1	B2D2604	04/26/2022	04/27/2022	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.751		0.00500	mmhos/cm	1	B2D2607	04/26/2022	04/27/2022	
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Origins Laboratory, Inc.



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Eagle Environmental Consulting, Inc.
 8000 W 44th Ave
 Wheat Ridge CO 80033

Martin C Eckert III
 Project Number: -
 Project: Noble - Donovan D #02-30

Volatile Organic Compounds by GC/MS SW846 8260D - 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 B2D2525 - EPA 5030 (soil)

Blank (B2D2525-BLK1)

Prepared: 04/25/2022 Analyzed: 04/26/2022

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							U
1,3,5-Trimethylbenzene	ND	0.00200	"							U
Benzene	ND	0.00200	"							U
Ethylbenzene	ND	0.00200	"							U
Naphthalene	ND	0.0100	"							U
Toluene	ND	0.00200	"							U
Xylenes, total	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125	101		70-130			
Surrogate: Toluene-d8	0.13		"	0.125	103		70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125	93.5		70-130			

Origins Laboratory, Inc.



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Eagle Environmental Consulting, Inc.
 8000 W 44th Ave
 Wheat Ridge CO 80033

Martin C Eckert III
 Project Number: -
 Project: Noble - Donovan D #02-30

Volatile Organic Compounds by GC/MS SW846 8260D - 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 B2D2525 - EPA 5030 (soil)

LCS (B2D2525-BS1)

Prepared: 04/25/2022 Analyzed: 04/26/2022

1,2,4-Trimethylbenzene	0.104	0.00200	mg/kg	0.100		104	70-130			
1,3,5-Trimethylbenzene	0.103	0.00200	"	0.100		103	70-130			
Benzene	0.103	0.00200	"	0.100		103	70-130			
Ethylbenzene	0.102	0.00200	"	0.100		102	70-130			
Naphthalene	0.102	0.0100	"	0.100		102	70-130			
Toluene	0.114	0.00200	"	0.100		114	70-130			
o-Xylene	0.102	0.00200	"	0.100		102	70-130			
m,p-Xylene	0.205	0.00400	"	0.200		103	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		101	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		99.2	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		100	70-130			

Origins Laboratory, Inc.



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Eagle Environmental Consulting, Inc.
 8000 W 44th Ave
 Wheat Ridge CO 80033

Martin C Eckert III
 Project Number: -
 Project: Noble - Donovan D #02-30

Volatile Organic Compounds by GC/MS SW846 8260D - 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 B2D2525 - EPA 5030 (soil)

Matrix Spike (B2D2525-MS1)	Source: Y204538-01		Prepared: 04/25/2022 Analyzed: 04/26/2022							
1,2,4-Trimethylbenzene	0.111	0.00200	mg/kg	0.100	ND	111	70-130			
1,3,5-Trimethylbenzene	0.112	0.00200	"	0.100	ND	112	70-130			
Benzene	0.102	0.00200	"	0.100	0.000400	102	70-130			
Ethylbenzene	0.116	0.00200	"	0.100	ND	116	70-130			
Naphthalene	0.0804	0.0100	"	0.100	ND	80.4	70-130			
Toluene	0.119	0.00200	"	0.100	ND	119	70-130			
o-Xylene	0.112	0.00200	"	0.100	ND	112	70-130			
m,p-Xylene	0.231	0.00400	"	0.200	0.000560	115	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125		89.5	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		105	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		104	70-130			

Origins Laboratory, Inc.



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Eagle Environmental Consulting, Inc.
 8000 W 44th Ave
 Wheat Ridge CO 80033

Martin C Eckert III
 Project Number: -
 Project: Noble - Donovan D #02-30

Volatile Organic Compounds by GC/MS SW846 8260D - 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 B2D2525 - EPA 5030 (soil)

Matrix Spike Dup (B2D2525-MSD1)	Source: Y204538-01		Prepared: 04/25/2022 Analyzed: 04/26/2022							
1,2,4-Trimethylbenzene	0.101	0.00200	mg/kg	0.100	ND	101	70-130	9.18	20	
1,3,5-Trimethylbenzene	0.101	0.00200	"	0.100	ND	101	70-130	10.3	20	
Benzene	0.102	0.00200	"	0.100	0.000400	101	70-130	0.255	20	
Ethylbenzene	0.103	0.00200	"	0.100	ND	103	70-130	11.6	20	
Naphthalene	0.0858	0.0100	"	0.100	ND	85.8	70-130	6.50	20	
Toluene	0.113	0.00200	"	0.100	ND	113	70-130	5.88	20	
o-Xylene	0.103	0.00200	"	0.100	ND	103	70-130	9.25	20	
m,p-Xylene	0.207	0.00400	"	0.200	0.000560	103	70-130	11.2	20	
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		96.9	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		101	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		100	70-130			

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Martin C Eckert III
 Project Number: -
 Project: Noble - Donovan D #02-30

Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B2D2602 - EPA 3550B										
Blank (B2D2602-BLK1)										
					Prepared: 04/26/2022 Analyzed: 04/27/2022					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	22		"	24.9		87.0	50-150			

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Martin C Eckert III
 Project Number: -
 Project: Noble - Donovan D #02-30

Extractable Petroleum Hydrocarbons by 8015D - 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 B2D2602 - EPA 3550B

LCS (B2D2602-BS1)

Prepared: 04/26/2022 Analyzed: 04/27/2022

Diesel (C10-C28)	870	50.0	mg/kg	1000		87.0	70-130			
Residual Range Organics (C28-C40)	927	200	"	1000		92.7	70-130			
Surrogate: o-Terphenyl	39		"	49.8		77.7	50-150			

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Martin C Eckert III
 Project Number: -
 Project: Noble - Donovan D #02-30

Extractable Petroleum Hydrocarbons by 8015D - 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 B2D2602 - EPA 3550B

Matrix Spike (B2D2602-MS1)	Source: Y204454-01			Prepared: 04/26/2022 Analyzed: 04/27/2022						
Diesel (C10-C28)	920	50.0	mg/kg	1000	ND	92.0	70-130			
Residual Range Organics (C28-C40)	970	200	"	1000	ND	97.0	70-130			
Surrogate: o-Terphenyl	42		"	49.8		84.3	50-150			

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Martin C Eckert III
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 Project: Noble - Donovan D #02-30

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B2D2602 - EPA 3550B										
Matrix Spike Dup (B2D2602-MSD1)		Source: Y204454-01			Prepared: 04/26/2022 Analyzed: 04/27/2022					
Diesel (C10-C28)	860	50.0	mg/kg	1000	ND	86.0	70-130	6.73	35	
Residual Range Organics (C28-C40)	949	200	"	1000	ND	94.9	70-130	2.18	35	
Surrogate: o-Terphenyl	39		"	49.8		78.8	50-150			

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Martin C Eckert III
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 Project: Noble - Donovan D #02-30

PAH by 8270D SIM - Quality Control
Waypoint Analytical, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L612949 - 3550B

MSD (L 88563-MSD-L612949)		Source: 88563			Prepared: 04/27/2022 Analyzed: 04/28/2022					
Naphthalene	0.0893	0.00242	mg/Kg	0.164	<0.00242	54.4	30-130	3.7	30	
Indeno(1,2,3-cd)pyrene	0.0584	0.00314	"	0.164	<0.00314	35.6	30-130	0.8	30	
Fluorene	0.0941	0.00143	"	0.164	<0.00143	57.3	30-130	2.8	30	
Benzo(k)fluoranthene	0.0959	0.00219	"	0.164	<0.00219	58.4	30-130	5.1	30	
Fluoranthene	0.0988	0.00197	"	0.164	<0.00197	60.2	30-130	5.8	30	
Dibenz(a,h)anthracene	0.0836	0.00307	"	0.164	<0.00307	50.9	30-130	7.4	30	
Chrysene	0.103	0.00312	"	0.164	<0.00312	62.8	30-130	3.5	30	
Pyrene	0.0993	0.00322	"	0.164	<0.00322	60.5	30-130	5.4	30	
2-Methylnaphthalene	0.0833	0.00323	"	0.164	<0.00323	50.7	30-130	0.8	30	
Benzo(a)pyrene	0.103	0.00234	"	0.164	<0.00234	62.8	30-130	4.6	30	
Benzo(a)anthracene	0.0954	0.00247	"	0.164	<0.00247	58.1	30-130	1.5	30	
Acenaphthene	0.093	0.00152	"	0.164	<0.00152	56.7	30-130	2.2	30	
1-Methylnaphthalene	0.0942	0.00182	"	0.164	<0.00182	57.4	30-130	0.3	30	
Benzo(b)fluoranthene	0.0661	0.00293	"	0.164	<0.00293	40.3	30-130	13.5	30	
Anthracene	0.0988	0.00167	"	0.164	<0.00167	60.2	30-130	1	30	
Surrogate: Nitrobenzene-d5	62.1		"	0.328	206	62.1	29-110			
Surrogate: 4-Terphenyl-d14	67		"	0.328	214	67	33-122			
Surrogate: 2-Fluorobiphenyl	52.7		"	0.328	171	52.7	33-115			

MS (L 88563-MS-L612949)		Source: 88563			Prepared: 04/27/2022 Analyzed: 04/28/2022					
Acenaphthene	0.0909	0.00152	mg/Kg	0.166	<0.00152	54.7	30-130			
2-Methylnaphthalene	0.084	0.00323	"	0.166	<0.00323	50.6	30-130			
Chrysene	0.0994	0.00312	"	0.166	<0.00312	59.8	30-130			
Anthracene	0.0978	0.00167	"	0.166	<0.00167	58.9	30-130			
1-Methylnaphthalene	0.0939	0.00182	"	0.166	<0.00182	56.5	30-130			
Naphthalene	0.086	0.00242	"	0.166	<0.00242	51.8	30-130			
Benzo(a)anthracene	0.0939	0.00247	"	0.166	<0.00247	56.5	30-130			

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Martin C Eckert III
 Project Number: -
 Project: Noble - Donovan D #02-30

PAH by 8270D SIM - Quality Control
Waypoint Analytical, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L612949 - 3550B

MS (L 88563-MS-L612949)		Source: 88563			Prepared: 04/27/2022 Analyzed: 04/28/2022					
Benzo(b)fluoranthene	0.0577	0.00293	mg/Kg	0.166	<0.00293	34.7	30-130			
Indeno(1,2,3-cd)pyrene	0.0579	0.00314	"	0.166	<0.00314	34.8	30-130			
Fluorene	0.0915	0.00143	"	0.166	<0.00143	55.1	30-130			
Fluoranthene	0.0932	0.00197	"	0.166	<0.00197	56.1	30-130			
Dibenz(a,h)anthracene	0.0901	0.00307	"	0.166	<0.00307	54.2	30-130			
Benzo(k)fluoranthene	0.101	0.00219	"	0.166	<0.00219	60.8	30-130			
Benzo(a)pyrene	0.0983	0.00234	"	0.166	<0.00234	59.2	30-130			
Pyrene	0.094	0.00322	"	0.166	<0.00322	56.6	30-130			
Surrogate: 4-Terphenyl-d14	65		"	0.332	214	65	33-122			
Surrogate: 2-Fluorobiphenyl	50.9		"	0.332	171	50.9	33-115			
Surrogate: Nitrobenzene-d5	58.7		"	0.332	206	58.7	29-110			

LCS (LCS-L612949)		Prepared: 04/27/2022 Analyzed: 04/28/2022								
Anthracene	0.0953	0.000334	mg/Kg	0.167		57	30-130			
Benzo(b)fluoranthene	0.0781	0.000585	"	0.167		46.7	30-130			
Acenaphthene	0.0916	0.000304	"	0.167		54.8	30-130			
Pyrene	0.101	0.000643	"	0.167		60.4	30-130			
2-Methylnaphthalene	0.0884	0.000645	"	0.167		52.9	30-130			
1-Methylnaphthalene	0.0893	0.000364	"	0.167		53.4	30-130			
Benzo(a)pyrene	0.104	0.000468	"	0.167		62.2	30-130			
Chrysene	0.102	0.000624	"	0.167		61	30-130			
Dibenz(a,h)anthracene	0.106	0.000614	"	0.167		63.4	30-130			
Fluoranthene	0.102	0.000394	"	0.167		61	30-130			
Fluorene	0.0945	0.000286	"	0.167		56.5	30-130			
Indeno(1,2,3-cd)pyrene	0.0758	0.000627	"	0.167		45.3	30-130			
Naphthalene	0.0908	0.000484	"	0.167		54.3	30-130			
Benzo(a)anthracene	0.101	0.000493	"	0.167		60.4	30-130			

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Martin C Eckert III
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 Project: Noble - Donovan D #02-30

PAH by 8270D SIM - Quality Control
Waypoint Analytical, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L612949 - 3550B

LCS (LCS-L612949)

Prepared: 04/27/2022 Analyzed: 04/28/2022

Benzo(k)fluoranthene	0.108	0.000437	mg/Kg	0.167		64.6	30-130			
Surrogate: 2-Fluorobiphenyl	53.4		"	0.333		53.4	33-115			
Surrogate: Nitrobenzene-d5	62.4		"	0.333		62.4	29-110			
Surrogate: 4-Terphenyl-d14	68.7		"	0.333		68.7	33-122			

LRB (LRB-L612949)

Prepared: 04/27/2022 Analyzed: 04/28/2022

Fluoranthene	ND	0.00067	mg/Kg				-			
Fluorene	ND	0.00067	"				-			
Indeno(1,2,3-cd)pyrene	ND	0.00067	"				-			
Naphthalene	ND	0.00067	"				-			
Dibenz(a,h)anthracene	ND	0.00067	"				-			
Pyrene	ND	0.00067	"				-			
Benzo(a)anthracene	ND	0.00067	"				-			
Chrysene	ND	0.00067	"				-			
Benzo(k)fluoranthene	ND	0.00067	"				-			
Benzo(a)pyrene	ND	0.00067	"				-			
Anthracene	ND	0.00067	"				-			
Acenaphthene	ND	0.00067	"				-			
2-Methylnaphthalene	ND	0.00067	"				-			
1-Methylnaphthalene	ND	0.00067	"				-			
Benzo(b)fluoranthene	ND	0.00067	"				-			
Surrogate: Nitrobenzene-d5	59.7		"	0.333		59.7	29-110			
Surrogate: 4-Terphenyl-d14	69		"	0.333		69	33-122			
Surrogate: 2-Fluorobiphenyl	54		"	0.333		54	33-115			

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Martin C Eckert III
Project Number: -
Project: Noble - Donovan D #02-30

Notes and Definitions

U Sample is Non-Detect.

J Estimated Value. Analyte below reported quantitation limit.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported on a wet weight basis.

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Jordan A. Bynon, Project Manager