

## 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
Site Name & COGCC Facility Number: <b>BAKEL STATE B #25-11</b>		Date: <b>8-30-22</b>		Remediation Project #: <b>20766</b>
Associated Wells: <b>05-123-17429</b>		Age of Site: <b>YEARS</b>		Number of Photos Attached: <b>1</b>
Location: (GPS coordinates of wellhead or southeastern most wellhead for multiple) <b>40.354139, -104.500500</b>				Estimated Facility Size (acres):

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

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

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

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

Wellhead(s)					
Well API	<b>05-123-17429</b>				
Age	<b>YEARS</b>				
Condition of surface around wellhead	<b>GOOD - PEK CREW</b>				
PID Readings	<b>N/A - EXCAVATED UPON ARRIVAL</b>				
Condition of subsurface (stationary present)	<b>GOOD</b>				
PID Readings	<b>1.5</b>	<b>1.1</b>	<b>1.2</b>	<b>2.3</b>	<b>2.4</b>
Sample taken? Location/Sample ID	<b>WH-SS-01</b>	<b>WH-SS-02</b>	<b>WH-SS-03</b>	<b>WH-SS-04</b>	<b>WH-FS-01</b>
Photo Number(s)	<b>SEE PHOTOLOG</b>				

Other observations regarding wellheads:  
**WELL CASING CUT/CAPPED FOLLOWING ASSESSMENT.**

#### Summary

Was impacted soil identified?		Yes - less than 10 cubic yards		Yes - more than 10 cubic yards	
<b>(No)</b>					
Total number of samples field screened: <b>5</b>			Total number of samples collected: <b>5</b>		
Highest PID Reading: <b>2.4</b>			Total number of samples submitted to lab for analysis: <b>1</b>		
If more than 10 cubic yards of impacted soil were observed:					
Vertical extent: <b>N/A</b>			Estimated spill volume:		
Lateral extent: <b>N/A</b>			Volume of soil removed:		
Is additional investigation required?					
Was groundwater encountered during the investigation?					
<b>(No)</b>		Yes - not impacted or in contact with impacted soils		Yes - groundwater impacted and/or in contact with impacted soils	
Measured depth to groundwater:			Was remedial groundwater removal conducted? Yes No		
Date Groundwater was encountered:			Commencement date of removal:		
Sheen on groundwater? Yes No		Volume of groundwater removed prior to sampling:			
Free product observed? Yes No		Volume of groundwater removed post sampling:			
Total number of samples collected:			Total Volume of groundwater removed:		
Total number of samples submitted to lab for analysis:					



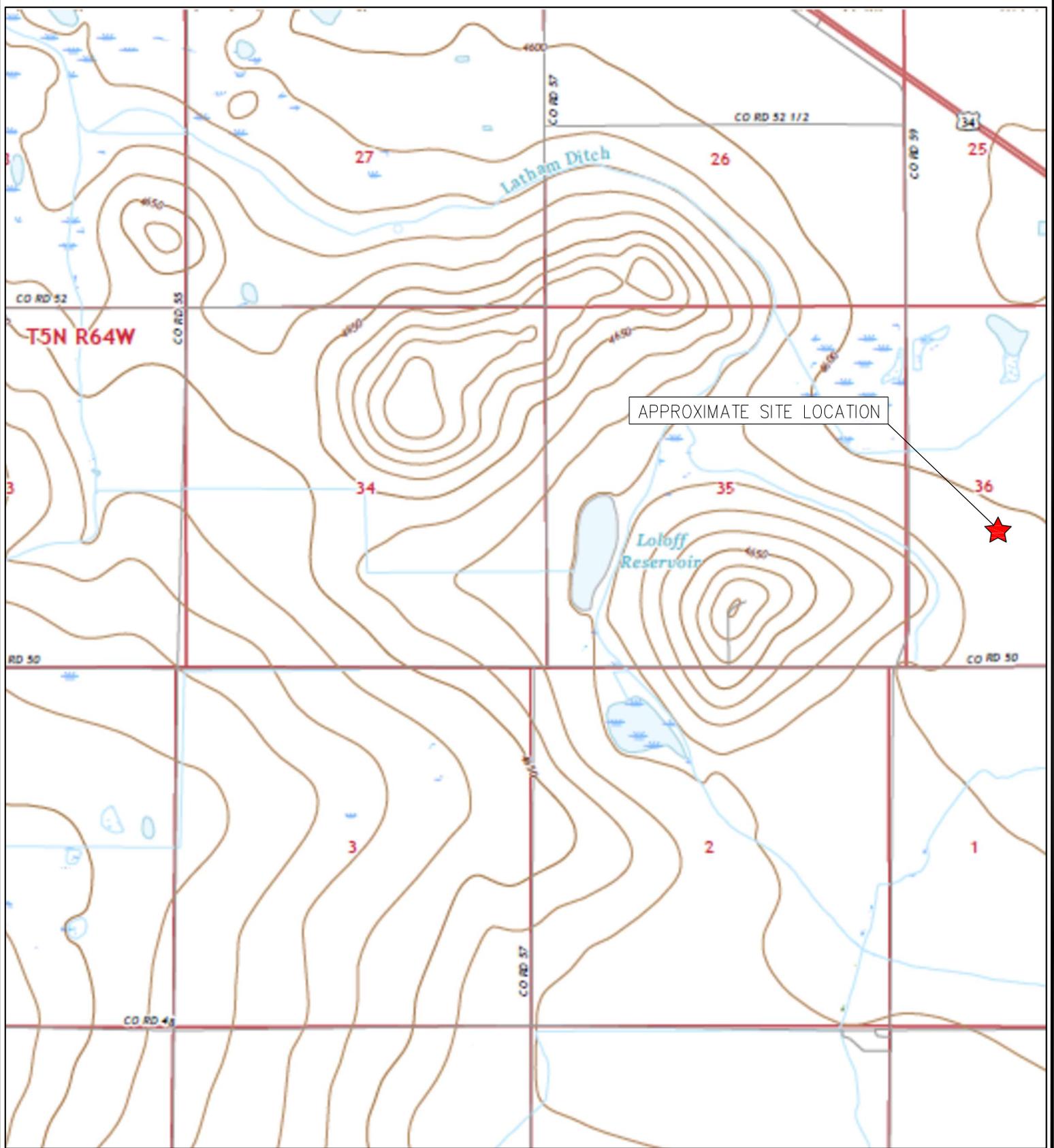
## **FIGURES**

**Figure 1: Topographic Site Location Map**

**Figure 2: Aerial Site Location Map**

**Figure 3: Soil Analytical Map**

**Figure 4: Polycyclic Aromatic Hydrocarbons Map**



APPROXIMATE SITE LOCATION



TOPOGRAPHIC SITE LOCATION MAP  
 BAKER STATE B #36-11  
 CLOSURE ASSESSMENT  
 40.354130 / -104.500500  
 NE¼ SW¼ SEC.36 T5N R64W 6PM  
 WELD COUNTY, COLORADO  
 API # 05-123-17429  
 REMEDIATION # 20766



**EAGLE**  
 ENVIRONMENTAL  
 CONSULTING, INC.

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

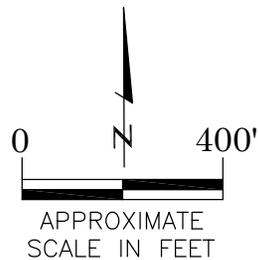
SOURCE: USGS 7.5 MINUTE TOPOGRAPHIC MAP, VALLEY VIEW SCHOOL, CO QUADRANGLE 2022

FIGURE 1



**LEGEND**

- FORMER BAKER STATE B #36-11 WELLHEAD (PLUGGED AND ABANDONED)
- ASSOCIATED SEPARATOR
- APPROXIMATE FLOWLINE LOCATION



AERIAL SITE LOCATION MAP  
 BAKER STATE B #36-11  
 CLOSURE ASSESSMENT  
 40.354130 / -104.500500  
 NE¼ SW¼ SEC.36 T5N R64W 6PM  
 WELD COUNTY, COLORADO  
 API # 05-123-17429  
 REMEDIATION # 20766

DRAWN BY:

CT

FIG. NO.

2

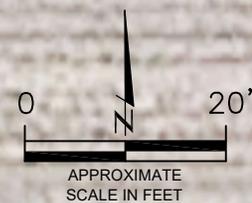


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WH-FS-01@6'  
 08/30/22  
 6'  
 B = <0.00200  
 T = <0.00200  
 E = <0.00200  
 X = <0.00200  
 G = <0.200  
 D = <25.0  
 R = <100  
 1,2,4-TMB = <0.00200  
 1,3,5-TMB = <0.00200  
 Brn= 0.496  
 EC = 1.19  
 SAR= 2.11  
 pH = 7.91



**LEGEND**

- WELLHEAD 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  
 BAKER STATE B #36-11  
 CLOSURE ASSESSMENT  
 40.354130 / -104.500500  
 NE¼ SW¼ SEC.36 T5N R64W 6PM  
 WELD COUNTY, COLORADO  
 API # 05-123-17429  
 REMEDIATION # 20766

DRAWN BY:  
CT

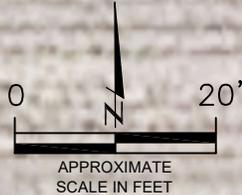
FIG. NO. 3

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WH-SS-01  
 WH-FS-01  
 WH-SS-04  
 WH-SS-02  
 WH-SS-03

WH-FS-01@6'  
 08/30/22  
 6'  
 ND = <0.00067  
 1-Methylnaphthalene = 0.000403  
 2-Methylnaphthalene = ND  
 Acenaphthene = ND  
 Anthracene = ND  
 Benzo(a)anthracene = ND  
 Benzo(a)pyrene = 0.00119  
 Benzo(b)fluoranthene = 0.00115  
 Benzo(k)fluoranthene = 0.000524  
 Chrysene = 0.00147  
 Dibenzo(a,h)anthracene = ND  
 Fluoranthene = 0.000832  
 Fluorene = ND  
 Indeno(1,2,3-CD)pyrene = 0.000847  
 Naphthalene = ND  
 Pyrene = 0.00109



**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  
 POLYCYCLIC AROMATIC HYDROCARBONS (PAHs) (mg/kg)

mg/kg = MILLIGRAMS PER KILOGRAM  
 ND = NON-DETECT

NOTE:  
 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

BAKER STATE B #36-11  
 CLOSURE ASSESSMENT  
 40.354130 / -104.500500  
 NE¼ SW¼ SEC.36 T5N R64W 6PM  
 WELD COUNTY, COLORADO  
 API # 05-123-17429  
 REMEDIATION # 20766

DRAWN BY:  
 CT

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**  
**BAKER STATE B #36-11**  
**CLOSURE ASSESSMENT**  
**40.354130 / -104.500500**  
**NE 1/4 SW 1/4 SEC.36 T5N R64W 6PM**  
**WELD COUNTY, COLORADO**  
**API # 05-123-17429**  
**REMEDIAION # 20766**

Sample Location (Latitude/Longitude)	Date	Approximate Depth (feet)	PID Reading (ppm-v)	Lab Submission (Y/N)
WH-SS-01 @ 5' (40.354162 / -104.500520)	08/30/22	5	1.5	N
WH-SS-02 @ 5' (40.354144 / -104.500496)	08/30/22	5	1.1	N
WH-SS-03 @ 5' (40.354124 / -104.500517)	08/30/22	5	1.2	N
WH-SS-04 @ 5' (40.354144 / -104.500541)	08/30/22	5	2.3	N
WH-FS-01 @ 6' (40.354147 / -104.500520)	08/30/22	6	2.4	Y
(Y/N) = Yes or No ppm-v = parts per million by volume PID = Photoionization Detector				

TABLE 2  
 SOIL ANALYTICAL RESULTS SUMMARY  
 BAKER STATE B #36-11  
 CLOSURE ASSESSMENT  
 40.354130 / -104.500500  
 NE 1/4 SW 1/4 SEC.36 T5N R64W 6PM  
 WELD COUNTY, COLORADO  
 API # 05-123-17429  
 REMEDIATION # 20766

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>				<b>1.20</b>	<b>490</b>	<b>5.8</b>	<b>58</b>	<b>500</b>			<b>30</b>	<b>27</b>	<b>2</b>	<b>&lt;4</b>	<b>6-8.3</b>	<b>&lt;6</b>
<b>COGCC Table 915-1 Protection of Groundwater Soil Screening Levels</b>				<b>0.0026</b>	<b>0.69</b>	<b>0.78</b>	<b>9.9</b>	<b>--</b>			<b>0.0081</b>	<b>0.0087</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>
WH-FS-01 @ 6' (40.354147 / -104.500520)	08/30/22	6	2.4	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	<0.00200	<0.00200	0.496	1.19	7.91	2.11
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  
POLYCYCLIC AROMATIC HYDROCARBONS ANALYTICAL RESULTS SUMMARY  
BAKER STATE B #36-11  
CLOSURE ASSESSMENT  
40.354130 / -104.500500  
NE 1/4 SW 1/4 SEC.36 T5N R64W 6PM  
WELD COUNTY, COLORADO  
API # 05-123-17429  
REMEDIACTION # 20766

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 @ 6' (40.354147 / -104.500520)	08/30/22	6	2.4	0.000403	<0.00067	<0.00067	<0.00067	<0.00067	0.00119	0.00115	0.000524	0.00147	<0.00067	0.000832	<0.00067	0.000847	<0.00067	0.00109
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 <b>BOLD</b> contained concentrations exceeding COGCC Table 915-1 Regulatory Limits.																		



## **ATTACHMENT A**

### **Photo Log**

Baker State B #36-11  
API # 05-123-17429  
Remediation # 20766

Closure Assessment

August 2022

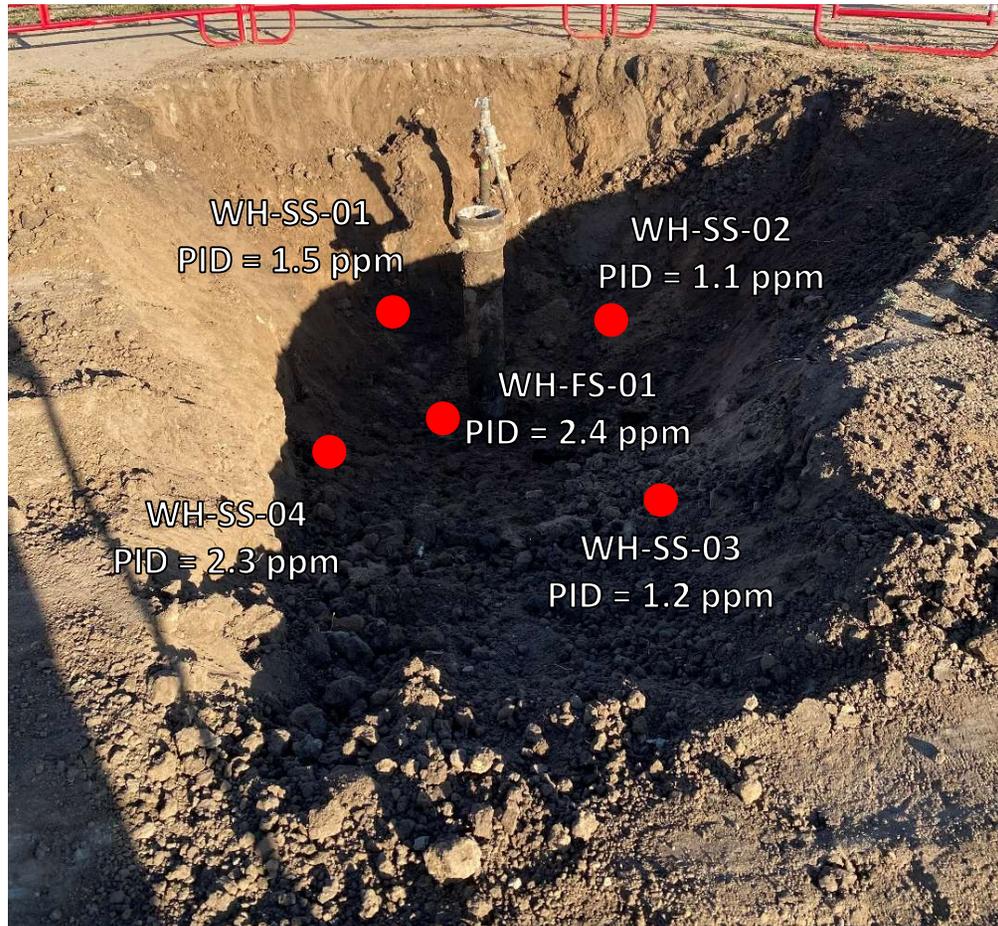


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Ph: 303-433-0479 • F: 303-325-5449



## Wellhead Excavation – 08/30/22



Looking northeast  
No petroleum hydrocarbon staining or odor observed



## **ATTACHMENT B**

### **Laboratory Analytical Report**



September 19, 2022

Eagle Environmental Consulting, Inc.

Martin C Eckert III

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - Noble - Baker State B #36-11

Project Number - [none]

Attached are your analytical results for Noble - Baker State B #36-11 received by Origins Laboratory, Inc. August 30, 2022. This project is associated with Origins project number Y208697-01.

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

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

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

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

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

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



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

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

Martin C Eckert III  
Project Number: [none]  
Project: Noble - Baker State B #36-11

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
WH-FS-01@6'	Y208697-01	Soil	August 30, 2022 8:03	08/30/2022 10:30

Origins Laboratory, Inc.



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



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

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - Baker State B #36-11

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: Y208697 Client: Eagle  
 Client Project ID: Baker State B#  
 Checklist Completed by: [Signature] Shipped Via: HD  
 Date/time completed: 8/30/22 (UPS, FedEx, Hand Delivered, Pick-up, etc.)  
 Airbill #: N/A  
 Matrix(s) Received: (Check all that apply):  Soil/Solid  Water  Other: \_\_\_\_\_  
 Cooler Number/Temperature: 1 / 9.1 °C  / \_\_\_\_\_ °C  / \_\_\_\_\_ °C (Describe) \_\_\_\_\_ °C  
 Thermometer ID: T004

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C <sup>(1)</sup> ?	<u>g</u>			
Is there ice present (document if blue ice is used)	<u>g</u>			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		<u>1</u>		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)		<u>g</u>		
Were all samples received intact <sup>(1)</sup> ?	<u>g</u>			
Was adequate sample volume provided <sup>(1)</sup> ?	<u>g</u>			
Are short holding time analytes or samples with HTs due within 48 hours present <sup>(1)</sup> ?		<u>x</u>		
Is a chain-of-custody (COC) present and filled out completely <sup>(1)</sup> ?	<u>g</u>			
Does the COC agree with the number and type of sample bottles received <sup>(1)</sup> ?	<u>g</u>			
Do the sample IDs on the bottle labels match the COC <sup>(1)</sup> ?	<u>g</u>			
Is the COC properly relinquished by the client with date and time recorded <sup>(1)</sup> ?	<u>g</u>			
For volatiles in water — is there headspace (> 1/4 inch bubble) present? If yes, contact client and note in narrative.			<u>g</u>	
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)			<u>g</u>	
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: 8/31/22

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

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - Baker State B #36-11

**WH-FS-01@6'**  
**8/30/2022 8:03:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y208697-01 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	0.496		0.0999	mg/L	1	B2H3105	08/31/2022	09/01/2022	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND		25.0	mg/kg	1	B2H3015	08/30/2022	09/14/2022	B, U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	81.1 %		50-150			"	"	"	
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B2H3123	08/31/2022	09/05/2022	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	98.8 %		70-130			"	"	"	
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Origins Laboratory, Inc.



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

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

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - Baker State B #36-11

**WH-FS-01@6'**

**8/30/2022 8:03:00AM**

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

**Origins Laboratory, Inc.**  
**Y208697-01 (Soil)**

**GBTEX+TMBs by 8260D**

Surrogate: Toluene-d8	95.3 %		70-130			B2H31 23	08/31/2022	09/05/2022	
Surrogate: 4-Bromofluorobenzene	93.9 %		70-130			"	"	"	

**Metals by Saturated Paste by EPA 6010**

Calcium	<b>4.33</b>		0.499	meq/L	10	[CALC]	08/31/2022	09/01/2022	
Magnesium	<b>2.44</b>		0.823	"	"	"	"	"	
Sodium	<b>3.88</b>		0.435	"	"	"	"	"	

**PAH by 8270D SIM**

1-Methylnaphthalene	<b>0.000403</b>	<b>0.000364</b>	0.00067	mg/Kg	1	L635307	09/01/2022	09/01/2022	J
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	<b>0.00119</b>	<b>0.000468</b>	0.00067	"	"	"	"	"	
Benzo(b)fluoranthene	<b>0.00115</b>	<b>0.000585</b>	0.00067	"	"	"	"	"	
Benzo(k)fluoranthene	<b>0.000524</b>	<b>0.000437</b>	0.00067	"	"	"	"	"	J
Chrysene	<b>0.00147</b>	<b>0.000624</b>	0.00067	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"	
Fluoranthene	<b>0.000832</b>	<b>0.000394</b>	0.00067	"	"	"	"	"	
Fluorene	ND	0.000286	0.00067	"	"	"	"	"	

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 Wheat Ridge CO 80033

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - Baker State B #36-11

**WH-FS-01@6'**

**8/30/2022 8:03:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Waypoint Analytical, LLC.**  
**Y208697-01 (Soil)**

**PAH by 8270D SIM**

Indeno(1,2,3-cd)pyrene	0.000847	0.000627	0.00067	mg/Kg	1	L635307	09/01/2022	09/01/2022	
Naphthalene	ND	0.000484	0.00067	"	"	"	"	"	
Pyrene	0.00109	0.000643	0.00067	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	58.9 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	61.3 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	60.7 %		29-110			"	"	"	

**pH in Soil by 9045D**

pH	7.91			pH Units	1	B2H3108	08/31/2022	09/01/2022	
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**SAR by 20B Saturated Paste**

SAR	2.11			SAR	1	B2H3102	08/31/2022	09/01/2022	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	1.19		0.00500	mmhos/cm	1	B2H3108	08/31/2022	09/01/2022	
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Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - Baker State B #36-11

**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 B2H3015 - EPA 3550B</b>										
<b>Blank (B2H3015-BLK1)</b>										
					Prepared: 08/30/2022 Analyzed: 09/03/2022					
Diesel (C10-C28)	38.9	25.0	mg/kg							B
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	29		"	24.9		117	50-150			

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Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - Baker State B #36-11

**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 B2H3015 - EPA 3550B**

**LCS (B2H3015-BS1)**

Prepared: 08/30/2022 Analyzed: 09/03/2022

Diesel (C10-C28)	513	25.0	mg/kg	500		103	70-130			
Residual Range Organics (C28-C40)	525	100	"	500		105	70-130			
Surrogate: o-Terphenyl	32		"	24.9		129	50-150			

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 Project Number: [none]  
 Project: Noble - Baker State B #36-11

**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 B2H3015 - EPA 3550B**

<b>Matrix Spike (B2H3015-MS1)</b>	<b>Source: Y208663-01</b>			Prepared: 08/30/2022 Analyzed: 09/03/2022						
Diesel (C10-C28)	606	25.0	mg/kg	500	88.2	104	70-130			
Residual Range Organics (C28-C40)	427	100	"	500	50.9	75.2	70-130			
Surrogate: o-Terphenyl	24		"	24.9		97.3	50-150			

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 Project: Noble - Baker State B #36-11

**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 B2H3015 - EPA 3550B</b>										
<b>Matrix Spike Dup (B2H3015-MSD1)</b>		<b>Source: Y208663-01</b>			Prepared: 08/30/2022 Analyzed: 09/03/2022					
Diesel (C10-C28)	646	25.0	mg/kg	500	88.2	112	70-130	6.42	35	
Residual Range Organics (C28-C40)	479	100	"	500	50.9	85.6	70-130	11.4	35	
Surrogate: o-Terphenyl	27		"	24.9		107	50-150			

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 Project Number: [none]  
 Project: Noble - Baker State B #36-11

**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 B2H3123 - EPA 5030 (soil)**

**Blank (B2H3123-BLK1)**

Prepared: 08/31/2022 Analyzed: 09/04/2022

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							U
1,3,5-Trimethylbenzene	ND	0.00200	"							U
Benzene	ND	0.00200	"							U
Ethylbenzene	ND	0.00200	"							U
Naphthalene	ND	0.00380	"							U
Toluene	ND	0.00200	"							U
Xylenes, total	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125	90.2		70-130			
Surrogate: Toluene-d8	0.12		"	0.125	99.3		70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125	92.7		70-130			

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Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - Baker State B #36-11

**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 B2H3123 - EPA 5030 (soil)

**LCS (B2H3123-BS1)**

Prepared: 08/31/2022 Analyzed: 09/04/2022

1,2,4-Trimethylbenzene	0.107	0.00200	mg/kg	0.100		107	70-130			
1,3,5-Trimethylbenzene	0.110	0.00200	"	0.100		110	70-130			
Benzene	0.103	0.00200	"	0.100		103	70-130			
Ethylbenzene	0.111	0.00200	"	0.100		111	70-130			
Naphthalene	0.0969	0.00380	"	0.100		96.9	70-130			
Toluene	0.0997	0.00200	"	0.100		99.7	70-130			
o-Xylene	0.109	0.00200	"	0.100		109	70-130			
m,p-Xylene	0.223	0.00400	"	0.200		112	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125		90.5	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		94.1	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		107	70-130			

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Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - Baker State B #36-11

**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 B2H3123 - EPA 5030 (soil)

Matrix Spike (B2H3123-MS1)	Source: Y208677-01			Prepared: 08/31/2022 Analyzed: 09/04/2022						
1,2,4-Trimethylbenzene	0.0776	0.00200	mg/kg	0.100	0.000880	76.7	70-130			
1,3,5-Trimethylbenzene	0.0796	0.00200	"	0.100	0.000520	79.0	70-130			
Benzene	0.0784	0.00200	"	0.100	ND	78.4	70-130			
Ethylbenzene	0.0845	0.00200	"	0.100	ND	84.5	70-130			
Naphthalene	0.0615	0.00380	"	0.100	0.00100	60.5	70-130			QM-07
Toluene	0.0752	0.00200	"	0.100	ND	75.2	70-130			
o-Xylene	0.0825	0.00200	"	0.100	0.000520	82.0	70-130			
m,p-Xylene	0.171	0.00400	"	0.200	0.00148	84.7	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125		85.8	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		94.2	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		106	70-130			

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Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - Baker State B #36-11

**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 B2H3123 - EPA 5030 (soil)

Matrix Spike Dup (B2H3123-MSD1)	Source: Y208677-01			Prepared: 08/31/2022 Analyzed: 09/04/2022						
1,2,4-Trimethylbenzene	0.0807	0.00200	mg/kg	0.100	0.000880	79.8	70-130	3.94	20	
1,3,5-Trimethylbenzene	0.0808	0.00200	"	0.100	0.000520	80.3	70-130	1.55	20	
Benzene	0.0832	0.00200	"	0.100	ND	83.2	70-130	5.84	20	
Ethylbenzene	0.0822	0.00200	"	0.100	ND	82.2	70-130	2.81	20	
Naphthalene	0.0727	0.00380	"	0.100	0.00100	71.7	70-130	16.8	20	
Toluene	0.0800	0.00200	"	0.100	ND	80.0	70-130	6.21	20	
o-Xylene	0.0825	0.00200	"	0.100	0.000520	82.0	70-130	0.0242	20	
m,p-Xylene	0.166	0.00400	"	0.200	0.00148	82.3	70-130	2.85	20	
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125		87.5	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		93.9	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		103	70-130			

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 8000 W 44th Ave  
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Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - Baker State B #36-11

**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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**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 B2H3102 - Default Prep Metals**

**Blank (B2H3102-BLK1)**

Prepared: 08/31/2022 Analyzed: 09/01/2022

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

**Duplicate (B2H3102-DUP1)**

Source: Y208673-03

Prepared: 08/31/2022 Analyzed: 09/01/2022

Calcium PPM	22.2	10.0	mg/L		27.6			21.5	50	
SAR	0.00		SAR		2.92			200	200	
Magnesium PPM	5.63	10.0	mg/L		6.95			21.0	50	
Sodium PPM	55.3	10.0	"		66.2			18.0	50	

**Batch B2H3105 - Default Prep Metals**

**Blank (B2H3105-BLK1)**

Prepared: 08/31/2022 Analyzed: 09/01/2022

Boron	ND	0.100	mg/L							
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**Duplicate (B2H3105-DUP1)**

Source: Y208673-03

Prepared: 08/31/2022 Analyzed: 09/01/2022

Boron	0.355	0.0989	mg/L		0.206			53.0	50	QR-DUP
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Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - Baker State B #36-11

**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 B2H3108 - NO PREP**

**Blank (B2H3108-BLK1)**

Prepared: 08/31/2022 Analyzed: 09/01/2022

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

**Duplicate (B2H3108-DUP1)**

**Source: Y208673-03**

Prepared: 08/31/2022 Analyzed: 09/01/2022

Specific Conductance (EC)	0.429	0.00500	mmhos/cm		0.520			19.1	25	
pH	8.11		pH Units		7.93			2.24	25	

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Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - Baker State B #36-11

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch L635307 - 3550B**

<b>MSD (L 83356-MSD-L635307)</b>		<b>Source: 83356</b>			Prepared: 09/01/2022 Analyzed: 09/01/2022					
Fluorene	0.0822	0.00067	mg/Kg	0.163	<0.000286	50.4	30-130	16.5	30	
1-Methylnaphthalene	0.0761	0.00067	"	0.163	<0.000364	46.6	30-130	17	30	
Pyrene	0.0847	0.00067	"	0.163	<0.000643	51.9	30-130	20.4	30	
Indeno(1,2,3-cd)pyrene	0.0729	0.00067	"	0.163	<0.000627	44.7	30-130	37.9	30	
Fluoranthene	0.0855	0.00067	"	0.163	<0.000394	52.4	30-130	18.5	30	
Dibenz(a,h)anthracene	0.128	0.00067	"	0.163	<0.000614	78.5	30-130	25.8	30	
Chrysene	0.0995	0.00067	"	0.163	<0.000624	61	30-130	11.8	30	
Naphthalene	0.078	0.00067	"	0.163	<0.000484	47.8	30-130	15.4	30	
2-Methylnaphthalene	0.0756	0.00067	"	0.163	<0.000645	46.3	30-130	16.7	30	
Benzo(k)fluoranthene	0.0941	0.00067	"	0.163	<0.000437	57.7	30-130	19.9	30	
Acenaphthene	0.0785	0.00067	"	0.163	<0.000304	48.1	30-130	16.6	30	
Anthracene	0.0887	0.00067	"	0.163	<0.000334	54.4	30-130	16.8	30	
Benzo(a)anthracene	0.0868	0.00067	"	0.163	<0.000493	53.2	30-130	19.9	30	
Benzo(a)pyrene	0.0969	0.00067	"	0.163	<0.000468	59.4	30-130	15.3	30	
Benzo(b)fluoranthene	0.0512	0.00067	"	0.163	<0.000585	31.4	30-130	47.8	30	
Surrogate: 2-Fluorobiphenyl	46.4		"	0.327	159	46.4	33-115			
Surrogate: Nitrobenzene-d5	47.7		"	0.327	167	47.7	29-110			
Surrogate: 4-Terphenyl-d14	54.4		"	0.327	188	54.4	33-122			

<b>MS (L 83356-MS-L635307)</b>		<b>Source: 83356</b>			Prepared: 09/01/2022 Analyzed: 09/01/2022					
Benzo(k)fluoranthene	0.115	0.00067	mg/Kg	0.167	<0.000437	68.8	30-130			
Acenaphthene	0.0928	0.00067	"	0.167	<0.000304	55.5	30-130			
Naphthalene	0.0911	0.00067	"	0.167	<0.000484	54.5	30-130			
Indeno(1,2,3-cd)pyrene	0.107	0.00067	"	0.167	<0.000627	64	30-130			
Fluorene	0.097	0.00067	"	0.167	<0.000286	58	30-130			
Fluoranthene	0.103	0.00067	"	0.167	<0.000394	61.6	30-130			
Dibenz(a,h)anthracene	0.166	0.00067	"	0.167	<0.000614	99.4	30-130			

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 8000 W 44th Ave  
 Wheat Ridge CO 80033

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - Baker State B #36-11

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch L635307 - 3550B**

MS (L 83356-MS-L635307)	Source: 83356			Prepared: 09/01/2022 Analyzed: 09/01/2022						
Chrysene	0.112	0.00067	mg/Kg	0.167	<0.000624	67	30-130			
1-Methylnaphthalene	0.0903	0.00067	"	0.167	<0.000364	54	30-130			
Benzo(a)pyrene	0.113	0.00067	"	0.167	<0.000468	67.6	30-130			
Anthracene	0.105	0.00067	"	0.167	<0.000334	62.8	30-130			
Pyrene	0.104	0.00067	"	0.167	<0.000643	62.2	30-130			
2-Methylnaphthalene	0.0894	0.00067	"	0.167	<0.000645	53.5	30-130			
Benzo(b)fluoranthene	0.0834	0.00067	"	0.167	<0.000585	49.9	30-130			
Benzo(a)anthracene	0.106	0.00067	"	0.167	<0.000493	63.4	30-130			
Surrogate: Nitrobenzene-d5	55.2		"	0.333	167	55.2	29-110			
Surrogate: 4-Terphenyl-d14	64.8		"	0.333	188	64.8	33-122			
Surrogate: 2-Fluorobiphenyl	52.5		"	0.333	159	52.5	33-115			

LCS (LCS-L635307)	Prepared: 09/01/2022 Analyzed: 09/01/2022									
Chrysene	0.121	0.00067	mg/Kg	0.167		72.4	30-130			
Dibenz(a,h)anthracene	0.182	0.00067	"	0.167		109	30-130			
Fluoranthene	0.115	0.00067	"	0.167		68.8	30-130			
Fluorene	0.106	0.00067	"	0.167		63.4	30-130			
Indeno(1,2,3-cd)pyrene	0.141	0.00067	"	0.167		84.4	30-130			
Naphthalene	0.0998	0.00067	"	0.167		59.7	30-130			
Pyrene	0.115	0.00067	"	0.167		68.8	30-130			
Benzo(k)fluoranthene	0.135	0.00067	"	0.167		80.8	30-130			
Benzo(a)pyrene	0.128	0.00067	"	0.167		76.6	30-130			
Benzo(a)anthracene	0.12	0.00067	"	0.167		71.8	30-130			
Anthracene	0.116	0.00067	"	0.167		69.4	30-130			
Acenaphthene	0.1	0.00067	"	0.167		59.8	30-130			
2-Methylnaphthalene	0.0971	0.00067	"	0.167		58.1	30-130			
1-Methylnaphthalene	0.098	0.00067	"	0.167		58.6	30-130			

Origins Laboratory, Inc.



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

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - Baker State B #36-11

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch L635307 - 3550B**

**LCS (LCS-L635307)**

Prepared: 09/01/2022 Analyzed: 09/01/2022

Benzo(b)fluoranthene	0.107	0.00067	mg/Kg	0.167		64	30-130			
Surrogate: Nitrobenzene-d5	66.3		"	0.333		66.3	29-110			
Surrogate: 4-Terphenyl-d14	78.9		"	0.333		78.9	33-122			
Surrogate: 2-Fluorobiphenyl	63.3		"	0.333		63.3	33-115			

**LRB (LRB-L635307)**

Prepared: 09/01/2022 Analyzed: 09/01/2022

Chrysene	ND	0.00067	mg/Kg				-			
Dibenz(a,h)anthracene	ND	0.00067	"				-			
Fluoranthene	ND	0.00067	"				-			
Fluorene	ND	0.00067	"				-			
Benzo(k)fluoranthene	ND	0.00067	"				-			
Naphthalene	ND	0.00067	"				-			
Indeno(1,2,3-cd)pyrene	ND	0.00067	"				-			
Benzo(b)fluoranthene	ND	0.00067	"				-			
Benzo(a)pyrene	ND	0.00067	"				-			
Benzo(a)anthracene	ND	0.00067	"				-			
Acenaphthene	ND	0.00067	"				-			
2-Methylnaphthalene	ND	0.00067	"				-			
1-Methylnaphthalene	ND	0.00067	"				-			
Pyrene	ND	0.00067	"				-			
Anthracene	ND	0.00067	"				-			
Surrogate: Nitrobenzene-d5	61.5		"	0.333		61.5	29-110			
Surrogate: 4-Terphenyl-d14	72		"	0.333		72	33-122			
Surrogate: 2-Fluorobiphenyl	64.5		"	0.333		64.5	33-115			

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8000 W 44th Ave  
Wheat Ridge CO 80033

Martin C Eckert III  
Project Number: [none]  
Project: Noble - Baker State B #36-11

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**Notes and Definitions**

U Sample is Non-Detect.

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

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

J Estimated Value. Analyte below reported quantitation limit.

B Analyte is found in the associated blank as well as in the sample (CLP B-flag).

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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