

Wellhead Closure Checklist

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

Additional attachments (optional): <u> </u>		Pit Closure <u> </u>		Tank Battery Closure 05/16/23		Flowline Closure 05/16/23		Partially Buried Vault Closure 05/16/23
Site Name & COGCC Facility Number: Foy Y #20-6		Date: 03/17/23						Remediation Project #: 26875
Associated Wells: 05-123-24258		Age of Site: years						Number of Photos Attached: 1
Location: (GPS coordinates of wellhead or southeastern most wellhead for multiple)							40.125589 / -104.577708	
General Condition of Site: (General observations regarding housekeeping, corrosion, waste management, etc.)								
Good condition								
USCS Soil Type: clayey SAND					Estimated Depth to Groundwater: ~8-12'			
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								
Wellhead(s)								
Well API	05-123-24258							
Age	years							
Condition of surface around wellhead	Good - Per Crew							
PID Readings	N/A - Excavated upon arrival							
Condition of subsurface (staining present)	Good - No odor/no staining							
PID Readings	0.7	0.8	0.7	0.8	0.9			
Sample taken? Location/Sample ID#	WH-SS-01	WH-SS-02	WH-SS-03	WH-SS-04	WH-FS-01			
Photo Number(s)	See photo log							
Other observations regarding wellheads:								
Well casing cut/capped following assessment								
Summary								
Was impacted soil identified?								
<u>No</u>			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: 0.9				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:				Volume of soil removed:				
Is additional investigation required?								
Was groundwater encountered during the investigation?								
<u>No</u>			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 5-16-23	Wellhead Closure 3-17-23	Pit Closure --	Partially Buried Vault Closure 5-16-23
Site Name & COGCC Facility Number: Foy #20-6		Date: 5-16-23		Remediation Project #: 26875
Associated Wells: 05-123-24258		Age of Site: years		Number of Photos Attached: 0

Starting point: (GPS coordinates and descriptions) At well: 40.125586 / -104.577690

End point: (GPS coordinates and descriptions) At separator: 40.130914 / -104.578386

USCS Soil Type: SC Estimated Depth to Groundwater: ~10-20'

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	years							
Age	~3'							
Length	~2731'							
Construction Material	Steel							
Were flowlines pulled?	No							
Visual Integrity of lines	Good							
Visual impacts if trenched	None observed							
PID Readings if trenched	N/A							
Sample taken? Location/Sample ID#	N/A							
Photo Number(s)	See photo log for wellhead/Pt A							

Other observations regarding on location flowlines:

Flowline abandoned in place. Wellhead/Pt A. assessed. Flowline terminus at the separator assessed under Rem. # 26883.

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: 0				Total number of samples collected: 0			
Highest PID Reading: N/A				Total number of samples submitted to lab for analysis: 0			
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?							
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:							



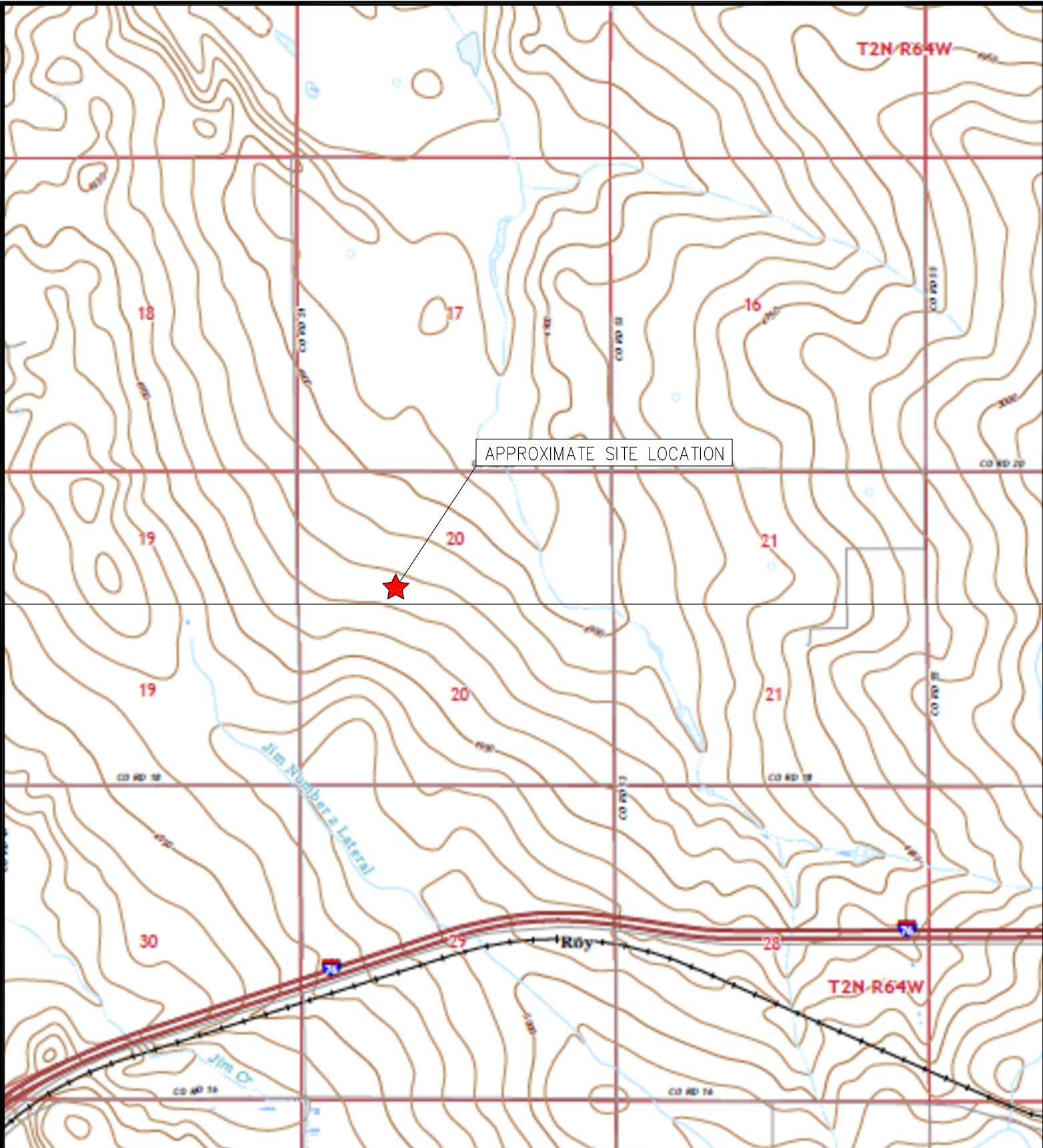
FIGURES

Figure 1: Topographic Site Location Map

Figure 2: Aerial Site Location Map

Figure 3: Soil Analytical Map

Figure 4: Polycyclic Aromatic Hydrocarbons Map



TOPOGRAPHIC SITE LOCATION MAP
 FOY Y #20-6
 CLOSURE ASSESSMENT
 40.125589 / -104.577708
 SE¼ NW¼ SEC.20 T2N R64W 6PM
 WELD COUNTY, COLORADO
 API # 05-123-24258
 REMEDIATION # 26875

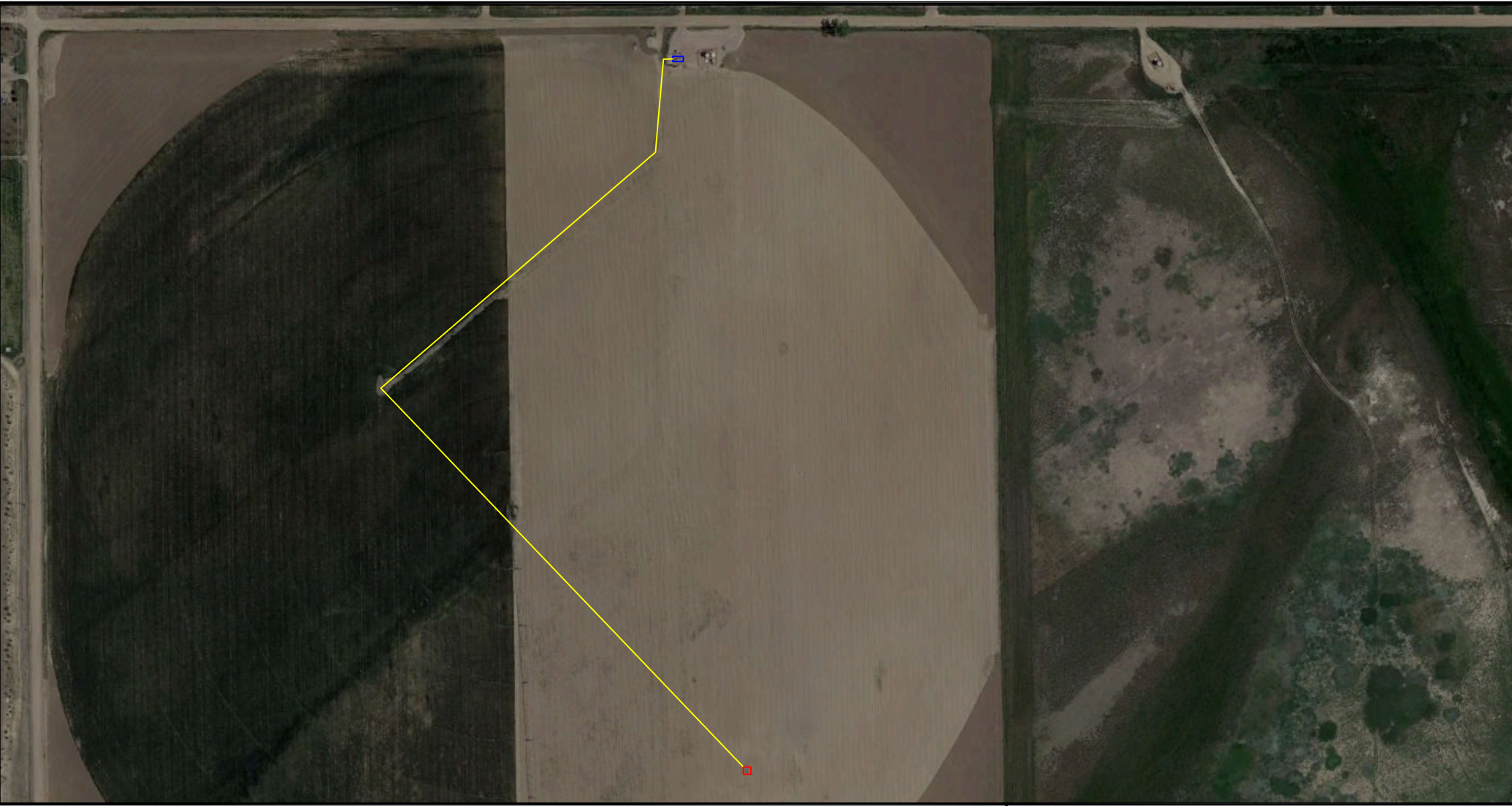


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


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 Ph: 303-433-0479 • F: 303-325-5449

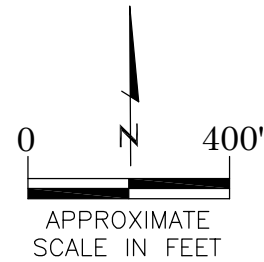
SOURCE: USGS 7.5 MINUTE TOPOGRAPHIC MAPS,
 KLUG RANCH & KEENESBURG, CO
 QUADRANGLES 2022

FIGURE NO. 1



LEGEND

-  FORMER FOY Y #20-6 WELLHEAD (PLUGGED AND ABANDONED)
-  ASSOCIATED SEPARATOR
-  APPROXIMATE FLOWLINE LOCATION (ABANDONED IN PLACE)



AERIAL SITE LOCATION MAP
FOY Y #20-6
CLOSURE ASSESSMENT
40.125589 / -104.577708
SE¼ NW¼ SEC.20 T2N R64W 6PM
WELD COUNTY, COLORADO
API # 05-123-24258
REMEDATION # 26875

FIGURE NO.
2

DRAWN BY:
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WH-FS-01@6'
03/17/23
6'
B = <0.00200
T = <0.00200
E = <0.00200
X = <0.00200
G = <0.200
D = <25.0
R = <100
1,2,4-TMB = <0.00200
1,3,5-TMB = <0.00200
Brn= 1.94
EC = 2.30
SAR= **40.2**
pH = **8.71**

BACKGROUND-01@3'
03/17/23
3'
SAR= **8.89**
pH = 7.85



LEGEND

- WELLHEAD ASSESSMENT BOUNDARIES
- APPROXIMATE LOCATION OF SOIL SAMPLES FIELD SCREENED, ONLY, WITH PHOTOIONIZATION DETECTOR
- 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)
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)

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

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

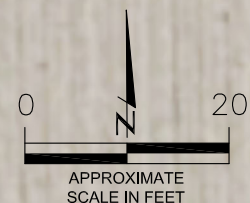
SOIL ANALYTICAL MAP
FOY Y #20-6
CLOSURE ASSESSMENT
40.125589 / -104.577708
SE¼ NW¼ SEC.20 T2N R64W 6PM
WELD COUNTY, COLORADO
API # 05-123-24258
REMEDIATION # 26875

FIGURE NO.
3

DRAWN BY:
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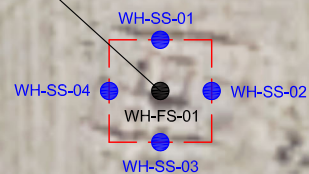


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8000 W 44th Ave, Wheat Ridge, CO 80033
Ph: 303-433-0479 • F: 303-325-5449



WH-FS-01@6'
03/17/23
6'

1-Methylnaphthalene = <0.00201
2-Methylnaphthalene = <0.00201
Acenaphthene = <0.00067
Anthracene = <0.00067
Benzo(a)anthracene = <0.00067
Benzo(a)pyrene = <0.00067
Benzo(b)fluoranthene = <0.00067
Benzo(k)fluoranthene = <0.00067
Chrysene = <0.00067
Dibenzo(a,h)anthracene = <0.00067
Fluoranthene = <0.00067
Fluorene = <0.00067
Indeno(1,2,3-CD)pyrene = <0.00067
Naphthalene = <0.00201
Pyrene = <0.00067



LEGEND

- WELLHEAD ASSESSMENT BOUNDARIES
- SS-02 APPROXIMATE LOCATION OF SOIL SAMPLES FIELD SCREENED, ONLY, WITH PHOTOIONIZATION DETECTOR
- SS-02 APPROXIMATE LOCATION OF SOIL SAMPLES SUBMITTED FOR LABORATORY ANALYSIS

PARAMETERS

SAMPLE LOCATION
DATE SAMPLE COLLECTED
APPROXIMATE DEPTH

POLYCYCLIC AROMATIC HYDROCARBONS (PAHs) (mg/kg)

mg/kg = MILLIGRAMS PER KILOGRAM

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

POLYCYCLIC AROMATIC HYDROCARBONS MAP

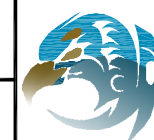
FOY Y #20-6
CLOSURE ASSESSMENT
40.125589 / -104.577708
SE¼ NW¼ SEC.20 T2N R64W 6PM
WELD COUNTY, COLORADO
API # 05-123-24258
REMEDATION # 26875

FIGURE NO.

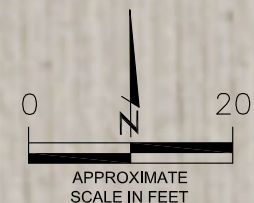
4

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





TABLES

Table 1: Photoionization Detector Reading Summary

Table 2: Soil Analytical Results Summary

TABLE 1
PHOTOIONIZATION DETECTOR READING SUMMARY
FOY Y #20-6
CLOSURE ASSESSMENT
40.125589 / -104.577708
SE¼ NW¼ SEC.20 T2N R64W 6PM
WELD COUNTY, COLORADO
API # 05-123-24258
REMEDATION # 26875

Sample Location (Latitude/Longitude)	Date	Approximate Depth (feet)	PID Reading (ppm-v)	Lab Submission (Y/N)
WH-SS-01 @ 5' (40.125594 / -104.577713)	03/17/23	5	0.7	N
WH-SS-02 @ 5' (40.125580 / -104.577694)	03/17/23	5	0.8	N
WH-SS-03 @ 5' (40.125567 / -104.577714)	03/17/23	5	0.7	N
WH-SS-04 @ 5' (40.125580 / -104.577732)	03/17/23	5	0.8	N
WH-FS-01 @ 6' (40.125579 / -104.577713)	03/17/23	6	0.9	Y
Background-01 @ 3' (40.125598 / -104.577654)	03/17/23	3	0.5	Y
(Y/N) = Yes or No ppm-v = parts per million by volume PID = Photoionization Detector				



TABLE 2
SOIL ANALYTICAL RESULTS SUMMARY
FOY Y #20-6
CLOSURE ASSESSMENT
40.125589 / -104.577708
SE¼ NW¼ SEC.20 T2N R64W 6PM
WELD COUNTY, COLORADO
API # 05-123-24258
REMEDIATION # 26875

Sample Location			WH-FS-01 @ 6'		Background-01 @ 3'	
(Latitude / Longitude)			(40.125579 / -104.577713)		(40.125598 / -104.577654)	
Sample Date			3/17/2023		3/17/2023	
Sample Depth			6'		3'	
PID Reading (ppm-v)			0.9		0.5	
Regulatory Limits						
Chemical of Concern	Units	COGCC Table 915-1 RSSLs	COGCC Table 915-1 GSSLs			
VOCs						
Benzene	mg/kg	1.2	0.0026	<0.00200		NA
Toluene	mg/kg	490	0.69	<0.00200		NA
Ethylbenzene	mg/kg	5.8	0.78	<0.00200		NA
Total Xylenes	mg/kg	58	9.9	<0.00200		NA
1,2,4-Trimethylbenzene	mg/kg	30	0.0081	<0.00200		NA
1,3,5-Trimethylbenzene	mg/kg	27	0.0087	<0.00200		NA
TOTAL PETROLEUM HYDROCARBONS						
TPH-GRO	mg/kg	500	--	<0.200		NA
TPH-DRO	mg/kg	500	--	<25.0		NA
TPH-RRO	mg/kg	500	--	<100		NA
POLYCYCLIC AROMATIC HYDROCARBONS						
1-Methyl-naphthalene	mg/kg	18	0.006	<0.00201		NA
2-Methyl-naphthalene	mg/kg	24	0.019	<0.00201		NA
Acenaphthene	mg/kg	360	0.55	<0.00067		NA
Anthracene	mg/kg	1800	5.8	<0.00067		NA
Benzo(a)-anthracene	mg/kg	1.1	0.011	<0.00067		NA
Benzo(a)-pyrene	mg/kg	0.11	0.24	<0.00067		NA
Benzo(b)-fluoranthene	mg/kg	1.1	0.3	<0.00067		NA
Benzo(k)-fluoranthene	mg/kg	11	2.9	<0.00067		NA
Chrysene	mg/kg	110	9	<0.00067		NA
Dibenzo(a,h)-anthracene	mg/kg	0.11	0.096	<0.00067		NA
Fluoranthene	mg/kg	240	8.9	<0.00067		NA
Fluorene	mg/kg	240	0.54	<0.00067		NA
Indeno(1,2,3-cd)-pyrene	mg/kg	1.1	0.98	<0.00067		NA
Naphthalene	mg/kg	2	0.0038	<0.00201		NA
Pyrene	mg/kg	180	1.3	<0.00067		NA
SOIL SUITABILITY (Inorganics)						
Boron	mg/L	2	--	1.94		NA
pH	standard unit	6-8.3	--	8.71		7.85
Sodium Adsorption Ratio (SAR)	--	<6	--	40.2		8.89
Specific Conductance (EC)	mmhos/cm	<4	--	2.30		NA
COGCC = Colorado Oil and Gas Conservation Commission		NA - Not Analyzed	VOCs - Volatile Organic Compounds			
mg/kg = milligrams per kilogram						
mmhos/cm = millimhos per centimeter		RSSLs = Residential Soil Screening Levels				
PID = Photoionization Detector		GSSLs = Protection of Groundwater Soil Screening Levels				
ppm-v = parts per million by volume		TPH-GRO = Total Petroleum Hydrocarbons - Gasoline Range Organics				
mg/L = milligrams per liter		TPH-DRO = Total Petroleum Hydrocarbons - Diesel Range Organics				
SAR = Sodium Adsorption Ratio		TPH-RRO = Total Petroleum Hydrocarbons - Residual Range Organics				
Notes:						
Values presented with a less than symbol (<) did not contain concentrations at or above the laboratory reporting limit and/or minimum detection limit.						
Values presented in BOLD exceed COGCC Table 915-1 Regulatory Limits.						



ATTACHMENT A

Photo Log

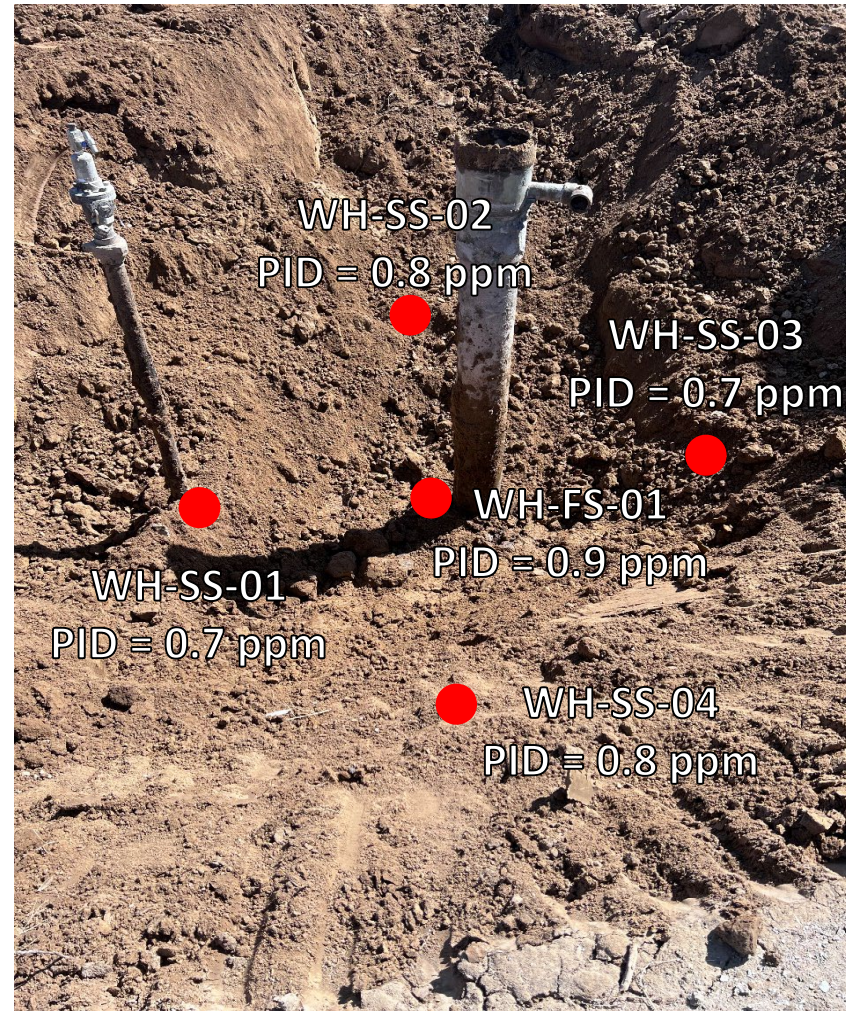
Foy Y #20-6
API # 05-123-24258
Remediation # 26875

Closure Assessment

March 2023



Wellhead Excavation – 03/17/23



Looking east

No petroleum hydrocarbon staining or odor observed



ATTACHMENT B

Laboratory Analytical Reports



March 29, 2023

Eagle Environmental Consulting, LLC

Martin C Eckert III

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - Noble - Foy Y #20-6

Project Number - [none]

Attached are your analytical results for Noble - Foy Y #20-6 received by Origins Laboratory, Inc. March 17, 2023. This project is associated with Origins project number Y303458-01.

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, LLC
8000 W 44th Ave
Wheat Ridge CO 80033

Martin C Eckert III
Project Number: [none]
Project: Noble - Foy Y #20-6

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
WH-FS-01@6'	Y303458-01	Soil	March 17, 2023 12:43	03/17/2023 14:09

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, LLC
8000 W 44th Ave
Wheat Ridge CO 80033

Martin C Eckert III
Project Number: [none]
Project: Noble - Foy Y #20-6

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: 4303458

Client: Eagle Environmental
Client Project ID: Foy Y #20-6

Checklist Completed by: ISH / DE

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

Date/time completed: 3/20/23

Airbill #: N/A

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

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

Thermometer ID: 1004

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 HNO ₃ , HCL, H ₂ SO ₄) / (pH >10 for samples preserved with NaAsO ₂ +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)

Date/Time Reviewed 3/20/23

Origins Laboratory, Inc.

J. Bynon

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, LLC
8000 W 44th Ave
Wheat Ridge CO 80033

Martin C Eckert III
Project Number: [none]
Project: Noble - Foy Y #20-6

WH-FS-01@6'

3/17/2023 12:43:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
---------	--------	---------------------	-----------------	-------	----------	-------	----------	----------	-------

Origins Laboratory, Inc.
Y303458-01 (Soil)

Boron (DTPA Sorbitol)

Boron	1.94	0.100	mg/L	1	B3C2211	03/22/2023	03/23/2023	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3C2001	03/20/2023	03/21/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	85.0 %	50-150			"	"	"	
------------------------	--------	--------	--	--	---	---	---	--

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3C2016	03/20/2023	03/21/2023	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	106 %	70-130			"	"	"	
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Origins Laboratory, Inc.



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

Martin C Eckert III
Project Number: [none]
Project: Noble - Foy Y #20-6

WH-FS-01@6'

3/17/2023 12:43:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y303458-01 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	97.6 %	70-130	B3C20 16	03/20/2023	03/21/2023
Surrogate: 4-Bromofluorobenzene	94.4 %	70-130	"	"	"

Metals by Saturated Paste by EPA 6010

Calcium	ND	0.499	meq/L	10	[CALC]	03/22/2023	03/23/2023
Magnesium	ND	0.823	"	"	"	"	"
Sodium	19.8	0.435	"	"	"	"	"

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00109	0.00201	mg/Kg	1	L671251	03/22/2023	03/22/2023
2-Methylnaphthalene	ND	0.00194	0.00201	"	"	"	"	"
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"
Anthracene	ND	0.000334	0.00067	"	"	"	"	"
Benzo(a)anthracene	ND	0.000493	0.00067	"	"	"	"	"
Benzo(a)pyrene	ND	0.000468	0.00067	"	"	"	"	"
Benzo(b)fluoranthene	ND	0.000585	0.00067	"	"	"	"	"
Benzo(k)fluoranthene	ND	0.000437	0.00067	"	"	"	"	"
Chrysene	ND	0.000624	0.00067	"	"	"	"	"
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"
Fluoranthene	ND	0.000394	0.00067	"	"	"	"	"

Origins Laboratory, Inc.



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

Martin C Eckert III
Project Number: [none]
Project: Noble - Foy Y #20-6

WH-FS-01@6'

3/17/2023 12:43:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.
Y303458-01 (Soil)

PAH by 8270D SIM

Fluorene	ND	0.000286	0.00067	mg/Kg	1	L671251	03/22/2023	03/22/2023
Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	"	"	"	"	"
Naphthalene	ND	0.00145	0.00201	"	"	"	"	"
Pyrene	ND	0.000643	0.00067	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	40.4 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	45.3 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	42.9 %	29-110	"	"	"

pH in Soil by 9045D

pH	8.71	pH Units	1	B3C2215	03/22/2023	03/23/2023
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SAR by 20B Saturated Paste

SAR	40.2	SAR	1	B3C2207	03/22/2023	03/23/2023
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	2.30	0.00500	mmhos/cm	1	B3C2215	03/22/2023	03/23/2023
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Eagle Environmental Consulting, LLC
8000 W 44th Ave
Wheat Ridge CO 80033

Martin C Eckert III
Project Number: [none]
Project: Noble - Foy Y #20-6

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 B3C2001 - EPA 3580										
Blank (B3C2001-BLK1)					Prepared: 03/20/2023 Analyzed: 03/21/2023					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	25		"	24.9		102	50-150			

Origins Laboratory, Inc.



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

Martin C Eckert III
Project Number: [none]
Project: Noble - Foy Y #20-6

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 B3C2001 - EPA 3580										
LCS (B3C2001-BS1)					Prepared: 03/20/2023 Analyzed: 03/21/2023					
Diesel (C10-C28)	898	50.0	mg/kg	1000		89.8	70-130			
Residual Range Organics (C28-C40)	850	200	"	1000		85.0	70-130			
Surrogate: o-Terphenyl	49		"	49.8		97.6	50-150			

Origins Laboratory, Inc.



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

Martin C Eckert III
Project Number: [none]
Project: Noble - Foy Y #20-6

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 B3C2001 - EPA 3580										
Matrix Spike (B3C2001-MS1)		Source: Y303402-01			Prepared: 03/20/2023 Analyzed: 03/21/2023					
Diesel (C10-C28)	9440	50.0	mg/kg	1000	7920	152	70-130			QM-07
Residual Range Organics (C28-C40)	1180	200	"	1000	271	91.3	70-130			
Surrogate: o-Terphenyl	110		"	49.8		227	50-150			S-04

Origins Laboratory, Inc.



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

Martin C Eckert III
Project Number: [none]
Project: Noble - Foy Y #20-6

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 B3C2001 - EPA 3580										
Matrix Spike Dup (B3C2001-MSD1)		Source: Y303402-01			Prepared: 03/20/2023 Analyzed: 03/21/2023					
Diesel (C10-C28)	11000	50.0	mg/kg	1000	7920	306	70-130	15.1	35	QM-07
Residual Range Organics (C28-C40)	1440	200	"	1000	271	117	70-130	19.8	35	
Surrogate: o-Terphenyl	130		"	49.8		264	50-150			S-04

Origins Laboratory, Inc.



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

Martin C Eckert III
Project Number: [none]
Project: Noble - Foy Y #20-6

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 B3C2016 - EPA 5030 (soil)										
Blank (B3C2016-BLK1)					Prepared: 03/20/2023 Analyzed: 03/21/2023					
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	0.00380	"							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		104	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		97.6	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		96.7	70-130			

Origins Laboratory, Inc.



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

Martin C Eckert III
Project Number: [none]
Project: Noble - Foy Y #20-6

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 B3C2016 - EPA 5030 (soil)										
LCS (B3C2016-BS1)					Prepared: 03/20/2023 Analyzed: 03/21/2023					
1,2,4-Trimethylbenzene	0.111	0.00200	mg/kg	0.100		111	70-130			
1,3,5-Trimethylbenzene	0.114	0.00200	"	0.100		114	70-130			
Benzene	0.112	0.00200	"	0.100		112	70-130			
Ethylbenzene	0.116	0.00200	"	0.100		116	70-130			
Naphthalene	0.0967	0.00380	"	0.100		96.7	70-130			
Toluene	0.109	0.00200	"	0.100		109	70-130			
o-Xylene	0.111	0.00200	"	0.100		111	70-130			
m,p-Xylene	0.231	0.00400	"	0.200		115	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		100	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.1	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		104	70-130			

Origins Laboratory, Inc.



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

Martin C Eckert III
Project Number: [none]
Project: Noble - Foy Y #20-6

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 B3C2016 - EPA 5030 (soil)										
Matrix Spike (B3C2016-MS1)		Source: Y303429-01			Prepared: 03/20/2023 Analyzed: 03/21/2023					
1,2,4-Trimethylbenzene	0.107	0.00200	mg/kg	0.100	ND	107	70-130			
1,3,5-Trimethylbenzene	0.113	0.00200	"	0.100	0.00364	109	70-130			
Benzene	0.114	0.00200	"	0.100	ND	114	70-130			
Ethylbenzene	0.112	0.00200	"	0.100	ND	112	70-130			
Naphthalene	0.0926	0.00380	"	0.100	0.00132	91.3	70-130			
Toluene	0.109	0.00200	"	0.100	ND	109	70-130			
o-Xylene	0.109	0.00200	"	0.100	ND	109	70-130			
m,p-Xylene	0.225	0.00400	"	0.200	ND	113	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		101	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		97.0	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		103	70-130			

Origins Laboratory, Inc.



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

Martin C Eckert III
Project Number: [none]
Project: Noble - Foy Y #20-6

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 B3C2016 - EPA 5030 (soil)										
Matrix Spike Dup (B3C2016-MSD1)			Source: Y303429-01		Prepared: 03/20/2023 Analyzed: 03/21/2023					
1,2,4-Trimethylbenzene	0.105	0.00200	mg/kg	0.100	ND	105	70-130	1.58	20	
1,3,5-Trimethylbenzene	0.110	0.00200	"	0.100	0.00364	107	70-130	2.42	20	
Benzene	0.112	0.00200	"	0.100	ND	112	70-130	1.56	20	
Ethylbenzene	0.109	0.00200	"	0.100	ND	109	70-130	3.20	20	
Naphthalene	0.0927	0.00380	"	0.100	0.00132	91.4	70-130	0.130	20	
Toluene	0.107	0.00200	"	0.100	ND	107	70-130	1.72	20	
o-Xylene	0.105	0.00200	"	0.100	ND	105	70-130	3.26	20	
m,p-Xylene	0.218	0.00400	"	0.200	ND	109	70-130	3.49	20	
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		99.8	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		97.6	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		103	70-130			

Origins Laboratory, Inc.



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

Martin C Eckert III
Project Number: [none]
Project: Noble - Foy Y #20-6

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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Classical Chemistry Parameters - 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 B3C2207 - Saturated Paste Metals

Blank (B3C2207-BLK1)

Prepared: 03/22/2023 Analyzed: 03/23/2023

SAR	0.00		SAR
Calcium PPM	ND	10.0	mg/L
Magnesium PPM	ND	10.0	"
Sodium PPM	ND	10.0	"

Duplicate (B3C2207-DUP1)

Source: Y303456-01

Prepared: 03/22/2023 Analyzed: 03/23/2023

Calcium PPM	6.95	10.0	mg/L	6.92	0.505	50
SAR	0.00		SAR	4.41	200	200
Magnesium PPM	7.94	10.0	mg/L	7.70	3.01	50
Sodium PPM	72.2	10.0	"	70.9	1.80	50

Batch B3C2211 - DTPA Sorbitol Preparation

Blank (B3C2211-BLK1)

Prepared: 03/22/2023 Analyzed: 03/23/2023

Boron	ND	0.100	mg/L
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Duplicate (B3C2211-DUP1)

Source: Y303456-01

Prepared: 03/22/2023 Analyzed: 03/23/2023

Boron	0.179	0.0999	mg/L	0.192	7.13	50
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Origins Laboratory, Inc.



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

Martin C Eckert III
Project Number: [none]
Project: Noble - Foy Y #20-6

Saturated Paste - Quality Control Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B3C2215 - Saturated Paste pH/EC										
Blank (B3C2215-BLK1)					Prepared: 03/22/2023 Analyzed: 03/23/2023					
Specific Conductance (EC)	ND	0.00500	mmhos/cm							
Duplicate (B3C2215-DUP1)					Source: Y303456-01 Prepared: 03/22/2023 Analyzed: 03/23/2023					
pH	8.52		pH Units		8.56			0.468	25	
Specific Conductance (EC)	0.388	0.00500	mmhos/cm		0.519			29.0	25	QR-DUP

Origins Laboratory, Inc.



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

Martin C Eckert III
Project Number: [none]
Project: Noble - Foy Y #20-6

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L671251 - 3550B

MSD (L 83649-MSD-L671251)		Source: 83649			Prepared: 03/22/2023 Analyzed: 03/22/2023					
2-Methylnaphthalene	0.0771	0.00201	mg/Kg	0.166	<0.00194	46.4	30-130	18.3	30	
Fluorene	0.0889	0.00067	"	0.166	<0.000286	53.5	30-130	17.5	30	
Pyrene	0.0896	0.00067	"	0.166	<0.000643	53.9	30-130	19.5	30	
Indeno(1,2,3-cd)pyrene	0.0546	0.00067	"	0.166	<0.000627	32.8	30-130	50.6	30	*
Fluoranthene	0.0877	0.00067	"	0.166	<0.000394	52.8	30-130	19.8	30	
Dibenz(a,h)anthracene	0.0799	0.00067	"	0.166	<0.000614	48.1	30-130	47	30	*
Chrysene	0.0923	0.00067	"	0.166	<0.000624	55.6	30-130	18.3	30	
Naphthalene	0.0787	0.00201	"	0.166	<0.00145	47.4	30-130	17.8	30	
1-Methylnaphthalene	0.0806	0.00201	"	0.166	<0.00109	48.5	30-130	18.1	30	
Benzo(k)fluoranthene	0.0801	0.00067	"	0.166	<0.000437	48.2	30-130	27.8	30	
Acenaphthene	0.0834	0.00067	"	0.166	<0.000304	50.2	30-130	15.6	30	
Anthracene	0.0894	0.00067	"	0.166	<0.000334	53.8	30-130	21.5	30	
Benzo(a)anthracene	0.0852	0.00067	"	0.166	<0.000493	51.3	30-130	18.9	30	
Benzo(a)pyrene	0.0945	0.00067	"	0.166	<0.000468	56.9	30-130	19.5	30	
Benzo(b)fluoranthene	0.0675	0.00067	"	0.166	<0.000585	40.6	30-130	35.9	30	*
Surrogate: 2-Fluorobiphenyl	38.5		"	0.332	156	38.5	33-115			
Surrogate: Nitrobenzene-d5	40		"	0.332	162	40	29-110			
Surrogate: 4-Terphenyl-d14	64.1		"	0.332	191	64.1	33-122			

MS (L 83649-MS-L671251)		Source: 83649			Prepared: 03/22/2023 Analyzed: 03/22/2023					
Benzo(k)fluoranthene	0.106	0.00067	mg/Kg	0.164	<0.000437	64.6	30-130			
Acenaphthene	0.0976	0.00067	"	0.164	<0.000304	59.5	30-130			
Naphthalene	0.0941	0.00201	"	0.164	<0.00145	57.3	30-130			
Indeno(1,2,3-cd)pyrene	0.0916	0.00067	"	0.164	<0.000627	55.8	30-130			
Fluorene	0.106	0.00067	"	0.164	<0.000286	64.6	30-130			
Fluoranthene	0.107	0.00067	"	0.164	<0.000394	65.2	30-130			
Dibenz(a,h)anthracene	0.129	0.00067	"	0.164	<0.000614	78.6	30-130			

Origins Laboratory, Inc.



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

Martin C Eckert III
Project Number: [none]
Project: Noble - Foy Y #20-6

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L671251 - 3550B

MS (L 83649-MS-L671251)		Source: 83649			Prepared: 03/22/2023 Analyzed: 03/22/2023					
Chrysene	0.111	0.00067	mg/Kg	0.164	<0.000624	67.6	30-130			
1-Methylnaphthalene	0.0967	0.00201	"	0.164	<0.00109	58.9	30-130			
Benzo(a)pyrene	0.115	0.00067	"	0.164	<0.000468	70.1	30-130			
Anthracene	0.111	0.00067	"	0.164	<0.000334	67.6	30-130			
Pyrene	0.109	0.00067	"	0.164	<0.000643	66.4	30-130			
2-Methylnaphthalene	0.0927	0.00201	"	0.164	<0.00194	56.5	30-130			
Benzo(b)fluoranthene	0.0971	0.00067	"	0.164	<0.000585	59.2	30-130			
Benzo(a)anthracene	0.103	0.00067	"	0.164	<0.000493	62.8	30-130			
Surrogate: Nitrobenzene-d5	49.5		"	0.329	162	49.5	29-110			
Surrogate: 4-Terphenyl-d14	59.8		"	0.329	191	59.8	33-122			
Surrogate: 2-Fluorobiphenyl	48.6		"	0.329	156	48.6	33-115			

LCS (LCS-L671251)		Prepared: 03/22/2023 Analyzed: 03/22/2023								
Chrysene	0.121	0.00067	mg/Kg	0.167		72.4	30-130			
Dibenz(a,h)anthracene	0.143	0.00067	"	0.167		85.6	30-130			
Fluoranthene	0.116	0.00067	"	0.167		69.4	30-130			
Fluorene	0.116	0.00067	"	0.167		69.4	30-130			
Indeno(1,2,3-cd)pyrene	0.104	0.00067	"	0.167		62.2	30-130			
Naphthalene	0.101	0.00201	"	0.167		60.4	30-130			
Benzo(k)fluoranthene	0.107	0.00067	"	0.167		64	30-130			
Pyrene	0.118	0.00067	"	0.167		70.6	30-130			
Benzo(a)pyrene	0.124	0.00067	"	0.167		74.2	30-130			
Benzo(a)anthracene	0.112	0.00067	"	0.167		67	30-130			
Anthracene	0.12	0.00067	"	0.167		71.8	30-130			
Acenaphthene	0.107	0.00067	"	0.167		64	30-130			
2-Methylnaphthalene	0.0991	0.00201	"	0.167		59.3	30-130			
1-Methylnaphthalene	0.103	0.00201	"	0.167		61.6	30-130			

Origins Laboratory, Inc.



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

Martin C Eckert III
Project Number: [none]
Project: Noble - Foy Y #20-6

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch L671251 - 3550B										
LCS (LCS-L671251)					Prepared: 03/22/2023 Analyzed: 03/22/2023					
Benzo(b)fluoranthene	0.112	0.00067	mg/Kg	0.167		67	30-130			
Surrogate: Nitrobenzene-d5	56.1		"	0.333		56.1	29-110			
Surrogate: 4-Terphenyl-d14	66.3		"	0.333		66.3	33-122			
Surrogate: 2-Fluorobiphenyl	56.4		"	0.333		56.4	33-115			
LRB (LRB-L671251)					Prepared: 03/22/2023 Analyzed: 03/22/2023					
Chrysene	ND	0.00067	mg/Kg				-			
Dibenz(a,h)anthracene	ND	0.00067	"				-			
Fluoranthene	ND	0.00067	"				-			
Fluorene	ND	0.00067	"				-			
Benzo(k)fluoranthene	ND	0.00067	"				-			
Naphthalene	ND	0.00201	"				-			
Indeno(1,2,3-cd)pyrene	ND	0.00067	"				-			
Benzo(b)fluoranthene	ND	0.00067	"				-			
Benzo(a)pyrene	ND	0.00067	"				-			
Benzo(a)anthracene	ND	0.00067	"				-			
Acenaphthene	ND	0.00067	"				-			
2-Methylnaphthalene	ND	0.00201	"				-			
1-Methylnaphthalene	ND	0.00201	"				-			
Pyrene	ND	0.00067	"				-			
Anthracene	ND	0.00067	"				-			
Surrogate: Nitrobenzene-d5	51.6		"	0.333		51.6	29-110			
Surrogate: 4-Terphenyl-d14	60.6		"	0.333		60.6	33-122			
Surrogate: 2-Fluorobiphenyl	51.6		"	0.333		51.6	33-115			

Origins Laboratory, Inc.



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

Martin C Eckert III
Project Number: [none]
Project: Noble - Foy Y #20-6

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.

QR-DUP RPD exceeds QC acceptance criteria, this indicates source sample is not homogenous.

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

* 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.

Calculated results may use J-flag data (instead of reported "ND") as part of calculation to provide a more accurate result.

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.



April 24, 2023

Eagle Environmental Consulting, LLC

Martin C Eckert III

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - Noble - Foy Y #20-6

Project Number - [none]

Attached are your analytical results for Noble - Foy Y #20-6 received by Origins Laboratory, Inc. April 11, 2023. This project is associated with Origins project number Y304205-01.

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, LLC

8000 W 44th Ave

Wheat Ridge CO 80033

Martin C Eckert III

Project Number: [none]

Project: Noble - Foy Y #20-6

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Background-01@3'	Y304205-01	Soil	March 17, 2023 12:45	04/11/2023 08:51

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, LLC
8000 W 44th Ave
Wheat Ridge CO 80033

Martin C Eckert III
Project Number: [none]
Project: Noble - Foy Y #20-6

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: 4304205

Client: Eagle

Client Project ID: Foy Y #20-6

Checklist Completed by: EMS HSM

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

Date/time completed: 4/11/23

Airbill #: N/A

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

Cooler Number/Temperature: 1 / 0.1 °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 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.

Reviewed by (Project Manager) [Signature]

Date/Time Reviewed 4/12/23

Origins Laboratory, Inc.

[Signature]

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

Martin C Eckert III
Project Number: [none]
Project: Noble - Foy Y #20-6

Background-01@3'

3/17/2023 12:45:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y304205-01 (Soil)

Metals by Saturated Paste by EPA 6010

Calcium	23.7	0.499	meq/L	10	[CALC]	KAP	04/18/2023	04/19/2023
Magnesium	23.7	0.823	"	"	"	KAP	"	"
Sodium	43.3	0.435	"	"	"	KAP	"	"

pH in Soil by 9045D

pH	7.85		pH Units	1	B3D1817	HJD	04/18/2023	04/19/2023
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SAR by 20B Saturated Paste

SAR	8.89		SAR	1	B3D1812	KAP	04/18/2023	04/19/2023
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Origins Laboratory, Inc.



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

Martin C Eckert III
Project Number: [none]
Project: Noble - Foy Y #20-6

Classical Chemistry Parameters - Quality Control

Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B3D1812 - Saturated Paste Metals										
Blank (B3D1812-BLK1)					Prepared: 04/18/2023 Analyzed: 04/19/2023					
SAR	0.00		SAR							
Calcium PPM	ND	10.0	mg/L							
Magnesium PPM	ND	10.0	"							
Sodium PPM	ND	10.0	"							
Duplicate (B3D1812-DUP1)					Source: Y304204-01		Prepared: 04/18/2023 Analyzed: 04/19/2023			
SAR	0.00		SAR		0.333			200	200	
Calcium PPM	84.1	10.0	mg/L		128			41.8	50	
Magnesium PPM	31.0	10.0	"		48.0			43.2	50	
Sodium PPM	13.5	10.0	"		17.5			25.6	50	

Origins Laboratory, Inc.



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

Martin C Eckert III
Project Number: [none]
Project: Noble - Foy Y #20-6

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 B3D1817 - Saturated Paste pH/EC

Duplicate (B3D1817-DUP1)		Source: Y304204-01			Prepared: 04/18/2023 Analyzed: 04/19/2023					
pH	6.35		pH Units		6.22			2.07	25	

Origins Laboratory, Inc.



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Eagle Environmental Consulting, LLC

8000 W 44th Ave

Wheat Ridge CO 80033

Martin C Eckert III

Project Number: [none]

Project: Noble - Foy Y #20-6

Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported at a wet weight basis.

Origins Laboratory, Inc.



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