

Wellhead Closure Checklist

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

Additional attachments (optional): <u> </u>		Pit Closure <u> </u>		Tank Battery Closure <u> </u>		Flowline Closure <u> </u>		Partially Buried Vault Closure <u> </u>
Site Name & COGCC Facility Number: HSR Hoffman #3-24		Date: 11/9/23					Remediation Project #: 27990	
Associated Wells: 05-123-18224		Age of Site: years					Number of Photos Attached: 6	
Location: (GPS coordinates of wellhead or southeastern most wellhead for multiple) 40.215742 / -104.613810							Estimated Facility Size (acres): <u> </u>	
General Condition of Site: (General observations regarding housekeeping, corrosion, waste management, etc.) Good condition								
USCS Soil Type: Silty SAND					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	05-123-18224							
Age	years							
Condition of surface around wellhead	Good - No odor/no staining							
PID Readings	WH-N: 0.3	WH-E: 0.6	WH-S: 0.7	WH-W: 0.5				
Condition of subsurface (staining present)	Good - No odor/no staining							
PID Readings	1.0	1.3	1.0	1.0	0.7			
Sample taken? Location/Sample ID#	WH-SS-01	WH-SS-02	WH-SS-03	WH-SS-04	WH-FS-01			
Photo Number(s)	See photo log							
Other observations regarding wellheads: Flowline abandoned in place								
Summary								
Was impacted soil identified? (No) Yes - less than 10 cubic yards Yes - more than 10 cubic yards								
Total number of samples field screened: 9				Total number of samples collected: 9				
Highest PID Reading: 1.3				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:				
N/A								
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:								



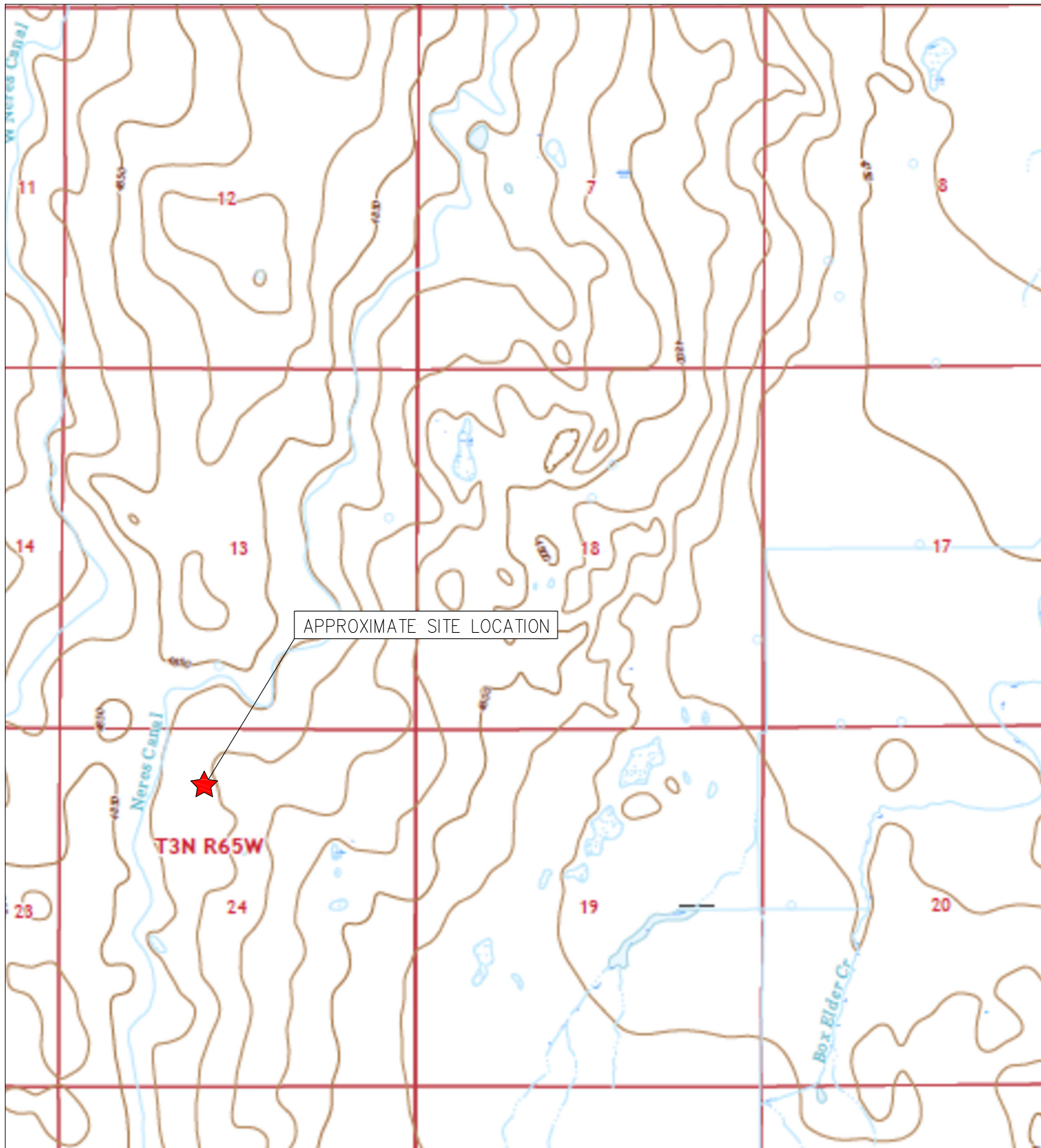
FIGURES

Figure 1: Topographic Site Location Map

Figure 2: Aerial Site Location Map

Figure 3: Sample Location Map

Figure 4: Soil Analytical Map



TOPOGRAPHIC SITE LOCATION MAP
 HSR-HOFFMAN #3-24
 CLOSURE ASSESSMENT
 40.215742 / -104.613810
 NE¼ NW¼ SEC.24 T3N R65W 6PM
 WELD COUNTY, COLORADO
 API # 05-123-18224
 REMEDIATION # 27990

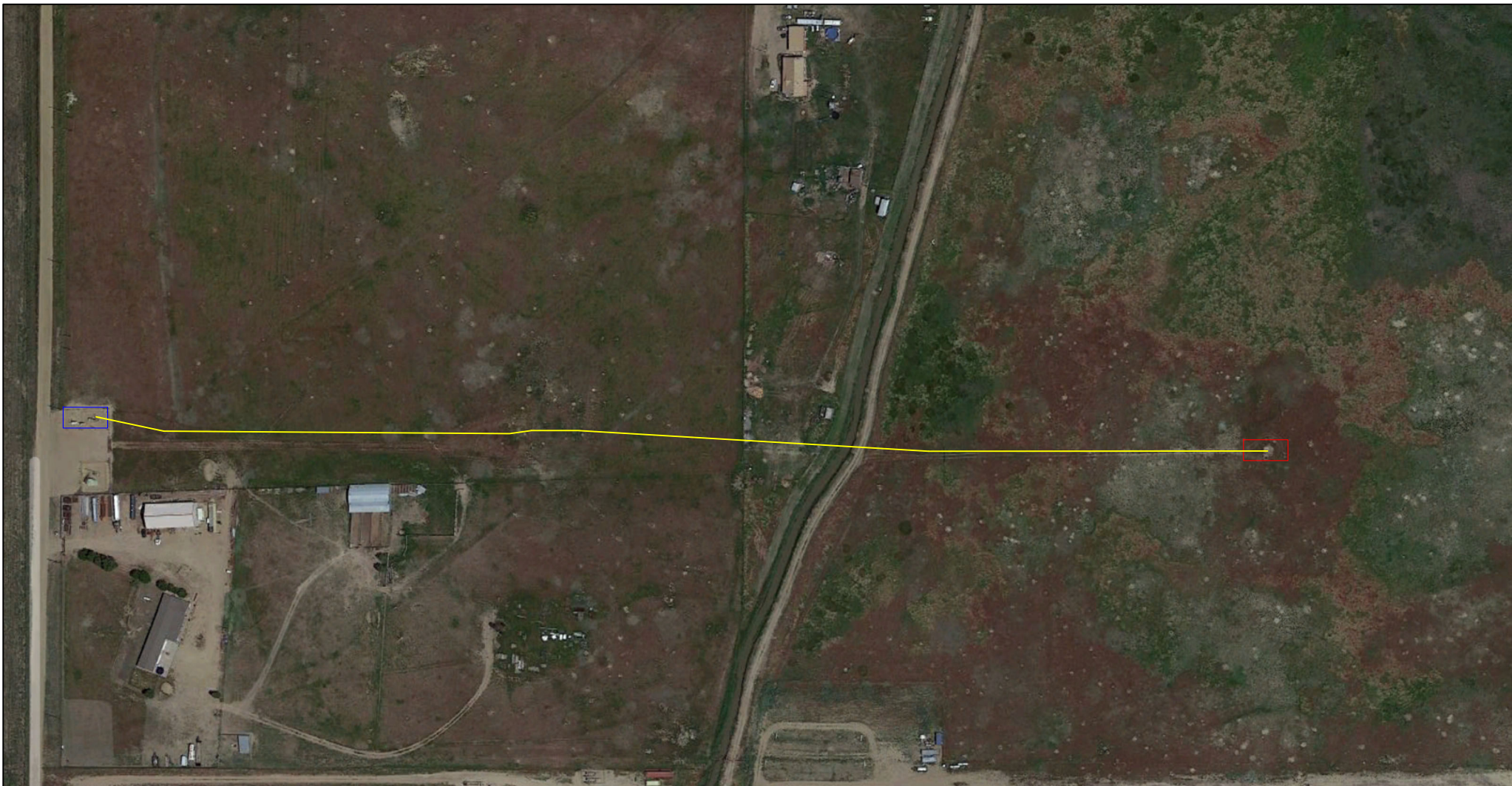


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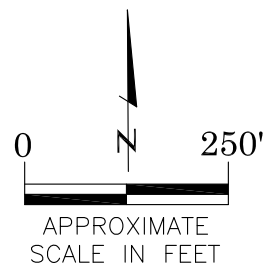
SOURCE: USGS 7.5 MINUTE TOPOGRAPHIC MAP,
 KLUG RANCH, CO QUADRANGLE 2022

FIGURE NO. 1



LEGEND

- FORMER HSR-HOFFMAN #3-24 WELLHEAD (PLUGGED AND ABANDONED)
- ASSOCIATED SEPARATOR
- ASSOCIATED FLOWLINE



AERIAL SITE LOCATION MAP
 HSR-HOFFMAN #3-24
 CLOSURE ASSESSMENT
 40.215742 / -104.613810
 NE¼ NW¼ SEC.24 T3N R64W 6PM
 WELD COUNTY, COLORADO
 API # 05-123-18224
 REMEDIATION # 27990

FIGURE NO.
2

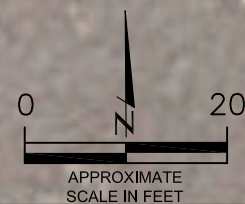
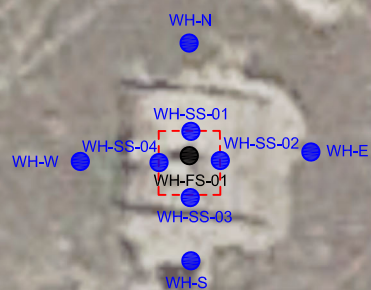
DRAWN BY:
SL



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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



SAMPLE LOCATION MAP
HSR-HOFFMAN #3-24
CLOSURE ASSESSMENT
40.215742 / -104.613810
NE¼ SW¼ SEC.24 T3N R65W 6PM
WELD COUNTY, COLORADO
API # 05-123-18224
REMEDATION # 27990

FIGURE NO.
3

DRAWN BY:
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LEGEND

- INITIAL ASSESSMENT BOUNDARIES
- APPROXIMATE LOCATION OF SOIL SAMPLES SUBMITTED FOR LABORATORY ANALYSIS
- SS-02

PARAMETERS

SAMPLE LOCATION
DATE
DEPTH (FEET)
B = BENZENE (mg/kg)
T = TOLUENE (mg/kg)
E = ETHYLBENZENE (mg/kg)
X = TOTAL XYLENES (mg/kg)
N = NAPHTHALENE (mg/kg)
G = TPH-GRO (mg/kg)
D = TPH-DRO (mg/kg)
R = TPH-RRO (mg/kg)
1,2,4-TMB = 1,2,4 TRIMETHYLBENZENE (mg/kg)
1,3,5-TMB = 1,3,5 TRIMETHYLBENZENE (mg/kg)
Brn= BORON (mg/L)
EC = SPECIFIC CONDUCTANCE (mmhos/cm)
SAR= SODIUM ADSORPTION RATIO
pH = pH (pH UNITS)
POLYCYCLIC AROMATIC HYDROCARBONS (PAHs) (mg/kg)

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

(BRL) = ALL VALUES BELOW REGULATORY LIMITS

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

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

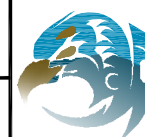
VALUES PRESENTED IN **BOLD** EXCEED ECMC TABLE 915-1 REGULATORY LIMITS

ECMC = ENERGY & CARBON MANAGEMENT COMMISSION

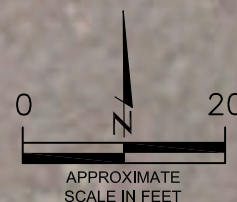
SOIL ANALYTICAL MAP
HSR-HOFFMAN #3-24
CLOSURE ASSESSMENT
40.215742 / -104.613810
NE¼ SW¼ SEC.24 T3N R65W 6PM
WELD COUNTY, COLORADO
API # 05-123-18224
REMEDATION # 27990

FIGURE NO.
4

DRAWN BY:
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WH-FS-01@8'
11/09/23
8'
(BRL)

WH-FS-01



TABLES

Table 1: Photoionization Detector Reading Summary

Table 2: Soil Analytical Results Summary

TABLE 1
PHOTOIONIZATION DETECTOR READING SUMMARY
HSR-HOFFMAN #3-24
CLOSURE ASSESSMENT
40.215742 / -104.613810
NE¼ NW¼ SEC.24 T3N R65W 6PM
WELD COUNTY, COLORADO
API # 05-123-18224
REMEDIAATION # 27990

Sample Location (Latitude/Longitude)	Date	Approximate Depth (feet)	PID Reading (ppm-v)	Lab Submission (Y/N)
WH-FS-01 @ 8' (40.215754 / -104.613809)	11/09/23	8	0.7	Y
WH-SS-01 @ 7' (40.215758 / -104.613810)	11/09/23	7	1.0	N
WH-SS-02 @ 7' (40.215753 / -104.613802)	11/09/23	7	1.3	N
WH-SS-03 @ 7' (40.215744 / -104.613810)	11/09/23	7	1.0	N
WH-SS-04 @ 7' (40.215752 / -104.613820)	11/09/23	7	1.0	N
WH-N @ 0.5' (40.215781 / -104.613806)	11/09/23	0.5	0.3	N
WH-E @ 0.5' (40.215746 / -104.613773)	11/09/23	0.5	0.6	N
WH-S @ 0.5' (40.215724 / -104.613814)	11/09/23	0.5	0.7	N
WH-W @ 0.5' (40.215753 / -104.613850)	11/09/23	0.5	0.5	N
(Y/N) = Yes or No ppm-v = parts per million by volume PID = Photoionization Detector				



TABLE 2
SOIL ANALYTICAL RESULTS SUMMARY
HSR-HOFFMAN #3-24
CLOSURE ASSESSMENT
40.215742 / -104.613810
NE¼ NW¼ SEC.24 T3N R65W 6PM
WELD COUNTY, COLORADO
API # 05-123-18224
REMEDATION # 27990

Sample Location				WH-FS-01 @ 8'
(Latitude / Longitude)				(40.215747 / -104.613810)
Sample Date				11/9/2023
Sample Depth				8
PID Reading (ppm-v)				0.7
Regulatory Limits				
Chemical of Concern	Units	ECMC Table 915-1 RSSLs	ECMC Table 915-1 GSSLs	
VOLATILE ORGANIC COMPOUNDS				
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
Naphthalene	mg/kg	2	0.0038	<0.00380
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	<0.002
2-Methyl-naphthalene	mg/kg	24	0.019	<0.002
Acenaphthene	mg/kg	360	0.55	<0.020
Anthracene	mg/kg	1800	5.8	<0.020
Benzo(a)-anthracene	mg/kg	1.1	0.011	<0.005
Benzo(a)-pyrene	mg/kg	0.11	0.24	<0.020
Benzo(b)-fluoranthene	mg/kg	1.1	0.3	<0.020
Benzo(k)-fluoranthene	mg/kg	11	2.9	<0.020
Chrysene	mg/kg	110	9	<0.020
Dibenzo(a,h)-anthracene	mg/kg	0.11	0.096	<0.020
Fluoranthene	mg/kg	240	8.9	<0.020
Fluorene	mg/kg	240	0.54	<0.020
Indeno(1,2,3-cd)-pyrene	mg/kg	1.1	0.98	<0.020
Pyrene	mg/kg	180	1.3	<0.020
SOIL SUITABILITY (Inorganics)				
Boron	mg/L	2	--	0.366
pH	standard unit	6-8.3	--	8.23
Sodium Adsorption Ratio (SAR)	--	<6	--	0.651
Specific Conductance (EC)	mmhos/cm	<4	--	0.335
ECMC = Energy & Carbon Management Commission				
mg/kg = milligrams per kilogram		RSSLs = Residential Soil Screening Levels		
mmhos/cm = millimhos per centimeter		GSSLs = Protection of Groundwater Soil Screening Levels		
PID = Photoionization Detector		TPH-GRO = Total Petroleum Hydrocarbons - Gasoline Range Organics		
ppm-v = parts per million by volume		TPH-DRO = Total Petroleum Hydrocarbons - Diesel Range Organics		
mg/L = milligrams per liter		TPH-RRO = Total Petroleum Hydrocarbons - Residual Range Organics		
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 ECMC Table 915-1 Regulatory Limits.				



ATTACHMENT A

Photo Log

HSR-Hoffman #3-24

API # 05-123-18224

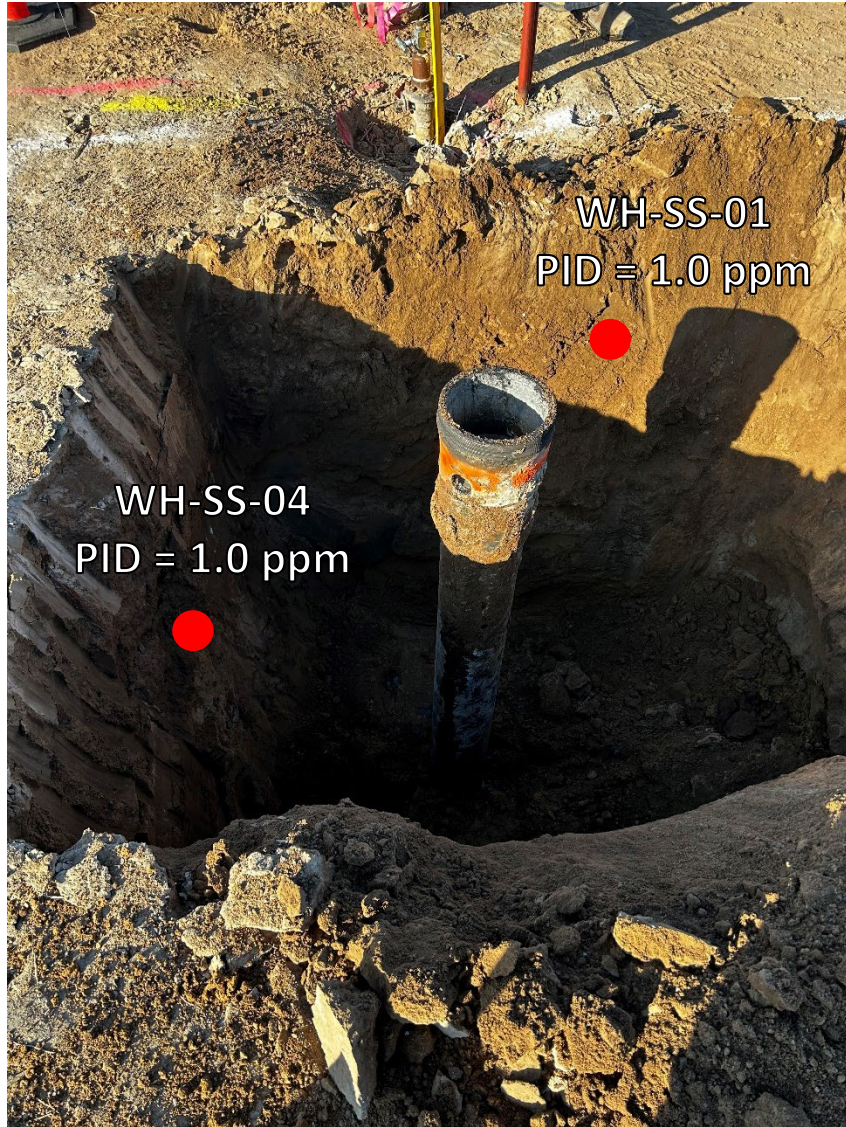
Remediation # 27990

Closure Assessment

November 2023

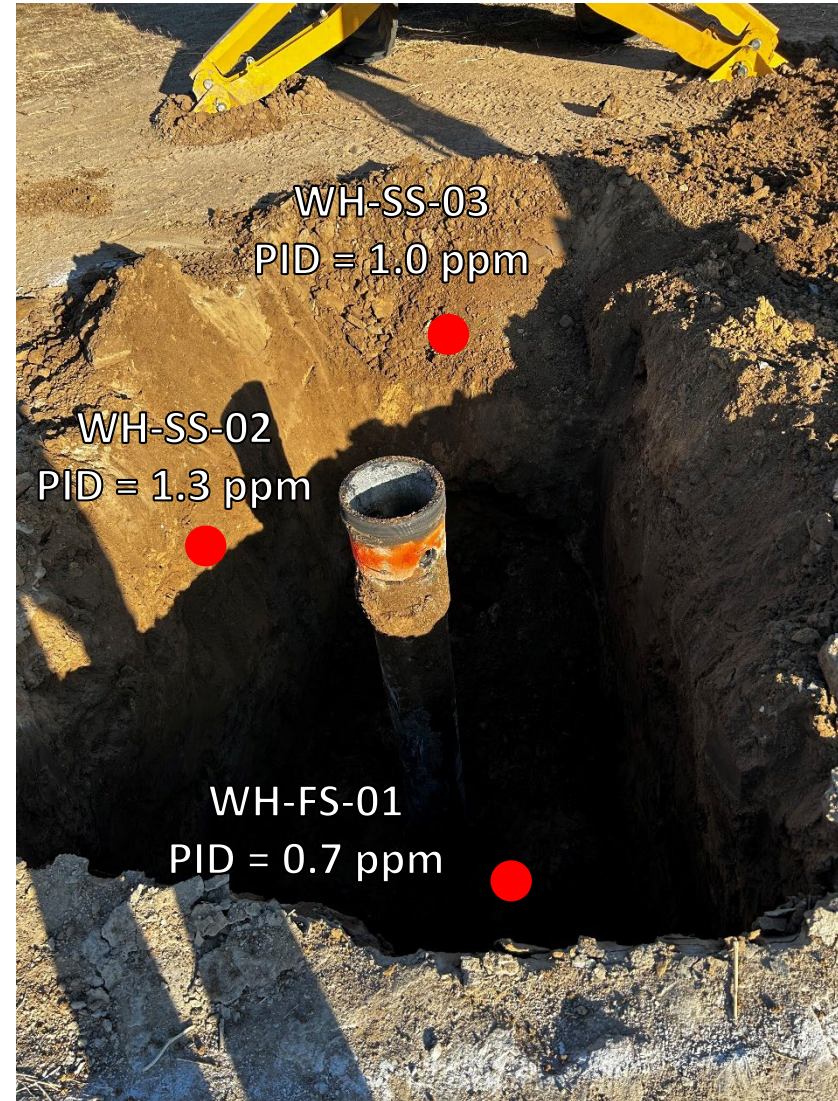


Wellhead Excavation – 11/09/23



Looking north

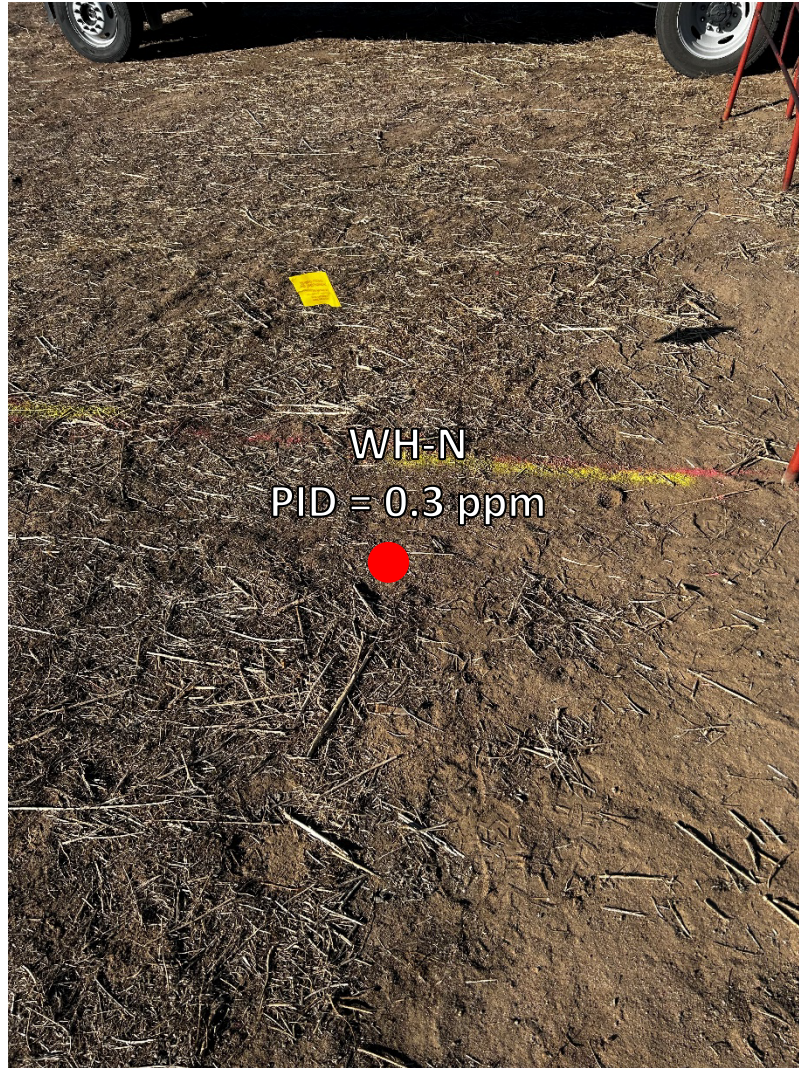
No petroleum hydrocarbon staining or odor observed



Looking south

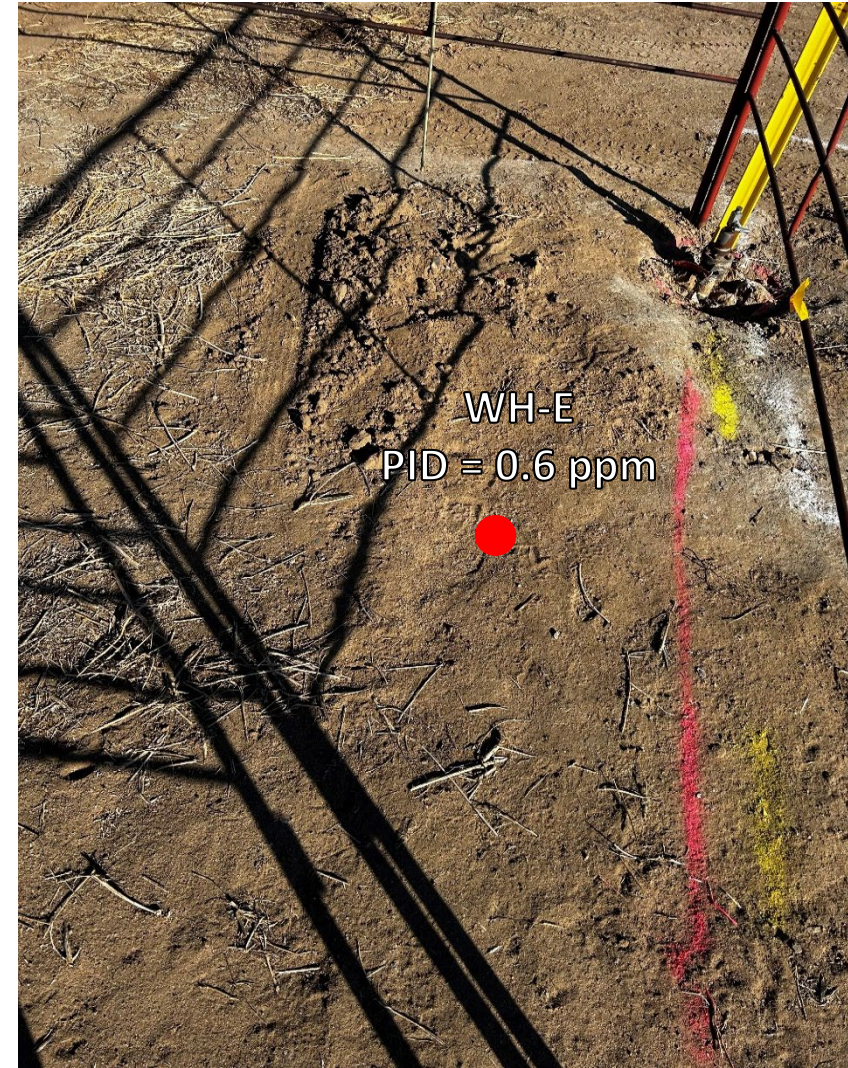
No petroleum hydrocarbon staining or odor observed

Wellhead Surface – 11/09/23



Looking north

Site in good condition – no petroleum hydrocarbon staining or odor
Observed on surface around wellhead



Looking east

Site in good condition – no petroleum hydrocarbon staining or odor
Observed on surface around wellhead

Wellhead Surface – 11/09/23



Looking south

Site in good condition – no petroleum hydrocarbon staining or odor
Observed on surface around wellhead



Looking west

Site in good condition – no petroleum hydrocarbon staining or odor
Observed on surface around wellhead



ATTACHMENT B

Laboratory Analytical Report



November 27, 2023

Eagle Environmental Consulting, LLC

Andrew Newberry

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - Noble - HSR - Hoffman #3-24

Project Number - [none]

Attached are your analytical results for Noble - HSR - Hoffman #3-24 received by Origins Laboratory, Inc. November 09, 2023. This project is associated with Origins project number Y311295-01.

The analytical results in the following report were analyzed under the guidelines of EPA Methods. These methods are identified as follows; "SW" are defined in SW-846, "EPA" are defined in 40CFR part 136 and "SM" are defined in the most current revision of Standard Methods For the Examination of Water and Wastewater.

The analytical results apply specifically to the samples and analyses specified per the attached Chain of Custody. As such, this report shall not be reproduced except in full, without the written approval of Origin's laboratory.

Unless otherwise noted, the analytical results for all soil samples are reported on a wet weight basis. All analytical analyses were performed under NELAP guidelines unless noted by a data qualifier.

Any holding time exceedances, deviations from the method specifications or deviations from Origins Laboratory's Standard Operating Procedures are outlined in the case narrative.

Thank you for selecting Origins for your analytical needs. Please contact us with any questions concerning this report, or if we can help with anything at all.

Origins Laboratory, Inc.
303.433.1322
o-squad@oelabinc.com



1725 Elk Place, Denver, CO 80211 | Phone: 303.433.1322 | Fax: 303.265.9645

Eagle Environmental Consulting, LLC

8000 W 44th Ave

Wheat Ridge CO 80033

Andrew Newberry

Project Number: [none]

Project: Noble - HSR - Hoffman #3-24

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
WH-FS-01@8'	Y311295-01	Soil	November 9, 2023 15:08	11/09/2023 16:30

Origins Laboratory, Inc.



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

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

Andrew Newberry
Project Number: [none]
Project: Noble - HSR - Hoffman #3-24

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: 4311295

Client: Eagle
Client Project ID: Hoffman #3-24

Checklist Completed by: EHS

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

Date/time completed: 11/9/23

Airbill #: N/A

Matrix(s) Received: (Check all that apply): 10 Soil/Solid Water Other:

Cooler Number/Temperature: 113 °C °C °C (Describe)

Thermometer ID: 7004

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

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

Reviewed by (Project Manager) [Signature]

Date/Time Reviewed 11/13/23

Origins Laboratory, Inc.

[Signature]

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

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

Andrew Newberry
Project Number: [none]
Project: Noble - HSR - Hoffman #3-24

WH-FS-01@8'
11/9/2023 3:08:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
---------	--------	-----------------	-------	----------	-------	---------	----------	----------	-------

Origins Laboratory, Inc.
Y311295-01 (Soil)

Boron (DTPA Sorbitol)

Boron	0.366	0.0985	mg/L	1	B3K1308	KAP	11/13/2023	11/14/2023	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3K1302	ZZZ	11/13/2023	11/15/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

Surrogate: o-Terphenyl	79.8 %	50-150			"	"	"	
------------------------	--------	--------	--	--	---	---	---	--

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3K1039	JSM	11/10/2023	11/12/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	JSM	"	"	U
Benzene	ND	0.00200	"	"	"	JSM	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	JSM	"	"	U
Naphthalene	ND	0.00380	"	"	"	JSM	"	"	U
Toluene	ND	0.00200	"	"	"	JSM	"	"	U
Xylenes, total	ND	0.00200	"	"	"	JSM	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	JSM	"	"	U

Surrogate: 1,2-Dichloroethane-d4	102 %	70-130			"	"	"
Surrogate: Toluene-d8	103 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	94.6 %	70-130			"	"	"

Origins Laboratory, Inc.



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

Andrew Newberry
Project Number: [none]
Project: Noble - HSR - Hoffman #3-24

WH-FS-01@8'

11/9/2023 3:08:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
---------	--------	-----------------	-------	----------	-------	---------	----------	----------	-------

Origins Laboratory, Inc.
Y311295-01 (Soil)

Metals by Saturated Paste by EPA 6010

Calcium	1.60	0.499	meq/L	10	[CALC]	KAP	11/11/2023	11/13/2023
Magnesium	ND	0.823	"	"	"	KAP	"	"
Sodium	0.684	0.435	"	"	"	KAP	"	"

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B3K1031	Windo	11/10/2023	11/16/2023	U
2-Methylnaphthalene	ND	0.002	"	"	"	Windo	"	"	U
Acenaphthene	ND	0.020	"	"	"	Windo	"	"	U
Anthracene	ND	0.020	"	"	"	Windo	"	"	U
Benzo (a) anthracene	ND	0.005	"	"	"	Windo	"	"	U
Benzo (a) pyrene	ND	0.020	"	"	"	Windo	"	"	U
Benzo (b) fluoranthene	ND	0.020	"	"	"	Windo	"	"	U
Benzo (k) fluoranthene	ND	0.020	"	"	"	Windo	"	"	U
Chrysene	ND	0.020	"	"	"	Windo	"	"	U
Dibenz (a,h) anthracene	ND	0.020	"	"	"	Windo	"	"	U
Fluoranthene	ND	0.020	"	"	"	Windo	"	"	U
Fluorene	ND	0.020	"	"	"	Windo	"	"	U
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	Windo	"	"	U
Pyrene	ND	0.020	"	"	"	Windo	"	"	U

Origins Laboratory, Inc.



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

Andrew Newberry
Project Number: [none]
Project: Noble - HSR - Hoffman #3-24

WH-FS-01@8'

11/9/2023 3:08:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y311295-01 (Soil)

PAH by EPA 8270E

Surrogate: Fluorene-d10	98.6 %	60-130			B3K1031		11/10/2023	11/16/2023
Surrogate: Anthracene-d10	87.0 %	60-130			"		"	"
Surrogate: Pyrene-d10	96.5 %	60-130			"		"	"
Surrogate: Benzo (a) pyrene-d12	99.1 %	60-130			"		"	"

pH in Soil by 9045D

pH	8.23		pH Units	1	B3K1107	ACN	11/11/2023	11/12/2023
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SAR by 20B Saturated Paste

SAR	0.651	0.0100	SAR	1	B3K1103	KAP	11/11/2023	11/13/2023
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.335	0.00500	mmhos/cm	1	B3K1107	ACN	11/11/2023	11/12/2023
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Eagle Environmental Consulting, LLC
8000 W 44th Ave
Wheat Ridge CO 80033

Andrew Newberry
Project Number: [none]
Project: Noble - HSR - Hoffman #3-24

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 B3K1039 - EPA 5030 (soil)										
Blank (B3K1039-BLK1)					Prepared: 11/10/2023 Analyzed: 11/12/2023					
1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							U
1,3,5-Trimethylbenzene	ND	0.00200	"							U
Benzene	ND	0.00200	"							U
Ethylbenzene	ND	0.00200	"							U
Naphthalene	ND	0.00380	"							U
Toluene	ND	0.00200	"							U
Xylenes, total	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		101	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		105	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		94.7	70-130			

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Andrew Newberry
Project Number: [none]
Project: Noble - HSR - Hoffman #3-24

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 B3K1039 - EPA 5030 (soil)										
LCS (B3K1039-BS1)					Prepared: 11/10/2023 Analyzed: 11/12/2023					
1,2,4-Trimethylbenzene	0.0983	0.00200	mg/kg	0.100		98.3	70-130			
1,3,5-Trimethylbenzene	0.0988	0.00200	"	0.100		98.8	70-130			
Benzene	0.0976	0.00200	"	0.100		97.6	70-130			
Ethylbenzene	0.102	0.00200	"	0.100		102	70-130			
Naphthalene	0.0926	0.00380	"	0.100		92.6	70-130			
Toluene	0.0944	0.00200	"	0.100		94.4	70-130			
o-Xylene	0.109	0.00200	"	0.100		109	70-130			
m,p-Xylene	0.202	0.00400	"	0.200		101	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		97.9	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		100	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		104	70-130			

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Andrew Newberry
Project Number: [none]
Project: Noble - HSR - Hoffman #3-24

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 B3K1039 - EPA 5030 (soil)										
Matrix Spike (B3K1039-MS1)		Source: Y311284-01			Prepared: 11/10/2023 Analyzed: 11/12/2023					
1,2,4-Trimethylbenzene	0.0975	0.00200	mg/kg	0.100	ND	97.5	70-130			
1,3,5-Trimethylbenzene	0.0969	0.00200	"	0.100	ND	96.9	70-130			
Benzene	0.0987	0.00200	"	0.100	ND	98.7	70-130			
Ethylbenzene	0.0996	0.00200	"	0.100	ND	99.6	70-130			
Naphthalene	0.0997	0.00380	"	0.100	0.00138	98.3	70-130			
Toluene	0.0938	0.00200	"	0.100	ND	93.8	70-130			
o-Xylene	0.108	0.00200	"	0.100	ND	108	70-130			
m,p-Xylene	0.198	0.00400	"	0.200	ND	99.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		102	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.4	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		105	70-130			

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Andrew Newberry
Project Number: [none]
Project: Noble - HSR - Hoffman #3-24

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 B3K1039 - EPA 5030 (soil)										
Matrix Spike Dup (B3K1039-MSD1)		Source: Y311284-01			Prepared: 11/10/2023 Analyzed: 11/12/2023					
1,2,4-Trimethylbenzene	0.110	0.00200	mg/kg	0.100	ND	110	70-130	11.9	20	
1,3,5-Trimethylbenzene	0.109	0.00200	"	0.100	ND	109	70-130	11.4	20	
Benzene	0.110	0.00200	"	0.100	ND	110	70-130	10.9	20	
Ethylbenzene	0.113	0.00200	"	0.100	ND	113	70-130	12.8	20	
Naphthalene	0.108	0.00380	"	0.100	0.00138	107	70-130	8.38	20	
Toluene	0.105	0.00200	"	0.100	ND	105	70-130	11.3	20	
o-Xylene	0.121	0.00200	"	0.100	ND	121	70-130	11.8	20	
m,p-Xylene	0.225	0.00400	"	0.200	ND	113	70-130	12.6	20	
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		99.5	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.8	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		107	70-130			

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Andrew Newberry
Project Number: [none]
Project: Noble - HSR - Hoffman #3-24

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 B3K1302 - EPA 3550B										
Blank (B3K1302-BLK1)					Prepared: 11/13/2023 Analyzed: 11/14/2023					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	24		"	24.9		96.5	50-150			

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Andrew Newberry
Project Number: [none]
Project: Noble - HSR - Hoffman #3-24

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 B3K1302 - EPA 3550B										
LCS (B3K1302-BS1)					Prepared: 11/13/2023 Analyzed: 11/14/2023					
Diesel (C10-C28)	1090	50.0	mg/kg	1000		109	70-130			
Residual Range Organics (C28-C40)	1070	200	"	1000		107	70-130			
Surrogate: o-Terphenyl	54		"	49.8		109	50-150			

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Andrew Newberry
Project Number: [none]
Project: Noble - HSR - Hoffman #3-24

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 B3K1302 - EPA 3550B

Matrix Spike (B3K1302-MS1)		Source: Y311288-01			Prepared: 11/13/2023 Analyzed: 11/14/2023					
Diesel (C10-C28)	1100	50.0	mg/kg	1000	ND	110	70-130			
Residual Range Organics (C28-C40)	1090	200	"	1000	ND	109	70-130			
Surrogate: o-Terphenyl	52		"	49.8		106	50-150			

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Jordan A. Bynon, Project Manager

Eagle Environmental Consulting, LLC
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Andrew Newberry
Project Number: [none]
Project: Noble - HSR - Hoffman #3-24

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 B3K1302 - EPA 3550B										
Matrix Spike Dup (B3K1302-MSD1)	Source: Y311288-01				Prepared: 11/13/2023 Analyzed: 11/14/2023					
Diesel (C10-C28)	912	50.0	mg/kg	1000	ND	91.2	70-130	18.3	35	
Residual Range Organics (C28-C40)	916	200	"	1000	ND	91.6	70-130	17.6	35	
Surrogate: o-Terphenyl	47		"	49.8		93.9	50-150			

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Andrew Newberry
Project Number: [none]
Project: Noble - HSR - Hoffman #3-24

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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EPA 8270E (SW846) - Semivolatile Organic Compounds - 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 B3K1031 - EPA 3580

Blank (B3K1031-BLK1)

Prepared: 11/10/2023 Analyzed: 11/16/2023

1-Methylnaphthalene	ND	0.002	mg/kg							U
2-Methylnaphthalene	ND	0.002	"							U
Acenaphthene	ND	0.020	"							U
Anthracene	ND	0.020	"							U
Benzo (a) anthracene	ND	0.005	"							U
Benzo (a) pyrene	ND	0.020	"							U
Benzo (b) fluoranthene	ND	0.020	"							U
Benzo (g,h,i) perylene	ND	0.020	"							U
Benzo (k) fluoranthene	ND	0.020	"							U
Chrysene	ND	0.020	"							U
Dibenz (a,h) anthracene	ND	0.020	"							U
Fluoranthene	ND	0.020	"							U
Fluorene	ND	0.020	"							U
Indeno (1,2,3-cd) pyrene	ND	0.020	"							U
Naphthalene	ND	0.002	"							U
Phenanthrene	ND	0.020	"							U
Pyrene	ND	0.020	"							U
Surrogate: Fluorene-d10	200		ug/kg	200		99.8	60-130			
Surrogate: Anthracene-d10	190		"	200		96.2	60-130			
Surrogate: Pyrene-d10	190		"	200		95.0	60-130			
Surrogate: Benzo (a) pyrene-d12	190		"	200		96.4	60-130			

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Wheat Ridge CO 80033

Andrew Newberry
Project Number: [none]
Project: Noble - HSR - Hoffman #3-24

EPA 8270E (SW846) - Semivolatile Organic Compounds - 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 B3K1031 - EPA 3580

LCS (B3K1031-BS1)

Prepared: 11/10/2023 Analyzed: 11/16/2023

1-Methylnaphthalene	0.211	0.002	mg/kg	0.200		105	70-130
2-Methylnaphthalene	0.211	0.002	"	0.200		105	70-130
Acenaphthene	0.208	0.020	"	0.200		104	70-130
Anthracene	0.191	0.020	"	0.200		95.3	70-130
Benzo (a) anthracene	0.177	0.005	"	0.200		88.6	70-130
Benzo (a) pyrene	0.206	0.020	"	0.200		103	70-130
Benzo (b) fluoranthene	0.188	0.020	"	0.200		94.2	70-130
Benzo (g,h,i) perylene	0.219	0.020	"	0.200		110	70-130
Benzo (k) fluoranthene	0.240	0.020	"	0.200		120	70-130
Chrysene	0.192	0.020	"	0.200		95.8	70-130
Dibenz (a,h) anthracene	0.208	0.020	"	0.200		104	70-130
Fluoranthene	0.236	0.020	"	0.200		118	70-130
Fluorene	0.210	0.020	"	0.200		105	70-130
Indeno (1,2,3-cd) pyrene	0.216	0.020	"	0.200		108	70-130
Naphthalene	0.213	0.002	"	0.200		106	70-130
Phenanthrene	0.204	0.020	"	0.200		102	70-130
Pyrene	0.192	0.020	"	0.200		96.2	70-130

Surrogate: Fluorene-d10	200		ug/kg	200		98.6	60-130
Surrogate: Anthracene-d10	210		"	200		104	60-130
Surrogate: Pyrene-d10	190		"	200		94.9	60-130
Surrogate: Benzo (a) pyrene-d12	200		"	200		100	60-130

Matrix Spike (B3K1031-MS1)

Source: Y310740-02

Prepared: 11/10/2023 Analyzed: 11/16/2023

1-Methylnaphthalene	0.341	0.002	mg/kg	0.200	0.146	97.4	70-130
2-Methylnaphthalene	0.312	0.002	"	0.200	0.118	97.0	70-130
Acenaphthene	0.218	0.020	"	0.200	0.012	103	70-130
Anthracene	0.191	0.020	"	0.200	0.013	89.4	70-130

Origins Laboratory, Inc.



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Wheat Ridge CO 80033

Andrew Newberry
Project Number: [none]
Project: Noble - HSR - Hoffman #3-24

EPA 8270E (SW846) - Semivolatile Organic Compounds - 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 B3K1031 - EPA 3580

Matrix Spike (B3K1031-MS1)		Source: Y310740-02			Prepared: 11/10/2023 Analyzed: 11/16/2023					
Benzo (a) anthracene	0.221	0.005	mg/kg	0.200	0.005	108	70-130			
Benzo (a) pyrene	0.183	0.020	"	0.200	0.005	89.3	70-130			
Benzo (b) fluoranthene	0.196	0.020	"	0.200	0.005	95.5	70-130			
Benzo (g,h,i) perylene	0.195	0.020	"	0.200	0.008	93.6	70-130			
Benzo (k) fluoranthene	0.193	0.020	"	0.200	0.002	95.8	70-130			
Chrysene	0.218	0.020	"	0.200	0.011	103	70-130			
Dibenz (a,h) anthracene	0.183	0.020	"	0.200	0.001	91.1	70-130			
Fluoranthene	0.282	0.020	"	0.200	0.041	121	70-130			
Fluorene	0.215	0.020	"	0.200	0.008	104	70-130			
Indeno (1,2,3-cd) pyrene	0.183	0.020	"	0.200	0.003	89.9	70-130			
Naphthalene	0.214	0.002	"	0.200	0.006	104	70-130			
Phenanthrene	0.235	0.020	"	0.200	0.068	83.3	70-130			
Pyrene	0.186	0.020	"	0.200	0.055	65.3	70-130			QM-07
Surrogate: Fluorene-d10	200		ug/kg	200		102	60-130			
Surrogate: Anthracene-d10	200		"	200		100	60-130			
Surrogate: Pyrene-d10	160		"	200		80.3	60-130			
Surrogate: Benzo (a) pyrene-d12	190		"	200		94.3	60-130			

Matrix Spike Dup (B3K1031-MSD1)		Source: Y310740-02			Prepared: 11/10/2023 Analyzed: 11/16/2023					
1-Methylnaphthalene	0.370	0.002	mg/kg	0.200	0.146	112	70-130	8.11	20	
2-Methylnaphthalene	0.338	0.002	"	0.200	0.118	110	70-130	8.05	20	
Acenaphthene	0.223	0.020	"	0.200	0.012	106	70-130	1.85	20	
Anthracene	0.196	0.020	"	0.200	0.013	91.9	70-130	2.57	20	
Benzo (a) anthracene	0.217	0.005	"	0.200	0.005	106	70-130	1.74	20	
Benzo (a) pyrene	0.186	0.020	"	0.200	0.005	90.9	70-130	1.78	20	
Benzo (b) fluoranthene	0.200	0.020	"	0.200	0.005	97.3	70-130	1.73	20	
Benzo (g,h,i) perylene	0.191	0.020	"	0.200	0.008	91.7	70-130	1.93	20	

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Wheat Ridge CO 80033

Andrew Newberry
Project Number: [none]
Project: Noble - HSR - Hoffman #3-24

EPA 8270E (SW846) - Semivolatile Organic Compounds - 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 B3K1031 - EPA 3580

Matrix Spike Dup (B3K1031-MSD1)		Source: Y310740-02			Prepared: 11/10/2023 Analyzed: 11/16/2023					
Benzo (k) fluoranthene	0.205	0.020	mg/kg	0.200	0.002	102	70-130	6.00	20	
Chrysene	0.218	0.020	"	0.200	0.011	103	70-130	0.135	20	
Dibenz (a,h) anthracene	0.185	0.020	"	0.200	0.001	91.7	70-130	0.645	20	
Fluoranthene	0.288	0.020	"	0.200	0.041	123	70-130	1.84	20	
Fluorene	0.212	0.020	"	0.200	0.008	102	70-130	1.55	20	
Indeno (1,2,3-cd) pyrene	0.182	0.020	"	0.200	0.003	89.1	70-130	0.793	20	
Naphthalene	0.215	0.002	"	0.200	0.006	105	70-130	0.698	20	
Phenanthrene	0.257	0.020	"	0.200	0.068	94.6	70-130	9.20	20	
Pyrene	0.200	0.020	"	0.200	0.055	72.7	70-130	7.63	20	
Surrogate: Fluorene-d10	200		ug/kg	200		101	60-130			
Surrogate: Anthracene-d10	210		"	200		103	60-130			
Surrogate: Pyrene-d10	170		"	200		83.4	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		97.5	60-130			

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8000 W 44th Ave
Wheat Ridge CO 80033

Andrew Newberry
Project Number: [none]
Project: Noble - HSR - Hoffman #3-24

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 B3K1103 - Saturated Paste Metals

Blank (B3K1103-BLK1)

Prepared: 11/11/2023 Analyzed: 11/13/2023

Calcium PPM	ND	10.0	mg/L
SAR	ND	0.0100	SAR
Magnesium PPM	ND	10.0	mg/L
Sodium PPM	ND	10.0	"

Duplicate (B3K1103-DUP1)

Source: Y311283-01

Prepared: 11/11/2023 Analyzed: 11/13/2023

Calcium PPM	408	10.0	mg/L	406	0.344	50
SAR	ND	0.0100	SAR	6.42		200
Magnesium PPM	192	10.0	mg/L	185	3.82	50
Sodium PPM	660	10.0	"	621	6.02	50

Batch B3K1308 - DTPA Sorbitol Preparation

Blank (B3K1308-BLK1)

Prepared: 11/13/2023 Analyzed: 11/14/2023

Boron	ND	0.100	mg/L
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Duplicate (B3K1308-DUP1)

Source: Y311282-01

Prepared: 11/13/2023 Analyzed: 11/14/2023

Boron	0.491	0.0992	mg/L	0.478	2.63	50
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Eagle Environmental Consulting, LLC
8000 W 44th Ave
Wheat Ridge CO 80033

Andrew Newberry
Project Number: [none]
Project: Noble - HSR - Hoffman #3-24

Saturated Paste - Quality Control Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B3K1107 - Saturated Paste pH/EC										
Blank (B3K1107-BLK1)					Prepared: 11/11/2023 Analyzed: 11/12/2023					
Specific Conductance (EC)	ND	0.00500	mmhos/cm							
Duplicate (B3K1107-DUP1)					Source: Y311283-01 Prepared: 11/11/2023 Analyzed: 11/12/2023					
pH	8.11		pH Units		8.10			0.123	25	
Specific Conductance (EC)	4.79	0.00500	mmhos/cm		4.37			9.25	25	

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Notes and Definitions

U Sample is Non-Detect.

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

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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