



FIGURES

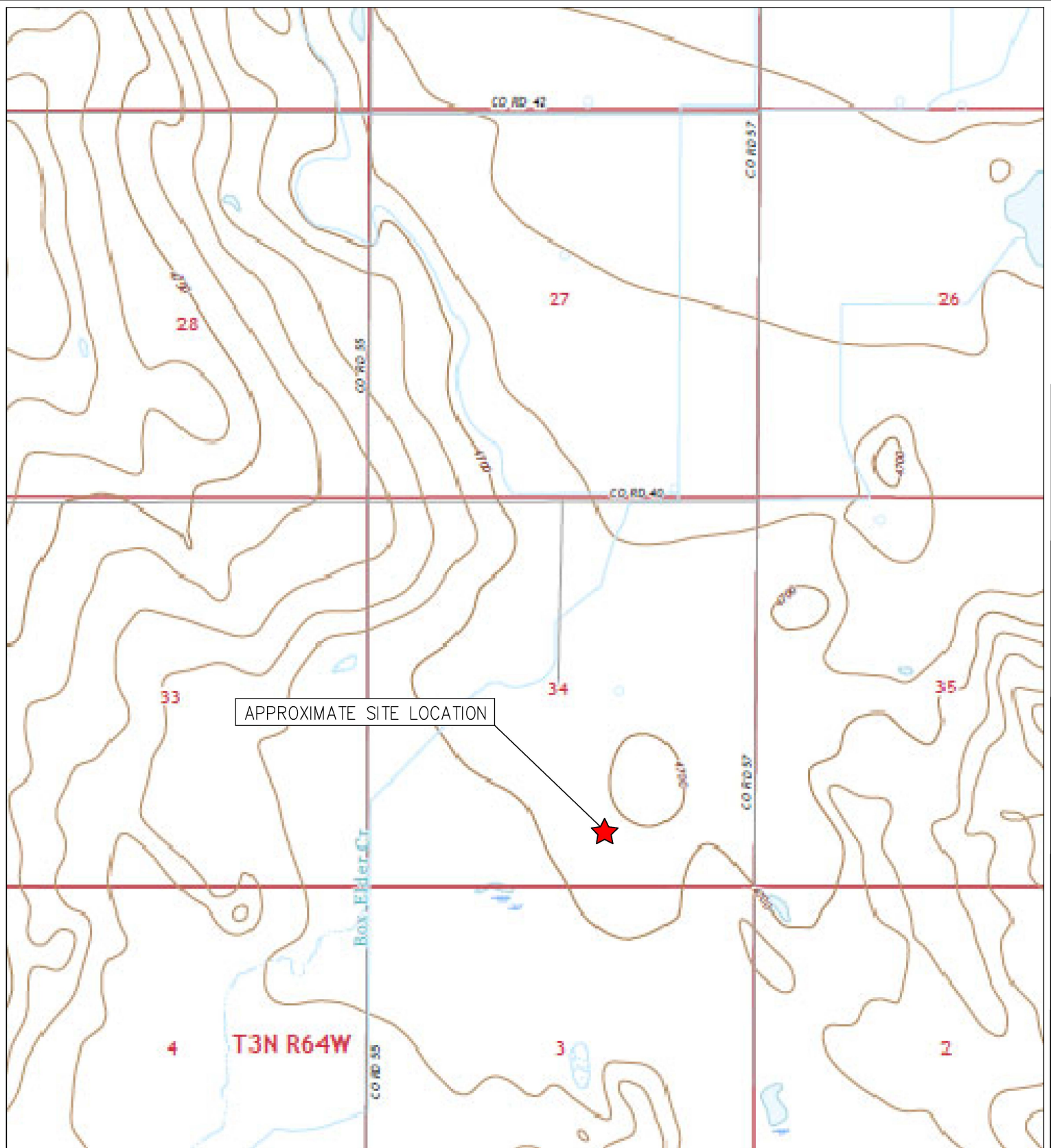
Figure 1: Topographic Site Location Map

Figure 2: Aerial Site Location Map

Figure 3: Soil Analytical Map

Figure 4: Polycyclic Aromatic Hydrocarbons Map

Figure 5: Groundwater Analytical Map



TOPOGRAPHIC SITE LOCATION MAP
 POLLACK HADDIX 1
 HISTORICAL PIT ASSESSMENT
 40.263561 / -104.534751
 SW¼ NE¼ SEC.34 T4N R64W 6PM
 WELD COUNTY, COLORADO
 FACILITY ID 118645
 REMEDIATION # 24418



EAGLE
 ENVIRONMENTAL
 CONSULTING, INC.

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 1

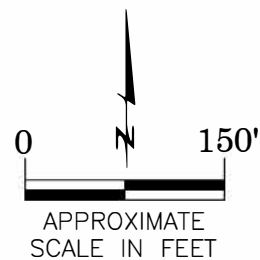


LEGEND

- FORMER ALOYSIAS #C34-15 WELLHEAD (PLUGGED AND ABANDONED)
- POLLACK HADDIX 1 PIT LOCATION*

NOTE:

PIT LOCATION BASED ON GPS DATA AVAILABLE ON COGIS/PROVIDED TO EAGLE



AERIAL SITE LOCATION MAP

POLLACK HADDIX 1
HISTORICAL PIT ASSESSMENT
40.263561 / -104.534751
SW¼ NE¼ SEC.34 T4N R64W 6PM
WELD COUNTY, COLORADO
FACILITY ID 118645
REMEDATION # 24418

DATE:

10/21/22

FIG. NO.

2

DRAWN BY:

AMN



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FORMER ALOYSIAS #C34-15 WELLHEAD (P&A 2021)



SB-01

SB-01 @ 2.5-5'
09/28/22
2.5-5'
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
EC = 1.19
SAR= 2.11
pH = 7.62

LEGEND

- ASSOCIATED WELLHEAD LOCATION
- FORMER PIT LOCATION*
- APPROXIMATE SOIL BORING LOCATION*
SB-01 (40.263553 / -104.534732)

*PIT LOCATION BASED ON AVAILABLE COGIS INFORMATION
AERIAL SOURCE - GOOGLE EARTH (2016)

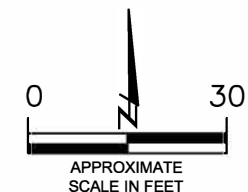
PARAMETERS

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)
EC = SPECIFIC CONDUCTANCE (mmhos/cm)
SAR= SODIUM ADSORPTION RATIO
pH = pH (PH UNITS)

mg/kg = MILLIGRAMS PER KILOGRAM
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

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



SOIL ANALYTICAL MAP
POLLACK HADDIX 1
HISTORICAL PIT ASSESSMENT
40.263561 / -104.534751
SW 1/4 NE 1/4 SEC.34 T4N R64W 6PM
WELD COUNTY, COLORADO
FACILITY ID 118645
REMEDIAL # 24418

DATE:
10/21/22
DRAWN BY:
AMN
FIG.
NO. 3



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LEGEND

- ASSOCIATED WELLHEAD LOCATION
 - FORMER PIT LOCATION*
 - APPROXIMATE SOIL BORING LOCATION*
SB-01 (40.263553/ -104.534732)
- *PIT LOCATION BASED ON AVAILABLE COGIS INFORMATION
AERIAL SOURCE - GOOGLE EARTH (2016)

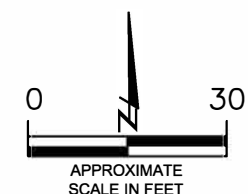
PARAMETERS

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
REPORTING LIMITS



POLYCYCLIC AROMATIC HYDROCARBONS MAP
POLLACK HADDIX 1
HISTORICAL PIT ASSESSMENT
40.263561 / -104.534751
SW¼ NE¼ SEC.34 T4N R64W 6PM
WELD COUNTY, COLORADO
FACILITY ID 118645
REMEDIAL # 24418

DATE:
10/21/22
DRAWN BY:
AMN
FIG.
NO. 4



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LEGEND

- ASSOCIATED WELLHEAD LOCATION
- FORMER PIT LOCATION*
- APPROXIMATE SOIL BORING LOCATION*
SB-01 (40.263553 / -104.534732)

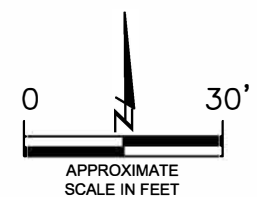
*PIT LOCATION BASED ON AVAILABLE COGIS INFORMATION
AERIAL SOURCE - GOOGLE EARTH (2016)

PARAMETERS

SAMPLE LOCATION	
DATE	
B	= BENZENE (µg/L)
T	= TOLUENE (µg/L)
E	= ETHYLBENZENE (µg/L)
X	= TOTAL XYLENES (µg/L)
N	= NAPHTHALENE (µg/L)
1,2,4-TMB	= 1,2,4-TRIMETHYLBENZENE (µg/L)
1,3,5-TMB	= 1,3,5-TRIMETHYLBENZENE (µg/L)

µg/L = MICROGRAMS PER LITER

NOTE: VALUES PRESENTED WITH A LESS THAN SYMBOL (<) INDICATE CONCENTRATIONS WERE NOT OBSERVED AT OR ABOVE THE LABORATORY REPORTING LIMIT.



GROUNDWATER ANALYTICAL MAP
POLLACK HADDIX 1
HISTORICAL PIT ASSESSMENT
40.263561 / -104.534751
SW¼ NE¼ SEC.34 T4N R64W 6PM
WELD COUNTY, COLORADO
FACILITY ID 118645
REMEDIAL # 24418

DATE:
10/21/22
DRAWN BY:
AMN
FIG.
NO. 5



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



TABLES

Table 1: Soil Analytical Results Summary

Table 2: Groundwater Analytical Results Summary

TABLE 1
SOIL ANALYTICAL RESULTS SUMMARY
POLLACK HADDIX 1
HISTORICAL PIT ASSESSMENT
40.263561 / -104.534751
SW1/4 NE1/4 SEC.34 T4N R64W 6PM
WELD COUNTY, COLORADO
PIT ID 118645
REMEDATION # 24418

Sample Location				SB-01 @ 2.5-5'
(Latitude / Longitude)				(40.263553 / -104.534732)
Sample Date				09/28/22
Sample Depth				2.5-5'
PID Reading (ppm-v)				12.7
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	<0.00335
2-Methyl-naphthalene	mg/kg	24	0.019	<0.00335
Acenaphthene	mg/kg	360	0.55	<0.00335
Anthracene	mg/kg	1800	5.8	<0.00335
Benzo(a)-anthracene	mg/kg	1.1	0.011	<0.00335
Benzo(a)-pyrene	mg/kg	0.11	0.24	<0.00335
Benzo(b)-fluoranthene	mg/kg	1.1	0.3	<0.00335
Benzo(k)-fluoranthene	mg/kg	11	2.9	<0.00335
Chrysene	mg/kg	110	9	<0.00335
Dibenzo(a,h)-anthracene	mg/kg	0.11	0.096	<0.00335
Fluoranthene	mg/kg	240	8.9	<0.00335
Fluorene	mg/kg	240	0.54	<0.00335
Indeno(1,2,3-cd)-pyrene	mg/kg	1.1	0.98	<0.00335
Naphthalene	mg/kg	2	0.0038	<0.00335
Pyrene	mg/kg	180	1.3	<0.00335
SOIL SUITABILITY (Inorganics)				
pH	standard unit	6-8.3	--	7.62
Sodium Adsorption Ratio (SAR)	--	<6	--	2.11
Specific Conductance (EC)	mmhos/cm	<4	--	1.19
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				
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.				
VOCs = Volatile Organic Compounds				
RSSLs = Residential Soil Screening Levels				
GSSLs = Protection of Groundwater Soil Screening Levels				
TPH-GRO = Total Petroleum Hydrocarbons - Gasoline Range Organics				
TPH-DRO = Total Petroleum Hydrocarbons - Diesel Range Organics				
TPH-RRO = Total Petroleum Hydrocarbons - Residual Range Organics				

TABLE 2
GROUNDWATER ANALYTICAL RESULTS SUMMARY
POLLACK HADDIX 1
HISTORICAL PIT ASSESSMENT
40.263561 / -104.534751
SW1/4 NE1/4 SEC.34 T4N R64W 6PM
WELD COUNTY, COLORADO
PIT ID 118645
REMEDIATION # 24418

Sample Location (Latitude/Longitude)	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	Naphthalene (µg/L)	1,2,4- Trimethylbenzene (µg/L)	1,3,5 - Trimethylbenzene (µg/L)
COGCC Table 915-1 Regulatory Limits (µg/L)		5	560	700	1400	140	67	67
MW-01 (SB-01) (40.263553 / -104.534732)	10/12/22	<1	<2	<1	<1	<5	<1	<1
COGCC = Colorado Oil and Gas Conservation Commission µg/L - micrograms per liter Note: Values presented with a less than symbol (<) indicate concentrations were not observed at or above the laboratory reporting limit. Values presented in bold typeface exceed COGCC Table 915-1 regulatory limits for that compound.								

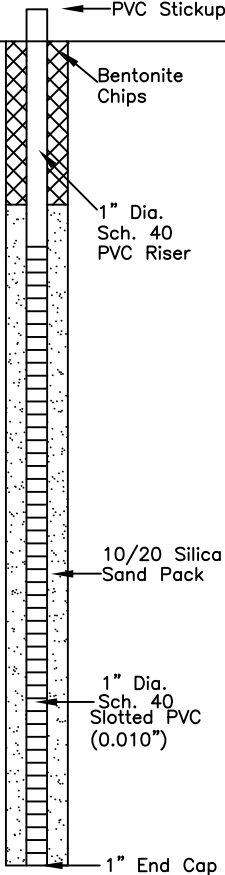


ATTACHMENT A

Soil Boring Log / Well Completion Diagram

Boring Log/Well Completion Diagram: SB-01

PAGE 1 OF 1

DEPTH (FT)	LITHOLOGY	SAMPLE				OVM/OVA (PPM)	BLOW COUNT (per 0.5 FT)	DEPTH (FT)	WELL CONSTRUCTION DETAIL	COMMENTS
	DESCRIPTION	GRAPHIC LOG	TYPE	NUMBER	RECOVERY %					
0	(0-20') clayey SAND - light brown, dry to wet, med. dense, mod. graded with ~25% clay, N/O, N/S	SC	DP	1	95	6.6	N/A			
						12.7				
5			DP	2	95	6.5	N/A			
						4.4				
10	@12' - wet		DP	3	100	4.0	N/A			
						4.1				
15			DP	4	90	2.0	N/A			
						1.6				
20	BoB @ 20'									
25										
30										

DP - Direct push

HC - Hydrocarbon

BoB - Bottom of Boring


N/O - no odor

N/S - no staining

TOC - top of casing

bgs - below ground surface

DP - Direct push
 HC - Hydrocarbon
 BoB - Bottom of Boring
 N/O - no odor
 N/S - no staining
 TOC - top of casing
 bgs - below ground surface

START/COMPLETION DATE: 09/28/22		SAND PACK INTERVAL (FEET): 4–20	
PROJECT: POLLACK HADDIX 1		BENTONITE/GROUT INTERVAL (FEET): 0–4	
LOGGED BY: C. TRIPLETT		WELL SCREEN INTERVAL (FEET): 5–20	
DRILLING COMPANY/EQUIPMENT: EAGLE/GEOPROBE		WELL DIAMETER (INCHES): 1	
BORING DEPTH (FEET): 20	WELL DEPTH (FEET): 20	 <div>EAGLE ENVIRONMENTAL CONSULTING, INC. 8000 W 44th Ave., Wheat Ridge, CO 80033 Ph: 303-433-0479 • F: 303-325-5449</div>	
PID INSTRUMENT: MINIRAE 3000 #5			
TIME STARTED/COMPLETED: 1520 / 1550			
SAMPLE COLLECTION DEPTH (FEET)/TIME: 2.5–5/1055			



ATTACHMENT B

Laboratory Analytical Reports



October 19, 2022

Eagle Environmental Consulting, Inc.

Martin C Eckert III

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - Noble - Pollack Haddix 1

Project Number - [none]

Attached are your analytical results for Noble - Pollack Haddix 1 received by Origins Laboratory, Inc. October 04, 2022. This project is associated with Origins project number Y210067-01.

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 - Pollack Haddix 1

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SB-01@2.5-5'	Y210067-01	Soil	September 28, 2022 15:25	10/04/2022 16:28

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 - Pollack Haddix 1

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: Y210067

Client: Eagle

Client Project ID: Pollack Haddix 1

Checklist Completed by: EHS/DE

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

Date/time completed: 10/15/12

Airbill #: NA

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

Cooler Number/Temperature: 1 13.7 °C 1 °C 1 °C (Describe) _____ °C

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⁾ ?	<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 (Project Manager) AS Date/Time Reviewed 10-6-22

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

Martin C Eckert III
Project Number: [none]
Project: Noble - Pollack Haddix 1

SB-01@2.5-5'
9/28/2022 3:25:00PM

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

Origins Laboratory, Inc.
Y210067-01 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B2J0531	10/05/2022	10/06/2022	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	91.8 %	50-150	"	"	"
------------------------	--------	--------	---	---	---

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B2J0527	10/05/2022	10/05/2022	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	122 %	70-130	"	"	"
Surrogate: Toluene-d8	101 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	90.3 %	70-130	"	"	"

Metals by Saturated Paste by EPA 6010

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 - Pollack Haddix 1

SB-01@2.5-5'

9/28/2022 3:25:00PM

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

Origins Laboratory, Inc.
Y210067-01 (Soil)

Metals by Saturated Paste by EPA 6010

Calcium	4.33	0.499	meq/L	10	[CALC]	10/06/2022	10/07/2022
Magnesium	2.44	0.823	"	"	"	"	"
Sodium	3.88	0.435	"	"	"	"	"

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00182	0.00335	mg/Kg	5	L642055	10/10/2022	10/11/2022
2-Methylnaphthalene	ND	0.00323	0.00335	"	"	"	"	"
Acenaphthene	ND	0.00152	0.00335	"	"	"	"	"
Anthracene	ND	0.00167	0.00335	"	"	"	"	"
Benzo(a)anthracene	ND	0.00247	0.00335	"	"	"	"	"
Benzo(a)pyrene	ND	0.00234	0.00335	"	"	"	"	"
Benzo(b)fluoranthene	ND	0.00293	0.00335	"	"	"	"	"
Benzo(k)fluoranthene	ND	0.00219	0.00335	"	"	"	"	"
Chrysene	ND	0.00312	0.00335	"	"	"	"	"
Dibenz(a,h)anthracene	ND	0.00307	0.00335	"	"	"	"	"
Fluoranthene	ND	0.00197	0.00335	"	"	"	"	"
Fluorene	ND	0.00143	0.00335	"	"	"	"	"
Indeno(1,2,3-cd)pyrene	ND	0.00314	0.00335	"	"	"	"	"
Naphthalene	ND	0.00242	0.00335	"	"	"	"	"
Pyrene	ND	0.00322	0.00335	"	"	"	"	"

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.

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8000 W 44th Ave
Wheat Ridge CO 80033

Martin C Eckert III
Project Number: [none]
Project: Noble - Pollack Haddix 1

SB-01@2.5-5'

9/28/2022 3:25:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.
Y210067-01 (Soil)

PAH by 8270D SIM

Surrogate: 2-Fluorobiphenyl	57.8 %	33-115	L6420 55	10/10/2022	10/11/2022
Surrogate: 4-Terphenyl-d14	68.9 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	55.7 %	29-110	"	"	"

pH in Soil by 9045D

pH	7.62	pH Units	1	B2J0614	10/06/2022	10/07/2022
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SAR by 20B Saturated Paste

SAR	2.11	SAR	1	B2J0609	10/06/2022	10/07/2022
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	1.19	0.00500 mmhos/cm	1	B2J0614	10/06/2022	10/07/2022
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Origins Laboratory, Inc.



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

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8000 W 44th Ave
Wheat Ridge CO 80033

Martin C Eckert III
Project Number: [none]
Project: Noble - Pollack Haddix 1

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 B2J0527 - EPA 5030 (soil)										
Blank (B2J0527-BLK1)					Prepared: 10/05/2022 Analyzed: 10/05/2022					
1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							U
1,3,5-Trimethylbenzene	ND	0.00200	"							U
Benzene	ND	0.00200	"							U
Ethylbenzene	ND	0.00200	"							U
Naphthalene	ND	0.00380	"							U
Toluene	ND	0.00200	"							U
Xylenes, total	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125	108		70-130			
Surrogate: Toluene-d8	0.13		"	0.125	106		70-130			
Surrogate: 4-Bromofluorobenzene	0.11		"	0.125	88.4		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 - Pollack Haddix 1

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 B2J0527 - EPA 5030 (soil)										
LCS (B2J0527-BS1)					Prepared: 10/05/2022 Analyzed: 10/05/2022					
1,2,4-Trimethylbenzene	0.106	0.00200	mg/kg	0.100		106	70-130			
1,3,5-Trimethylbenzene	0.108	0.00200	"	0.100		108	70-130			
Benzene	0.0929	0.00200	"	0.100		92.9	70-130			
Ethylbenzene	0.102	0.00200	"	0.100		102	70-130			
Naphthalene	0.102	0.00380	"	0.100		102	70-130			
Toluene	0.103	0.00200	"	0.100		103	70-130			
o-Xylene	0.101	0.00200	"	0.100		101	70-130			
m,p-Xylene	0.219	0.00400	"	0.200		109	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		110	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		101	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		94.8	70-130			

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Eagle Environmental Consulting, Inc.
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Wheat Ridge CO 80033

Martin C Eckert III
Project Number: [none]
Project: Noble - Pollack Haddix 1

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 B2J0527 - EPA 5030 (soil)

Matrix Spike (B2J0527-MS1)		Source: Y209535-01			Prepared: 10/05/2022 Analyzed: 10/05/2022					
1,2,4-Trimethylbenzene	0.0850	0.00200	mg/kg	0.100	ND	85.0	70-130			
1,3,5-Trimethylbenzene	0.0865	0.00200	"	0.100	ND	86.5	70-130			
Benzene	0.0793	0.00200	"	0.100	ND	79.3	70-130			
Ethylbenzene	0.0859	0.00200	"	0.100	ND	85.9	70-130			
Naphthalene	0.0759	0.00380	"	0.100	ND	75.9	70-130			
Toluene	0.0849	0.00200	"	0.100	ND	84.9	70-130			
o-Xylene	0.0848	0.00200	"	0.100	ND	84.8	70-130			
m,p-Xylene	0.184	0.00400	"	0.200	ND	91.9	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		113	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		97.6	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		96.9	70-130			

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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 - Pollack Haddix 1

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 B2J0527 - EPA 5030 (soil)										
Matrix Spike Dup (B2J0527-MSD1)		Source: Y209535-01			Prepared: 10/05/2022 Analyzed: 10/05/2022					
1,2,4-Trimethylbenzene	0.0879	0.00200	mg/kg	0.100	ND	87.9	70-130	3.45	20	
1,3,5-Trimethylbenzene	0.0893	0.00200	"	0.100	ND	89.3	70-130	3.19	20	
Benzene	0.0823	0.00200	"	0.100	ND	82.3	70-130	3.74	20	
Ethylbenzene	0.0873	0.00200	"	0.100	ND	87.3	70-130	1.55	20	
Naphthalene	0.0822	0.00380	"	0.100	ND	82.2	70-130	8.00	20	
Toluene	0.0868	0.00200	"	0.100	ND	86.8	70-130	2.19	20	
o-Xylene	0.0875	0.00200	"	0.100	ND	87.5	70-130	3.11	20	
m,p-Xylene	0.187	0.00400	"	0.200	ND	93.7	70-130	1.97	20	
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		111	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		96.9	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		97.0	70-130			

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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 - Pollack Haddix 1

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 B2J0531 - EPA 3580										
Blank (B2J0531-BLK1)					Prepared: 10/05/2022 Analyzed: 10/06/2022					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	24		"	24.9		95.6	50-150			

Origins Laboratory, Inc.



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Eagle Environmental Consulting, Inc.
8000 W 44th Ave
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Martin C Eckert III
Project Number: [none]
Project: Noble - Pollack Haddix 1

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 B2J0531 - EPA 3580

LCS (B2J0531-BS1)

Prepared: 10/05/2022 Analyzed: 10/13/2022

Diesel (C10-C28)	1000	50.0	mg/kg	1000		100	70-130			
Residual Range Organics (C28-C40)	939	200	"	1000		93.9	70-130			
Surrogate: o-Terphenyl	46		"	49.8		92.9	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 - Pollack Haddix 1

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 B2J0531 - EPA 3580

Matrix Spike (B2J0531-MS1)		Source: Y210058-01			Prepared: 10/05/2022 Analyzed: 10/06/2022					
Diesel (C10-C28)	968	50.0	mg/kg	1000	ND	96.8	70-130			
Residual Range Organics (C28-C40)	978	200	"	1000	52.6	92.5	70-130			
Surrogate: o-Terphenyl	45		"	49.8		89.9	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 - Pollack Haddix 1

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 B2J0531 - EPA 3580

Matrix Spike Dup (B2J0531-MSD1)		Source: Y210058-01			Prepared: 10/05/2022 Analyzed: 10/13/2022					
Diesel (C10-C28)	1110	50.0	mg/kg	1000	ND	111	70-130	13.3	35	
Residual Range Organics (C28-C40)	957	200	"	1000	52.6	90.4	70-130	2.16	35	
Surrogate: o-Terphenyl	44		"	49.8		89.4	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 - Pollack Haddix 1

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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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 B2J0609 - Default Prep Metals

Blank (B2J0609-BLK1)

Prepared: 10/06/2022 Analyzed: 10/07/2022

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

Duplicate (B2J0609-DUP1)

Source: Y210064-01

Prepared: 10/06/2022 Analyzed: 10/07/2022

Calcium PPM	4.58	10.0	mg/L	4.31	6.19	50
SAR	0.00		SAR	0.402	200	200
Magnesium PPM	1.43	10.0	mg/L	1.25	13.7	50
Sodium PPM	3.74	10.0	"	3.68	1.48	50

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8000 W 44th Ave
Wheat Ridge CO 80033

Martin C Eckert III
Project Number: [none]
Project: Noble - Pollack Haddix 1

Saturated Paste - Quality Control Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B2J0614 - NO PREP										
Blank (B2J0614-BLK1)					Prepared: 10/06/2022 Analyzed: 10/07/2022					
pH	0.00		pH Units							
Specific Conductance (EC)	ND	0.00500	mmhos/cm							
Duplicate (B2J0614-DUP1)					Source: Y210064-01 Prepared: 10/06/2022 Analyzed: 10/07/2022					
pH	7.63		pH Units		7.74			1.43	25	
Specific Conductance (EC)	0.126	0.00500	mmhos/cm		0.0876			36.0	25	QR-DUP

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Wheat Ridge CO 80033

Martin C Eckert III
Project Number: [none]
Project: Noble - Pollack Haddix 1

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 L642055 - 3550B

MSD (L 94327-MSD-L642055)		Source: 94327			Prepared: 10/10/2022 Analyzed: 10/11/2022					
2-Methylnaphthalene	0.0996	0.00067	mg/Kg	0.165	<0.000645	60.3	30-130	2.3	30	
Fluorene	0.109	0.00067	"	0.165	<0.000286	66	30-130	0.9	30	
1-Methylnaphthalene	0.0999	0.00067	"	0.165	<0.000364	60.5	30-130	3	30	
Pyrene	0.118	0.00067	"	0.165	<0.000643	71.5	30-130	2.5	30	
Indeno(1,2,3-cd)pyrene	0.126	0.00067	"	0.165	<0.000627	76.3	30-130	0.7	30	
Fluoranthene	0.117	0.00067	"	0.165	<0.000394	70.9	30-130	0.8	30	
Dibenz(a,h)anthracene	0.13	0.00067	"	0.165	<0.000614	78.7	30-130	3.9	30	
Chrysene	0.111	0.00067	"	0.165	<0.000624	67.2	30-130	1.7	30	
Acenaphthene	0.103	0.00067	"	0.165	<0.000304	62.4	30-130	0.9	30	
Naphthalene	0.0982	0.00067	"	0.165	<0.000484	59.5	30-130	1.8	30	
Benzo(k)fluoranthene	0.117	0.00067	"	0.165	<0.000437	70.9	30-130	0.8	30	
Anthracene	0.112	0.00067	"	0.165	<0.000334	67.8	30-130	2.7	30	
Benzo(a)anthracene	0.114	0.00067	"	0.165	<0.000493	69	30-130	0	30	
Benzo(a)pyrene	0.13	0.00067	"	0.165	<0.000468	78.7	30-130	3.1	30	
Benzo(b)fluoranthene	0.124	0.00067	"	0.165	<0.000585	75.1	30-130	5.8	30	
Surrogate: 2-Fluorobiphenyl	56		"	0.33	171	56	33-115			
Surrogate: Nitrobenzene-d5	58.7		"	0.33	184	58.7	29-110			
Surrogate: 4-Terphenyl-d14	66		"	0.33	209	66	33-122			

MS (L 94327-MS-L642055)		Source: 94327			Prepared: 10/10/2022 Analyzed: 10/11/2022					
Chrysene	0.113	0.00067	mg/Kg	0.166	<0.000624	68	30-130			
Acenaphthene	0.104	0.00067	"	0.166	<0.000304	62.6	30-130			
Naphthalene	0.1	0.00067	"	0.166	<0.000484	60.2	30-130			
Indeno(1,2,3-cd)pyrene	0.125	0.00067	"	0.166	<0.000627	75.3	30-130			
Fluorene	0.108	0.00067	"	0.166	<0.000286	65	30-130			
Fluoranthene	0.116	0.00067	"	0.166	<0.000394	69.8	30-130			
Dibenz(a,h)anthracene	0.125	0.00067	"	0.166	<0.000614	75.3	30-130			

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8000 W 44th Ave
Wheat Ridge CO 80033

Martin C Eckert III
Project Number: [none]
Project: Noble - Pollack Haddix 1

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 L642055 - 3550B

MS (L 94327-MS-L642055)		Source: 94327			Prepared: 10/10/2022 Analyzed: 10/11/2022					
Pyrene	0.115	0.00067	mg/Kg	0.166	<0.000643	69.2	30-130			
Benzo(b)fluoranthene	0.117	0.00067	"	0.166	<0.000585	70.4	30-130			
Benzo(a)pyrene	0.126	0.00067	"	0.166	<0.000468	75.9	30-130			
Anthracene	0.109	0.00067	"	0.166	<0.000334	65.6	30-130			
2-Methylnaphthalene	0.102	0.00067	"	0.166	<0.000645	61.4	30-130			
Benzo(k)fluoranthene	0.116	0.00067	"	0.166	<0.000437	69.8	30-130			
Benzo(a)anthracene	0.114	0.00067	"	0.166	<0.000493	68.6	30-130			
1-Methylnaphthalene	0.103	0.00067	"	0.166	<0.000364	62	30-130			
Surrogate: Nitrobenzene-d5	60.2		"	0.332	184	60.2	29-110			
Surrogate: 2-Fluorobiphenyl	57.5		"	0.332	171	57.5	33-115			
Surrogate: 4-Terphenyl-d14	65.3		"	0.332	209	65.3	33-122			

LCS (LCS-L642055)		Prepared: 10/10/2022 Analyzed: 10/11/2022								
Dibenz(a,h)anthracene	0.122	0.00067	mg/Kg	0.167		73	30-130			
Fluoranthene	0.121	0.00067	"	0.167		72.4	30-130			
Fluorene	0.118	0.00067	"	0.167		70.6	30-130			
Indeno(1,2,3-cd)pyrene	0.122	0.00067	"	0.167		73	30-130			
Naphthalene	0.103	0.00067	"	0.167		61.6	30-130			
Pyrene	0.118	0.00067	"	0.167		70.6	30-130			
1-Methylnaphthalene	0.103	0.00067	"	0.167		61.6	30-130			
Chrysene	0.118	0.00067	"	0.167		70.6	30-130			
Benzo(b)fluoranthene	0.13	0.00067	"	0.167		77.8	30-130			
Benzo(a)pyrene	0.136	0.00067	"	0.167		81.4	30-130			
Benzo(a)anthracene	0.123	0.00067	"	0.167		73.6	30-130			
Anthracene	0.115	0.00067	"	0.167		68.8	30-130			
Acenaphthene	0.107	0.00067	"	0.167		64	30-130			
2-Methylnaphthalene	0.103	0.00067	"	0.167		61.6	30-130			

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8000 W 44th Ave
Wheat Ridge CO 80033

Martin C Eckert III
Project Number: [none]
Project: Noble - Pollack Haddix 1

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 L642055 - 3550B										
LCS (LCS-L642055)					Prepared: 10/10/2022 Analyzed: 10/11/2022					
Benzo(k)fluoranthene	0.118	0.00067	mg/Kg	0.167		70.6	30-130			
Surrogate: Nitrobenzene-d5	68.1		"	0.333		68.1	29-110			
Surrogate: 4-Terphenyl-d14	75.9		"	0.333		75.9	33-122			
Surrogate: 2-Fluorobiphenyl	63.9		"	0.333		63.9	33-115			
LRB (LRB-L642055)					Prepared: 10/10/2022 Analyzed: 10/11/2022					
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	0.00067	"				-			
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	0.00067	"				-			
1-Methylnaphthalene	ND	0.00067	"				-			
Pyrene	ND	0.00067	"				-			
Anthracene	ND	0.00067	"				-			
Surrogate: Nitrobenzene-d5	69.9		"	0.333		69.9	29-110			
Surrogate: 4-Terphenyl-d14	76.5		"	0.333		76.5	33-122			
Surrogate: 2-Fluorobiphenyl	68.1		"	0.333		68.1	33-115			

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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 - Pollack Haddix 1

Notes and Definitions

U Sample is Non-Detect.

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

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.



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October 21, 2022

Eagle Environmental Consulting, Inc.

Martin C Eckert III

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - Noble - Pollack Haddix 1

Project Number - [none]

Attached are your analytical results for Noble - Pollack Haddix 1 received by Origins Laboratory, Inc. October 12, 2022. This project is associated with Origins project number Y210292-01.

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.
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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 - Pollack Haddix 1

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-01	Y210292-01	Water	October 12, 2022 14:10	10/12/2022 15:37

Origins Laboratory, Inc.



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Wheat Ridge CO 80033

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Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: 52W292

Client: Eagle Environmental

Client Project ID: Pollack Haddix 1

Checklist Completed by: TJH/EHS

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

Date/time completed: 10/13/22

Airbill #: N/A

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

Cooler Number/Temperature: 1 / 22 °C / _____ °C / _____ °C (Describe) _____ °C

Thermometer ID: T044

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"/>			NC
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) MP Date/Time Reviewed 10/17/22

Origins Laboratory, Inc.

J. Bynon

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MW-01

10/12/2022 2:10:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Y210292-01 (Water)

Waypoint Analytical, LLC.

BTEX+N+TMBs by 8260B

1,2,4-Trimethylbenzene	ND	1	µg/L	1	L644259		10/19/2022	10/19/2022	
1,3,5-Trimethylbenzene	ND	1	"	"	"		"	"	
Benzene	ND	1	"	"	"		"	"	
Ethylbenzene	ND	1	"	"	"		"	"	
Naphthalene	ND	5	"	"	"		"	"	
Toluene	ND	2	"	"	"		"	"	
Xylene (Total)	ND	1	"	"	"		"	"	

Surrogate: 1,2-Dichloroethane - d4	89.4 %	63-136			"		"	"	
Surrogate: 4-Bromofluorobenzene	84.6 %	71-137			"		"	"	
Surrogate: Dibromofluoromethane	99.8 %	70-128			"		"	"	
Surrogate: Toluene-d8	81.6 %	70-130			"		"	"	

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BTEX+N+TMBs by 8260B - 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 L644259 - 5030B

MSD (L 97291-MSD-L644259)		Source: 97291			Prepared: 10/19/2022 Analyzed: 10/19/2022					
1,3,5-Trimethylbenzene	86.1	1	µg/L	100	<0.620	86.1	57-150	4.3	30	
Benzene	102	1	"	100	<0.580	102	58-143	3.8	30	
Ethylbenzene	87.9	1	"	100	<0.560	87.9	65-141	4.8	30	
Naphthalene	88.9	5	"	100	<4.49	88.9	51-153	3.2	30	
Toluene	88.1	2	"	100	<0.480	88.1	64-145	3.5	30	
1,2,4-Trimethylbenzene	81.9	1	"	100	<0.530	81.9	55-149	3.5	30	
Surrogate: Toluene-d8	84.8		"	50	40.9	84.8	70-130			
Surrogate: 1,2-Dichloroethane - d4	91.2		"	50	44.7	91.2	63-136			
Surrogate: 4-Bromofluorobenzene	79.6		"	50	41.1	79.6	71-137			
Surrogate: Dibromofluoromethane	94.2		"	50	50.6	94.2	70-128			
MS (L 97291-MS-L644259)		Source: 97291			Prepared: 10/19/2022 Analyzed: 10/19/2022					
Naphthalene	91.8	5	µg/L	100	<4.49	91.8	51-153			
Ethylbenzene	92.3	1	"	100	<0.560	92.3	65-141			
Benzene	106	1	"	100	<0.580	106	58-143			
1,3,5-Trimethylbenzene	89.9	1	"	100	<0.620	89.9	57-150			
Toluene	91.3	2	"	100	<0.480	91.3	64-145			
1,2,4-Trimethylbenzene	84.9	1	"	100	<0.530	84.9	55-149			
Surrogate: Dibromofluoromethane	97.8		"	50	50.6	97.8	70-128			
Surrogate: 4-Bromofluorobenzene	81		"	50	41.1	81	71-137			
Surrogate: Toluene-d8	85.4		"	50	40.9	85.4	70-130			
Surrogate: 1,2-Dichloroethane - d4	93.8		"	50	44.7	93.8	63-136			
LCS (LCS-L644259)		Prepared: 10/19/2022 Analyzed: 10/19/2022								
1,3,5-Trimethylbenzene	85.5	1	µg/L	100		85.5	75-125			
Benzene	92.2	1	"	100		92.2	70-130			
Ethylbenzene	85.6	1	"	100		85.6	80-120			
Naphthalene	89.4	5	"	100		89.4	55-145			

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BTEX+N+TMBs by 8260B - 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 L644259 - 5030B

LCS (LCS-L644259)

Prepared: 10/19/2022 Analyzed: 10/19/2022

Toluene	83.5	2	µg/L	100	83.5	80-120
1,2,4-Trimethylbenzene	81.6	1	"	100	81.6	65-135
Surrogate: Toluene-d8	86		"	50	86	70-130
Surrogate: 1,2-Dichloroethane - d4	87.2		"	50	87.2	63-136
Surrogate: 4-Bromofluorobenzene	82.4		"	50	82.4	71-137
Surrogate: Dibromofluoromethane	94.6		"	50	94.6	70-128

LRB (LRB-L644259)

Prepared: 10/19/2022 Analyzed: 10/19/2022

Toluene	ND	2	µg/L			-
Naphthalene	ND	5	"			-
Ethylbenzene	ND	1	"			-
Benzene	ND	1	"			-
1,3,5-Trimethylbenzene	ND	1	"			-
1,2,4-Trimethylbenzene	ND	1	"			-
Surrogate: Dibromofluoromethane	95		"	50	95	70-128
Surrogate: 4-Bromofluorobenzene	77		"	50	77	71-137
Surrogate: Toluene-d8	79.4		"	50	79.4	70-130
Surrogate: 1,2-Dichloroethane - d4	82.2		"	50	82.2	63-136

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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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