

Wellhead Closure Checklist

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

Additional attachments (optional):		Pit Closure --		Tank Battery Closure --		Flowline Closure --		Partially Buried Vault Closure --
Site Name & COGCC Facility Number: Prospect CO #26-1114		Date: 4-6-23					Remediation Project #: 26859	
Associated Wells: 05-123-18066		Age of Site: years					Number of Photos Attached: 1	
Location: (GPS coordinates of wellhead or southeastern most wellhead for multiple) 40.282141 / -104.520385							Estimated Facility Size (acres):	
General Condition of Site: (General observations regarding housekeeping, corrosion, waste management, etc.) Good condition								
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								
Wellhead(s)								
Well API	05-123-18066							
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	0.5	0.5	0.5	0.7	1.5			
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? <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: 1.5				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? <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:								

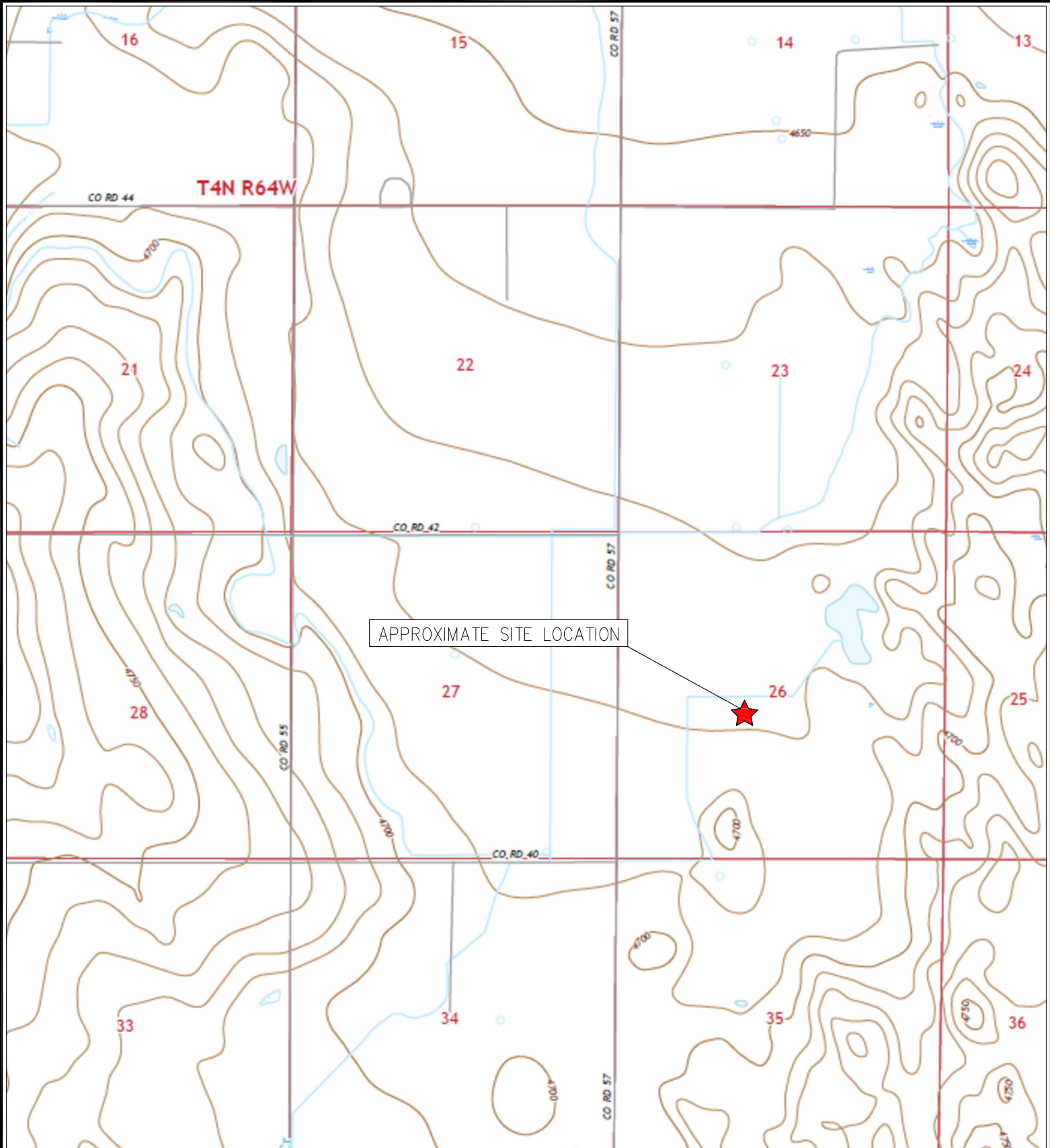


FIGURES

Figure 1: Topographic Site Location Map

Figure 2: Aerial Site Location Map

Figure 3: Soil Analytical Map



TOPOGRAPHIC SITE LOCATION MAP
 PROSPECT CO #26-1114
 CLOSURE ASSESSMENT
 40.282141 / -104.520385
 NE¼ SW¼ SEC.26 T4N R64W 6PM
 WELD COUNTY, COLORADO
 API # 05-123-18066
 REMEDIATION # 26859



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 CONSULTING, LLC




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

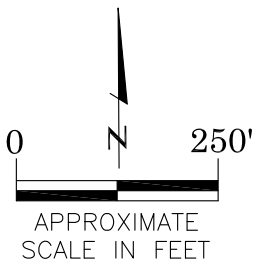
SOURCE: USGS 7.5 MINUTE TOPOGRAPHIC MAP
 VALLEY VIEW SCHOOL, CO QUADRANGLE 2022

FIGURE NO. 1



LEGEND

-  FORMER PROSPECT CO #26-1114 WELLHEAD (PLUGGED AND ABANDONED)
-  ASSOCIATED SEPARATOR
-  APPROXIMATE FLOWLINE LOCATION



AERIAL SITE LOCATION MAP
PROSPECT CO #26-1114
CLOSURE ASSESSMENT
40.282141 / -104.520385
NE $\frac{1}{4}$ SW $\frac{1}{4}$ SEC.26 T4N R64W 6PM
WELD COUNTY, COLORADO
API # 05-123-18066
REMEDATION # 26859

FIGURE NO.
2
DRAWN BY:
CT



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

COGCC = COLORADO OIL AND GAS CONSERVATION COMMISSION OMISSION

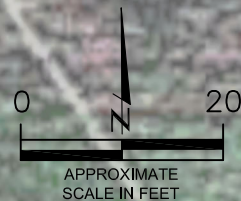
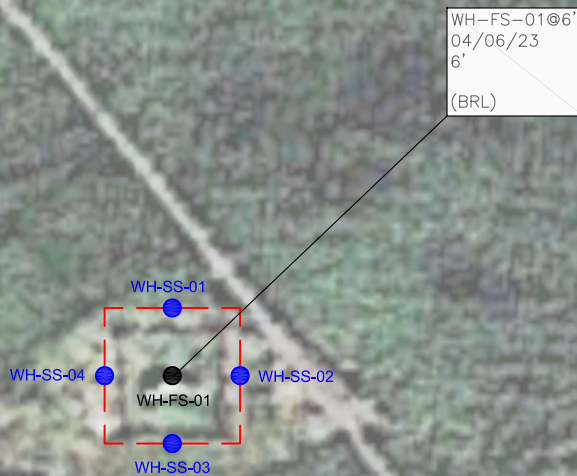
SOIL ANALYTICAL MAP
PROSPECT CO #26-1114
CLOSURE ASSESSMENT
40.282141 / -104.520385
NE¼ SW¼ SEC.26 T4N R64W 6PM
WELD COUNTY, COLORADO
API # 05-123-18066
REMEDATION # 26859

FIGURE NO.
3

DRAWN BY:
CT



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TABLES

Table 1: Photoionization Detector Reading Summary

Table 2: Soil Analytical Results Summary

TABLE 1
PHOTOIONIZATION DETECTOR READING SUMMARY
PROSPECT CO #26-1114
CLOSURE ASSESSMENT
40.282141 / -104.520385
NE¼ SW¼ SEC.26 T4N R64W 6PM
WELD COUNTY, COLORADO
API # 05-123-18066
REMEDATION # 26859

Sample Location (Latitude/Longitude)	Date	Approximate Depth (feet)	PID Reading (ppm-v)	Lab Submission (Y/N)
WH-SS-01 @ 5' (40.282168 / -104.520400)	04/06/23	5	0.5	N
WH-SS-02 @ 5' (40.282151 / -104.520379)	04/06/23	5	0.5	N
WH-SS-03 @ 5' (40.282133 / -104.520399)	04/06/23	5	0.5	N
WH-SS-04 @ 5' (40.282152 / -104.520425)	04/06/23	5	0.7	N
WH-FS-01 @ 6' (40.282151 / -104.520400)	04/06/23	6	1.5	Y
(Y/N) = Yes or No ppm-v = parts per million by volume PID = Photoionization Detector				

TABLE 2
SOIL ANALYTICAL RESULTS SUMMARY
PROSPECT CO #26-1114
CLOSURE ASSESSMENT
40.282141 / -104.520385
NE¼ SW¼ SEC.26 T4N R64W 6PM
WELD COUNTY, COLORADO
API # 05-123-18066
REMEDATION # 26859

Sample Location				WH-FS-01 @ 6'
(Latitude / Longitude)				(40.282151 / -104.520400)
Sample Date				4/6/2023
Sample Depth				6'
PID Reading (ppm-v)				1.5
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
Toluene	mg/kg	490	0.69	<0.00200
Ethylbenzene	mg/kg	5.8	0.78	<0.00200
Total Xylenes	mg/kg	58	9.9	<0.00200
1,2,4-Trimethylbenzene	mg/kg	30	0.0081	<0.00200
1,3,5-Trimethylbenzene	mg/kg	27	0.0087	<0.00200
TOTAL PETROLEUM HYDROCARBONS				
TPH-GRO	mg/kg	500	--	<0.200
TPH-DRO	mg/kg	500	--	<25.0
TPH-RRO	mg/kg	500	--	<100
POLYCYCLIC AROMATIC HYDROCARBONS				
1-Methyl-naphthalene	mg/kg	18	0.006	<0.00201
2-Methyl-naphthalene	mg/kg	24	0.019	<0.00201
Acenaphthene	mg/kg	360	0.55	<0.00067
Anthracene	mg/kg	1800	5.8	<0.00067
Benzo(a)-anthracene	mg/kg	1.1	0.011	<0.00067
Benzo(a)-pyrene	mg/kg	0.11	0.24	0.000808
Benzo(b)-fluoranthene	mg/kg	1.1	0.3	<0.00067
Benzo(k)-fluoranthene	mg/kg	11	2.9	<0.00067
Chrysene	mg/kg	110	9	<0.00067
Dibenzo(a,h)-anthracene	mg/kg	0.11	0.096	<0.00067
Fluoranthene	mg/kg	240	8.9	<0.00067
Fluorene	mg/kg	240	0.54	<0.00067
Indeno(1,2,3-cd)-pyrene	mg/kg	1.1	0.98	<0.00067
Naphthalene	mg/kg	2	0.0038	<0.00201
Pyrene	mg/kg	180	1.3	<0.00067
SOIL SUITABILITY (Inorganics)				
Boron	mg/L	2	--	<0.0982
pH	standard unit	6-8.3	--	8.03
Sodium Adsorption Ratio (SAR)	--	<6	--	3.90
Specific Conductance (EC)	mmhos/cm	<4	--	2.10
COGCC = Colorado Oil and Gas Conservation Commission NA - Not Analyzed VOCs - Volatile Organic Compounds mg/kg = milligrams per kilogram RSSLs = Residential Soil Screening Levels mmhos/cm = millimhos per centimeter GSSLs = Protection of Groundwater Soil Screening Levels PID = Photoionization Detector TPH-GRO = Total Petroleum Hydrocarbons - Gasoline Range Organics ppm-v = parts per million by volume TPH-DRO = Total Petroleum Hydrocarbons - Diesel Range Organics mg/L = milligrams per liter TPH-RRO = Total Petroleum Hydrocarbons - Residual Range Organics SAR = Sodium Adsorption Ratio 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

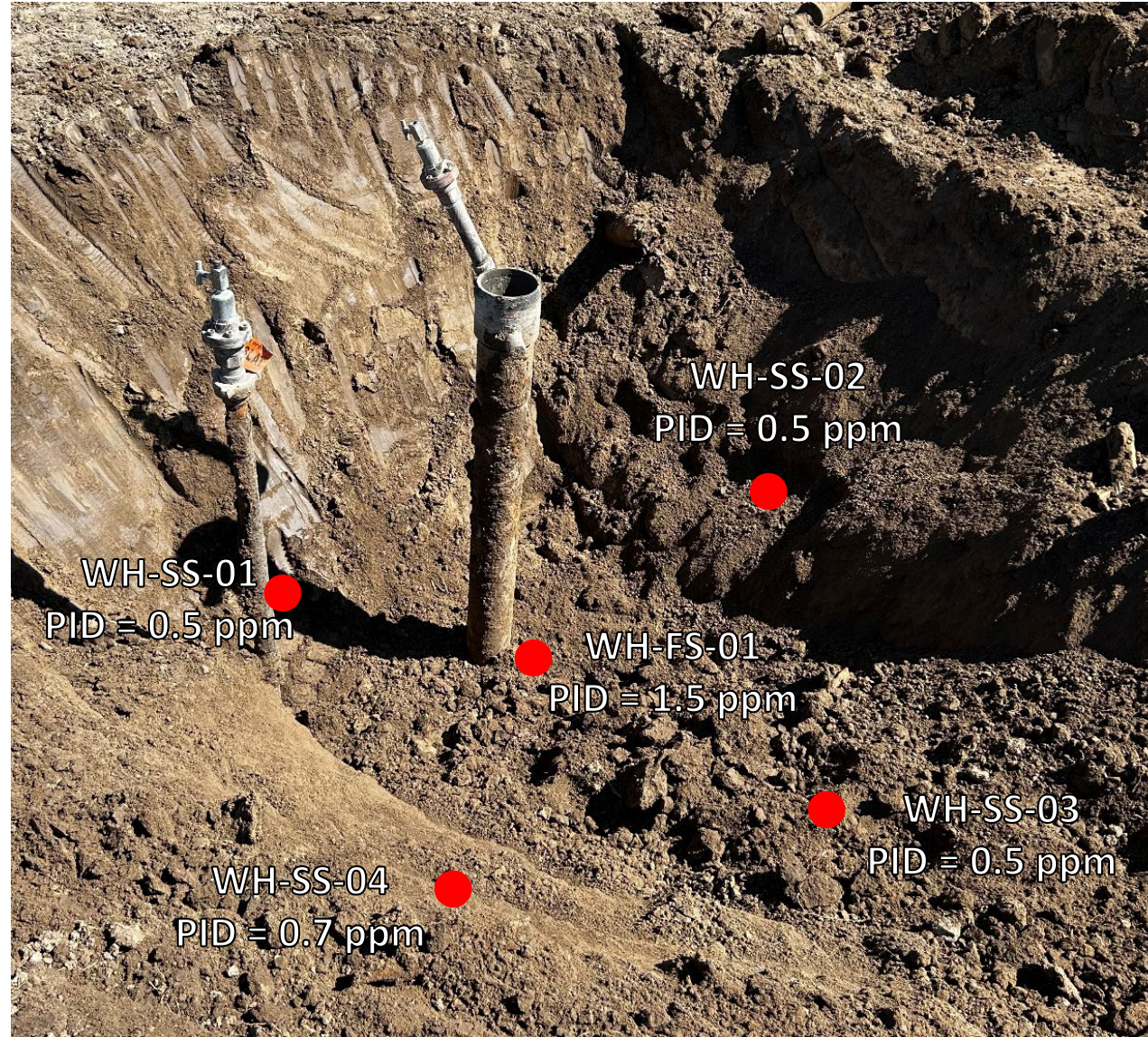
Prospect CO #26-1114
API # 05-123-18066
Remediation # 26859

Closure Assessment

April 2023



Wellhead Excavation – 04/06/23



Looking northeast

No petroleum hydrocarbon staining or odor observed



ATTACHMENT B

Laboratory Analytical Report



April 20, 2023

Eagle Environmental Consulting, LLC

Martin C Eckert III

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - Noble - Prospect CO #26-1114

Project Number - [none]

Attached are your analytical results for Noble - Prospect CO #26-1114 received by Origins Laboratory, Inc. April 06, 2023. This project is associated with Origins project number Y304137-01.

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 - Prospect CO #26-1114

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
WH-FS-01@6'	Y304137-01	Soil	April 6, 2023 11:28	04/06/2023 16:32

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.

Jordan A. Bynon, Project Manager

Martin C Eckert III
Project Number: [none]
Project: Noble - Prospect CO #26-1114

[illegible]

Origins Laboratory, Inc.

Byron

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 - Prospect CO #26-1114

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: 4304137

Client: Eagle

Client Project ID: Prospect CO #26-1114

Checklist Completed by: EHS HSH

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

Date/time completed: 4/6/23

Airbill #: NA

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

Cooler Number/Temperature: 1 / 11 °C 1 °C 1 °C (Describe) _____ °C

Thermometer ID: 7004

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)			<input checked="" type="checkbox"/>	
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)			<input checked="" type="checkbox"/>	
Were all samples received intact ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?		<input checked="" type="checkbox"/>		
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.			<input checked="" type="checkbox"/>	
Are samples preserved that require preservation and was it checked ⁽¹⁾ ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)/(pH <2 for samples preserved with HNO ₃ , HCL, H ₂ SO ₄) / (pH >10 for samples preserved with NaAsO ₂ +NaOH, ZnAc+NaOH)			<input checked="" type="checkbox"/>	
Additional Comments (if any):				

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

Reviewed by: JB Project Manager

Date/Time Reviewed: 4-11-23

Origins Laboratory, Inc.

JB

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 - Prospect CO #26-11I4

WH-FS-01@6'
4/6/2023 11:28:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y304137-01 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.0982	mg/L	1	B3D0709	04/07/2023	04/12/2023	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3D0702	04/07/2023	04/14/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	93.9 %	50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3D1105	04/11/2023	04/11/2023	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	116 %	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 - Prospect CO #26-1114

WH-FS-01@6'

4/6/2023 11:28:00AM

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

Origins Laboratory, Inc.
Y304137-01 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	93.2 %	70-130	B3D11 05	04/11/2023	04/11/2023
Surrogate: 4-Bromofluorobenzene	94.1 %	70-130	"	"	"

Metals by Saturated Paste by EPA 6010

Calcium	7.14	0.499	meq/L	10	[CALC]	04/07/2023	04/12/2023
Magnesium	3.33	0.823	"	"	"	"	"
Sodium	8.93	0.435	"	"	"	"	"

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00109	0.00201	mg/Kg	1	L675844	04/13/2023	04/13/2023
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	0.000808	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 - Prospect CO #26-1114

WH-FS-01@6'

4/6/2023 11:28:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.
Y304137-01 (Soil)

PAH by 8270D SIM

Fluorene	ND	0.000286	0.00067	mg/Kg	1	L675844	04/13/2023	04/13/2023
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	53.8 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	58.5 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	47.1 %	29-110	"	"	"

pH in Soil by 9045D

pH	8.03	pH Units	1	B3D0716	04/07/2023	04/08/2023
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SAR by 20B Saturated Paste

SAR	3.90	SAR	1	B3D0712	04/07/2023	04/12/2023
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	2.10	0.00500	mmhos/cm	1	B3D0716	04/07/2023	04/08/2023
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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 - Prospect CO #26-1114

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 B3D0702 - EPA 3550B										
Blank (B3D0702-BLK1)					Prepared: 04/07/2023 Analyzed: 04/14/2023					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	24		"	24.9		98.1	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 - Prospect CO #26-1114

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 B3D0702 - EPA 3550B

LCS (B3D0702-BS1)

Prepared: 04/07/2023 Analyzed: 04/14/2023

Diesel (C10-C28)	1000	50.0	mg/kg	1000		100	70-130			
Residual Range Organics (C28-C40)	1020	200	"	1000		102	70-130			
Surrogate: o-Terphenyl	57		"	49.8		116	50-150			

Origins Laboratory, Inc.



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Jordan A. Bynon, Project Manager

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

Martin C Eckert III
Project Number: [none]
Project: Noble - Prospect CO #26-1114

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 B3D0702 - EPA 3550B

Matrix Spike (B3D0702-MS1)		Source: Y304110-01			Prepared: 04/07/2023 Analyzed: 04/14/2023					
Diesel (C10-C28)	1410	50.0	mg/kg	1000	179	123	70-130			
Residual Range Organics (C28-C40)	1240	200	"	1000	ND	124	70-130			
Surrogate: o-Terphenyl	65		"	49.8		131	50-150			

Origins Laboratory, Inc.



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Wheat Ridge CO 80033

Martin C Eckert III
Project Number: [none]
Project: Noble - Prospect CO #26-1114

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 B3D0702 - EPA 3550B

Matrix Spike Dup (B3D0702-MSD1)		Source: Y304110-01			Prepared: 04/07/2023 Analyzed: 04/14/2023					
Diesel (C10-C28)	1190	50.0	mg/kg	1000	179	101	70-130	16.7	35	
Residual Range Organics (C28-C40)	1060	200	"	1000	ND	106	70-130	15.9	35	
Surrogate: o-Terphenyl	56		"	49.8		113	50-150			

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Wheat Ridge CO 80033

Martin C Eckert III
Project Number: [none]
Project: Noble - Prospect CO #26-1114

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 B3D1105 - EPA 5030 (soil)										
Blank (B3D1105-BLK1)					Prepared: 04/11/2023 Analyzed: 04/11/2023					
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		101	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		97.3	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		92.8	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 - Prospect CO #26-1114

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 B3D1105 - EPA 5030 (soil)										
LCS (B3D1105-BS1)					Prepared: 04/11/2023 Analyzed: 04/11/2023					
1,2,4-Trimethylbenzene	0.0875	0.00200	mg/kg	0.100		87.5	70-130			
1,3,5-Trimethylbenzene	0.0829	0.00200	"	0.100		82.9	70-130			
Benzene	0.0816	0.00200	"	0.100		81.6	70-130			
Ethylbenzene	0.0857	0.00200	"	0.100		85.7	70-130			
Naphthalene	0.0953	0.00380	"	0.100		95.3	70-130			
Toluene	0.0803	0.00200	"	0.100		80.3	70-130			
o-Xylene	0.0879	0.00200	"	0.100		87.9	70-130			
m,p-Xylene	0.171	0.00400	"	0.200		85.7	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		97.2	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		95.5	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		98.8	70-130			

Origins Laboratory, Inc.



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Eagle Environmental Consulting, LLC
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Martin C Eckert III
Project Number: [none]
Project: Noble - Prospect CO #26-1114

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 B3D1105 - EPA 5030 (soil)										
Matrix Spike (B3D1105-MS1)		Source: Y304111-01			Prepared: 04/11/2023 Analyzed: 04/19/2023					
1,2,4-Trimethylbenzene	0.0985	0.00200	mg/kg	0.100	ND	98.5	70-130			
1,3,5-Trimethylbenzene	0.0969	0.00200	"	0.100	ND	96.9	70-130			
Benzene	0.0887	0.00200	"	0.100	ND	88.7	70-130			
Ethylbenzene	0.0924	0.00200	"	0.100	ND	92.4	70-130			
Naphthalene	0.103	0.00380	"	0.100	ND	103	70-130			
Toluene	0.0857	0.00200	"	0.100	ND	85.7	70-130			
o-Xylene	0.0994	0.00200	"	0.100	ND	99.4	70-130			
m,p-Xylene	0.198	0.00400	"	0.200	ND	99.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.096		"	0.125		76.7	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		96.8	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		98.0	70-130			

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Martin C Eckert III
Project Number: [none]
Project: Noble - Prospect CO #26-1114

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 B3D1105 - EPA 5030 (soil)										
Matrix Spike Dup (B3D1105-MSD1)		Source: Y304111-01			Prepared: 04/11/2023 Analyzed: 04/19/2023					
1,2,4-Trimethylbenzene	0.0947	0.00200	mg/kg	0.100	ND	94.7	70-130	3.93	20	
1,3,5-Trimethylbenzene	0.0919	0.00200	"	0.100	ND	91.9	70-130	5.38	20	
Benzene	0.0881	0.00200	"	0.100	ND	88.1	70-130	0.702	20	
Ethylbenzene	0.0894	0.00200	"	0.100	ND	89.4	70-130	3.28	20	
Naphthalene	0.101	0.00380	"	0.100	ND	101	70-130	2.31	20	
Toluene	0.0843	0.00200	"	0.100	ND	84.3	70-130	1.60	20	
o-Xylene	0.0966	0.00200	"	0.100	ND	96.6	70-130	2.88	20	
m,p-Xylene	0.194	0.00400	"	0.200	ND	97.1	70-130	2.12	20	
Surrogate: 1,2-Dichloroethane-d4	0.093		"	0.125		74.4	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		96.1	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		98.5	70-130			

Origins Laboratory, Inc.



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Wheat Ridge CO 80033

Martin C Eckert III
Project Number: [none]
Project: Noble - Prospect CO #26-1114

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 B3D0709 - DTPA Sorbitol Preparation

Blank (B3D0709-BLK1)

Prepared: 04/07/2023 Analyzed: 04/12/2023

Boron ND 0.100 mg/L

Duplicate (B3D0709-DUP1)

Source: Y304101-01

Prepared: 04/07/2023 Analyzed: 04/12/2023

Boron 0.127 0.0991 mg/L 0.121 4.45 50

Batch B3D0712 - Saturated Paste Metals

Blank (B3D0712-BLK1)

Prepared: 04/07/2023 Analyzed: 04/12/2023

Calcium PPM ND 10.0 mg/L

SAR 0.00 SAR

Magnesium PPM ND 10.0 mg/L

Sodium PPM ND 10.0 "

Duplicate (B3D0712-DUP1)

Source: Y304103-01

Prepared: 04/07/2023 Analyzed: 04/12/2023

SAR 0.00 SAR 2.47 200 200

Calcium PPM 42.9 10.0 mg/L 48.2 11.6 50

Magnesium PPM 9.40 10.0 " 10.9 14.9 50

Sodium PPM 61.3 10.0 " 72.9 17.2 50

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Wheat Ridge CO 80033

Martin C Eckert III
Project Number: [none]
Project: Noble - Prospect CO #26-1114

Saturated Paste - Quality Control Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B3D0716 - Saturated Paste pH/EC										
Blank (B3D0716-BLK1)					Prepared: 04/07/2023 Analyzed: 04/08/2023					
Specific Conductance (EC)	ND	0.00500	mmhos/cm							
Duplicate (B3D0716-DUP1)					Source: Y304103-01 Prepared: 04/07/2023 Analyzed: 04/08/2023					
Specific Conductance (EC)	0.623	0.00500	mmhos/cm		0.651			4.46	25	
pH	7.98		pH Units		8.02			0.500	25	

Origins Laboratory, Inc.



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Wheat Ridge CO 80033

Martin C Eckert III
Project Number: [none]
Project: Noble - Prospect CO #26-1114

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 L675844 - 3550B

MSD (L 94605-MSD-L675844)		Source: 94605			Prepared: 04/13/2023 Analyzed: 04/13/2023					
2-Methylnaphthalene	0.117	0.00201	mg/Kg	0.166	<0.00194	70.4	30-130	6.6	30	
Fluorene	0.117	0.00067	"	0.166	<0.000286	70.4	30-130	3.3	30	
Pyrene	0.124	0.00067	"	0.166	<0.000643	74.6	30-130	2.3	30	
Indeno(1,2,3-cd)pyrene	0.119	0.00067	"	0.166	<0.000627	71.6	30-130	9.6	30	
Fluoranthene	0.125	0.00067	"	0.166	<0.000394	75.3	30-130	2.3	30	
Dibenz(a,h)anthracene	0.13	0.00067	"	0.166	<0.000614	78.3	30-130	0.7	30	
Chrysene	0.119	0.00067	"	0.166	<0.000624	71.6	30-130	1.6	30	
Naphthalene	0.108	0.00201	"	0.166	<0.00145	65	30-130	5.4	30	
1-Methylnaphthalene	0.113	0.00201	"	0.166	<0.00109	68	30-130	6	30	
Benzo(k)fluoranthene	0.107	0.00067	"	0.166	<0.000437	64.4	30-130	0	30	
Acenaphthene	0.114	0.00067	"	0.166	<0.000304	68.6	30-130	5.1	30	
Anthracene	0.119	0.00067	"	0.166	<0.000334	71.6	30-130	4.1	30	
Benzo(a)anthracene	0.13	0.00067	"	0.166	<0.000493	78.3	30-130	4.5	30	
Benzo(a)pyrene	0.125	0.00067	"	0.166	0.000742	74.8	30-130	0.7	30	
Benzo(b)fluoranthene	0.104	0.00067	"	0.166	0.000604	62.2	30-130	4.6	30	
Surrogate: 2-Fluorobiphenyl	64.4		"	0.332	197	64.4	33-115			
Surrogate: Nitrobenzene-d5	57.2		"	0.332	167	57.2	29-110			
Surrogate: 4-Terphenyl-d14	67.4		"	0.332	209	67.4	33-122			

MS (L 94605-MS-L675844)		Source: 94605			Prepared: 04/13/2023 Analyzed: 04/13/2023					
Benzo(k)fluoranthene	0.107	0.00067	mg/Kg	0.166	<0.000437	64.4	30-130			
Acenaphthene	0.12	0.00067	"	0.166	<0.000304	72.2	30-130			
Naphthalene	0.114	0.00201	"	0.166	<0.00145	68.6	30-130			
Indeno(1,2,3-cd)pyrene	0.108	0.00067	"	0.166	<0.000627	65	30-130			
Fluorene	0.121	0.00067	"	0.166	<0.000286	72.8	30-130			
Fluoranthene	0.128	0.00067	"	0.166	<0.000394	77.1	30-130			
Dibenz(a,h)anthracene	0.131	0.00067	"	0.166	<0.000614	78.9	30-130			

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Wheat Ridge CO 80033

Martin C Eckert III
Project Number: [none]
Project: Noble - Prospect CO #26-1114

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 L675844 - 3550B

MS (L 94605-MS-L675844)		Source: 94605			Prepared: 04/13/2023 Analyzed: 04/13/2023					
Chrysene	0.121	0.00067	mg/Kg	0.166	<0.000624	72.8	30-130			
1-Methylnaphthalene	0.12	0.00201	"	0.166	<0.00109	72.2	30-130			
Benzo(a)pyrene	0.126	0.00067	"	0.166	0.000742	75.4	30-130			
Anthracene	0.124	0.00067	"	0.166	<0.000334	74.6	30-130			
Pyrene	0.127	0.00067	"	0.166	<0.000643	76.5	30-130			
2-Methylnaphthalene	0.125	0.00201	"	0.166	<0.00194	75.3	30-130			
Benzo(b)fluoranthene	0.109	0.00067	"	0.166	0.000604	65.2	30-130			
Benzo(a)anthracene	0.136	0.00067	"	0.166	<0.000493	81.9	30-130			
Surrogate: Nitrobenzene-d5	59.6		"	0.332	167	59.6	29-110			
Surrogate: 4-Terphenyl-d14	67.4		"	0.332	209	67.4	33-122			
Surrogate: 2-Fluorobiphenyl	67.7		"	0.332	197	67.7	33-115			

LCS (LCS-L675844)		Prepared: 04/13/2023 Analyzed: 04/13/2023								
Chrysene	0.125	0.00067	mg/Kg	0.167		74.8	30-130			
Dibenz(a,h)anthracene	0.115	0.00067	"	0.167		68.8	30-130			
Fluoranthene	0.135	0.00067	"	0.167		80.8	30-130			
Fluorene	0.124	0.00067	"	0.167		74.2	30-130			
Indeno(1,2,3-cd)pyrene	0.0951	0.00067	"	0.167		56.9	30-130			
Naphthalene	0.114	0.00201	"	0.167		68.2	30-130			
Benzo(k)fluoranthene	0.111	0.00067	"	0.167		66.4	30-130			
Pyrene	0.135	0.00067	"	0.167		80.8	30-130			
Benzo(a)pyrene	0.138	0.00067	"	0.167		82.6	30-130			
Benzo(a)anthracene	0.138	0.00067	"	0.167		82.6	30-130			
Anthracene	0.126	0.00067	"	0.167		75.4	30-130			
Acenaphthene	0.122	0.00067	"	0.167		73	30-130			
2-Methylnaphthalene	0.122	0.00201	"	0.167		73	30-130			
1-Methylnaphthalene	0.119	0.00201	"	0.167		71.2	30-130			

Origins Laboratory, Inc.



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Martin C Eckert III
Project Number: [none]
Project: Noble - Prospect CO #26-1114

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 L675844 - 3550B

LCS (LCS-L675844)

Prepared: 04/13/2023 Analyzed: 04/13/2023

Benzo(b)fluoranthene	0.102	0.00067	mg/Kg	0.167		61	30-130			
Surrogate: Nitrobenzene-d5	63		"	0.333		63	29-110			
Surrogate: 4-Terphenyl-d14	78		"	0.333		78	33-122			
Surrogate: 2-Fluorobiphenyl	72.3		"	0.333		72.3	33-115			

LRB (LRB-L675844)

Prepared: 04/13/2023 Analyzed: 04/13/2023

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	59.1		"	0.333		59.1	29-110			
Surrogate: 4-Terphenyl-d14	66.9		"	0.333		66.9	33-122			
Surrogate: 2-Fluorobiphenyl	63.9		"	0.333		63.9	33-115			

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8000 W 44th Ave
Wheat Ridge CO 80033

Martin C Eckert III
Project Number: [none]
Project: Noble - Prospect CO #26-1114

Notes and Definitions

U Sample is Non-Detect.

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.



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