

# 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>
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Site Name & COGCC Facility Number: <b>Millage C #11-22</b>	Date: 12/5/23	Remediation Project #: 25958
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Associated Wells: 05-123-25517	Age of Site: years	Number of Photos Attached: 6
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Location: (GPS coordinates of wellhead or southeastern most wellhead for multiple) 40.327412 / -104.512991	Estimated Facility Size (acres): <u>      </u>
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General Condition of Site: (General observations regarding housekeeping, corrosion, waste management, etc.)

Good condition

USCS Soil Type: <b>Sandy Clay</b>	Estimated Depth to Groundwater: >20'
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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	05-123-25517					
Age	years					
Condition of surface around wellhead	Good - No odor/no staining					
PID Readings	WH-N: 0.6	WH-E: 0.3	WH-S: 0.3	WH-W: 0.2		
Condition of subsurface (staining present)	Good - No odor/no staining					
PID Readings	0.2	0.3	0.3	0.2	0.5	0.4
Sample taken? Location/Sample ID#	WH-SS-01	WH-SS-02	WH-SS-03	WH-SS-04	WH-FS-01	Background-01
Photo Number(s)	See photo log					

Other observations regarding wellheads:

### 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
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Highest PID Reading: 0.5	Total number of samples submitted to lab for analysis: 1
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If more than 10 cubic yards of impacted soil were observed:

Vertical extent:	Estimated spill volume:
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Lateral extent: <span style="font-size: 2em; font-weight: bold;">N/A</span>	Volume of soil removed:
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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:
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Sheen on groundwater?      Yes      No	Volume of groundwater removed prior to sampling:
--	--

Free product observed?      Yes      No	Volume of groundwater removed post sampling:
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Total number of samples collected:	Total Volume of groundwater removed:
------------------------------------	--------------------------------------

Total number of samples submitted to lab for analysis:	
--	--



## **FIGURES**

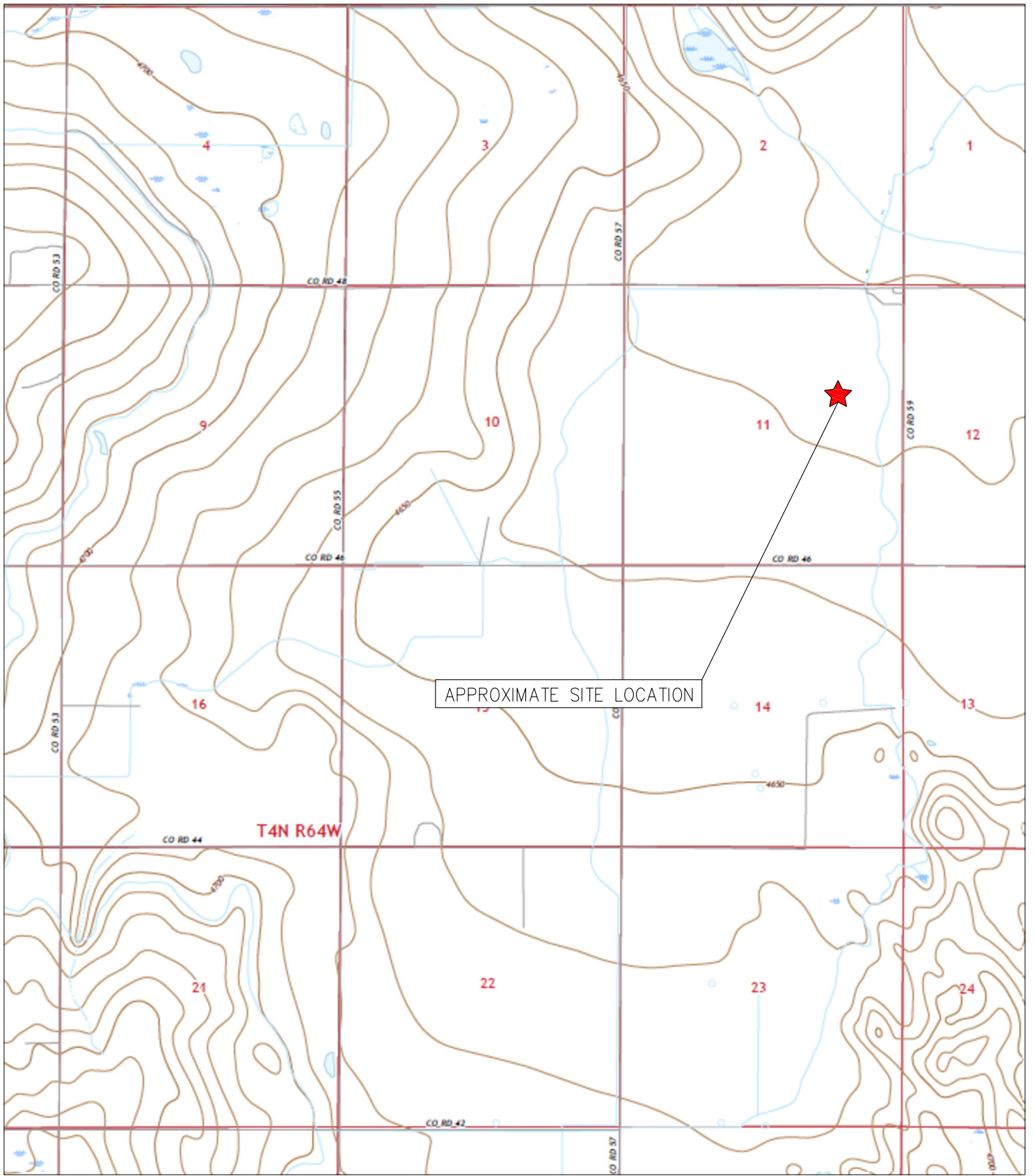
**Figure 1: Topographic Site Location Map**

**Figure 2: Aerial Site Location Map**

**Figure 3: Sample Location Map**

**Figure 4: Soil Analytical Map**

**Figure 5: Metals in Soil Map**



APPROXIMATE SITE LOCATION

TOPOGRAPHIC SITE LOCATION MAP  
 MILLAGE C #11-22  
 CLOSURE ASSESSMENT  
 40.327412 / -104.512991  
 SW¼ NE¼ SEC.11 T4N R64W 6PM  
 WELD COUNTY, COLORADO  
 API # 05-123-25517  
 REMEDIATION # 25958



**EAGLE**  
 ENVIRONMENTAL  
 CONSULTING, LLC

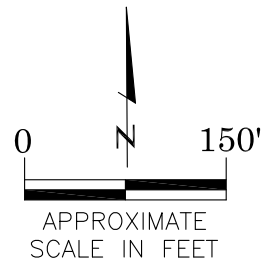
8000 W 44th Ave, Wheat Ridge, CO 80033  
 Ph: 303-433-0479 • F: 303-325-5449





**LEGEND**

- FORMER MILLAGE C #11-22 WELLHEAD (PLUGGED AND ABANDONED)
- ASSOCIATED SEPARATOR
- APPROXIMATE FLOWLINE LOCATION



**AERIAL SITE LOCATION MAP**  
 MILLAGE C #11-22  
 CLOSURE ASSESSMENT  
 40.327412 / -104.512991  
 SW¼ NE¼ SEC.11 T4N R64W 6PM  
 WELD COUNTY, COLORADO  
 API # 05-123-25517  
 REMEDIATION # 25958

FIGURE NO.  
2

DRAWN BY:  
RS



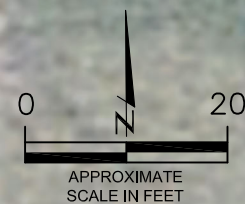
EAGLE

ENVIRONMENTAL  
CONSULTING, LLC

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

**LEGEND**

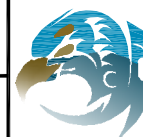
- WELLHEAD ASSESSMENT BOUNDARIES
- APPROXIMATE LOCATION OF SOIL SAMPLES FIELD SCREENED, ONLY, WITH PHOTOIONIZATION DETECTOR
- APPROXIMATE LOCATION OF SOIL SAMPLES SUBMITTED FOR LABORATORY ANALYSIS



SAMPLE LOCATION MAP  
MILLAGE C #11-22  
CLOSURE ASSESSMENT  
40.327412 / -104.512991  
SW¼ NE¼ SEC.11 T4N R64W 6PM  
WELD COUNTY, COLORADO  
API # 05-123-25517  
REMEDIAION # 25958

FIGURE NO.  
3

DRAWN BY:  
RS



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

**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)  
 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 IN **BOLD** EXCEED ECMC TABLE 915-1 REGULATORY LIMITS.

ECMC = ENERGY & CARBON MANAGEMENT COMMISSION

SOIL ANALYTICAL MAP  
 MILLAGE C #11-22  
 CLOSURE ASSESSMENT  
 40.327412 / -104.512991  
 SW¼ NE¼ SEC.11 T4N R64W 6PM  
 WELD COUNTY, COLORADO  
 API # 05-123-25517  
 REMEDIATION # 25958

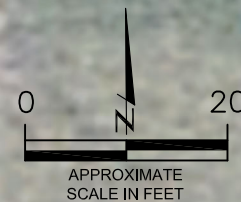
FIGURE NO.  
4

DRAWN BY:  
RS



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

WH-FS-01@7'  
 12/05/23  
 7'  
 (BRL)



**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 SAMPLE COLLECTED	APPROXIMATE DEPTH
Arsenic = (mg/kg)		
Barium = (mg/kg)		
Cadmium = (mg/kg)		
Chromium (VI) = (mg/kg)		
Copper = (mg/kg)		
Lead = (mg/kg)		
Nickel = (mg/kg)		
Selenium = (mg/kg)		
Silver = (mg/kg)		
Zinc = (mg/kg)		

mg/kg = MILLIGRAMS PER KILOGRAM

NA - NOT ANALYZED

**NOTES:**

VALUES PRESENTED WITH A LESS THAN SYMBOL (<) DID NOT CONTAIN CONCENTRATIONS AT/OR ABOVE LABORATORY REPORTING LIMITS AND/OR MINIMUM DETECTION LIMITS.

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

\*VALUES EXCEED ECMC TABLE 915-1 PROTECTION OF GROUNDWATER SOIL SCREENING LEVELS, ONLY.

\*\*ACHIEVABLE PRACTICAL QUANTITATIVE LIMITS FOR HEXAVALENT CHROMIUM (Cr VI) IN SOILS IS IN THE RANGE OF 0.1 TO 1 mg/kg.

ELEVATED METALS ARE NATURALLY OCCURRING IN COLORADO. LOCAL CLEAN-UP LEVELS ARE 1.25\*BACKGROUND WHERE APPLICABLE.

ECMC = ENERGY & CARBON MANAGEMENT COMMISSION

**METALS IN SOIL MAP**  
 MILLAGE C #11-22  
 CLOSURE ASSESSMENT  
 40.327412 / -104.512991  
 SW¼ NE¼ SEC.11 T4N R64W 6PM  
 WELD COUNTY, COLORADO  
 API # 05-123-25517  
 REMEDIATION # 25958

FIGURE NO.  
5

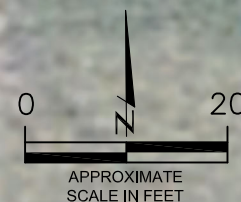
DRAWN BY:  
RS



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

WH-FS-01@7'  
 12/05/23  
 7'  
 Arsenic = 2.46  
 Barium = 132\*  
 Cadmium = 0.196  
 Chromium (VI) = <0.244\*\*  
 Copper = 10.6  
 Lead = 16.4\*  
 Nickel = 9.03  
 Selenium = 0.71\*  
 Silver = 0.0338  
 Zinc = 40.9

BACKGROUND-01@2'  
 12/05/23  
 2'  
 Arsenic = 4.99  
 Barium = 307\*  
 Cadmium = NA  
 Chromium (VI) = NA  
 Copper = NA  
 Lead = 30.9\*  
 Nickel = NA  
 Selenium = 0.655\*  
 Silver = NA  
 Zinc = NA





## **TABLES**

**Table 1: Photoionization Detector Reading Summary**

**Table 2: Soil Analytical Results Summary**

**TABLE 1**  
**PHOTOIONIZATION DETECTOR READING SUMMARY**  
**MILLAGE C #11-22**  
**CLOSURE ASSESSMENT**  
**40.327412 / -104.512991**  
**SW¼ NE¼ SEC.11 T4N R64W 6PM**  
**WELD COUNTY, COLORADO**  
**API # 05-123-25517**  
**REMEDIAION # 25958**

Sample Location (Latitude/Longitude)	Date	Approximate Depth (feet)	PID Reading (ppm-v)	Lab Submission (Y/N)
WH-FS-01 @ 7' (40.327423 / -104.513000)	12/05/23	7	0.5	Y
WH-SS-01 @ 6' (40.327434 / -104.513000)	12/05/23	6	0.2	N
WH-SS-02 @ 6' (40.327422 / -104.512989)	12/05/23	6	0.3	N
WH-SS-03 @ 6' (40.327412 / -104.512999)	12/05/23	6	0.3	N
WH-SS-04 @ 6' (40.327422 / -104.513012)	12/05/23	6	0.2	N
WH-N @ 0.5' (40.327451 / -104.513002)	12/05/23	0.5	0.6	N
WH-E @ 0.5' (40.327422 / -104.512956)	12/05/23	0.5	0.3	N
WH-S @ 0.5' (40.327393 / -104.513002)	12/05/23	0.5	0.3	N
WH-W @ 0.5' (40.327424 / -104.513046)	12/05/23	0.5	0.2	N
Background-01 @ 2' (40.327404 / -104.513031)	12/05/23	2	0.4	Y
(Y/N) = Yes or No ppm-v = parts per million by volume PID = Photoionization Detector				



TABLE 2  
SOIL ANALYTICAL RESULTS SUMMARY  
MILLAGE C #11-22  
CLOSURE ASSESSMENT  
40.327412 / -104.512991  
SW¼ NE¼ SEC.11 T4N R64W 6PM  
WELD COUNTY, COLORADO  
API # 05-123-25517  
REMEDATION # 25958

Sample Location		WH-FS-01 @ 7'	Background-01 @ 2'			
(Latitude / Longitude)		(40.327423 / -104.513000)	(40.327404 / -104.513031)			
Sample Date		12/5/2023	12/5/2023			
Sample Depth		7'	2'			
PID Reading (ppm-v)		0.5	0.4			
Regulatory Limits						
Chemical of Concern	Units	ECMC Table 915-1 RSSLs	ECMC Table 915-1 GSSLs	Local Clean-Up Level		
<b>VOCs</b>						
Benzene	mg/kg	1.2	0.0026	--	<0.00200	NA
Toluene	mg/kg	490	0.69	--	<0.00200	NA
Ethylbenzene	mg/kg	5.8	0.78	--	<0.00200	NA
Total Xylenes	mg/kg	58	9.9	--	<0.00200	NA
Naphthalene	mg/kg	2	0.0038	--	<0.00380	NA
1,2,4-Trimethylbenzene	mg/kg	30	0.0081	--	<0.00200	NA
1,3,5-Trimethylbenzene	mg/kg	27	0.0087	--	<0.00200	NA
<b>TOTAL PETROLEUM HYDROCARBONS</b>						
TPH-GRO	mg/kg	500	--	--	<0.200	NA
TPH-DRO	mg/kg	500	--	--	<25.0	NA
TPH-RRO	mg/kg	500	--	--	<100	NA
<b>POLYCYCLIC AROMATIC HYDROCARBONS</b>						
1-Methyl-naphthalene	mg/kg	18	0.006	--	<0.002	NA
2-Methyl-naphthalene	mg/kg	24	0.019	--	<0.002	NA
Acenaphthene	mg/kg	360	0.55	--	<0.020	NA
Anthracene	mg/kg	1800	5.8	--	<0.020	NA
Benzo(a)-anthracene	mg/kg	1.1	0.011	--	<0.005	NA
Benzo(a)-pyrene	mg/kg	0.11	0.24	--	<0.002	NA
Benzo(b)-fluoranthene	mg/kg	1.1	0.3	--	<0.002	NA
Benzo(k)-fluoranthene	mg/kg	11	2.9	--	<0.002	NA
Chrysene	mg/kg	110	9	--	<0.002	NA
Dibenzo(a,h)-anthracene	mg/kg	0.11	0.096	--	<0.002	NA
Fluoranthene	mg/kg	240	8.9	--	<0.002	NA
Fluorene	mg/kg	240	0.54	--	<0.002	NA
Indeno(1,2,3-cd)-pyrene	mg/kg	1.1	0.98	--	<0.002	NA
Pyrene	mg/kg	180	1.3	--	<0.020	NA
<b>SOIL SUITABILITY (Inorganics)</b>						
Boron	mg/L	2	--	--	0.754	NA
pH	standard unit	6-8.3	--	--	8.13	NA
Sodium Adsorption Ratio (SAR)	--	<6	--	--	4.29	NA
Specific Conductance (EC)	mmhos/cm	<4	--	--	2.23	NA
<b>METALS</b>						
Arsenic	mg/kg	0.68	0.29	6.24	2.46	4.99
Barium	mg/kg	15000	82	383.75	132*	307*
Cadmium	mg/kg	71	0.38	--	0.196	NA
Copper	mg/kg	3100	46	--	10.6	NA
Lead	mg/kg	400	14	38.63	16.4*	30.9*
Nickel	mg/kg	1500	26	--	9.03	NA
Selenium	mg/kg	390	0.26	0.82	0.71*	0.655*
Silver	mg/kg	390	0.8	--	0.0338	NA
Zinc	mg/kg	23000	370	--	40.9	NA
Hexavalent Chromium	mg/kg	0.3**	0.00067**	0.1 to 1.0**	<0.244	NA

ECMC = Energy & Carbon Management Commission      NA - Not Analyzed      VOCs - Volatile Organic Compounds  
mg/kg = milligrams per kilogram  
mmhos/cm = millimhos per centimeter      RSSLs = Residential Soil Screening Levels  
PID = Photoionization Detector      GSSLs = Protection of Groundwater Soil Screening Levels  
ppm-v = parts per million by volume      TPH-GRO = Total Petroleum Hydrocarbons - Gasoline Range Organics  
mg/L = milligrams per liter      TPH-DRO = Total Petroleum Hydrocarbons - Diesel Range Organics  
SAR = Sodium Adsorption Ratio      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. Values presented with asterisk (\*) exceed ECMC Table 915-1 GSSLs, only.

\*\*Achievable practical quantitative limits for Hexavalent Chromium in soils is in the range of 0.1 to 1 mg/kg.

Elevated metals are naturally occurring in Colorado. The Local Clean-up Level is 1.25\*Background where applicable.





## **ATTACHMENT A**

### **Photo Log**

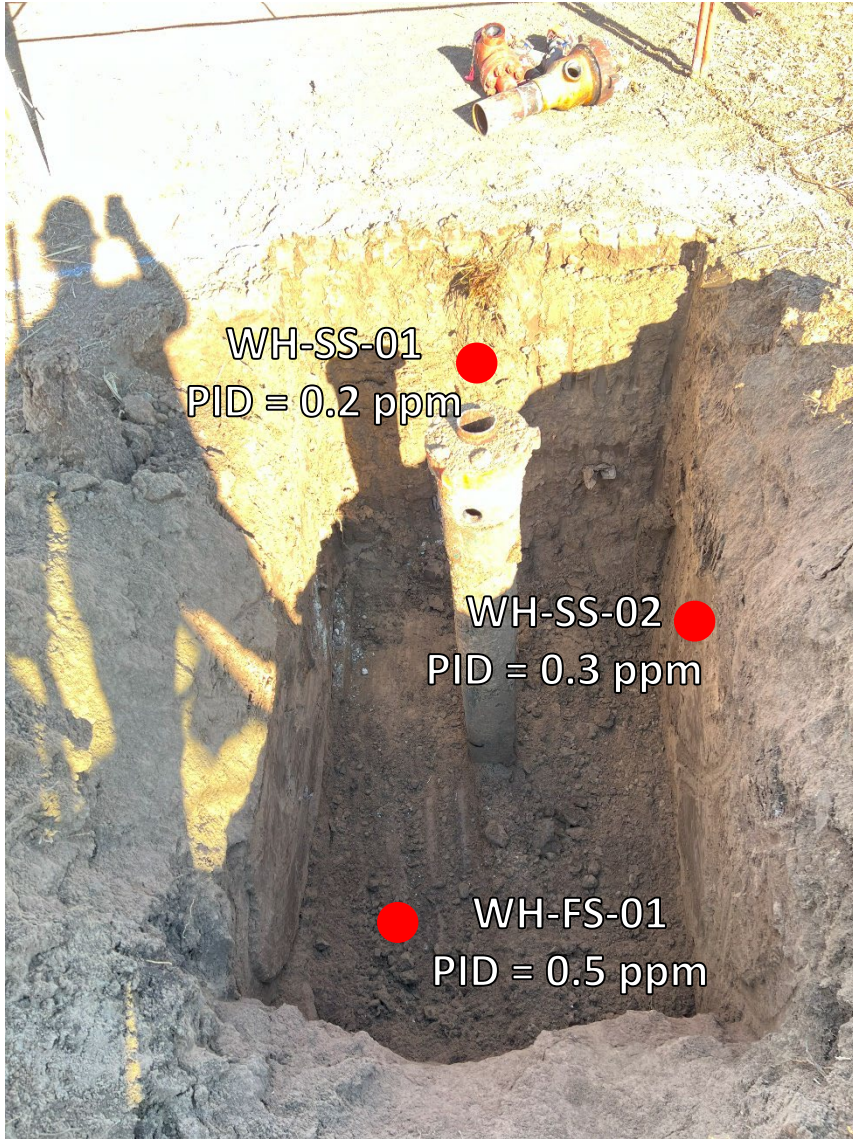
Millage C #11-22  
API # 05-123-25517  
Remediation # 25958

Closure Assessment

December 2023



# Wellhead Excavation – 12/05/23



Looking north

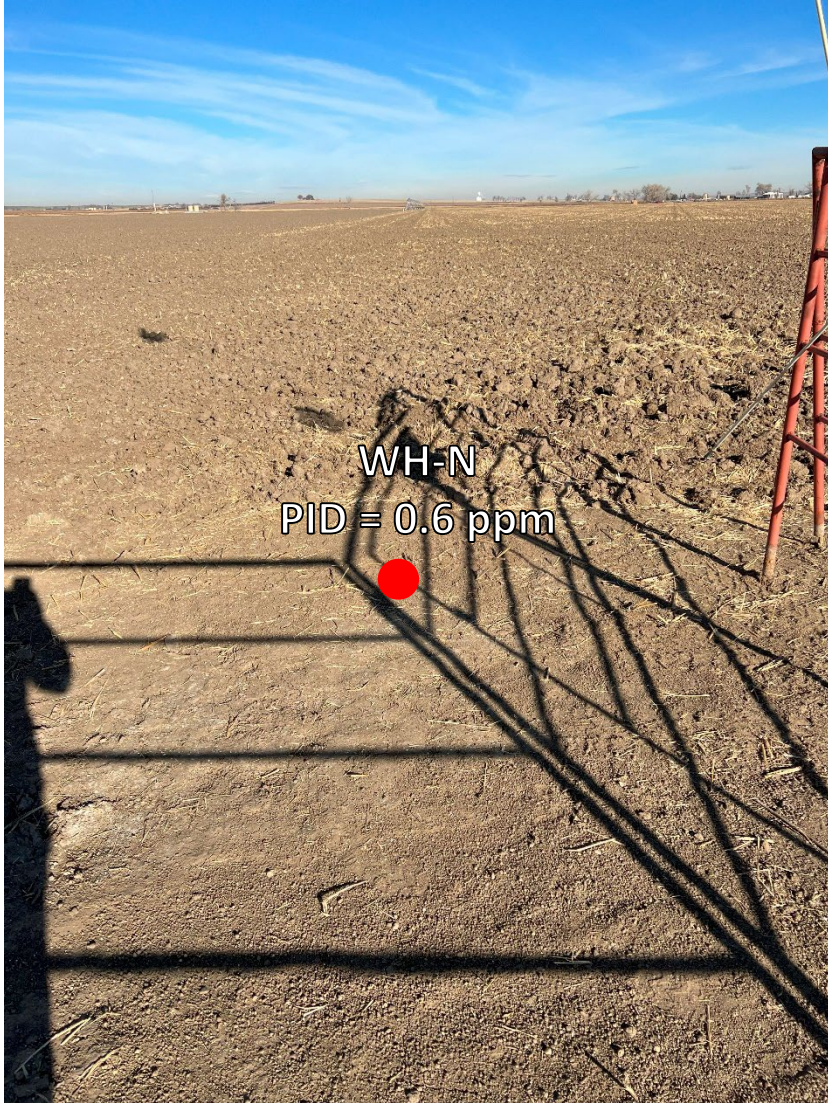
No petroleum hydrocarbon staining or odor observed



Looking south

No petroleum hydrocarbon staining or odor observed

# Wellhead Surface – 12/05/23



Looking north

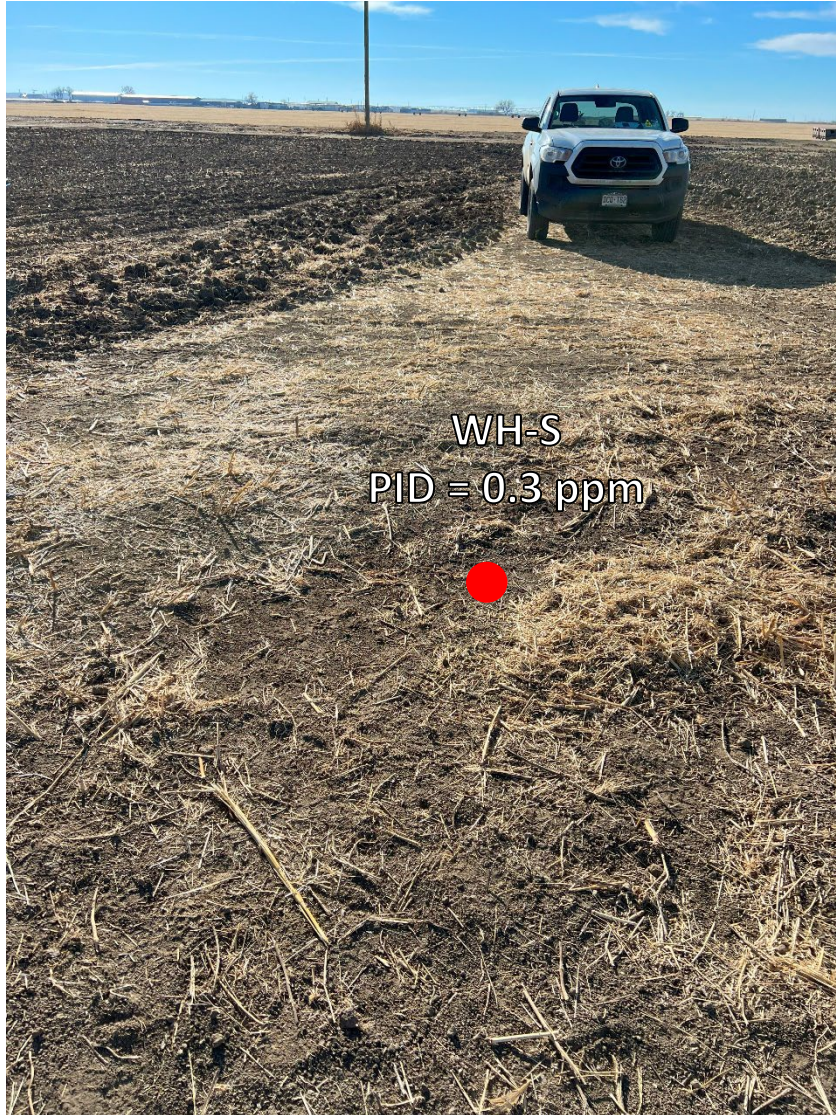
Site in good condition – no petroleum hydrocarbon staining or odor  
Observed on surface around wellhead



Looking east

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

# Wellhead Surface – 12/05/23



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**

December 28, 2023

Eagle Environmental Consulting, LLC

Andrew Newberry

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - Noble - Millage C #11-22

Project Number - [none]

Attached are your analytical results for Noble - Millage C #11-22 received by Origins Laboratory, Inc. December 05, 2023. This project is associated with Origins project number Y312119-01.

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, LLC  
8000 W 44th Ave  
Wheat Ridge CO 80033

Andrew Newberry  
Project Number: [none]  
Project: Noble - Millage C #11-22

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
WH-FS-01@7'	Y312119-01	Soil	December 5, 2023 10:26	12/05/2023 14:25

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 - Millage C #11-22

Origins Laboratory

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

**Sample Receipt Checklist**

Origins Work Order: U312119 Client: Eagle  
 Client Project ID: Millage C 11-22  
 Checklist Completed by: ETS Shipped Via: HD  
 Date/time completed: 12/5/23 (UPS, FedEx, Hand Delivered, Pick-up, etc.)  
 Airbill #: N/A  
 Matrix(s) Received: (Check all that apply):  Soil/Solid  Water  Other: \_\_\_\_\_  
 Cooler Number/Temperature: 117 °C \_\_\_\_\_ °C \_\_\_\_\_ °C (Describe) \_\_\_\_\_ °C  
 Thermometer ID: 7004

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C <sup>(1)</sup> ?		<input checked="" type="checkbox"/>		SD
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 <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Was adequate sample volume provided <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Are short holding time analytes or samples with HTs due within 48 hours present <sup>(1)</sup> ?		<input checked="" type="checkbox"/>		
Is a chain-of-custody (COC) present and filled out completely <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Does the COC agree with the number and type of sample bottles received <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Do the sample IDs on the bottle labels match the COC <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client with date and time recorded <sup>(1)</sup> ?	<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 <sup>(1)</sup> ? (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 <sub>3</sub> , HCL, H <sub>2</sub> SO <sub>4</sub> ) / (pH >10 for samples preserved with NaAsO <sub>2</sub> +NaOH, ZnAc+NaOH)			<input checked="" type="checkbox"/>	
Additional Comments (if any):				

<sup>(1)</sup>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 12/7/23

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 - Millage C #11-22

**WH-FS-01@7'**

**12/5/2023 10:26:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y312119-01 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	0.754		0.0995	mg/L	1	B3L0612	12/06/2023	12/07/2023	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND		25.0	mg/kg	1	B3L0624	12/06/2023	12/09/2023	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	106 %		50-150			"	"	"	
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B3L0620	12/06/2023	12/07/2023	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

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 - Millage C #11-22

**WH-FS-01@7'**

**12/5/2023 10:26:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y312119-01 (Soil)**

**GBTEX+TMBs by 8260D**

Surrogate: 1,2-Dichloroethane-d4	113 %		70-130			B3L06 20	12/06/2023	12/07/2023	
Surrogate: Toluene-d8	98.5 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	96.2 %		70-130			"	"	"	

**Metals by Saturated Paste by EPA 6010**

Calcium	12.3		0.499	meq/L	10	[CALC]	12/07/2023	12/08/2023	
Magnesium	5.00		0.823	"	"	"	"	"	
Sodium	12.6		0.435	"	"	"	"	"	

**PAH by EPA 8270E**

1-Methylnaphthalene	ND		0.002	mg/kg	1	B3L0822	12/08/2023	12/12/2023	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 (k) fluoranthene	ND		0.020	"	"	"	"	"	U
Chrysene	ND		0.020	"	"	"	"	"	U
Dibenz (a,h) anthracene	ND		0.020	"	"	"	"	"	U

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 Wheat Ridge CO 80033

Andrew Newberry  
 Project Number: [none]  
 Project: Noble - Millage C #11-22

**WH-FS-01@7'**

**12/5/2023 10:26:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y312119-01 (Soil)**

**PAH by EPA 8270E**

Fluoranthene	ND		0.020	mg/kg	1	B3L0822	12/08/2023	12/12/2023	U
Fluorene	ND		0.020	"	"	"	"	"	U
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	U
Pyrene	ND		0.020	"	"	"	"	"	U

Surrogate: Fluorene-d10	107 %		60-130			"	"	"	
Surrogate: Anthracene-d10	98.9 %		60-130			"	"	"	
Surrogate: Pyrene-d10	96.0 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	101 %		60-130			"	"	"	

**pH in Soil by 9045D**

pH	8.13			pH Units	1	B3L0717	12/07/2023	12/08/2023	
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**SAR by 20B Saturated Paste**

SAR	4.29		0.0100	SAR	1	B3L0712	12/07/2023	12/08/2023	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	2.23		0.00500	mmhos/cm	1	B3L0717	12/07/2023	12/08/2023	
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**Total Metals by 6020B**

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Andrew Newberry  
 Project Number: [none]  
 Project: Noble - Millage C #11-22

**WH-FS-01@7'**

**12/5/2023 10:26:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Waypoint Analytical, LLC.**  
**Y312119-01 (Soil)**

**Total Metals by 6020B**

Arsenic	2.46	0.0855	0.25	mg/Kg	5	L721431	12/08/2023	12/24/2023	
Barium	132	0.042	0.25	"	"	"	"	"	
Cadmium	0.196	0.026	0.25	"	"	"	"	"	J
Copper	10.6	0.0805	0.25	"	"	"	"	"	
Lead	16.4	0.031	0.25	"	"	"	"	"	
Nickel	9.03	0.0635	0.25	"	"	"	"	"	
Selenium	0.71	0.103	0.25	"	"	"	"	"	
Silver	0.0338	0.0067	0.25	"	"	"	"	"	J
Zinc	40.9	0.535	2.5	"	"	"	"	"	

**Total Metals by 7196A**

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L721735	12/05/2023	12/12/2023	
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Andrew Newberry  
 Project Number: [none]  
 Project: Noble - Millage C #11-22

**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 B3L0620 - EPA 5030 (soil)**

**Blank (B3L0620-BLK1)**

Prepared: 12/06/2023 Analyzed: 12/06/2023

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	0.12		"	0.125	99.3		70-130			
Surrogate: Toluene-d8	0.11		"	0.125	84.9		70-130			
Surrogate: 4-Bromofluorobenzene	0.11		"	0.125	90.4		70-130			

Origins Laboratory, Inc.



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Andrew Newberry  
 Project Number: [none]  
 Project: Noble - Millage C #11-22

**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 B3L0620 - EPA 5030 (soil)

**LCS (B3L0620-BS1)**

Prepared: 12/06/2023 Analyzed: 12/06/2023

1,2,4-Trimethylbenzene	0.100	0.00200	mg/kg	0.100		100	70-130			
1,3,5-Trimethylbenzene	0.110	0.00200	"	0.100		110	70-130			
Benzene	0.101	0.00200	"	0.100		101	70-130			
Ethylbenzene	0.0937	0.00200	"	0.100		93.7	70-130			
Naphthalene	0.104	0.00380	"	0.100		104	70-130			
Toluene	0.113	0.00200	"	0.100		113	70-130			
o-Xylene	0.0933	0.00200	"	0.100		93.3	70-130			
m,p-Xylene	0.195	0.00400	"	0.200		97.6	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		103	70-130			
Surrogate: Toluene-d8	0.14		"	0.125		114	70-130			
Surrogate: 4-Bromofluorobenzene	0.11		"	0.125		91.5	70-130			

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Andrew Newberry  
 Project Number: [none]  
 Project: Noble - Millage C #11-22

**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 B3L0620 - EPA 5030 (soil)

Matrix Spike (B3L0620-MS1)	Source: Y312030-01			Prepared: 12/06/2023 Analyzed: 12/06/2023						
1,2,4-Trimethylbenzene	0.105	0.00200	mg/kg	0.100	ND	105	70-130			
1,3,5-Trimethylbenzene	0.114	0.00200	"	0.100	ND	114	70-130			
Benzene	0.110	0.00200	"	0.100	ND	110	70-130			
Ethylbenzene	0.0905	0.00200	"	0.100	ND	90.5	70-130			
Naphthalene	0.122	0.00380	"	0.100	0.00128	121	70-130			
Toluene	0.116	0.00200	"	0.100	ND	116	70-130			
o-Xylene	0.113	0.00200	"	0.100	ND	113	70-130			
m,p-Xylene	0.199	0.00400	"	0.200	ND	99.7	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.15		"	0.125		119	70-130			
Surrogate: Toluene-d8	0.15		"	0.125		117	70-130			
Surrogate: 4-Bromofluorobenzene	0.14		"	0.125		112	70-130			

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 Project: Noble - Millage C #11-22

**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 B3L0620 - EPA 5030 (soil)**

Matrix Spike Dup (B3L0620-MSD1)	Source: Y312030-01			Prepared: 12/06/2023 Analyzed: 12/06/2023						
1,2,4-Trimethylbenzene	0.110	0.00200	mg/kg	0.100	ND	110	70-130	5.21	20	
1,3,5-Trimethylbenzene	0.108	0.00200	"	0.100	ND	108	70-130	5.73	20	
Benzene	0.105	0.00200	"	0.100	ND	105	70-130	4.52	20	
Ethylbenzene	0.0841	0.00200	"	0.100	ND	84.1	70-130	7.29	20	
Naphthalene	0.102	0.00380	"	0.100	0.00128	100	70-130	18.5	20	
Toluene	0.118	0.00200	"	0.100	ND	118	70-130	1.84	20	
o-Xylene	0.0960	0.00200	"	0.100	ND	96.0	70-130	16.6	20	
m,p-Xylene	0.176	0.00400	"	0.200	ND	88.0	70-130	12.5	20	
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		112	70-130			
Surrogate: Toluene-d8	0.16		"	0.125		128	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		104	70-130			

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Andrew Newberry  
 Project Number: [none]  
 Project: Noble - Millage C #11-22

**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
<b>Batch B3L0624 - EPA 3550B</b>										
<b>Blank (B3L0624-BLK1)</b>										
					Prepared: 12/06/2023 Analyzed: 12/08/2023					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	29		"	24.9		117	50-150			

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 Wheat Ridge CO 80033

Andrew Newberry  
 Project Number: [none]  
 Project: Noble - Millage C #11-22

**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 B3L0624 - EPA 3550B**

**LCS (B3L0624-BS1)**

Prepared: 12/06/2023 Analyzed: 12/08/2023

Diesel (C10-C28)	899	50.0	mg/kg	1000		89.9	70-130			
Residual Range Organics (C28-C40)	892	200	"	1000		89.2	70-130			
Surrogate: o-Terphenyl	53		"	49.8		106	50-150			

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Andrew Newberry  
 Project Number: [none]  
 Project: Noble - Millage C #11-22

**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 B3L0624 - EPA 3550B**

<b>Matrix Spike (B3L0624-MS1)</b>	<b>Source: Y312072-01</b>			Prepared: 12/06/2023 Analyzed: 12/08/2023						
Diesel (C10-C28)	934	50.0	mg/kg	1000	ND	93.4	70-130			
Residual Range Organics (C28-C40)	922	200	"	1000	ND	92.2	70-130			
Surrogate: o-Terphenyl	50		"	49.8		101	50-150			

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Andrew Newberry  
 Project Number: [none]  
 Project: Noble - Millage C #11-22

**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
<b>Batch B3L0624 - EPA 3550B</b>										
<b>Matrix Spike Dup (B3L0624-MSD1)</b>					<b>Source: Y312072-01</b>					Prepared: 12/06/2023 Analyzed: 12/08/2023
Diesel (C10-C28)	930	50.0	mg/kg	1000	ND	93.0	70-130	0.386	35	
Residual Range Organics (C28-C40)	916	200	"	1000	ND	91.6	70-130	0.604	35	
Surrogate: o-Terphenyl	48		"	49.8		96.6	50-150			

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Andrew Newberry  
 Project Number: [none]  
 Project: Noble - Millage C #11-22

**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 B3L0822 - EPA 3580**

**Blank (B3L0822-BLK1)**

Prepared: 12/08/2023 Analyzed: 12/12/2023

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	210		ug/kg	200		106	60-130			
Surrogate: Anthracene-d10	190		"	200		97.1	60-130			
Surrogate: Pyrene-d10	190		"	200		94.2	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		100	60-130			

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Andrew Newberry  
 Project Number: [none]  
 Project: Noble - Millage C #11-22

**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 B3L0822 - EPA 3580**

**LCS (B3L0822-BS1)**

Prepared: 12/08/2023 Analyzed: 12/12/2023

1-Methylnaphthalene	0.203	0.002	mg/kg	0.200		101	70-130			
2-Methylnaphthalene	0.201	0.002	"	0.200		101	70-130			
Acenaphthene	0.194	0.020	"	0.200		97.2	70-130			
Anthracene	0.203	0.020	"	0.200		101	70-130			
Benzo (a) anthracene	0.181	0.005	"	0.200		90.5	70-130			
Benzo (a) pyrene	0.195	0.020	"	0.200		97.6	70-130			
Benzo (b) fluoranthene	0.176	0.020	"	0.200		88.0	70-130			
Benzo (g,h,i) perylene	0.206	0.020	"	0.200		103	70-130			
Benzo (k) fluoranthene	0.166	0.020	"	0.200		83.0	70-130			
Chrysene	0.175	0.020	"	0.200		87.3	70-130			
Dibenz (a,h) anthracene	0.200	0.020	"	0.200		100	70-130			
Fluoranthene	0.203	0.020	"	0.200		102	70-130			
Fluorene	0.213	0.020	"	0.200		106	70-130			
Indeno (1,2,3-cd) pyrene	0.221	0.020	"	0.200		111	70-130			
Naphthalene	0.196	0.002	"	0.200		97.8	70-130			
Phenanthrene	0.187	0.020	"	0.200		93.4	70-130			
Pyrene	0.176	0.020	"	0.200		88.0	70-130			
Surrogate: Fluorene-d10	210		ug/kg	200		107	60-130			
Surrogate: Anthracene-d10	190		"	200		97.0	60-130			
Surrogate: Pyrene-d10	190		"	200		93.7	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		99.6	60-130			

**Matrix Spike (B3L0822-MS1)**

**Source: Y312119-01**

Prepared: 12/08/2023 Analyzed: 12/12/2023

1-Methylnaphthalene	0.216	0.002	mg/kg	0.200	ND	108	70-130			
2-Methylnaphthalene	0.208	0.002	"	0.200	ND	104	70-130			
Acenaphthene	0.198	0.020	"	0.200	ND	99.1	70-130			
Anthracene	0.204	0.020	"	0.200	ND	102	70-130			

Origins Laboratory, Inc.



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 Wheat Ridge CO 80033

Andrew Newberry  
 Project Number: [none]  
 Project: Noble - Millage C #11-22

**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 B3L0822 - EPA 3580**

<b>Matrix Spike (B3L0822-MS1)</b>		<b>Source: Y312119-01</b>			Prepared: 12/08/2023 Analyzed: 12/12/2023					
Benzo (a) anthracene	0.178	0.005	mg/kg	0.200	ND	89.0	70-130			
Benzo (a) pyrene	0.208	0.020	"	0.200	ND	104	70-130			
Benzo (b) fluoranthene	0.185	0.020	"	0.200	ND	92.5	70-130			
Benzo (g,h,i) perylene	0.208	0.020	"	0.200	ND	104	70-130			
Benzo (k) fluoranthene	0.169	0.020	"	0.200	ND	84.4	70-130			
Chrysene	0.184	0.020	"	0.200	ND	92.2	70-130			
Dibenz (a,h) anthracene	0.206	0.020	"	0.200	ND	103	70-130			
Fluoranthene	0.210	0.020	"	0.200	ND	105	70-130			
Fluorene	0.208	0.020	"	0.200	ND	104	70-130			
Indeno (1,2,3-cd) pyrene	0.222	0.020	"	0.200	ND	111	70-130			
Naphthalene	0.202	0.002	"	0.200	ND	101	70-130			
Phenanthrene	0.199	0.020	"	0.200	ND	99.3	70-130			
Pyrene	0.180	0.020	"	0.200	ND	89.9	70-130			
Surrogate: Fluorene-d10	210		ug/kg	200		107	60-130			
Surrogate: Anthracene-d10	200		"	200		99.3	60-130			
Surrogate: Pyrene-d10	180		"	200		92.2	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		98.4	60-130			

<b>Matrix Spike Dup (B3L0822-MSD1)</b>		<b>Source: Y312119-01</b>			Prepared: 12/08/2023 Analyzed: 12/12/2023					
1-Methylnaphthalene	0.210	0.002	mg/kg	0.200	ND	105	70-130	2.77	20	
2-Methylnaphthalene	0.201	0.002	"	0.200	ND	101	70-130	3.27	20	
Acenaphthene	0.198	0.020	"	0.200	ND	98.8	70-130	0.293	20	
Anthracene	0.181	0.020	"	0.200	ND	90.7	70-130	11.5	20	
Benzo (a) anthracene	0.188	0.005	"	0.200	ND	93.8	70-130	5.27	20	
Benzo (a) pyrene	0.200	0.020	"	0.200	ND	99.9	70-130	3.87	20	
Benzo (b) fluoranthene	0.182	0.020	"	0.200	ND	90.9	70-130	1.69	20	
Benzo (g,h,i) perylene	0.202	0.020	"	0.200	ND	101	70-130	2.87	20	

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 - Millage C #11-22

**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 B3L0822 - EPA 3580

Matrix Spike Dup (B3L0822-MSD1)	Source: Y312119-01			Prepared: 12/08/2023 Analyzed: 12/12/2023						
Benzo (k) fluoranthene	0.170	0.020	mg/kg	0.200	ND	85.1	70-130	0.725	20	
Chrysene	0.177	0.020	"	0.200	ND	88.3	70-130	4.30	20	
Dibenz (a,h) anthracene	0.202	0.020	"	0.200	ND	101	70-130	2.06	20	
Fluoranthene	0.207	0.020	"	0.200	ND	104	70-130	1.24	20	
Fluorene	0.207	0.020	"	0.200	ND	103	70-130	0.544	20	
Indeno (1,2,3-cd) pyrene	0.214	0.020	"	0.200	ND	107	70-130	3.63	20	
Naphthalene	0.199	0.002	"	0.200	ND	99.3	70-130	1.68	20	
Phenanthrene	0.194	0.020	"	0.200	ND	97.2	70-130	2.18	20	
Pyrene	0.182	0.020	"	0.200	ND	90.8	70-130	1.06	20	
Surrogate: Fluorene-d10	210		ug/kg	200		106	60-130			
Surrogate: Anthracene-d10	200		"	200		98.1	60-130			
Surrogate: Pyrene-d10	190		"	200		92.8	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		98.0	60-130			

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 - Millage C #11-22

**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 B3L0612 - DTPA Sorbitol Preparation**

**Blank (B3L0612-BLK1)**

Prepared: 12/06/2023 Analyzed: 12/07/2023

Boron ND 0.100 mg/L

**Duplicate (B3L0612-DUP1)**

**Source: Y312038-01**

Prepared: 12/06/2023 Analyzed: 12/07/2023

Boron 0.774 0.0999 mg/L 0.690 11.5 50

**Batch B3L0712 - Saturated Paste Metals**

**Blank (B3L0712-BLK1)**

Prepared: 12/07/2023 Analyzed: 12/08/2023

SAR ND 0.0100 SAR

Calcium PPM ND 10.0 mg/L

Magnesium PPM ND 10.0 "

Sodium PPM ND 10.0 "

**Duplicate (B3L0712-DUP1)**

**Source: Y312116-01**

Prepared: 12/07/2023 Analyzed: 12/08/2023

SAR ND 0.0100 SAR 0.617 200

Calcium PPM 79.3 10.0 mg/L 56.2 34.2 50

Magnesium PPM 29.0 10.0 " 21.0 32.0 50

Sodium PPM 23.1 10.0 " 21.4 7.74 50

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 - Millage C #11-22

**Saturated Paste - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B3L0717 - Saturated Paste pH/EC**

**Blank (B3L0717-BLK1)**

Prepared: 12/07/2023 Analyzed: 12/08/2023

Specific Conductance (EC) ND 0.00500 mmhos/cm

**Duplicate (B3L0717-DUP1)**

**Source: Y312116-01**

Prepared: 12/07/2023 Analyzed: 12/08/2023

pH	8.21		pH Units		8.27			0.728	25	
Specific Conductance (EC)	0.687	0.00500	mmhos/cm		0.542			23.6	25	

Origins Laboratory, Inc.



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 8000 W 44th Ave  
 Wheat Ridge CO 80033

Andrew Newberry  
 Project Number: [none]  
 Project: Noble - Millage C #11-22

**Total Metals by 6020B - 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 L721431 - 3050B**

<b>MSD (L 89037-MSD-L721431)</b>		<b>Source: 89037</b>			<b>Prepared: 12/08/2023 Analyzed: 12/24/2023</b>					
Arsenic	5.36	0.25	mg/Kg	2.35	4.88	20	75-125	13.2	80	*
Zinc	69	2.5	"	23.5	70.3	0	75-125	12.5	80	I*
Barium	95.2	0.25	"	4.71	128	0	75-125	10.7	80	I*
Copper	14.7	0.25	"	2.35	18.2	0	75-125	10.3	80	I*
Lead	9.33	0.25	"	2.35	10.8	0	75-125	10.8	80	I*
Nickel	14.4	0.25	"	2.35	18.4	0	75-125	12.3	80	I*
Selenium	4.7	0.25	"	4.71	1.2	74	75-125	16.2	80	*
Silver	0.441	0.25	"	0.471	0.0537	82	75-125	15	80	
Cadmium	0.664	0.25	"	0.471	0.333	70	75-125	10.6	80	*

<b>MS (L 89037-MS-L721431)</b>		<b>Source: 89037</b>			<b>Prepared: 12/08/2023 Analyzed: 12/24/2023</b>					
Selenium	5.53	0.25	mg/Kg	4.95	1.2	87	75-125			
Nickel	16.3	0.25	"	2.48	18.4	0	75-125			I*
Lead	10.4	0.25	"	2.48	10.8	0	75-125			I*
Copper	16.3	0.25	"	2.48	18.2	0	75-125			I*
Cadmium	0.739	0.25	"	0.495	0.333	82	75-125			
Silver	0.513	0.25	"	0.495	0.0537	93	75-125			
Arsenic	6.12	0.25	"	2.48	4.88	50	75-125			*
Zinc	78.2	2.5	"	24.8	70.3	32	75-125			I*
Barium	106	0.25	"	4.95	128	0	75-125			I*

<b>LCS (LCS-L721431)</b>		<b>Prepared: 12/08/2023 Analyzed: 12/24/2023</b>								
Zinc	25.3	2.5	mg/Kg	25		101	80-120			
Cadmium	0.507	0.25	"	0.5		101	80-120			
Barium	5.18	0.25	"	5		104	80-120			
Copper	2.66	0.25	"	2.5		106	80-120			
Lead	2.48	0.25	"	2.5		99	80-120			

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 - Millage C #11-22

**Total Metals by 6020B - 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 L721431 - 3050B**

**LCS (LCS-L721431)**

Prepared: 12/08/2023 Analyzed: 12/24/2023

Nickel	2.65	0.25	mg/Kg	2.5		106	80-120			
Selenium	5.09	0.25	"	5		102	80-120			
Silver	0.506	0.25	"	0.5		101	80-120			
Arsenic	2.52	0.25	"	2.5		101	80-120			

**LRB (LRB-L721431)**

Prepared: 12/08/2023 Analyzed: 12/24/2023

Zinc	ND	2.5	mg/Kg				-			
Arsenic	ND	0.25	"				-			
Barium	ND	0.25	"				-			
Cadmium	ND	0.25	"				-			
Copper	ND	0.25	"				-			
Lead	ND	0.25	"				-			
Nickel	ND	0.25	"				-			
Selenium	ND	0.25	"				-			
Silver	ND	0.25	"				-			

Origins Laboratory, Inc.



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 8000 W 44th Ave  
 Wheat Ridge CO 80033

Andrew Newberry  
 Project Number: [none]  
 Project: Noble - Millage C #11-22

**Total Metals by 7196A - Quality Control  
 Waypoint Analytical, LLC.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch L721735 -</b>										
<b>DUP (L 89032-DUP)</b>		<b>Source: 89032</b>			Prepared: Analyzed: 12/12/2023					
Chromium, Hexavalent	ND	0.5	mg/Kg		89032		-	0	20	
<b>MS (L 89032-MS)</b>		<b>Source: 89032</b>			Prepared: Analyzed: 12/12/2023					
Chromium, Hexavalent	31.8	2.5	mg/Kg	38.7	89032	82	75-125			
<b>LCS (LCS)</b>		Prepared: Analyzed: 12/12/2023								
Chromium, Hexavalent	6.69	0.5	mg/Kg	8		84	75-125			
<b>LRB (LRB)</b>		Prepared: Analyzed: 12/12/2023								
Chromium, Hexavalent	ND	0.5	mg/Kg				-			

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 - Millage C #11-22

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### Notes and Definitions

U Sample is Non-Detect.

J Estimated Value. Analyte below reported quantitation limit.

I\* [Undefined]

\* QC Failure

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported on a wet weight basis.

Calculated results may use J-flag data (instead of reported "ND") as part of calculation to provide a more accurate result.

Origins Laboratory, Inc.



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

---

Jordan A. Bynon, Project Manager



January 24, 2024

Eagle Environmental Consulting, LLC

Andrew Newberry

8000 W 44th Ave

Wheat Ridge CO 80033

**Project Name - Noble - Millage C #11-22**

**Project Number - [none]**

Attached are your analytical results for Noble - Millage C #11-22 received by Origins Laboratory, Inc. January 12, 2024. This project is associated with Origins project number Y401328-01.

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 - Millage C #11-22

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Background-01@2'	Y401328-01	Soil	December 5, 2023 10:08	01/12/2024 14:34

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 - Millage C #11-22

Origins Laboratory

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

**Sample Receipt Checklist**

Origins Work Order: 1401328

Client: Eagle  
 Client Project ID: Millage C #11-22

Checklist Completed by: JST/CHS

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

Date/time completed: 1/12/24

Matrix(s) Received: (Check all that apply):  Soil/Solid  Water  Other: \_\_\_\_\_ (Describe)

Cooler Number/Temperature: 115 °C \_\_\_\_\_ °C \_\_\_\_\_ °C \_\_\_\_\_ °C

Thermometer ID: T004

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 8°C <sup>(1)</sup> ?	/			
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 <sup>(1)</sup> ?	/			
Was adequate sample volume provided <sup>(1)</sup> ?	/			
Are short holding time analytes or samples with HTs due within 48 hours present <sup>(1)</sup> ?		/		
Is a chain-of-custody (COC) present and filled out completely <sup>(1)</sup> ?	/			
Does the COC agree with the number and type of sample bottles received <sup>(1)</sup> ?	/			
Do the sample IDs on the bottle labels match the COC <sup>(1)</sup> ?	/			
Is the COC properly relinquished by the client with date and time recorded <sup>(1)</sup> ?	/			
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.			/	
Are samples preserved that require preservation and was it checked <sup>(1)</sup> ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analysis in order to insure sample integrity)/(pH <2 for samples preserved with HNO <sub>3</sub> , HCL, H <sub>2</sub> SO <sub>4</sub> ) / (pH >10 for samples preserved with NaAsO <sub>2</sub> +NaOH, ZnAc+NaOH)			/	
Additional Comments (if any):				

<sup>(1)</sup>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)

Date/Time Reviewed 1/15/24

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, LLC  
8000 W 44th Ave  
Wheat Ridge CO 80033

Andrew Newberry  
Project Number: [none]  
Project: Noble - Millage C #11-22

**Background-01@2'**  
**12/5/2023 10:08:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y401328-01 (Soil)**

**Table 915 metals by EPA 6020B**

Arsenic	4.99	0.0904	mg/kg	10	B4A1241	JAH	01/12/2024	01/16/2024	
Barium	307	9.04	"	"	"	JAH	"	"	
Lead	30.9	0.904	"	"	"	JAH	"	"	
Selenium	0.655	0.0904	"	"	"	JAH	"	01/17/2024	

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 - Millage C #11-22

**Metals by EPA 6000/7000 Series Methods - 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 B4A1241 - EPA 3050B**

**Blank (B4A1241-BLK1)**

Prepared: 01/12/2024 Analyzed: 01/16/2024

Arsenic	ND	0.0100	mg/kg							
Barium	ND	1.00	"							
Cadmium	ND	0.0100	"							
Copper	ND	1.00	"							
Lead	ND	0.100	"							
Nickel	ND	0.100	"							
Selenium	ND	0.0100	"							
Silver	ND	0.0100	"							
Zinc	ND	1.00	"							

**LCS (B4A1241-BS1)**

Prepared: 01/12/2024 Analyzed: 01/16/2024

Arsenic	5.00	0.0100	mg/kg	5.00		100	80-120			
Barium	488	1.00	"	500		97.6	80-120			
Cadmium	5.17	0.0100	"	5.00		103	80-120			
Copper	45.5	1.00	"	50.0		91.1	80-120			
Lead	5.09	0.100	"	5.00		102	80-120			
Nickel	4.62	0.100	"	5.00		92.4	80-120			
Selenium	5.29	0.0100	"	5.00		106	80-120			
Silver	5.14	0.0100	"	5.00		103	80-120			
Zinc	51.1	1.00	"	50.0		102	80-120			

**Matrix Spike (B4A1241-MS1)**

**Source: Y401323-01**

Prepared: 01/12/2024 Analyzed: 01/16/2024

Arsenic	6.75	0.0980	mg/kg	4.90	1.47	108	75-125			
Barium	584	9.80	"	490	50.0	109	75-125			
Cadmium	5.59	0.0980	"	4.90	0.0485	113	75-125			
Copper	58.5	9.80	"	49.0	4.38	111	75-125			
Lead	9.11	0.980	"	4.90	3.59	113	75-125			

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 - Millage C #11-22

**Metals by EPA 6000/7000 Series Methods - 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 B4A1241 - EPA 3050B**

**Matrix Spike (B4A1241-MS1)**

**Source: Y401323-01**

Prepared: 01/12/2024 Analyzed: 01/16/2024

Nickel	9.17	0.980	mg/kg	4.90	3.53	115	75-125			
Selenium	5.24	0.0980	"	4.90	ND	107	75-125			
Silver	5.52	0.0980	"	4.90	0.0190	112	75-125			
Zinc	69.1	9.80	"	49.0	16.1	108	75-125			

**Matrix Spike Dup (B4A1241-MSD1)**

**Source: Y401323-01**

Prepared: 01/12/2024 Analyzed: 01/16/2024

Arsenic	5.69	0.0925	mg/kg	4.62	1.47	91.4	75-125	16.9	20	
Barium	491	9.25	"	462	50.0	95.5	75-125	17.2	20	
Cadmium	4.76	0.0925	"	4.62	0.0485	102	75-125	16.0	20	
Copper	49.7	9.25	"	46.2	4.38	98.1	75-125	16.2	20	
Lead	7.75	0.925	"	4.62	3.59	90.0	75-125	16.1	20	
Nickel	7.91	0.925	"	4.62	3.53	94.7	75-125	14.8	20	
Selenium	4.89	0.0925	"	4.62	ND	106	75-125	6.89	20	
Silver	4.63	0.0925	"	4.62	0.0190	99.6	75-125	17.7	20	
Zinc	59.1	9.25	"	46.2	16.1	93.0	75-125	15.6	20	

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 - Millage C #11-22

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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.

Origins Laboratory, Inc.



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Jordan A. Bynon, Project Manager