

## Wellhead Closure Checklist

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

Additional attachments (optional):		Pit Closure		Tank Battery Closure		Flowline Closure		Partially Buried Vault Closure	
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Site Name & COGCC Facility Number: <i>Ava State C *30-22</i>	Date: <i>7-28-22</i>	Remediation Project #: <i>23682</i>
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Associated Wells: <i>2</i> <i>05-123-25677</i>	Age of Site: <i>years</i>	Number of Photos Attached: <i>1</i>
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Location: (GPS coordinates of wellhead or southeastern most wellhead for multiple)	Estimated Facility Size (acres):
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General Condition of Site: (General observations regarding housekeeping, corrosion, waste management, etc.)

*Overall good condition*

USCS Soil Type:	Estimated Depth to Groundwater: <i>~15-20'</i>
-----------------	--

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	<i>05-123-25677</i>					
Age	<i>years</i>					
Condition of surface around wellhead	<i>Good - per crew</i>					
PID Readings	<i>N/A - Excavated upon arrival</i>					
Condition of subsurface (staining, odor)	<i>Good - no staining, no odor</i>					
PID Readings	<i>0.4</i>	<i>0.9</i>	<i>0.7</i>	<i>0.8</i>	<i>1.2</i>	
Sample taken? Location/Sample ID	<i>WH-SS-01</i>	<i>WH-SS-02</i>	<i>WH-SS-03</i>	<i>WH-SS-04</i>	<i>WH-FS-01</i>	
Photo Number(s)	<i>See photolog</i>					

Other observations regarding wellheads:

*Well casing cut/capped after assessment*

#### Summary

Was impacted soil identified?  No      Yes - less than 10 cubic yards      Yes - more than 10 cubic yards

Total number of samples field screened: <i>5</i>	Total number of samples collected: <i>5</i>
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Highest PID Reading: <i>1.2</i>	Total number of samples submitted to lab for analysis: <i>1</i>
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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: <i>N/A</i>	Volume of soil removed:
----------------------------	-------------------------

Is additional investigation required? *N/A*

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



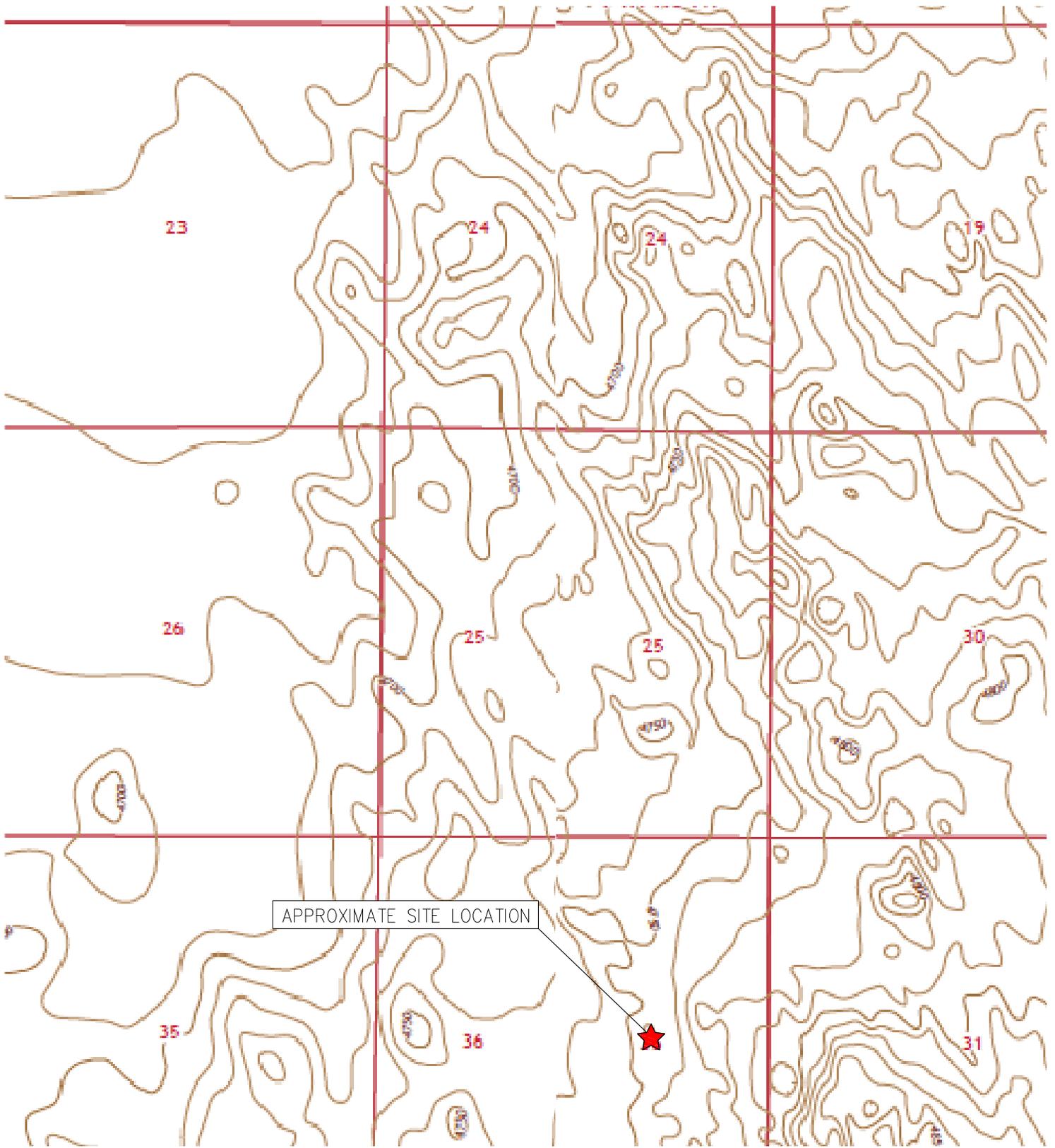
## **FIGURES**

**Figure 1: Topographic Site Location Map**

**Figure 2: Aerial Site Location Map**

**Figure 3: Soil Analytical Map**

**Figure 4: Polycyclic Aromatic Hydrocarbons Map**



APPROXIMATE SITE LOCATION



TOPOGRAPHIC SITE LOCATION MAP  
 AVA STATE C #36-22  
 CLOSURE ASSESSMENT  
 40.268790 / -104.494921  
 NW¼ SE¼ SEC.36 T4N R64W 6PM  
 WELD COUNTY, COLORADO  
 API # 05-123-25677  
 REMEDIATION # 23682



**EAGLE**  
 ENVIRONMENTAL  
 CONSULTING, INC.

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

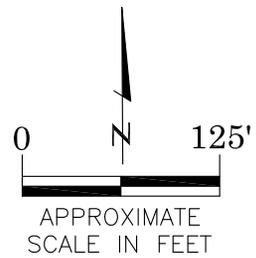
SOURCE: USGS 7.5 MINUTE TOPOGRAPHIC MAPS  
 HARDIN & VALLEY VIEW SCHOOL, CO  
 QUADRANGLES 2022

FIGURE 1



LEGEND

- FORMER AVA STATE C #36-22 WELLHEAD (PLUGGED AND ABANDONED)
- ASSOCIATED SEPARATOR
- APPROXIMATE FLOWLINE LOCATION



AERIAL SITE LOCATION MAP

AVA STATE C #36-22  
 CLOSURE ASSESSMENT  
 40.268790 / -104.494921  
 NW $\frac{1}{4}$  SE $\frac{1}{4}$  SEC.36 T4N R64W 6PM  
 WELD COUNTY, COLORADO  
 API # 05-123-25677  
 REMEDIATION # 23682

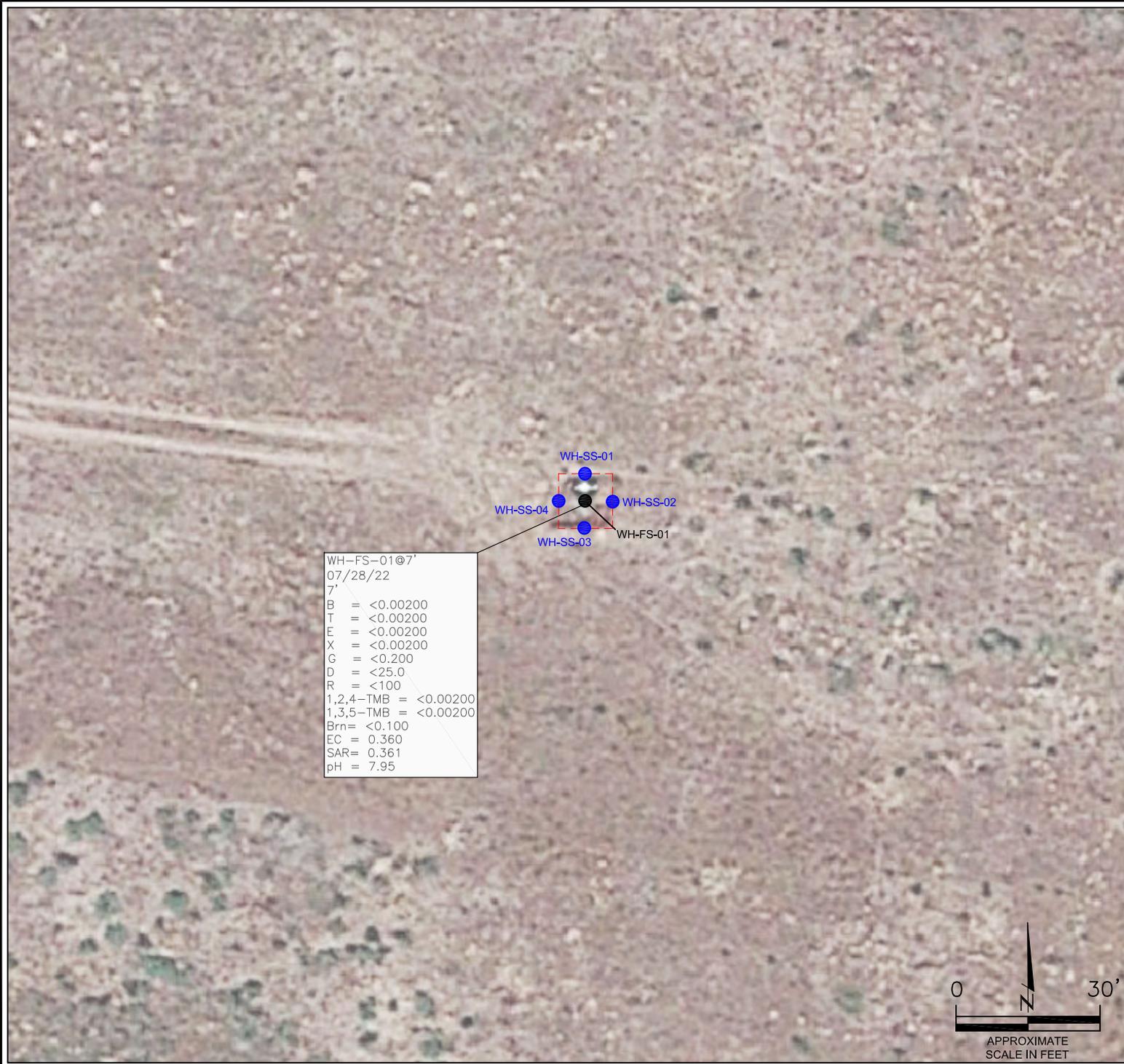
FIG. NO.  
2

DRAWN BY:  
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WH-FS-01@7'  
 07/28/22  
 7'  
 B = <0.00200  
 T = <0.00200  
 E = <0.00200  
 X = <0.00200  
 G = <0.200  
 D = <25.0  
 R = <100  
 1,2,4-TMB = <0.00200  
 1,3,5-TMB = <0.00200  
 Brn = <0.100  
 EC = 0.360  
 SAR = 0.361  
 pH = 7.95

**LEGEND**

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

**PARAMETERS**

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

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

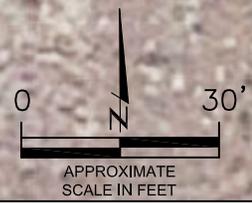
TPH-GRO = TOTAL PETROLEUM HYDROCARBONS - GASOLINE RANGE ORGANICS  
 TPH-DRO = TOTAL PETROLEUM HYDROCARBONS - DIESEL RANGE ORGANICS  
 TPH-RRO = TOTAL PETROLEUM HYDROCARBONS - RESIDUAL RANGE ORGANICS

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

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

COGCC = COLORADO OIL AND GAS CONSERVATION COMMISSION

SOIL ANALYTICAL MAP  
 AVA STATE C #36-22  
 CLOSURE ASSESSMENT  
 40.268790 / -104.494921  
 NW 1/4 SEC. 36 T4N R64W 6PM  
 WELD COUNTY, COLORADO  
 API # 05-123-25677  
 REMEDIATION # 23682

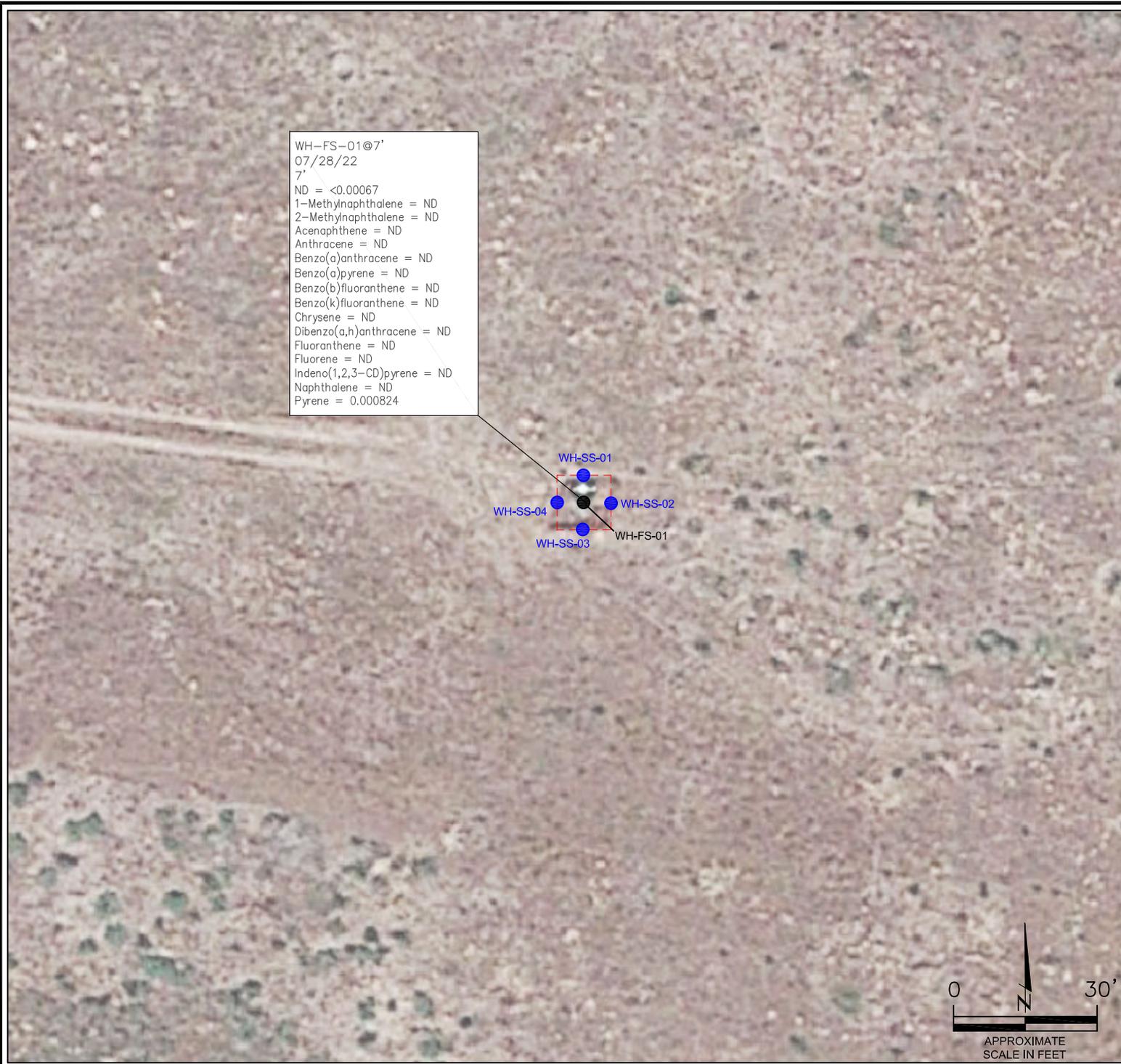


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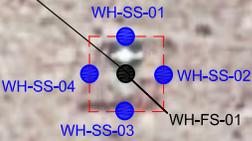
FIG. NO.  
3



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WH-FS-01@7'  
 07/28/22  
 7'  
 ND = <0.00067  
 1-Methylnaphthalene = ND  
 2-Methylnaphthalene = ND  
 Acenaphthene = ND  
 Anthracene = ND  
 Benzo(a)anthracene = ND  
 Benzo(a)pyrene = ND  
 Benzo(b)fluoranthene = ND  
 Benzo(k)fluoranthene = ND  
 Chrysene = ND  
 Dibenzo(a,h)anthracene = ND  
 Fluoranthene = ND  
 Fluorene = ND  
 Indeno(1,2,3-CD)pyrene = ND  
 Naphthalene = ND  
 Pyrene = 0.000824



**LEGEND**

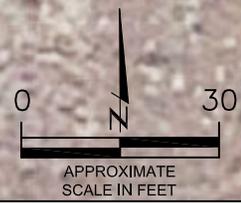
- - - INITIAL ASSESSMENT BOUNDARIES
- **SS-02** APPROXIMATE LOCATION OF SOIL SAMPLES FIELD SCREENED, ONLY, WITH PHOTOIONIZATION DETECTOR
- **SS-02** APPROXIMATE LOCATION OF SOIL SAMPLES SUBMITTED FOR LABORATORY ANALYSIS

**PARAMETERS**

SAMPLE LOCATION  
 DATE SAMPLE COLLECTED  
 APPROXIMATE DEPTH  
 POLYCYCLIC AROMATIC HYDROCARBONS (PAHs) (mg/kg)

mg/kg = MILLIGRAMS PER KILOGRAM  
 ND = NON-DETECT  
 NOTES:  
 VALUES PRESENTED WITH A LESS THAN SYMBOL (<) DID NOT CONTAIN CONCENTRATIONS AT OR ABOVE LABORATORY DETECTION LIMITS.  
 VALUES PRESENTED IN **BOLD** ] EXCEED COGCC TABLE 915-1 REGULATORY LIMITS.  
 COGCC = COLORADO OIL AND GAS CONSERVATION COMMISSION

POLYCYCLIC AROMATIC HYDROCARBONS MAP  
 AVA STATE C #36-22  
 CLOSURE ASSESSMENT  
 40.268790 / -104.494921  
 NW 1/4 SE 1/4 SEC.36 T4N R64W 6PM  
 WELD COUNTY, COLORADO  
 API # 05-123-25677  
 REMEDIATION # 23682



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FIG. NO.  
4

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## **TABLES**

**Table 1: Photoionization Detector Reading Summary**

**Table 2: Soil Analytical Results Summary**

**Table 3: Polycyclic Aromatic Hydrocarbons Analytical Results Summary**

**TABLE 1**  
**PHOTOIONIZATION DETECTOR READING SUMMARY**  
**AVA STATE C #36-22**  
**CLOSURE ASSESSMENT**  
**40.268790 / -104.494921**  
**NW1/4 SE1/4 SEC.36 T4N R64W 6PM**  
**WELD COUNTY, COLORADO**  
**API # 05-123-25677**  
**REMEDATION # 23682**

Sample Location (Latitude/Longitude)	Date	Approximate Depth (feet)	PID Reading (ppm-v)	Lab Submission (Y/N)
WH-SS-01 @ 6' (40.268816 / -104.494930)	07/28/22	6	0.4	N
WH-SS-02 @ 6' (40.268801 / -104.494912)	07/28/22	6	0.9	N
WH-SS-03 @ 6' (40.268786 / -104.494930)	07/28/22	6	0.7	N
WH-SS-04 @ 6' (40.268804 / -104.494948)	07/28/22	6	0.8	N
WH-FS-01 @ 7' (40.268802 / -104.494927)	07/28/22	7	1.2	Y
(Y/N) = Yes or No ppm-v = parts per million by volume PID = Photoionization Detector				

TABLE 2  
 SOIL ANALYTICAL RESULTS SUMMARY  
 AVA STATE C #36-22  
 CLOSURE ASSESSMENT  
 40.268790 / -104.494921  
 NW1/4 SE1/4 SEC.36 T4N R64W 6PM  
 WELD COUNTY, COLORADO  
 API # 05-123-25677  
 REMEDIATION # 23682

Sample Location (Latitude/Longitude)	Date	Approximate Depth (feet)	PID Reading (ppm-v)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	TPH-GRO (mg/kg)	TPH-DRO (mg/kg)	TPH-RRO (mg/kg)	1,2,4-TMB (mg/kg)	1,3,5-TMB (mg/kg)	Boron (mg/L)	Specific Conductance (mmhos/cm)	pH (pH units)	SAR
<b>COGCC Table 915-1 Residential Screening Levels (mg/kg)</b>				1.20	490	5.8	58	500			30	27	2	<4	6-8.3	<6
<b>COGCC Table 915-1 Protection of Groundwater Soil Screening Levels</b>				0.0026	0.69	0.78	9.9	--			0.0081	0.0087	--	--	--	--
WH-FS-01 @ 7" (40.268802 / -104.494927)	07/28/22	7	1.2	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	<0.00200	<0.00200	<0.100	0.360	7.95	0.361
COGCC = Colorado Oil and Gas Conservation Commission mg/kg = milligrams per kilogram mmhos/cm = millimhos per centimeter PID = Photoionization Detector ppm-v = parts per million by volume mg/L = milligrams per liter SAR = Sodium Adsorption Ratio Note: Values presented with a less than symbol (<) did not contain concentrations at or above the laboratory reporting limit. Note: Values presented in <b>BOLD</b> contained concentrations exceeding COGCC Table 915-1 Regulatory Limits.																

TABLE 3  
PAH ANALYTICAL RESULTS SUMMARY  
AVA STATE C #36-22  
CLOSURE ASSESSMENT  
40.268790 / -104.494921  
NW1/4 SE1/4 SEC.36 T4N R64W 6PM  
WELD COUNTY, COLORADO  
API # 05-123-25677  
REMEDIAION # 23682

Sample Location (Latitude/Longitude)	Date	Approximate Depth (feet)	PID Reading (ppm- v)	1-Methyl- naphthalene (mg/kg)	2-Methyl-naphthalene (mg/kg)	Acenaphthene (mg/kg)	Anthracene (mg/kg)	Benzo(a)-anthracene (mg/kg)	Benzo(a)- pyrene (mg/kg)	Benzo(b)- fluoranthene (mg/kg)	Benzo(k)- fluoranthene (mg/kg)	Chrysene (mg/kg)	Dibenzo(a,h)- anthracene (mg/kg)	Fluoranthene (mg/kg)	Fluorene (mg/kg)	Indeno(1,2,3- cd)-pyrene (mg/kg)	Naphthalene (mg/kg)	Pyrene (mg/kg)
<b>COGCC Table 915-1 Residential Screening Levels</b>				<b>18</b>	<b>24</b>	<b>360</b>	<b>1,800</b>	<b>1.1</b>	<b>0.11</b>	<b>1.1</b>	<b>11</b>	<b>110</b>	<b>0.11</b>	<b>240</b>	<b>240</b>	<b>1.1</b>	<b>2</b>	<b>180</b>
<b>COGCC Table 915-1 Protection of Groundwater Soil Screening Levels</b>				<b>0.006</b>	<b>0.019</b>	<b>0.55</b>	<b>5.8</b>	<b>0.011</b>	<b>0.24</b>	<b>0.3</b>	<b>2.9</b>	<b>9</b>	<b>0.096</b>	<b>8.9</b>	<b>0.54</b>	<b>0.98</b>	<b>0.0038</b>	<b>1.3</b>
WH-FS-01 @ 7" (40.268802 / -104.494927)	07/28/22	7	1.2	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	0.000824

COGCC = Colorado Oil and Gas Conservation Commission      PID = Photoionization Detector  
mg/kg = milligrams per kilogram      ppm-v = parts per million by volume  
Note: Values presented with a less than symbol (<) did not contain concentrations at or above the laboratory reporting limit.  
Note: Values presented in **BOLD** contained concentrations exceeding COGCC Table 915-1 Regulatory Limits



## **ATTACHMENT A**

### **Photo Log**

Ava State C #36-22  
API # 05-123-25677  
Remediation # 23682

Closure Assessment

July 2022

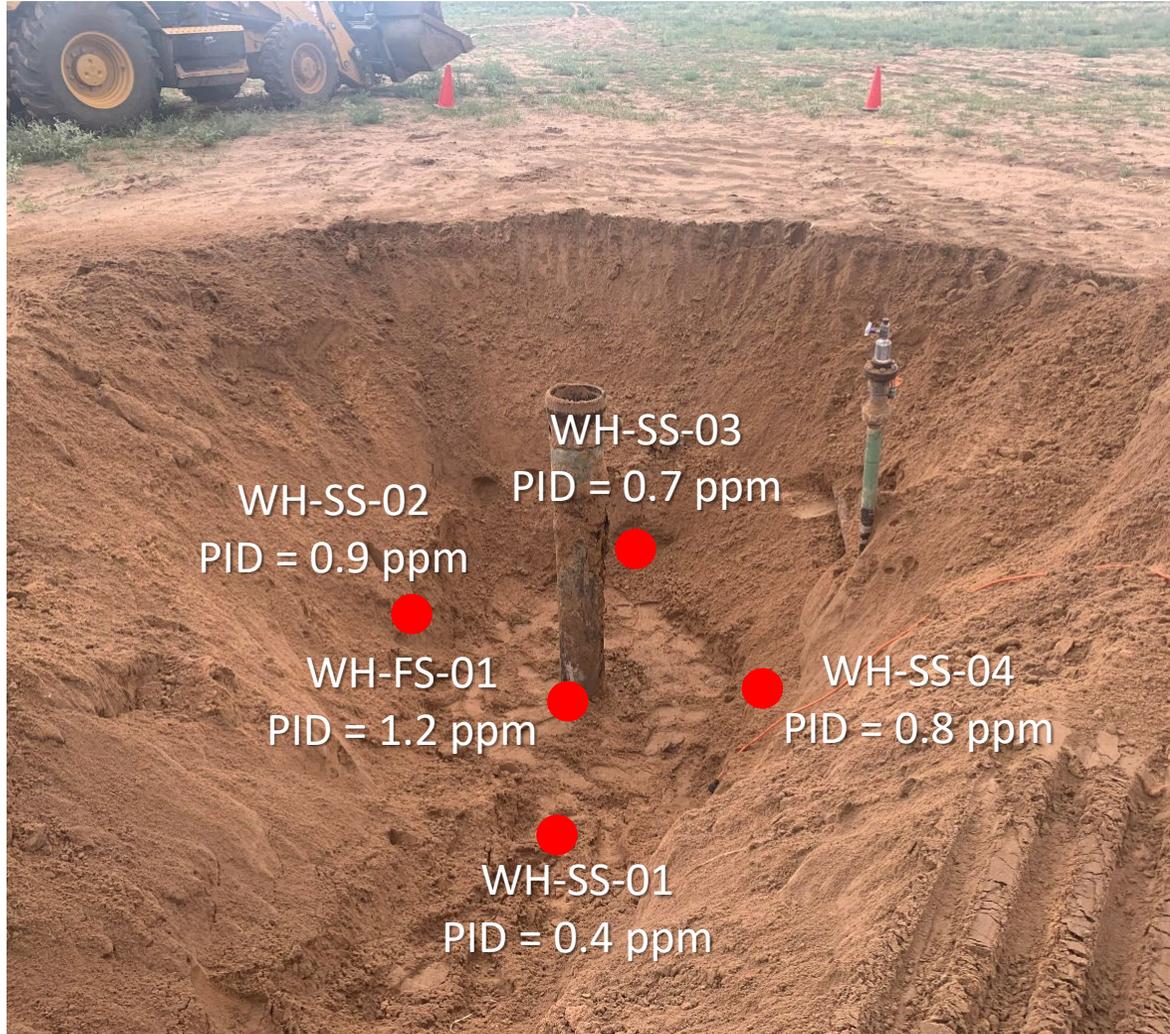


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# Wellhead Excavation – 07/28/22



Looking south

No petroleum hydrocarbon staining or odor observed



## **ATTACHMENT B**

### **Laboratory Analytical Report**



August 10, 2022

Eagle Environmental Consulting, Inc.

Martin C Eckert III

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - Noble - Ava State C #36-24

Project Number - -

Attached are your analytical results for Noble - Ava State C #36-24 received by Origins Laboratory, Inc. July 28, 2022. This project is associated with Origins project number Y207629-01.

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

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

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

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

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

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



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

Martin C Eckert III  
Project Number: -  
Project: Noble - Ava State C #36-24

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
WH-FS-01@7'	Y207629-01	Soil	July 28, 2022 8:04	07/28/2022 14:46

Origins Laboratory, Inc.



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



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

Martin C Eckert III  
 Project Number: -  
 Project: Noble - Ava State C #36-24

Origins Laboratory

Sample Receipt Checklist

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

Origins Work Order: Y207629

Client: EAGLE ENVIRONMENTAL  
 Client Project ID: AVA STATE C 36-22

Checklist Completed by: MS  
 Date/time completed: 7/29/22

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

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

Cooler Number/Temperature: L / 4.6 °C / \_\_\_\_\_ °C / \_\_\_\_\_ °C (Describe)

Thermometer ID: TOOK

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"/>			
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)

7/29/22  
 Date/Time Reviewed

Origins Laboratory, Inc.



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

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

Martin C Eckert III  
 Project Number: -  
 Project: Noble - Ava State C #36-24

**WH-FS-01@7'**  
**7/28/2022 8:04:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y207629-01 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	ND		0.100	mg/L	1	B2H0103	08/01/2022	08/02/2022	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND		25.0	mg/kg	1	B2H0111	08/02/2022	08/02/2022	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: *o*-Terphenyl 85.7 % 50-150 " " "

**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B2H0201	08/02/2022	08/02/2022	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 118 % 70-130 " " "

Origins Laboratory, Inc.



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

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

Martin C Eckert III  
 Project Number: -  
 Project: Noble - Ava State C #36-24

**WH-FS-01@7'**  
**7/28/2022 8:04:00AM**

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

**Origins Laboratory, Inc.**  
**Y207629-01 (Soil)**

**GBTEX+TMBs by 8260D**

Surrogate: Toluene-d8	104 %		70-130			B2H02 01	08/02/2022	08/02/2022	
Surrogate: 4-Bromofluorobenzene	99.8 %		70-130			"	"	"	

**Metals by Saturated Paste by EPA 6010**

Calcium	1.90		0.499	meq/L	10	[CALC]	08/01/2022	08/02/2022	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	ND		0.435	"	"	"	"	"	

**PAH by 8270D SIM**

1-Methylnaphthalene	ND	0.000364	0.00067	mg/Kg	1	L629870	08/02/2022	08/04/2022	
2-Methylnaphthalene	ND	0.000645	0.00067	"	"	"	"	"	
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"	
Anthracene	ND	0.000334	0.00067	"	"	"	"	"	
Benzo(a)anthracene	ND	0.000493	0.00067	"	"	"	"	"	
Benzo(a)pyrene	ND	0.000468	0.00067	"	"	"	"	"	
Benzo(b)fluoranthene	ND	0.000585	0.00067	"	"	"	"	"	
Benzo(k)fluoranthene	ND	0.000437	0.00067	"	"	"	"	"	
Chrysene	ND	0.000624	0.00067	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"	
Fluoranthene	ND	0.000394	0.00067	"	"	"	"	"	

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 8000 W 44th Ave  
 Wheat Ridge CO 80033

Martin C Eckert III  
 Project Number: -  
 Project: Noble - Ava State C #36-24

**WH-FS-01@7'**  
**7/28/2022 8:04:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Waypoint Analytical, Inc.**  
**Y207629-01 (Soil)**

**PAH by 8270D SIM**

Fluorene	ND	0.000286	0.00067	mg/Kg	1	L629870	08/02/2022	08/04/2022	
Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	"	"	"	"	"	
Naphthalene	ND	0.000484	0.00067	"	"	"	"	"	
Pyrene	<b>0.000824</b>	<b>0.000643</b>	0.00067	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	52.6 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	62.9 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	49.5 %		29-110			"	"	"	

**pH in Soil by 9045D**

pH	<b>7.95</b>			pH Units	1	B2H0105	08/01/2022	08/02/2022	
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**SAR by 20B Saturated Paste**

SAR	<b>0.361</b>			SAR	1	B2H0104	08/01/2022	08/02/2022	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	<b>0.360</b>		0.00500	mmhos/cm	1	B2H0105	08/01/2022	08/02/2022	
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Martin C Eckert III  
 Project Number: -  
 Project: Noble - Ava State C #36-24

**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
<b>Batch B2H0111 - EPA 3580</b>										
<b>Blank (B2H0111-BLK1)</b>										
					Prepared: 08/01/2022 Analyzed: 08/02/2022					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	23		"	24.9		91.4	50-150			

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Martin C Eckert III  
 Project Number: -  
 Project: Noble - Ava State C #36-24

**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 B2H0111 - EPA 3580**

**LCS (B2H0111-BS1)**

Prepared: 08/01/2022 Analyzed: 08/02/2022

Diesel (C10-C28)	838	50.0	mg/kg	1000		83.8	70-130			
Residual Range Organics (C28-C40)	838	200	"	1000		83.8	70-130			
Surrogate: o-Terphenyl	39		"	49.8		79.3	50-150			

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 Project: Noble - Ava State C #36-24

**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 B2H0111 - EPA 3580**

<b>Matrix Spike (B2H0111-MS1)</b>	<b>Source: Y207624-01</b>			Prepared: 08/01/2022 Analyzed: 08/02/2022						
Diesel (C10-C28)	938	50.0	mg/kg	1000	ND	93.8	70-130			
Residual Range Organics (C28-C40)	963	200	"	1000	ND	96.3	70-130			
Surrogate: o-Terphenyl	44		"	49.8		88.5	50-150			

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 Project Number: -  
 Project: Noble - Ava State C #36-24

**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 B2H0111 - EPA 3580**

<b>Matrix Spike Dup (B2H0111-MSD1)</b>	<b>Source: Y207624-01</b>			<b>Prepared: 08/01/2022 Analyzed: 08/02/2022</b>						
Diesel (C10-C28)	929	50.0	mg/kg	1000	ND	92.9	70-130	0.994	35	
Residual Range Organics (C28-C40)	965	200	"	1000	ND	96.5	70-130	0.249	35	
Surrogate: o-Terphenyl	49		"	49.8		98.6	50-150			

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Martin C Eckert III  
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 Project: Noble - Ava State C #36-24

**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 B2H0201 - EPA 5030 (soil)**

**Blank (B2H0201-BLK1)**

Prepared: 08/02/2022 Analyzed: 08/02/2022

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							U
1,3,5-Trimethylbenzene	ND	0.00200	"							U
Benzene	ND	0.00200	"							U
Ethylbenzene	ND	0.00200	"							U
Naphthalene	ND	0.0100	"							U
Toluene	ND	0.00200	"							U
Xylenes, total	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125	110		70-130			
Surrogate: Toluene-d8	0.13		"	0.125	105		70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125	99.9		70-130			

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Martin C Eckert III  
 Project Number: -  
 Project: Noble - Ava State C #36-24

**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
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Batch B2H0201 - EPA 5030 (soil)

**LCS (B2H0201-BS1)**

Prepared: 08/02/2022 Analyzed: 08/02/2022

1,2,4-Trimethylbenzene	0.109	0.00200	mg/kg	0.100		109	70-130			
1,3,5-Trimethylbenzene	0.111	0.00200	"	0.100		111	70-130			
Benzene	0.103	0.00200	"	0.100		103	70-130			
Ethylbenzene	0.115	0.00200	"	0.100		115	70-130			
Naphthalene	0.120	0.0100	"	0.100		120	70-130			
Toluene	0.109	0.00200	"	0.100		109	70-130			
o-Xylene	0.119	0.00200	"	0.100		119	70-130			
m,p-Xylene	0.229	0.00400	"	0.200		114	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		110	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		106	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		107	70-130			

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Martin C Eckert III  
 Project Number: -  
 Project: Noble - Ava State C #36-24

**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
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Batch B2H0201 - EPA 5030 (soil)

Matrix Spike (B2H0201-MS1)	Source: Y207628-01			Prepared: 08/02/2022 Analyzed: 08/02/2022						
1,2,4-Trimethylbenzene	0.0997	0.00200	mg/kg	0.100	ND	99.7	70-130			
1,3,5-Trimethylbenzene	0.100	0.00200	"	0.100	ND	100	70-130			
Benzene	0.106	0.00200	"	0.100	ND	106	70-130			
Ethylbenzene	0.119	0.00200	"	0.100	ND	119	70-130			
Naphthalene	0.0987	0.0100	"	0.100	0.000580	98.1	70-130			
Toluene	0.111	0.00200	"	0.100	ND	111	70-130			
o-Xylene	0.122	0.00200	"	0.100	ND	122	70-130			
m,p-Xylene	0.236	0.00400	"	0.200	ND	118	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		114	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		107	70-130			
Surrogate: 4-Bromofluorobenzene	0.14		"	0.125		110	70-130			

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 Project: Noble - Ava State C #36-24

**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
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Batch B2H0201 - EPA 5030 (soil)

Matrix Spike Dup (B2H0201-MSD1)	Source: Y207628-01		Prepared: 08/02/2022 Analyzed: 08/02/2022							
1,2,4-Trimethylbenzene	0.0813	0.00200	mg/kg	0.100	ND	81.3	70-130	20.3	20	QR-02
1,3,5-Trimethylbenzene	0.0814	0.00200	"	0.100	ND	81.4	70-130	20.9	20	QR-02
Benzene	0.0959	0.00200	"	0.100	ND	95.9	70-130	9.97	20	
Ethylbenzene	0.0979	0.00200	"	0.100	ND	97.9	70-130	19.3	20	
Naphthalene	0.0846	0.0100	"	0.100	0.000580	84.0	70-130	15.4	20	
Toluene	0.101	0.00200	"	0.100	ND	101	70-130	9.48	20	
o-Xylene	0.103	0.00200	"	0.100	ND	103	70-130	17.2	20	
m,p-Xylene	0.194	0.00400	"	0.200	ND	97.1	70-130	19.4	20	
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		110	70-130			
Surrogate: Toluene-d8	0.14		"	0.125		109	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		108	70-130			

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Martin C Eckert III  
 Project Number: -  
 Project: Noble - Ava State C #36-24

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B2H0105 - NO PREP**

**Blank (B2H0105-BLK1)**

Prepared: 08/01/2022 Analyzed: 08/02/2022

Specific Conductance (EC)	0.00160	0.00500	mmhos/cm
pH	0.00		pH Units

**Duplicate (B2H0105-DUP1)**

**Source: Y207614-07**

Prepared: 08/01/2022 Analyzed: 08/02/2022

Specific Conductance (EC)	7.95	0.00500	mmhos/cm	7.34	8.04	25
pH	8.13		pH Units	8.15	0.246	25

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Martin C Eckert III  
 Project Number: -  
 Project: Noble - Ava State C #36-24

**PAH by 8270D SIM - Quality Control**  
**Waypoint Analytical, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch L629870 - 3550B**

<b>MSD (L 93383-MSD-L629870)</b>	<b>Source: 93383</b>			<b>Prepared: 08/02/2022 Analyzed: 08/04/2022</b>						
Naphthalene	0.0947	0.00242	mg/Kg	0.164	<0.00242	57.7	30-130	4.9	30	
Pyrene	0.119	0.00322	"	0.164	<0.00322	72.5	30-130	6.5	30	
Indeno(1,2,3-cd)pyrene	0.0903	0.00314	"	0.164	<0.00314	55	30-130	1.2	30	
Fluorene	0.111	0.00143	"	0.164	<0.00143	67.6	30-130	6.9	30	
Fluoranthene	0.119	0.00197	"	0.164	<0.00197	72.5	30-130	5.7	30	
Dibenz(a,h)anthracene	0.105	0.00307	"	0.164	<0.00307	64	30-130	0.9	30	
Chrysene	0.116	0.00312	"	0.164	<0.00312	70.7	30-130	5.8	30	
Benzo(k)fluoranthene	0.0868	0.00219	"	0.164	<0.00219	52.9	30-130	3.8	30	
Benzo(a)pyrene	0.11	0.00234	"	0.164	<0.00234	67	30-130	6.1	30	
1-Methylnaphthalene	0.0989	0.00182	"	0.164	<0.00182	60.3	30-130	5	30	
Benzo(a)anthracene	0.107	0.00247	"	0.164	<0.00247	65.2	30-130	8	30	
2-Methylnaphthalene	0.1	0.00323	"	0.164	<0.00323	60.9	30-130	3.9	30	
Anthracene	0.112	0.00167	"	0.164	<0.00167	68.2	30-130	6.8	30	
Acenaphthene	0.107	0.00152	"	0.164	<0.00152	65.2	30-130	6.3	30	
Benzo(b)fluoranthene	0.0919	0.00293	"	0.164	<0.00293	56	30-130	8	30	
<i>Surrogate: Nitrobenzene-d5</i>	52.2		"	0.329	163	52.2	29-110			
<i>Surrogate: 4-Terphenyl-d14</i>	73.8		"	0.329	257	73.8	33-122			
<i>Surrogate: 2-Fluorobiphenyl</i>	62.9		"	0.329	203	62.9	33-115			

<b>MS (L 93383-MS-L629870)</b>	<b>Source: 93383</b>			<b>Prepared: 08/02/2022 Analyzed: 08/04/2022</b>						
Benzo(k)fluoranthene	0.0902	0.00219	mg/Kg	0.165	<0.00219	54.6	30-130			
Chrysene	0.123	0.00312	"	0.165	<0.00312	74.5	30-130			
Dibenz(a,h)anthracene	0.106	0.00307	"	0.165	<0.00307	64.2	30-130			
Fluoranthene	0.126	0.00197	"	0.165	<0.00197	76.3	30-130			
Indeno(1,2,3-cd)pyrene	0.0914	0.00314	"	0.165	<0.00314	55.3	30-130			
Anthracene	0.12	0.00167	"	0.165	<0.00167	72.7	30-130			
Naphthalene	0.0995	0.00242	"	0.165	<0.00242	60.3	30-130			

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Martin C Eckert III  
 Project Number: -  
 Project: Noble - Ava State C #36-24

**PAH by 8270D SIM - Quality Control**  
**Waypoint Analytical, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch L629870 - 3550B**

MS (L 93383-MS-L629870)	Source: 93383			Prepared: 08/02/2022 Analyzed: 08/04/2022						
Fluorene	0.119	0.00143	mg/Kg	0.165	<0.00143	72.1	30-130			
Benzo(b)fluoranthene	0.0996	0.00293	"	0.165	<0.00293	60.3	30-130			
Benzo(a)anthracene	0.116	0.00247	"	0.165	<0.00247	70.3	30-130			
Acenaphthene	0.114	0.00152	"	0.165	<0.00152	69	30-130			
2-Methylnaphthalene	0.104	0.00323	"	0.165	<0.00323	63	30-130			
Pyrene	0.127	0.00322	"	0.165	<0.00322	76.9	30-130			
1-Methylnaphthalene	0.104	0.00182	"	0.165	<0.00182	63	30-130			
Benzo(a)pyrene	0.117	0.00234	"	0.165	<0.00234	70.9	30-130			
Surrogate: Nitrobenzene-d5	54.8		"	0.33	163	54.8	29-110			
Surrogate: 2-Fluorobiphenyl	65.7		"	0.33	203	65.7	33-115			
Surrogate: 4-Terphenyl-d14	78.7		"	0.33	257	78.7	33-122			

LCS (LCS-L629870)	Prepared: 08/02/2022 Analyzed: 08/04/2022									
Chrysene	0.114	0.000624	mg/Kg	0.167		68.2	30-130			
Benzo(k)fluoranthene	0.0979	0.000437	"	0.167		58.6	30-130			
Pyrene	0.119	0.000643	"	0.167		71.2	30-130			
Naphthalene	0.0998	0.000484	"	0.167		59.7	30-130			
Indeno(1,2,3-cd)pyrene	0.104	0.000627	"	0.167		62.2	30-130			
Fluorene	0.113	0.000286	"	0.167		67.6	30-130			
Benzo(b)fluoranthene	0.101	0.000585	"	0.167		60.4	30-130			
Dibenz(a,h)anthracene	0.112	0.000614	"	0.167		67	30-130			
1-Methylnaphthalene	0.102	0.000364	"	0.167		61	30-130			
Benzo(a)pyrene	0.119	0.000468	"	0.167		71.2	30-130			
Benzo(a)anthracene	0.117	0.000493	"	0.167		70	30-130			
Anthracene	0.117	0.000334	"	0.167		70	30-130			
Acenaphthene	0.109	0.000304	"	0.167		65.2	30-130			
2-Methylnaphthalene	0.103	0.000645	"	0.167		61.6	30-130			

Origins Laboratory, Inc.



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 Wheat Ridge CO 80033

Martin C Eckert III  
 Project Number: -  
 Project: Noble - Ava State C #36-24

**PAH by 8270D SIM - Quality Control**  
**Waypoint Analytical, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch L629870 - 3550B**

**LCS (LCS-L629870)**

Prepared: 08/02/2022 Analyzed: 08/04/2022

Fluoranthene	0.118	0.000394	mg/Kg	0.167		70.6	30-130			
Surrogate: Nitrobenzene-d5	60.3		"	0.333		60.3	29-110			
Surrogate: 4-Terphenyl-d14	75.6		"	0.333		75.6	33-122			
Surrogate: 2-Fluorobiphenyl	69.3		"	0.333		69.3	33-115			

**LRB (LRB-L629870)**

Prepared: 08/02/2022 Analyzed: 08/04/2022

Fluoranthene	ND	0.00067	mg/Kg				-			
Benzo(a)pyrene	ND	0.00067	"				-			
Pyrene	ND	0.00067	"				-			
Naphthalene	ND	0.00067	"				-			
Indeno(1,2,3-cd)pyrene	ND	0.00067	"				-			
Fluorene	ND	0.00067	"				-			
Dibenz(a,h)anthracene	ND	0.00067	"				-			
Chrysene	ND	0.00067	"				-			
Benzo(b)fluoranthene	ND	0.00067	"				-			
1-Methylnaphthalene	ND	0.00067	"				-			
Benzo(a)anthracene	ND	0.00067	"				-			
Anthracene	ND	0.00067	"				-			
Acenaphthene	ND	0.00067	"				-			
2-Methylnaphthalene	ND	0.00067	"				-			
Benzo(k)fluoranthene	ND	0.00067	"				-			
Surrogate: Nitrobenzene-d5	57.3		"	0.333		57.3	29-110			
Surrogate: 4-Terphenyl-d14	69.6		"	0.333		69.6	33-122			
Surrogate: 2-Fluorobiphenyl	60.6		"	0.333		60.6	33-115			

Origins Laboratory, Inc.



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

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Wheat Ridge CO 80033

Martin C Eckert III  
Project Number: -  
Project: Noble - Ava State C #36-24

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### Notes and Definitions

U Sample is Non-Detect.

QR-02 The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported on a wet weight basis.

Origins Laboratory, Inc.



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