

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: Howard A #27-7		Date: 1-13-22						Remediation Project #: 20372
Associated Wells: 05-123-22303		Age of Site: years						Number of Photos Attached: 1
Location: (GPS coordinates of wellhead or southeastern most wellhead for multiple) 40.4587961 -104.533406								Estimated Facility Size (acres):
General Condition of Site: (General observations regarding housekeeping, corrosion, waste management, etc.) <div style="text-align: center; font-size: 1.2em;">Good condition</div>								
USCS Soil Type: SW				Estimated Depth to Groundwater: ~7-15'				
Hydrocarbon Impacted Soils / Spills: (Note estimated size and if impact appears to be surficial or extends to an unknown depth) <div style="text-align: center; font-size: 1.2em;">None observed</div>								
Salt Crusted Soils or Impacted Vegetation: (Note estimated size and if impact appears to be surficial or extends to an unknown depth) <div style="text-align: center; font-size: 1.2em;">None observed</div>								
Wellhead(s)								
Well API	05-123-22303							
Age	years							
Condition of surface around wellhead	Good - Per Crew							
PID Readings	N/A - Excavated upon arrival							
Condition of subsurface (staining, odor)	Good - no staining / no odor							
PID Readings	7.2	1.2	6.3	4.2	11.3			
Sample taken? Location/Sample ID#	WH-SS-01 @ 5'	WH-SS-02 @ 5'	WH-SS-03 @ 5'	WH-SS-04 @ 5'	WH-FS-01 @ 6'			
Photo Number(s)	See photolog							
Other observations regarding wellheads: <div style="text-align: center; font-size: 1.2em;">Riser cut/capped following assessment</div>								
Summary								
Was impacted soil identified? <div style="display: flex; justify-content: space-between;"> <input checked="" type="radio"/> No Yes - less than 10 cubic yards Yes - more than 10 cubic yards </div>								
Total number of samples field screened: 5				Total number of samples collected: 5				
Highest PID Reading: 11.3				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? <div style="text-align: center; font-size: 1.5em;">N/A</div>								
Was groundwater encountered during the investigation? <div style="display: flex; justify-content: space-between;"> <input checked="" type="radio"/> No Yes - not impacted or in contact with impacted soils Yes - groundwater impacted and/or in contact with impacted soils </div>								
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:								



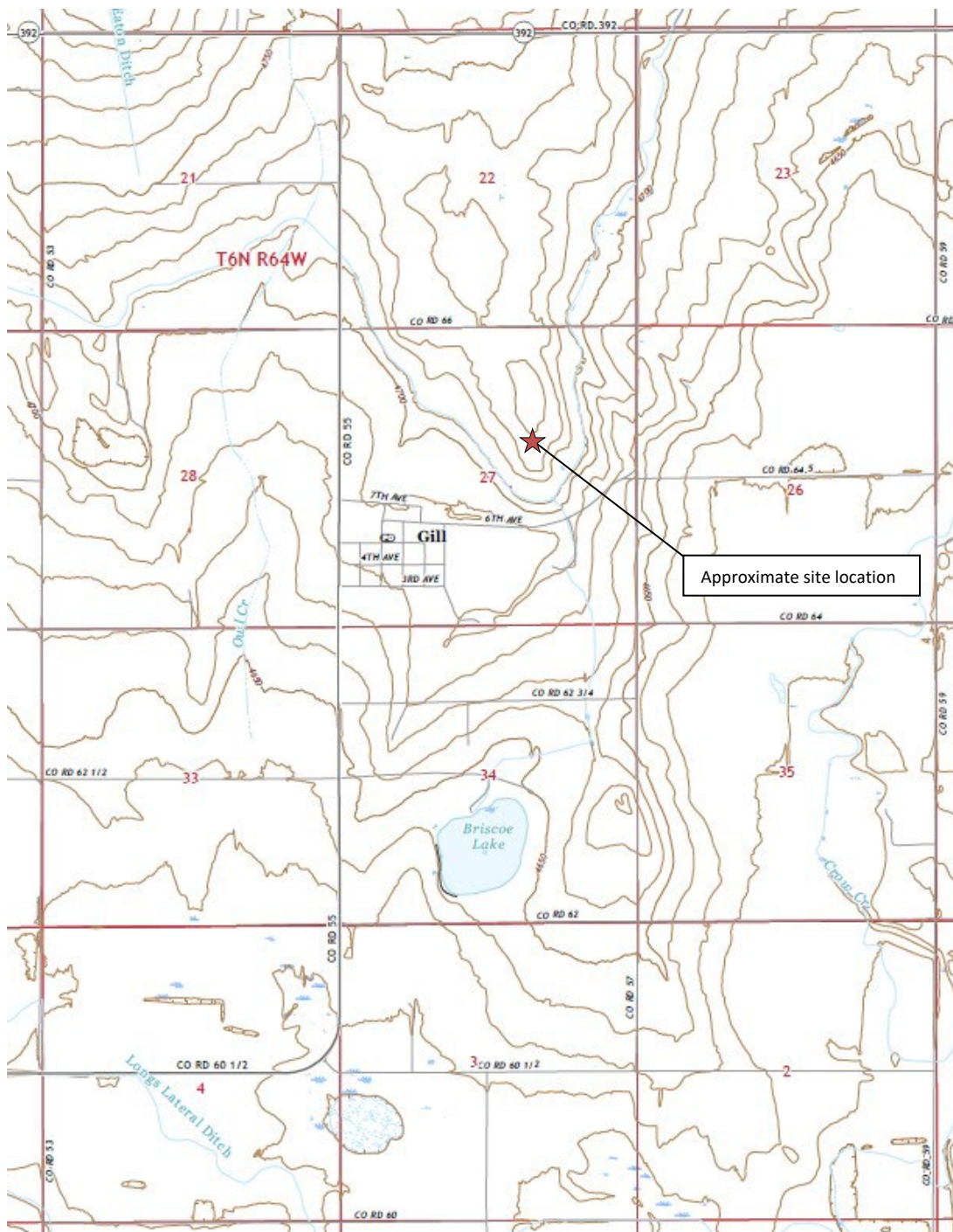
FIGURES

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

Howard A #27-7
 Closure Assessment
 40.458796 / -104.533406
 SW¼ NE¼ SEC.27 T6N R64W 6PM
 Weld County, Colorado
 API # 05-123-22303
 Remediation # 20372



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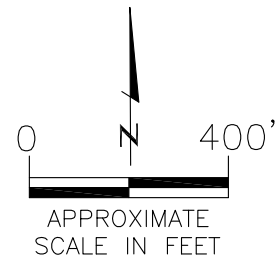
Source: USGS 7.5 Minute Topographic
 Map, Kersey, CO Quadrangle 2022

Figure 1



LEGEND

- FORMER HOWARD A #27-7 WELLHEAD (PLUGGED AND ABANDONED)
- ASSOCIATED SEPARATOR
- APPROXIMATE FLOWLINE LOCATION



AERIAL SITE LOCATION MAP

HOWARD A #27-7
CLOSURE ASSESSMENT
40.458796 / -104.533406
SW¼ NE¼ SEC.27 T6N R64W 6PM
WELD COUNTY, COLORADO
API # 05-123-22303
REMEDATION # 20372

DATE:

04/15/22

FIG. NO.

2

DRAWN BY:

RTG



EAGLE
ENVIRONMENTAL
CONSULTING, INC.

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



LEGEND

- — — INITIAL ASSESSMENT BOUNDARIES
- SS-02 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

NA - NOT ANALYZED

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** VALUES CONTAIN CONCENTRATIONS THAT EXCEED COGCC TABLE 915-1 REGULATORY LIMITS FOR THAT COMPOUND.

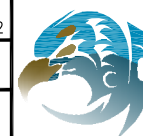
COGCC = COLORADO OIL AND GAS CONSERVATION COMMISSION

SOIL ANALYTICAL MAP
HOWARD A #27-7
CLOSURE ASSESSMENT
40.458796 / -104.533406
SW¼ NE¼ SEC.27 T6N R64W 6PM
WELD COUNTY, COLORADO
API # 05-123-22303
REMEDIATION # 20372

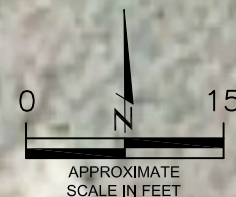
DATE:
04/15/22

DRAWN BY:
RTG

FIG.
NO. 3



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LEGEND

- — — INITIAL 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)

NOTE:
CONCENTRATIONS PRESENTED IN mg/kg

mg/kg = MILLIGRAMS PER KILOGRAM

ND = NON-DETECT

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

VALUES PRESENTED IN **BOLD** VALUES CONTAIN
CONCENTRATIONS EXCEEDING COGCC TABLE 915-1
REGULATORY LIMITS.

COGCC = COLORADO OIL AND GAS CONSERVATION COMMISSION

POLYCYCLIC AROMATIC HYDROCARBONS MAP

HOWARD A #27-7
CLOSURE ASSESSMENT
40.458796 / -104.533406
SW¼ NE¼ SEC.27 T6N R64W 6PM
WELD COUNTY, COLORADO
API # 05-123-22303
REMEDIAL # 20372

DATE:
04/15/22

DRAWN BY:
RTG

FIG.
NO. 4



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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
HOWARD A #27-7
CLOSURE ASSESSMENT
40.458796 / -104.533406
SW1/4 NE1/4 SEC.27 T6N R64W 6PM
WELD COUNTY, COLORADO
API # 05-123-22303
REMEDIATION # 20372

Sample Location (Latitude/Longitude)	Date	Approximate Depth (feet)	PID Reading (ppm-v)	Lab Submission (Y/N)
WH-SS-01 @ 5' (40.458802 / -104.533405)	01/13/22	5	7.2	N
WH-SS-02 @ 5' (40.458794 / -104.533397)	01/13/22	5	1.2	N
WH-SS-03 @ 5' (40.458789 / -104.533405)	01/13/22	5	6.3	N
WH-SS-04 @ 5' (40.458794 / -104.533415)	01/13/22	5	4.2	N
WH-FS-01 @ 6' (40.458794 / -104.533405)	01/13/22	6	11.3	Y
Background-01 @ 3' (40.458817 / -104.533425)	01/13/22	3	0.9	Y
(Y/N) = Yes or No ppm-v = parts per million by volume PID = Photoionization Detector				

TABLE 2
SOIL ANALYTICAL RESULTS SUMMARY
HOWARD A #27-7
CLOSURE ASSESSMENT
40.458796 / -104.533406
SW1/4 NE1/4 SEC.27 T6N R64W 6PM
WELD COUNTY, COLORADO
API # 05-123-22303
REMEDATION # 20372

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' (40.458794 / -104.533405)	01/13/22	6	11.3	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	36.1	<100	<0.00200	<0.00200	2.45	5.61	7.80	4.74
Background-01 @ 3' (40.458817 / -104.533425)	01/13/22	3	0.9	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.197	0.412	NA	NA
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 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.																
		TPH-GRO = Total Petroleum Hydrocarbons - Gasoline Range Organics					1,2,4-TMB = 1,2,4-Trimethybenzene		MDL = Minimum Detection Limits							
		TPH-DRO = Total Petroleum Hydrocarbons - Diesel Range Organics					1,3,5-TMB = 1,3,5-Trimethybenzene									
		TPH-RRO = Total Petroleum Hydrocarbons - Residual Range Organics														
		NA - Not Analyzed														

TABLE 3
POLYCYCLIC AROMATIC HYDROCARBONS ANALYTICAL RESULTS SUMMARY
HOWARD A #27-7
CLOSURE ASSESSMENT
40.458796 / -104.533406
SW1/4 NE1/4 SEC.27 T6N R64W 6PM
WELD COUNTY, COLORADO
API # 05-123-22303
REMEDATION # 20372

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' (40.458794 / -104.533405)	01/13/22	6	11.3	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067
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

Howard A #27-7 API # 05-123-22303 Remediation # 20372

Closure Assessment

January 2022

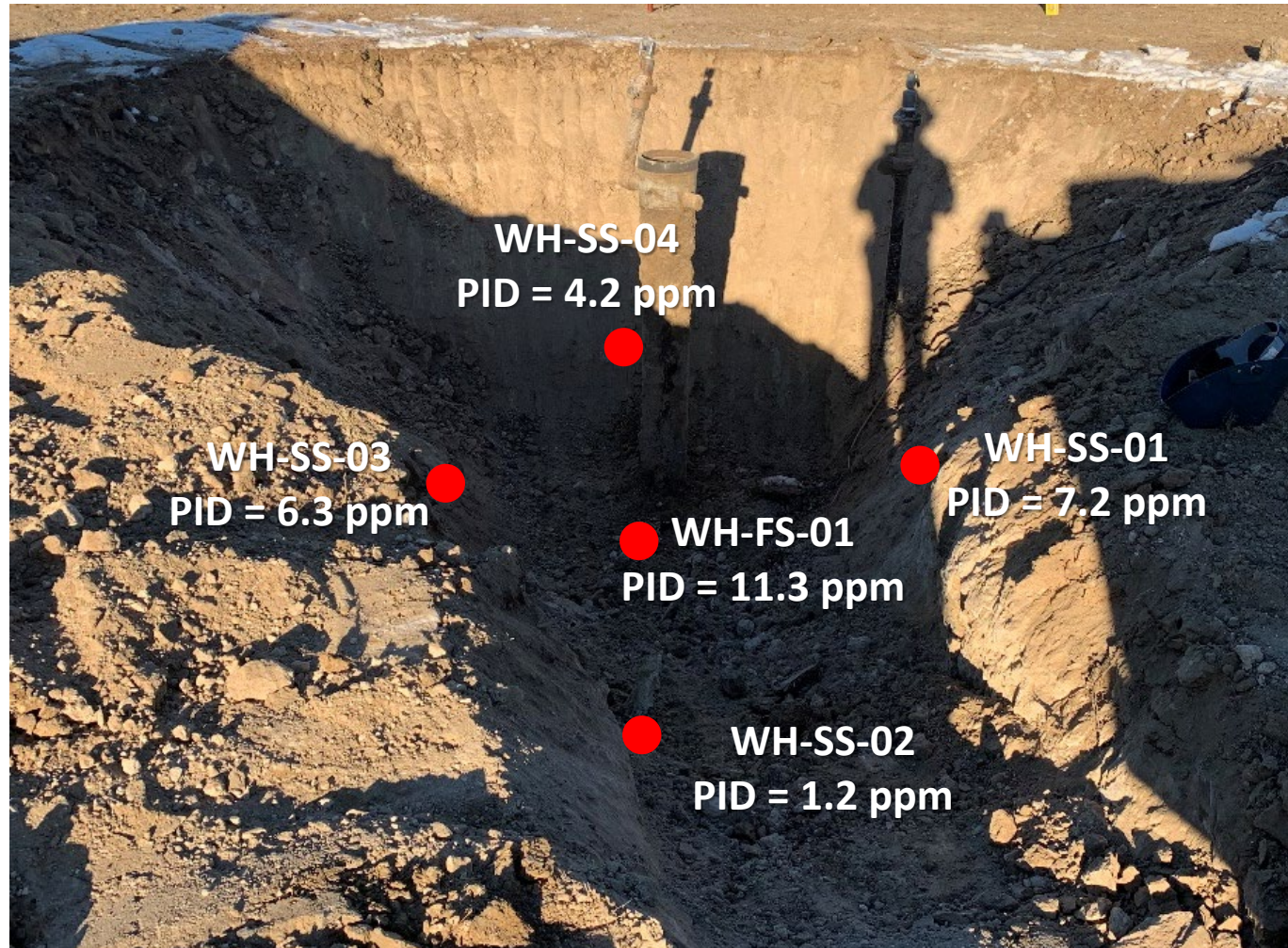


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8000 W 44th Ave, Wheat Ridge, CO 80033
Ph: 303-433-0479 • F: 303-325-5449



Wellhead Excavation – 01/13/22



Looking west

No petroleum hydrocarbon staining or odor observed



ATTACHMENT B

Laboratory Analytical Reports



January 20, 2022

Eagle Environmental Consulting, Inc.

Martin C Eckert III

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - Noble - Howard A #27-7

Project Number - [none]

Attached are your analytical results for Noble - Howard A #27-7 received by Origins Laboratory, Inc. January 13, 2022. This project is associated with Origins project number Y201226-01.

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: [none]

Project: Noble - Howard A #27-7

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
WH-FS-01@6'	Y201226-01	Soil	January 13, 2022 9:04	01/13/2022 14:10

Origins Laboratory, Inc.



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

Martin C Eckert III
Project Number: [none]
Project: Noble - Howard A #27-7

[illegible]

Origins Laboratory, Inc.

Menlo

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: [none]
Project: Noble - Howard A #27-7

Origins Laboratory

Sample Receipt Checklist

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

Origins Work Order: 1/201226

Client: Eagle

Client Project ID: Howard A #27-7

Checklist Completed by: SG

Shipped Via: HD

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

Date/time completed: 1/13/22

Airbill #: N/A

Matrix(s) Received: (Check all that apply): ☒ Soil/Solid

☐ Water

☐ Other:

Cooler Number/Temperature: 1, 4.0 °C / 1 °C / 1 °C (Describe)

Thermometer ID: T003

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

Date/Time Reviewed 1/14/22

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: [none]
Project: Noble - Howard A #27-7

WH-FS-01@6'
1/13/2022 9:04:00AM

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

Origins Laboratory, Inc.
Y201226-01 (Soil)

Boron (DTPA Sorbitol)

Boron	2.45	0.201	mg/L	1	B2A1402	01/14/2022	01/17/2022	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	36.1	25.0	mg/kg	1	B2A1414	01/14/2022	01/17/2022	
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	105 %	50-150	"	"	"	"	"	
------------------------	-------	--------	---	---	---	---	---	--

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B2A1702	01/17/2022	01/18/2022	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	111 %	70-130	"	"	"	"	"	
Surrogate: Toluene-d8	90.5 %	70-130	"	"	"	"	"	

Origins Laboratory, Inc.



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

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

Martin C Eckert III
Project Number: [none]
Project: Noble - Howard A #27-7

WH-FS-01@6'

1/13/2022 9:04:00AM

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

Origins Laboratory, Inc.
Y201226-01 (Soil)

GBTEX+TMBs by 8260D

Surrogate: 4-Bromofluorobenzene	92.6 %	70-130	B2A17 02	01/17/2022	01/18/2022
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Metals by Saturated Paste by EPA 6010

Calcium	24.0	0.499	meq/L	10	[CALC]	01/14/2022	01/18/2022
Magnesium	30.1	0.823	"	"	"	"	"
Sodium	24.7	0.435	"	"	"	"	"

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.000364	0.00067	mg/Kg	1	L594658	01/14/2022	01/17/2022
2-Methylnaphthalene	ND	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	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	"	"	"	"	"
Fluorene	ND	0.000286	0.00067	"	"	"	"	"

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: [none]
Project: Noble - Howard A #27-7

WH-FS-01@6'

1/13/2022 9:04:00AM

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

Waypoint Analytical, Inc.
Y201226-01 (Soil)

PAH by 8270D SIM

Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	mg/Kg	1	L594658	01/14/2022	01/17/2022
Naphthalene	ND	0.000484	0.00067	"	"	"	"	"
Pyrene	ND	0.000643	0.00067	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	53.5 %		33-115			"	"	"
Surrogate: 4-Terphenyl-d14	64.6 %		33-122			"	"	"
Surrogate: Nitrobenzene-d5	56.5 %		29-110			"	"	"

pH in Soil by 9045D

pH	7.80			pH Units	1	B2A1406	01/14/2022	01/18/2022
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SAR by 20B Saturated Paste

SAR	4.74			SAR	1	B2A1401	01/14/2022	01/18/2022
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	5.61		0.00500	mmhos/cm	1	B2A1404	01/14/2022	01/18/2022
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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: [none]
Project: Noble - Howard A #27-7

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 B2A1414 - EPA 3550B										
Blank (B2A1414-BLK1)					Prepared: 01/14/2022 Analyzed: 01/14/2022					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	11		"	24.9		44.3	50-150			

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: [none]
Project: Noble - Howard A #27-7

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 B2A1414 - EPA 3550B

LCS (B2A1414-BS1)

Prepared: 01/14/2022 Analyzed: 01/14/2022

Diesel (C10-C28)	812	50.0	mg/kg	1000		81.2	70-130			
Residual Range Organics (C28-C40)	874	200	"	1000		87.4	70-130			
Surrogate: o-Terphenyl	38		"	49.8		75.4	50-150			

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: [none]
Project: Noble - Howard A #27-7

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 B2A1414 - EPA 3550B

Matrix Spike (B2A1414-MS1)		Source: Y201223-01			Prepared: 01/14/2022 Analyzed: 01/14/2022					
Diesel (C10-C28)	828	50.0	mg/kg	1000	ND	82.8	70-130			
Residual Range Organics (C28-C40)	868	200	"	1000	85.4	78.3	70-130			
Surrogate: o-Terphenyl	35		"	49.8		71.4	50-150			

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: [none]
Project: Noble - Howard A #27-7

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 B2A1414 - EPA 3550B

Matrix Spike Dup (B2A1414-MSD1)		Source: Y201223-01			Prepared: 01/14/2022 Analyzed: 01/14/2022					
Diesel (C10-C28)	938	50.0	mg/kg	1000	ND	93.8	70-130	12.4	35	
Residual Range Organics (C28-C40)	1000	200	"	1000	85.4	91.5	70-130	14.2	35	
Surrogate: o-Terphenyl	45		"	49.8		90.3	50-150			

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

Martin C Eckert III
Project Number: [none]
Project: Noble - Howard A #27-7

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 B2A1702 - EPA 5030 (soil)										
Blank (B2A1702-BLK1)					Prepared: 01/17/2022 Analyzed: 01/18/2022					
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
m,p-Xylene	ND	0.00400	"							U
o-Xylene	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	0.13		"	0.125		101	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		94.2	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		93.0	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: [none]
Project: Noble - Howard A #27-7

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 B2A1702 - EPA 5030 (soil)

LCS (B2A1702-BS1)

Prepared: 01/17/2022 Analyzed: 01/18/2022

1,2,4-Trimethylbenzene	0.104	0.00200	mg/kg	0.100		104	70-130			
Naphthalene	0.107	0.0100	"	0.100		107	70-130			
1,3,5-Trimethylbenzene	0.105	0.00200	"	0.100		105	70-130			
Benzene	0.119	0.00200	"	0.100		119	70-130			
Ethylbenzene	0.102	0.00200	"	0.100		102	70-130			
m,p-Xylene	0.213	0.00400	"	0.200		107	70-130			
o-Xylene	0.105	0.00200	"	0.100		105	70-130			
Toluene	0.111	0.00200	"	0.100		111	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		98.4	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		93.4	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: [none]
Project: Noble - Howard A #27-7

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 B2A1702 - EPA 5030 (soil)

Matrix Spike (B2A1702-MS1)		Source: Y201212-01			Prepared: 01/17/2022 Analyzed: 01/19/2022					
1,2,4-Trimethylbenzene	0.0887	0.00200	mg/kg	0.100	ND	88.7	70-130			
Naphthalene	0.0962	0.0100	"	0.100	ND	96.2	70-130			
1,3,5-Trimethylbenzene	0.0889	0.00200	"	0.100	ND	88.9	70-130			
Benzene	0.106	0.00200	"	0.100	ND	106	70-130			
Ethylbenzene	0.0841	0.00200	"	0.100	ND	84.1	70-130			
m,p-Xylene	0.178	0.00400	"	0.200	ND	89.0	70-130			
o-Xylene	0.0885	0.00200	"	0.100	ND	88.5	70-130			
Toluene	0.0967	0.00200	"	0.100	ND	96.7	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		109	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		92.2	70-130			
Surrogate: 4-Bromofluorobenzene	0.11		"	0.125		91.5	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: [none]
Project: Noble - Howard A #27-7

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 B2A1702 - EPA 5030 (soil)										
Matrix Spike Dup (B2A1702-MSD1)		Source: Y201212-01			Prepared: 01/17/2022 Analyzed: 01/19/2022					
1,2,4-Trimethylbenzene	0.0899	0.00200	mg/kg	0.100	ND	89.9	70-130	1.25	20	
Naphthalene	0.0990	0.0100	"	0.100	ND	99.0	70-130	2.91	20	
1,3,5-Trimethylbenzene	0.0906	0.00200	"	0.100	ND	90.6	70-130	1.89	20	
Benzene	0.106	0.00200	"	0.100	ND	106	70-130	0.472	20	
Ethylbenzene	0.0868	0.00200	"	0.100	ND	86.8	70-130	3.21	20	
m,p-Xylene	0.183	0.00400	"	0.200	ND	91.7	70-130	2.93	20	
o-Xylene	0.0905	0.00200	"	0.100	ND	90.5	70-130	2.32	20	
Toluene	0.0974	0.00200	"	0.100	ND	97.4	70-130	0.660	20	
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		110	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		92.8	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		92.7	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: [none]
Project: Noble - Howard A #27-7

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 B2A1404 - NO PREP

Blank (B2A1404-BLK1)

Prepared: 01/14/2022 Analyzed: 01/18/2022

Specific Conductance (EC) 0.000900 0.00500 mmhos/cm

Duplicate (B2A1404-DUP1)

Source: Y201202-08

Prepared: 01/14/2022 Analyzed: 01/18/2022

Specific Conductance (EC) 1.12 0.00500 mmhos/cm 1.07 4.61 25

Batch B2A1406 - NO PREP

Duplicate (B2A1406-DUP1)

Source: Y201202-08

Prepared: 01/14/2022 Analyzed: 01/18/2022

pH 8.74 pH Units 8.86 1.36 25

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: [none]
Project: Noble - Howard A #27-7

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 L594658 - 3550B

MSD (L 96013-MSD-L594658)		Source: 96013			Prepared: 01/14/2022 Analyzed: 01/17/2022					
Fluorene	0.0973	0.000286	mg/Kg	0.165	<0.000286	58.9	30-130	0.2	30	
Indeno(1,2,3-cd)pyrene	0.101	0.000627	"	0.165	<0.000627	61.2	30-130	19.8	30	
Acenaphthene	0.0949	0.000304	"	0.165	<0.000304	57.5	30-130	0.9	30	
Pyrene	0.116	0.000643	"	0.165	<0.000643	70.3	30-130	1.7	30	
Fluoranthene	0.103	0.000394	"	0.165	<0.000394	62.4	30-130	3.8	30	
Benzo(a)anthracene	0.108	0.000493	"	0.165	<0.000493	65.4	30-130	3.6	30	
2-Methylnaphthalene	0.0853	0.000645	"	0.165	<0.000645	51.6	30-130	0.4	30	
1-Methylnaphthalene	0.085	0.000364	"	0.165	<0.000364	51.5	30-130	0.2	30	
Anthracene	0.0979	0.000334	"	0.165	<0.000334	59.3	30-130	2.1	30	
Naphthalene	0.0818	0.000484	"	0.165	<0.000484	49.5	30-130	2.1	30	
Benzo(a)pyrene	0.114	0.000468	"	0.165	<0.000468	69	30-130	0.8	30	
Benzo(b)fluoranthene	0.0987	0.000585	"	0.165	<0.000585	59.8	30-130	13	30	
Benzo(k)fluoranthene	0.0909	0.000437	"	0.165	<0.000437	55	30-130	4.5	30	
Chrysene	0.119	0.000624	"	0.165	<0.000624	72.1	30-130	2.4	30	
Dibenz(a,h)anthracene	0.107	0.000614	"	0.165	<0.000614	64.8	30-130	13.6	30	
Surrogate: Nitrobenzene-d5	56		"	0.33	202	56	29-110			
Surrogate: 4-Terphenyl-d14	65.7		"	0.33	243	65.7	33-122			
Surrogate: 2-Fluorobiphenyl	51.2		"	0.33	205	51.2	33-115			

MS (L 96013-MS-L594658)		Source: 96013			Prepared: 01/14/2022 Analyzed: 01/17/2022					
Chrysene	0.122	0.000624	mg/Kg	0.164	<0.000624	74.3	30-130			
Pyrene	0.118	0.000643	"	0.164	<0.000643	71.9	30-130			
Indeno(1,2,3-cd)pyrene	0.0828	0.000627	"	0.164	<0.000627	50.4	30-130			
Fluorene	0.0971	0.000286	"	0.164	<0.000286	59.2	30-130			
Fluoranthene	0.107	0.000394	"	0.164	<0.000394	65.2	30-130			
Dibenz(a,h)anthracene	0.0933	0.000614	"	0.164	<0.000614	56.8	30-130			
Benzo(k)fluoranthene	0.0951	0.000437	"	0.164	<0.000437	57.9	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: [none]
Project: Noble - Howard A #27-7

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 L594658 - 3550B

MS (L 96013-MS-L594658)		Source: 96013			Prepared: 01/14/2022 Analyzed: 01/17/2022					
Benzo(b)fluoranthene	0.0866	0.000585	mg/Kg	0.164	<0.000585	52.8	30-130			
Benzo(a)pyrene	0.113	0.000468	"	0.164	<0.000468	68.9	30-130			
Benzo(a)anthracene	0.112	0.000493	"	0.164	<0.000493	68.2	30-130			
Naphthalene	0.0836	0.000484	"	0.164	<0.000484	50.9	30-130			
Acenaphthene	0.0958	0.000304	"	0.164	<0.000304	58.4	30-130			
2-Methylnaphthalene	0.0849	0.000645	"	0.164	<0.000645	51.7	30-130			
1-Methylnaphthalene	0.0848	0.000364	"	0.164	<0.000364	51.7	30-130			
Anthracene	0.1	0.000334	"	0.164	<0.000334	60.9	30-130			
Surrogate: 4-Terphenyl-d14	68.9		"	0.329	243	68.9	33-122			
Surrogate: Nitrobenzene-d5	55.9		"	0.329	202	55.9	29-110			
Surrogate: 2-Fluorobiphenyl	52.2		"	0.329	205	52.2	33-115			

LCS (LCS-L594658)		Prepared: 01/14/2022 Analyzed: 01/17/2022								
Acenaphthene	0.0989	0.000304	mg/Kg	0.167		59.2	30-130			
Chrysene	0.124	0.000624	"	0.167		74.2	30-130			
Pyrene	0.106	0.000643	"	0.167		63.4	30-130			
Naphthalene	0.0861	0.000484	"	0.167		51.5	30-130			
Indeno(1,2,3-cd)pyrene	0.137	0.000627	"	0.167		82	30-130			
Fluorene	0.102	0.000286	"	0.167		61	30-130			
2-Methylnaphthalene	0.0872	0.000645	"	0.167		52.2	30-130			
Dibenz(a,h)anthracene	0.144	0.000614	"	0.167		86.2	30-130			
1-Methylnaphthalene	0.0876	0.000364	"	0.167		52.4	30-130			
Benzo(k)fluoranthene	0.109	0.000437	"	0.167		65.2	30-130			
Benzo(b)fluoranthene	0.0914	0.000585	"	0.167		54.7	30-130			
Benzo(a)pyrene	0.121	0.000468	"	0.167		72.4	30-130			
Benzo(a)anthracene	0.116	0.000493	"	0.167		69.4	30-130			
Anthracene	0.102	0.000334	"	0.167		61	30-130			

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

Martin C Eckert III
Project Number: [none]
Project: Noble - Howard A #27-7

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 L594658 - 3550B

LCS (LCS-L594658)

Prepared: 01/14/2022 Analyzed: 01/17/2022

Fluoranthene	0.107	0.000394	mg/Kg	0.167		64	30-130			
Surrogate: Nitrobenzene-d5	62.4		"	0.333		62.4	29-110			
Surrogate: 4-Terphenyl-d14	71.7		"	0.333		71.7	33-122			
Surrogate: 2-Fluorobiphenyl	56.4		"	0.333		56.4	33-115			

LRB (LRB-L594658)

Prepared: 01/14/2022 Analyzed: 01/17/2022

Acenaphthene	ND	0.00067	mg/Kg				-			
Benzo(k)fluoranthene	ND	0.00067	"				-			
Pyrene	ND	0.00067	"				-			
Naphthalene	ND	0.00067	"				-			
Indeno(1,2,3-cd)pyrene	ND	0.00067	"				-			
Fluorene	ND	0.00067	"				-			
Fluoranthene	ND	0.00067	"				-			
2-Methylnaphthalene	ND	0.00067	"				-			
Chrysene	ND	0.00067	"				-			
1-Methylnaphthalene	ND	0.00067	"				-			
Benzo(b)fluoranthene	ND	0.00067	"				-			
Benzo(a)pyrene	ND	0.00067	"				-			
Benzo(a)anthracene	ND	0.00067	"				-			
Anthracene	ND	0.00067	"				-			
Dibenz(a,h)anthracene	ND	0.00067	"				-			
Surrogate: Nitrobenzene-d5	57		"	0.333		57	29-110			
Surrogate: 4-Terphenyl-d14	67.8		"	0.333		67.8	33-122			
Surrogate: 2-Fluorobiphenyl	59.7		"	0.333		59.7	33-115			

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: [none]

Project: Noble - Howard A #27-7

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.

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.



January 27, 2022

Eagle Environmental Consulting, Inc.

Martin C Eckert III

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - Noble - Howard A #27-7

Project Number - [none]

Attached are your analytical results for Noble - Howard A #27-7 received by Origins Laboratory, Inc. January 24, 2022. This project is associated with Origins project number Y201418-01.

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: [none]

Project: Noble - Howard A #27-7

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Background-01@3'	Y201418-01	Soil	January 13, 2022 9:05	01/24/2022 09:10

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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: [none]

Project: Noble - Howard A #27-7

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: 1201418

Client: Eagle

Client Project ID: Howard A 27-7

Checklist Completed by: SG

Shipped Via: HD

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

Date/time completed: 1/24/22

Airbill #: N/A

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

Cooler Number/Temperature: 1 / 60 °C 1 °C 1 °C 1 °C (Describe)

Thermometer ID: T003

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

1-25-22
Date/Time Reviewed

Origins Laboratory, Inc.

Jm

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Eagle Environmental Consulting, Inc.

8000 W 44th Ave

Wheat Ridge CO 80033

Martin C Eckert III

Project Number: [none]

Project: Noble - Howard A #27-7

Background-01@3'

1/13/2022 9:05:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Y201418-01 (Soil)

Origins Laboratory, Inc.

Boron (DTPA Sorbitol)

Boron	0.197	0.197	mg/L	1	B2A2427	KAP	01/24/2022	01/25/2022
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.412	0.00500	mmhos/cm	1	B2A2428	ACC	01/24/2022	01/25/2022
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Eagle Environmental Consulting, Inc.
8000 W 44th Ave
Wheat Ridge CO 80033

Martin C Eckert III
Project Number: [none]
Project: Noble - Howard A #27-7

Saturated Paste - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B2A2428 - NO PREP										
Blank (B2A2428-BLK1)					Prepared: 01/24/2022 Analyzed: 01/25/2022					
Specific Conductance (EC)	0.00120	0.00500	mmhos/cm							
Duplicate (B2A2428-DUP1)					Source: Y201411-01 Prepared: 01/24/2022 Analyzed: 01/25/2022					
Specific Conductance (EC)	0.721	0.00500	mmhos/cm		0.744			3.24	25	

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Wheat Ridge CO 80033

Martin C Eckert III

Project Number: [none]

Project: Noble - Howard A #27-7

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.

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