

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
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Site Name & COGCC Facility Number: WOKVIES #35-14	Date: 10-25-22	Remediation Project #: 24380
Associated Wells: 05-123-30951	Age of Site: YEARS	Number of Photos Attached: 2
Location: (GPS coordinates of wellhead or southeastern most wellhead for multiple) 40.307185, -104.637373		Estimated Facility Size (acres):

General Condition of Site: (General observations regarding housekeeping, corrosion, waste management, etc.)
GOOD

USCS Soil Type: **SW** Estimated Depth to Groundwater: **> 20'**

Hydrocarbon Impacted Soils / Spills: (Note estimated size and if impact appears to be surficial or extends to an unknown depth)
NONE OBSERVED

Salt Crusted Soils or Impacted Vegetation: (Note estimated size and if impact appears to be surficial or extends to an unknown depth)
NONE OBSERVED

Wellhead(s)						
Well API	05-123-30951					
Age	YEARS					
Condition of surface around wellhead	GOOD - PER CREW					
PID Readings	N/A - EXCAVATED UPON ARRIVAL					
Condition of subsurface (satellite present)	GOOD					
PID Readings	5.1	5.4	3.5	3.6	6.1	
Sample taken? Location/Sample ID	WH-SS-01	WH-SS-02	WH-SS-03	WH-SS-04	WH-SS-01	
Photo Number(s)	SEE PHOTOLG					

Other observations regarding wellheads:
WELL CASING CUT/CAPPED PRIOR TO ASSESSMENT.

Summary

Was impacted soil identified?
 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: **6.1** Total number of samples submitted to lab for analysis: **1**

If more than 10 cubic yards of impacted soil were observed:

Vertical extent: **N/A** Estimated spill volume:

Lateral extent: **N/A** Volume of soil removed:

Is additional investigation required?

Was groundwater encountered during the investigation?
 No Yes - not impacted or in contact with impacted soils Yes - groundwater impacted and/or in contact with impacted soils

Measured depth to groundwater: Was remedial groundwater removal conducted? Yes No

Date Groundwater was encountered: Commencement date of removal:

Sheen on groundwater? Yes No Volume of groundwater removed prior to sampling:

Free product observed? Yes No Volume of groundwater removed post sampling:

Total number of samples collected: Total Volume of groundwater removed:

Total number of samples submitted to lab for analysis:



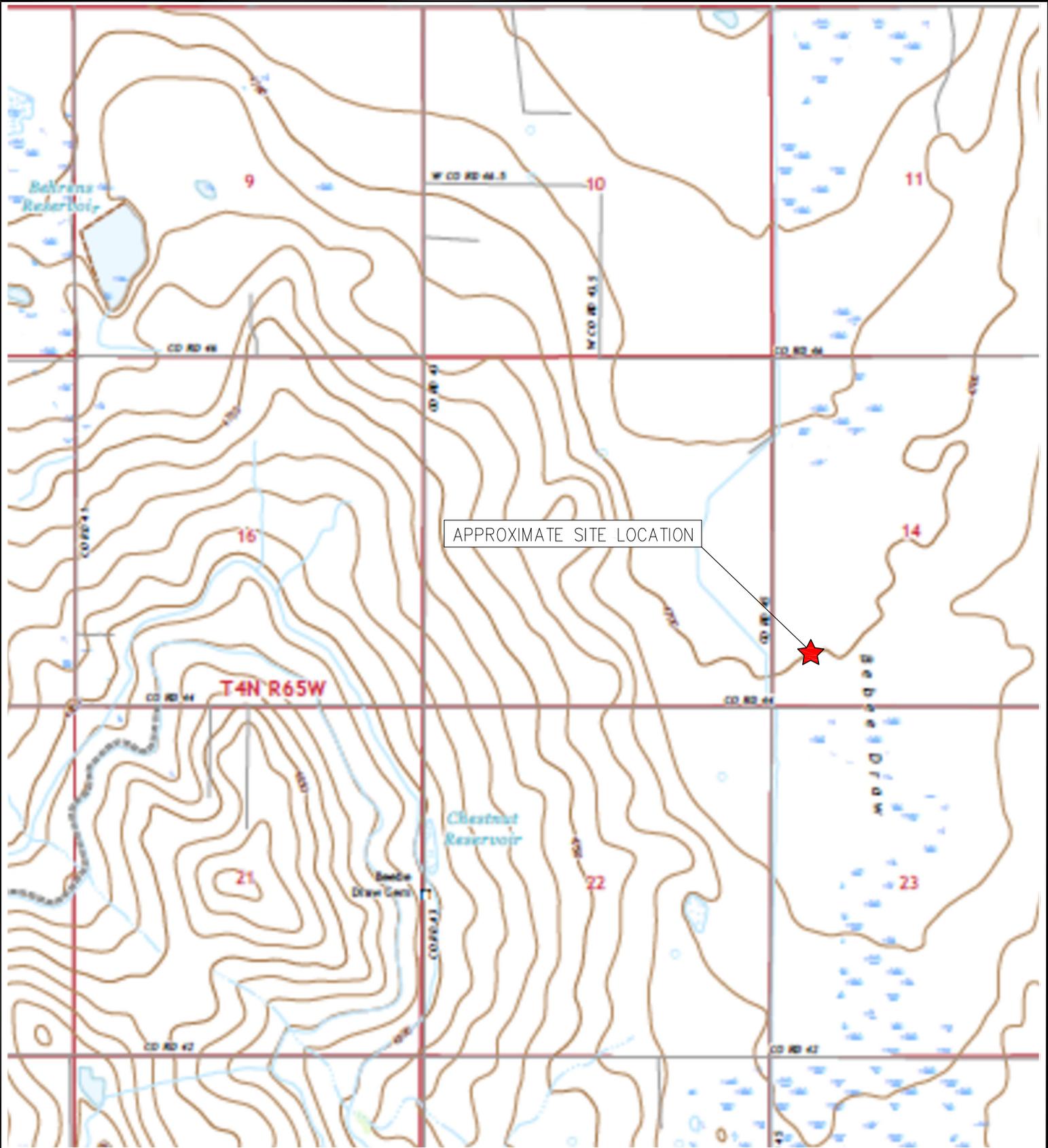
FIGURES

Figure 1: Topographic Site Location Map

Figure 2: Aerial Site Location Map

Figure 3: Soil Analytical Map

Figure 4: Polycyclic Aromatic Hydrocarbons Map



APPROXIMATE SITE LOCATION

TOPOGRAPHIC SITE LOCATION MAP
 WORRIES #35-14
 CLOSURE ASSESSMENT
 40.307185 / -104.637373
 SW¼ SW¼ SEC.14 T4N R65W 6PM
 WELD COUNTY, COLORADO
 API # 05-123-30951
 REMEDIATION # 24380



EAGLE
 ENVIRONMENTAL
 CONSULTING, INC.

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



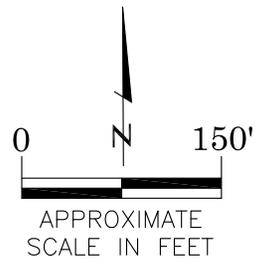
SOURCE: USGS 7.5 MINUTE TOPOGRAPHIC MAP,
 LA SALLE, CO QUADRANGLE 2022

FIGURE 1



LEGEND

- FORMER WORRIES #35-14 WELLHEAD (PLUGGED AND ABANDONED)
- ASSOCIATED SEPARATOR
- APPROXIMATE FLOWLINE LOCATION



AERIAL SITE LOCATION MAP
 WORRIES #35-14
 CLOSURE ASSESSMENT
 40.307185 / -104.637373
 SW¼ SW¼ SEC.14 T4N R65W 6PM
 WELD COUNTY, COLORADO
 API # 05-123-30951
 REMEDIATION # 24380

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FIG. NO.

2



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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)

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

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

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

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

COGCC = COLORADO OIL AND GAS CONSERVATION COMMISSION

SOIL ANALYTICAL MAP
 WORRIES #35-14
 CLOSURE ASSESSMENT
 40.307185 / -104.637373
 SW¼ SW¼ SEC.14 T4N R65W 6PM
 WELD COUNTY, COLORADO
 API # 05-123-30951
 REMEDIATION # 24380

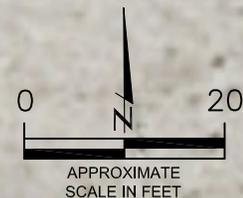
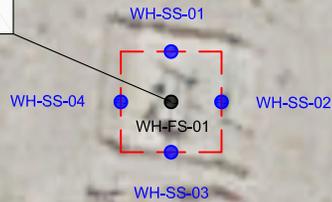
DRAWN BY:
 IM

FIG.
 NO. 3

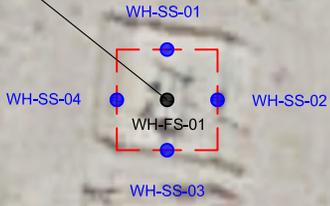


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 Ph: 303-433-0479 • F: 303-325-5449

WH-FS-01@6'
10/25/22
6'
B = <0.00200
T = <0.00200
E = <0.00200
X = <0.00200
G = <0.200
D = <25.0
R = <100
1,2,4-TMB = <0.00200
1,3,5-TMB = <0.00200
Brn= 0.977
EC = 0.766
SAR= 5.62
pH = 9.57



WH-FS-01@6'
 10/25/22
 6"
 ND = <0.00335
 1-Methylnaphthalene = 0.00193
 2-Methylnaphthalene = ND
 Acenaphthene = ND
 Anthracene = ND
 Benzo(a)anthracene = ND
 Benzo(a)pyrene = ND
 Benzo(b)fluoranthene = ND
 Benzo(k)fluoranthene = ND
 Chrysene = ND
 Dibenzo(a,h)anthracene = ND
 Fluoranthene = ND
 Fluorene = ND
 Indeno(1,2,3-CD)pyrene = ND
 Naphthalene = ND
 Pyrene = ND



LEGEND

- WELLHEAD 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 SAMPLE COLLECTED
 APPROXIMATE DEPTH
 POLYCYCLIC AROMATIC HYDROCARBONS (PAHs) (mg/kg)

mg/kg = MILLIGRAMS PER KILOGRAM

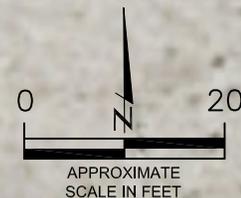
ND = NON-DETECT

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

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

COGCC = COLORADO OIL AND GAS CONSERVATION COMMISSION

POLYCYCLIC AROMATIC HYDROCARBONS MAP
 WORRIES #35-14
 CLOSURE ASSESSMENT
 40.307185 / -104.637373
 SW¼ SW¼ SEC.14 T4N R6SW 6PM
 WELD COUNTY, COLORADO
 API # 05-123-30951
 REMEDIATION # 24380



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FIG. NO. 4



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TABLES

Table 1: Photoionization Detector Reading Summary

Table 2: Soil Analytical Results Summary

TABLE 1
PHOTOIONIZATION DETECTOR READING SUMMARY
WORRIES #35-14
CLOSURE ASSESSMENT
40.307185 / -104.637373
SW 1/4 SW 1/4 SEC.14 T4N R65W 6PM
WELD COUNTY, COLORADO
API # 05-123-30951
REMEDIATION # 24380

Sample Location (Latitude/Longitude)	Date	Approximate Depth (feet)	PID Reading (ppm-v)	Lab Submission (Y/N)
WH-SS-01 @ 5' (40.307200 / -104.637371)	10/25/22	5	5.1	N
WH-SS-02 @ 5' (40.307183 / -104.637354)	10/25/22	5	5.4	N
WH-SS-03 @ 5' (40.307171 / -104.637371)	10/25/22	5	3.5	N
WH-SS-04 @ 5' (40.307183 / -104.637389)	10/25/22	5	3.6	N
WH-FS-01 @ 6' (40.307183 / -104.637371)	10/25/22	6	6.1	Y
(Y/N) = Yes or No ppm-v = parts per million by volume PID = Photoionization Detector				

TABLE 2
SOIL ANALYTICAL RESULTS
WORRIES #35-14
CLOSURE ASSESSMENT
40.307185 / -104.637373
SW 1/4 SW 1/4 SEC.14 T4N R65W 6PM
WELD COUNTY, COLORADO
API # 05-123-30951
REMEDATION # 24380

Sample Location (Latitude / Longitude)		WH-FS-01 @ 6' (40.307183 / -104.637371)		
Sample Date		10/25/2022		
Sample Depth		6'		
PID Reading (ppm-v)		6.1		
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	0.00193
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)				
Boron	mg/L	2	--	0.977
pH	standard unit	6-8.3	--	9.57
Sodium Adsorption Ratio (SAR)	--	<6	--	5.62
Specific Conductance (EC)	mmhos/cm	<4	--	0.766
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 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 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

Worries #35-14
API # 05-123-30951
Remediation # 24380

Closure Assessment

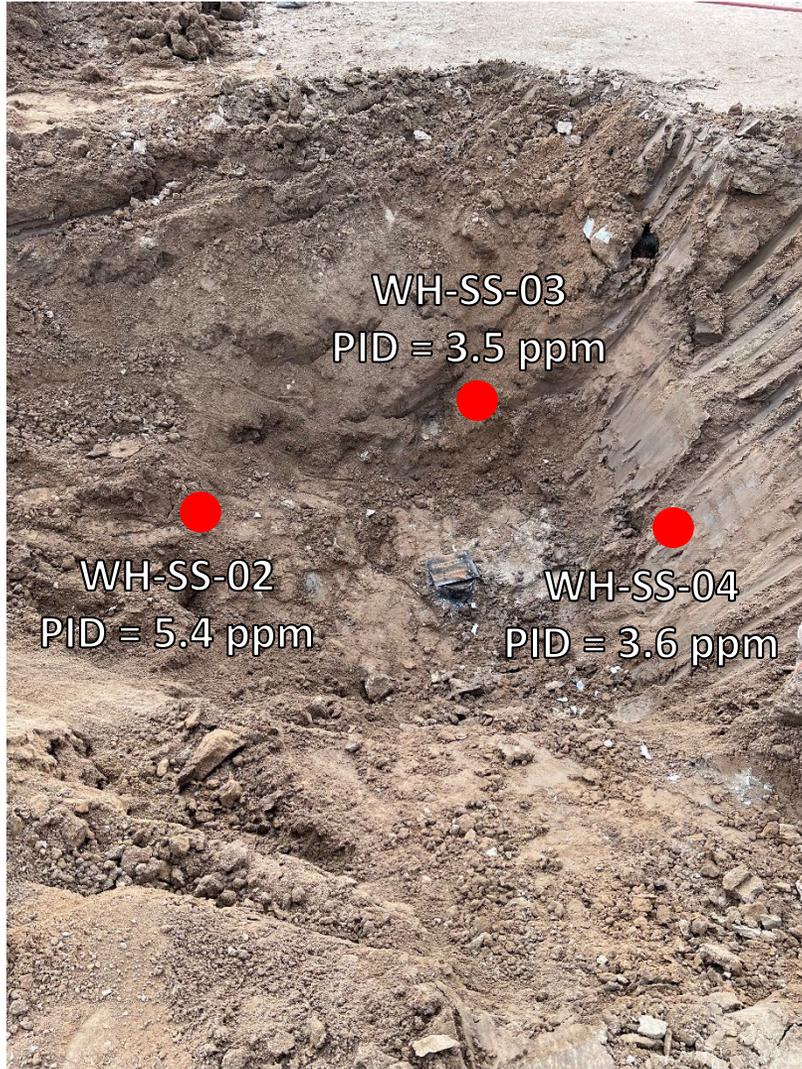
October 2022



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



Wellhead Excavation – 10/25/22



Looking south
No petroleum hydrocarbon staining or odor observed



Looking east
No petroleum hydrocarbon staining or odor observed



ATTACHMENT B

Laboratory Analytical Report

November 08, 2022

Eagle Environmental Consulting, Inc.

Martin C Eckert III

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - Noble - Worries #35-14

Project Number - [none]

Attached are your analytical results for Noble - Worries #35-14 received by Origins Laboratory, Inc. October 25, 2022. This project is associated with Origins project number Y210622-01.

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



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

Martin C Eckert III
Project Number: [none]
Project: Noble - Worries #35-14

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
WH-FS-01@6'	Y210622-01	Soil	October 25, 2022 14:18	10/25/2022 15:35

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 - Worries #35-14

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: 1210622

Client: Eagle Environmental
 Client Project ID: Worried #35-14

Checklist Completed by: JDH/EHS
 Date/time completed: 10/26/12

Shipped Via: HD
 (UPS, FedEx, Hand Delivered, Pick-up, etc.)
 Airbill #: N/A

Matrix(s) Received: (Check all that apply): Soil/Solid Water Other: _____
 Cooler Number/Temperature: 1, 41 °C / _____ °C / _____ °C (Describe)

Thermometer ID: T004

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C ⁽¹⁾ ?	/			
Is there ice present (document if blue ice is used)	/			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		/		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)		/		
Were all samples received intact ⁽¹⁾ ?	/			
Was adequate sample volume provided ⁽¹⁾ ?	/			
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?		/		
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	/			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	/			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	/			
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	/			
For volatiles in water – is there headspace (> 1/4 inch bubble) present? If yes, contact client and note in narrative.			/	
Are samples preserved that require preservation and was it checked ⁽¹⁾ ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)/(pH < 2 for samples preserved with HNO3, HCL, H2SO4) / (pH > 10 for samples preserved with NaAsO2+NaOH, ZnAc+NaOH)			/	
Additional Comments (if any):				

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

Reviewed by: JDH (Project Manager) Date/Time Reviewed: 10-26-12

Origins Laboratory, Inc.



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

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

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Worries #35-14

WH-FS-01@6'
10/25/2022 2:18:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y210622-01 (Soil)

Boron (DTPA Sorbitol)

Boron	0.977		0.101	mg/L	1	B2J2711	10/27/2022	10/28/2022	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B2J2809	10/28/2022	11/03/2022	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	100 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B2J2728	10/27/2022	11/05/2022	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	101 %		70-130			"	"	"	
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Origins Laboratory, Inc.



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

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

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Worries #35-14

WH-FS-01@6'

10/25/2022 2:18:00PM

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

Origins Laboratory, Inc.
Y210622-01 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	98.2 %		70-130			B2J27 28	10/27/2022	11/05/2022	
Surrogate: 4-Bromofluorobenzene	90.3 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	1.83		0.499	meq/L	10	[CALC]	10/28/2022	11/01/2022	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	5.83		0.435	"	"	"	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	0.00193	0.00182	0.00335	mg/Kg	5	L646022	10/31/2022	10/31/2022	J
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	"	"	"	"	"	

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 - Worries #35-14

WH-FS-01@6'
10/25/2022 2:18:00PM

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

Waypoint Analytical, LLC.
Y210622-01 (Soil)

PAH by 8270D SIM

Fluorene	ND	0.00143	0.00335	mg/Kg	5	L646022	10/31/2022	10/31/2022	
Indeno(1,2,3-cd)pyrene	ND	0.00314	0.00335	"	"	"	"	"	
Naphthalene	ND	0.00242	0.00335	"	"	"	"	"	
Pyrene	ND	0.00322	0.00335	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	71 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	81 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	63.7 %		29-110			"	"	"	

pH in Soil by 9045D

pH	9.57			pH Units	1	B2J3106	10/31/2022	11/01/2022	
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SAR by 20B Saturated Paste

SAR	5.62			SAR	1	B2J2803	10/28/2022	11/01/2022	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.766		0.00500	mmhos/cm	1	B2J3106	10/31/2022	11/01/2022	
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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 - Worries #35-14

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 B2J2728 - EPA 5030 (soil)

Blank (B2J2728-BLK1)

Prepared: 10/27/2022 Analyzed: 11/04/2022

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	0.12		"	0.125	99.0		70-130			
Surrogate: Toluene-d8	0.12		"	0.125	98.1		70-130			
Surrogate: 4-Bromofluorobenzene	0.11		"	0.125	90.2		70-130			

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Martin C Eckert III
 Project Number: [none]
 Project: Noble - Worries #35-14

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 B2J2728 - EPA 5030 (soil)

LCS (B2J2728-BS1)

Prepared: 10/27/2022 Analyzed: 11/04/2022

1,2,4-Trimethylbenzene	0.102	0.00200	mg/kg	0.100		102	70-130			
1,3,5-Trimethylbenzene	0.101	0.00200	"	0.100		101	70-130			
Benzene	0.117	0.00200	"	0.100		117	70-130			
Ethylbenzene	0.101	0.00200	"	0.100		101	70-130			
Naphthalene	0.114	0.00380	"	0.100		114	70-130			
Toluene	0.112	0.00200	"	0.100		112	70-130			
o-Xylene	0.102	0.00200	"	0.100		102	70-130			
m,p-Xylene	0.206	0.00400	"	0.200		103	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		99.3	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		99.2	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		94.9	70-130			

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Martin C Eckert III
 Project Number: [none]
 Project: Noble - Worries #35-14

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 B2J2728 - EPA 5030 (soil)

Matrix Spike (B2J2728-MS1)	Source: Y210588-01			Prepared: 10/27/2022 Analyzed: 11/04/2022						
1,2,4-Trimethylbenzene	0.101	0.00200	mg/kg	0.100	ND	101	70-130			
1,3,5-Trimethylbenzene	0.0993	0.00200	"	0.100	ND	99.3	70-130			
Benzene	0.0907	0.00200	"	0.100	ND	90.7	70-130			
Ethylbenzene	0.0940	0.00200	"	0.100	ND	94.0	70-130			
Naphthalene	0.107	0.00380	"	0.100	ND	107	70-130			
Toluene	0.107	0.00200	"	0.100	ND	107	70-130			
o-Xylene	0.0969	0.00200	"	0.100	ND	96.9	70-130			
m,p-Xylene	0.195	0.00400	"	0.200	ND	97.6	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		101	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		97.6	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		94.6	70-130			

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Martin C Eckert III
 Project Number: [none]
 Project: Noble - Worries #35-14

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 B2J2728 - EPA 5030 (soil)

Matrix Spike Dup (B2J2728-MSD1)	Source: Y210588-01			Prepared: 10/27/2022 Analyzed: 11/07/2022						
1,2,4-Trimethylbenzene	0.108	0.00200	mg/kg	0.100	ND	108	70-130	6.12	20	
1,3,5-Trimethylbenzene	0.106	0.00200	"	0.100	ND	106	70-130	6.58	20	
Benzene	0.101	0.00200	"	0.100	ND	101	70-130	11.1	20	
Ethylbenzene	0.104	0.00200	"	0.100	ND	104	70-130	9.93	20	
Naphthalene	0.116	0.00380	"	0.100	ND	116	70-130	8.12	20	
Toluene	0.112	0.00200	"	0.100	ND	112	70-130	4.33	20	
o-Xylene	0.104	0.00200	"	0.100	ND	104	70-130	6.68	20	
m,p-Xylene	0.215	0.00400	"	0.200	ND	107	70-130	9.48	20	
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		102	70-130			
Surrogate: Toluene-d8	0.11		"	0.125		91.7	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		93.7	70-130			

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Martin C Eckert III
 Project Number: [none]
 Project: Noble - Worries #35-14

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 B2J2809 - EPA 3550B										
Blank (B2J2809-BLK1)										
					Prepared: 10/28/2022 Analyzed: 11/01/2022					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	22		"	24.9		87.0	50-150			

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 Project Number: [none]
 Project: Noble - Worries #35-14

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 B2J2809 - EPA 3550B

LCS (B2J2809-BS1)

Prepared: 10/28/2022 Analyzed: 11/01/2022

Diesel (C10-C28)	850	50.0	mg/kg	1000		85.0	70-130			
Residual Range Organics (C28-C40)	830	200	"	1000		83.0	70-130			
Surrogate: o-Terphenyl	43		"	49.8		86.4	50-150			

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Martin C Eckert III
 Project Number: [none]
 Project: Noble - Worries #35-14

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 B2J2809 - EPA 3550B

Matrix Spike (B2J2809-MS1)	Source: Y210617-01			Prepared: 10/28/2022 Analyzed: 11/01/2022						
Diesel (C10-C28)	918	50.0	mg/kg	1000	ND	91.8	70-130			
Residual Range Organics (C28-C40)	907	200	"	1000	ND	90.7	70-130			
Surrogate: o-Terphenyl	43		"	49.8		87.1	50-150			

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 Project Number: [none]
 Project: Noble - Worries #35-14

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 B2J2809 - EPA 3550B										
Matrix Spike Dup (B2J2809-MSD1)		Source: Y210617-01			Prepared: 10/28/2022 Analyzed: 11/01/2022					
Diesel (C10-C28)	898	50.0	mg/kg	1000	ND	89.8	70-130	2.28	35	
Residual Range Organics (C28-C40)	949	200	"	1000	ND	94.9	70-130	4.60	35	
Surrogate: o-Terphenyl	50		"	49.8		99.8	50-150			

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 Project Number: [none]
 Project: Noble - Worries #35-14

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 B2J2711 - DTPA Sorbitol Preparation

Blank (B2J2711-BLK1)

Prepared: 10/27/2022 Analyzed: 10/28/2022

Boron ND 0.100 mg/L

Duplicate (B2J2711-DUP1)

Source: Y210570-02

Prepared: 10/27/2022 Analyzed: 10/28/2022

Boron 0.496 0.101 mg/L 0.490 1.35 50

Batch B2J2803 - Saturated Paste

Blank (B2J2803-BLK1)

Prepared: 10/28/2022 Analyzed: 11/01/2022

Calcium PPM ND 10.0 mg/L

SAR 0.00 SAR

Magnesium PPM ND 10.0 mg/L

Sodium PPM ND 10.0 "

Duplicate (B2J2803-DUP1)

Source: Y210554-11

Prepared: 10/28/2022 Analyzed: 11/01/2022

Calcium PPM 468 10.0 mg/L 402 15.1 50

SAR 0.00 SAR 1.68 200 200

Magnesium PPM 27.5 10.0 mg/L 23.0 17.8 50

Sodium PPM 140 10.0 " 128 8.80 50

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 Project: Noble - Worries #35-14

Saturated Paste - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B2J3106 - NO PREP										
Blank (B2J3106-BLK1)					Prepared: 10/31/2022 Analyzed: 11/01/2022					
Specific Conductance (EC)	ND	0.00500	mmhos/cm							
Duplicate (B2J3106-DUP1)					Source: Y210554-11 Prepared: 10/31/2022 Analyzed: 11/01/2022					
pH	7.83		pH Units		7.88			0.637	25	
Specific Conductance (EC)	1.52	0.00500	mmhos/cm		2.42			45.7	25	QR-DUP

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Martin C Eckert III
 Project Number: [none]
 Project: Noble - Worries #35-14

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 L646022 - 3550B

MSD (L 84111-MSD-L646022)		Source: 84111			Prepared: 10/31/2022 Analyzed: 10/31/2022					
2-Methylnaphthalene	0.11	0.00067	mg/Kg	0.166	<0.000645	66.2	30-130	0.9	30	
Fluorene	0.133	0.00067	"	0.166	<0.000286	80.1	30-130	5.4	30	
Pyrene	0.124	0.00067	"	0.166	<0.000643	74.6	30-130	1.6	30	
Indeno(1,2,3-cd)pyrene	0.151	0.00067	"	0.166	<0.000627	90.9	30-130	17.2	30	
Fluoranthene	0.126	0.00067	"	0.166	<0.000394	75.9	30-130	0.7	30	
Dibenz(a,h)anthracene	0.151	0.00067	"	0.166	<0.000614	90.9	30-130	22	30	
Chrysene	0.124	0.00067	"	0.166	<0.000624	74.6	30-130	1.6	30	
Naphthalene	0.107	0.00067	"	0.166	<0.000484	64.4	30-130	2.8	30	
1-Methylnaphthalene	0.111	0.00067	"	0.166	<0.000364	66.8	30-130	5.5	30	
Benzo(k)fluoranthene	0.118	0.00067	"	0.166	<0.000437	71	30-130	11.2	30	
Acenaphthene	0.115	0.00067	"	0.166	<0.000304	69.2	30-130	0.8	30	
Anthracene	0.123	0.00067	"	0.166	<0.000334	74	30-130	0.8	30	
Benzo(a)anthracene	0.124	0.00067	"	0.166	<0.000493	74.6	30-130	0	30	
Benzo(a)pyrene	0.151	0.00067	"	0.166	<0.000468	90.9	30-130	5.4	30	
Benzo(b)fluoranthene	0.125	0.00067	"	0.166	<0.000585	75.3	30-130	0	30	
Surrogate: 2-Fluorobiphenyl	65		"	0.332	221	65	33-115			
Surrogate: Nitrobenzene-d5	58.1		"	0.332	205	58.1	29-110			
Surrogate: 4-Terphenyl-d14	71.6		"	0.332	229	71.6	33-122			

MS (L 84111-MS-L646022)		Source: 84111			Prepared: 10/31/2022 Analyzed: 10/31/2022					
Benzo(k)fluoranthene	0.132	0.00067	mg/Kg	0.166	<0.000437	79.5	30-130			
Acenaphthene	0.114	0.00067	"	0.166	<0.000304	68.6	30-130			
Naphthalene	0.104	0.00067	"	0.166	<0.000484	62.6	30-130			
Indeno(1,2,3-cd)pyrene	0.127	0.00067	"	0.166	<0.000627	76.5	30-130			
Fluorene	0.126	0.00067	"	0.166	<0.000286	75.9	30-130			
Fluoranthene	0.125	0.00067	"	0.166	<0.000394	75.3	30-130			
Dibenz(a,h)anthracene	0.121	0.00067	"	0.166	<0.000614	72.8	30-130			

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Martin C Eckert III
 Project Number: [none]
 Project: Noble - Worries #35-14

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 L646022 - 3550B

MS (L 84111-MS-L646022)		Source: 84111			Prepared: 10/31/2022 Analyzed: 10/31/2022					
Chrysene	0.126	0.00067	mg/Kg	0.166	<0.000624	75.9	30-130			
1-Methylnaphthalene	0.105	0.00067	"	0.166	<0.000364	63.2	30-130			
Benzo(a)pyrene	0.143	0.00067	"	0.166	<0.000468	86.1	30-130			
Anthracene	0.122	0.00067	"	0.166	<0.000334	73.4	30-130			
Pyrene	0.126	0.00067	"	0.166	<0.000643	75.9	30-130			
2-Methylnaphthalene	0.109	0.00067	"	0.166	<0.000645	65.6	30-130			
Benzo(b)fluoranthene	0.125	0.00067	"	0.166	<0.000585	75.3	30-130			
Benzo(a)anthracene	0.124	0.00067	"	0.166	<0.000493	74.6	30-130			
Surrogate: Nitrobenzene-d5	63.4		"	0.331	205	63.4	29-110			
Surrogate: 4-Terphenyl-d14	73.1		"	0.331	229	73.1	33-122			
Surrogate: 2-Fluorobiphenyl	67.9		"	0.331	221	67.9	33-115			

LCS (LCS-L646022)		Prepared: 10/31/2022 Analyzed: 10/31/2022								
Chrysene	0.136	0.00067	mg/Kg	0.167		81.4	30-130			
Dibenz(a,h)anthracene	0.161	0.00067	"	0.167		96.4	30-130			
Fluoranthene	0.136	0.00067	"	0.167		81.4	30-130			
Fluorene	0.123	0.00067	"	0.167		73.6	30-130			
Indeno(1,2,3-cd)pyrene	0.166	0.00067	"	0.167		99.4	30-130			
Naphthalene	0.114	0.00067	"	0.167		68.2	30-130			
Benzo(k)fluoranthene	0.141	0.00067	"	0.167		84.4	30-130			
Pyrene	0.134	0.00067	"	0.167		80.2	30-130			
Benzo(a)pyrene	0.148	0.00067	"	0.167		88.6	30-130			
Benzo(a)anthracene	0.132	0.00067	"	0.167		79	30-130			
Anthracene	0.13	0.00067	"	0.167		77.8	30-130			
Acenaphthene	0.116	0.00067	"	0.167		69.4	30-130			
2-Methylnaphthalene	0.125	0.00067	"	0.167		74.8	30-130			
1-Methylnaphthalene	0.125	0.00067	"	0.167		74.8	30-130			

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Martin C Eckert III
 Project Number: [none]
 Project: Noble - Worries #35-14

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 L646022 - 3550B

LCS (LCS-L646022)

Prepared: 10/31/2022 Analyzed: 10/31/2022

Benzo(b)fluoranthene	0.142	0.00067	mg/Kg	0.167		85	30-130			
Surrogate: Nitrobenzene-d5	72.9		"	0.333		72.9	29-110			
Surrogate: 4-Terphenyl-d14	82.5		"	0.333		82.5	33-122			
Surrogate: 2-Fluorobiphenyl	79.5		"	0.333		79.5	33-115			

LRB (LRB-L646022)

Prepared: 10/31/2022 Analyzed: 10/31/2022

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	68.1		"	0.333		68.1	29-110			
Surrogate: 4-Terphenyl-d14	79.8		"	0.333		79.8	33-122			
Surrogate: 2-Fluorobiphenyl	77.1		"	0.333		77.1	33-115			

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Wheat Ridge CO 80033

Martin C Eckert III
Project Number: [none]
Project: Noble - Worries #35-14

Notes and Definitions

U Sample is Non-Detect.

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

J Estimated Value. Analyte below reported quantitation limit.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported on a wet weight basis.

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