

# Flowline Closure Checklist

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

Additional Attachments:		Tank Battery Closure		Wellhead Closure		Pit Closure		Partially Buried Vault Closure	
Site Name & COGCC Facility Number: Monfort Gilcrest K #8-9		Date: 07/21/23					Remediation Project #: 29270		
Associated Wells: 05-123-18038		Age of Site: years					Number of Photos Attached: 10		
Starting point: (GPS coordinates and descriptions) 40.324626 / -104.794475 (@ Wellhead)									
End point: (GPS coordinates and descriptions) 40.322897 / -104.796589 (@ Separator)									
USCS Soil Type: Clayey SAND					Estimated Depth to Groundwater: ~4-6'				
Hydrocarbon Impacted Soils / Spills: (Note estimated size and if impact appears to be surficial or extends to an unknown depth) Slight petroleum hydrocarbon odor observed on FL-SS-02. No staining 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									
<b>Flowlines</b>									
Flowline type	O, G, W								
Depth	~3'								
Age	years								
Length	~875'								
Construction Material	Steel								
Were flowlines pulled?	Partially Abandoned in Place								
Visual Integrity of lines	Good								
Visual impacts if trenched	Slight petroleum hydrocarbon odor observed on FL-SS-02. No staining observed.								
PID Readings if trenched	0.4 - 361.4								
Sample taken? Location/Sample ID#	FL-SS-01- FL-SS-10								
Photo Number(s)	See photo log								
Other observations regarding on location flowlines: Flowline partially abandoned in place from FL-SS-03 to FL-SS-10. Flowline Pt A, Pt B, and 3 COD assessed + lab analyzed.									
<b>Summary</b>									
Was impacted soil identified? No <span style="border: 1px solid black; border-radius: 50%; padding: 2px;">Yes - less than 10 cubic yards</span> Yes - more than 10 cubic yards									
Total number of samples field screened: 10					Total number of samples collected: 8				
Highest PID Reading: 361.4					Total number of samples submitted to lab for analysis: 8				
If more than 10 cubic yards of impacted soil were observed:									
Vertical extent:					Estimated spill volume:				
Lateral extent:					Volume of soil removed:				
Is additional investigation required?									
Was groundwater encountered during the investigation? <span style="border: 1px solid black; border-radius: 50%; padding: 2px;">No</span> 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:									

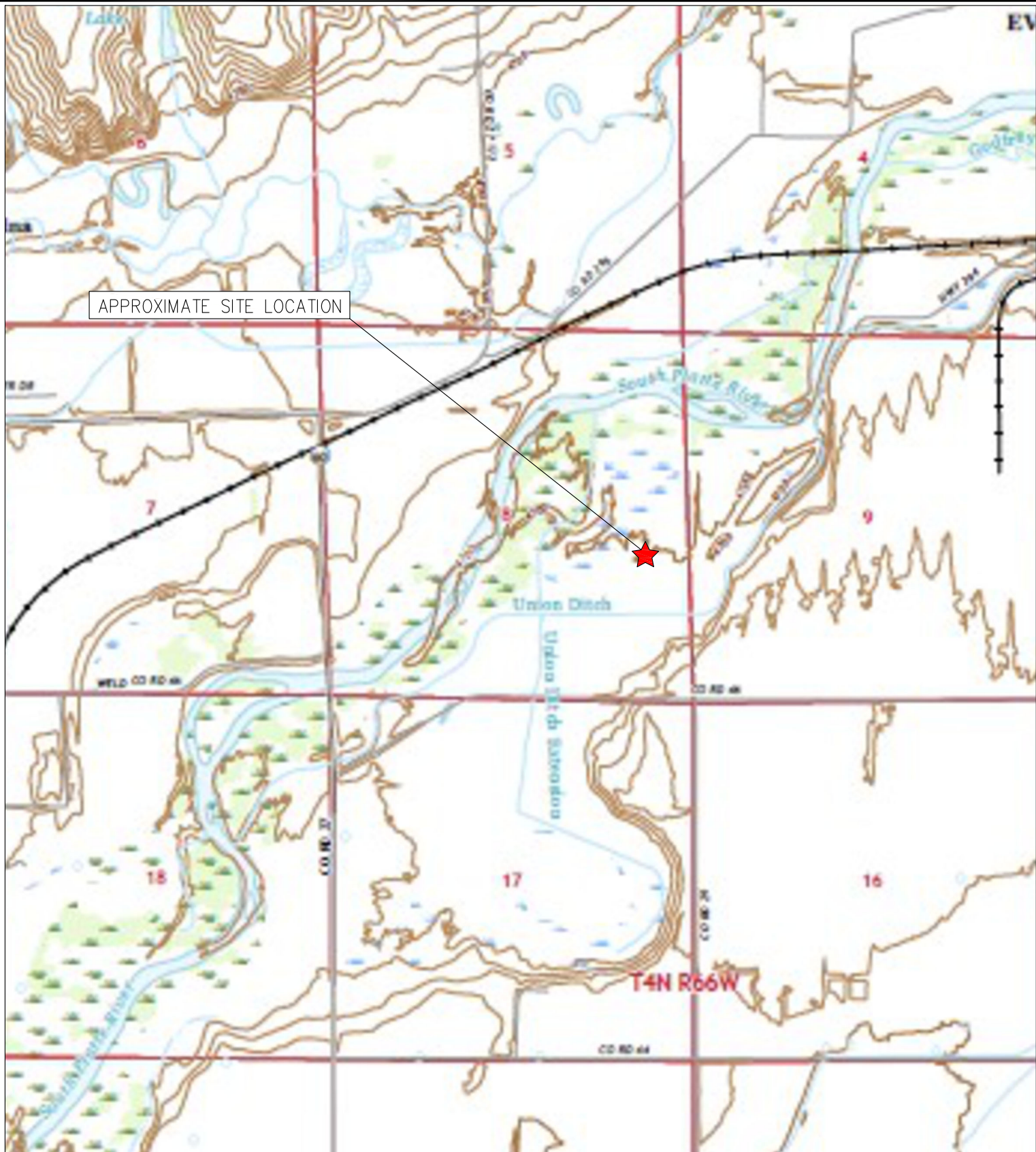


## **FIGURES**

**Figure 1: Topographic Site Location Map**

**Figure 2: Aerial Site Location Map**

**Figure 3: Soil Analytical Map**



TOPOGRAPHIC SITE LOCATION MAP  
 MONFORT GILCREST K #8-9  
 CLOSURE ASSESSMENT  
 40.324626 / -104.794475  
 NE¼ SE¼ SEC.8 T4N R66W 6PM  
 WELD COUNTY, COLORADO  
 API # 05-123-18038  
 REMEDIATION # 29270



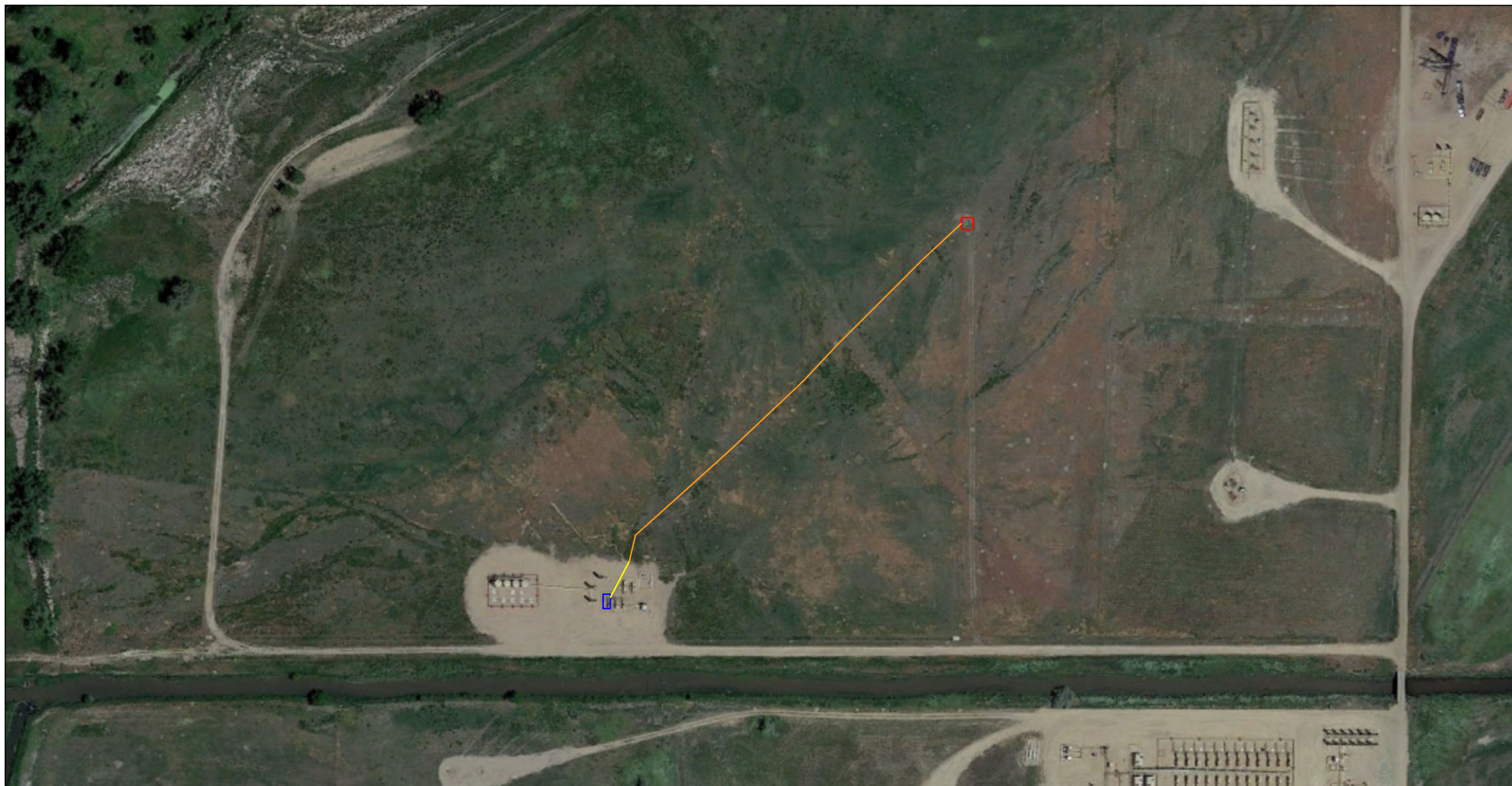
**EAGLE**  
 ENVIRONMENTAL  
 CONSULTING, LLC

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

SOURCE: USGS 7.5 MINUTE TOPOGRAPHIC MAP,  
 MILLIKEN, CO QUADRANGLE 2022

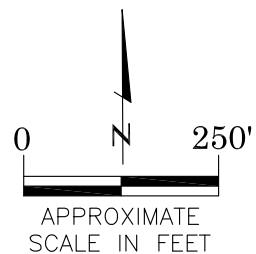
FIGURE NO. 1





# LEGEND

- MONFORT GILCREST K #8-9 WELLHEAD
- ASSOCIATED SEPARATOR
- APPROXIMATE FLOWLINE LOCATION (REMOVED)
- APPROXIMATE FLOWLINE LOCATION (ABANDONED IN PLACE)



AERIAL SITE LOCATION MAP  
 MONFORT GILCREST K #8-9  
 CLOSURE ASSESSMENT  
 40.324626 / -104.794475  
 NE¼ SE¼ SEC.8 T4N R66W 6PM  
 WELD COUNTY, COLORADO  
 API # 05-123-18038  
 REMEDIATION # 29270

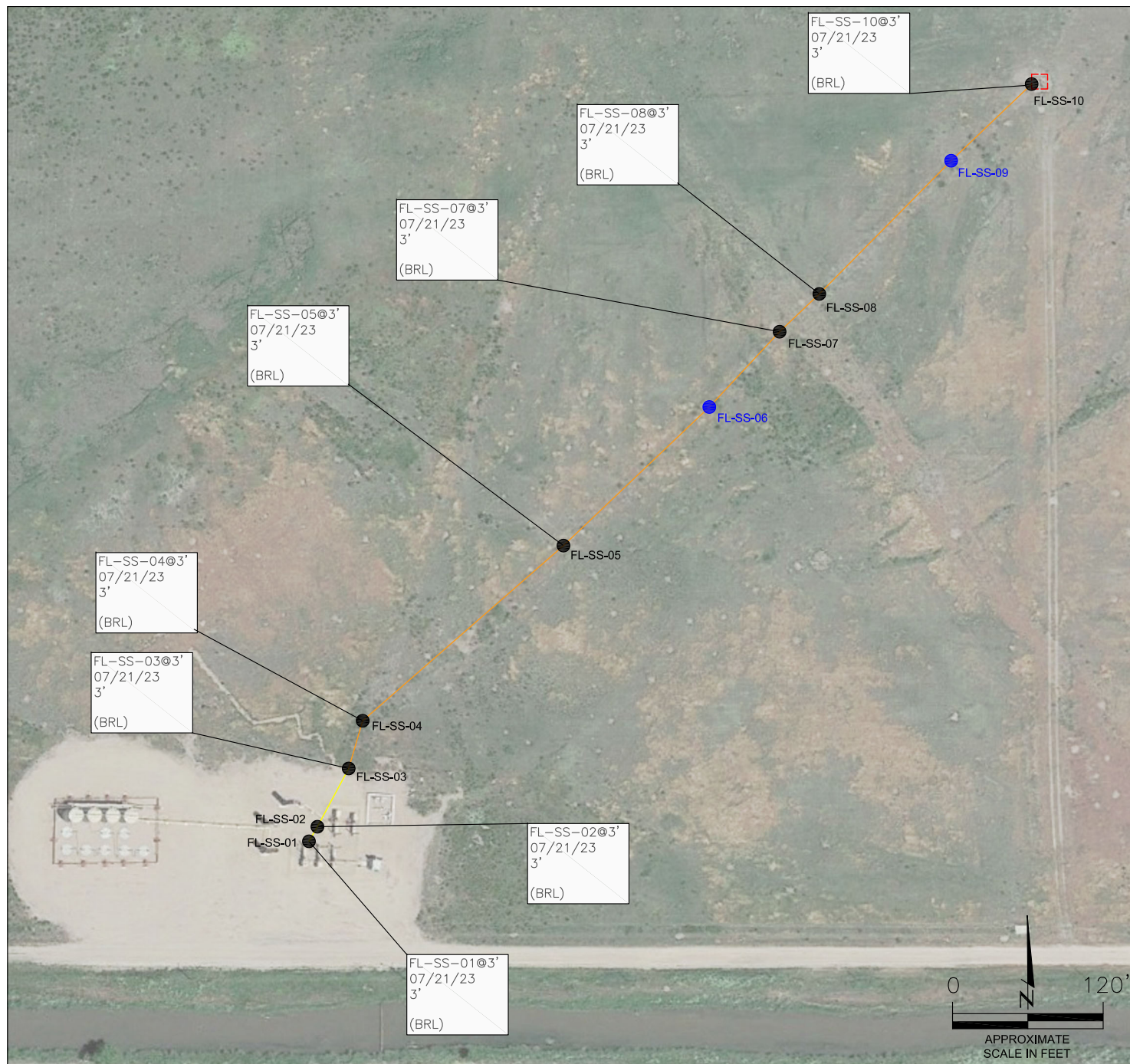
FIGURE NO.  
 2

DRAWN BY:  
 JF



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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 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
- APPROXIMATE FLOWLINE LOCATION (REMOVED)
- APPROXIMATE FLOWLINE LOCATION (ABANDONED IN PLACE)

## 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  
MONFORT GILCREST K #8-9  
CLOSURE ASSESSMENT  
40.324626 / -104.794475  
NE¼ SE¼ SEC.8 T4N R66W 6PM  
WELD COUNTY, COLORADO  
API # 05-123-18038  
REMEDATION # 29270

FIGURE NO.  
3

DRAWN BY:  
JF



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



## **TABLES**

**Table 1: Photoionization Detector Reading Summary**

**Table 2: Soil Analytical Results Summary**

**TABLE 1**  
**PHOTOIONIZATION DETECTOR READING SUMMARY**  
**MONFORT GILCREST K #8-9**  
**CLOSURE ASSESSMENT**  
**40.324626 / -104.794475**  
**NE¼ SE¼ SEC.8 T4N R66W 6PM**  
**WELD COUNTY, COLORADO**  
**API # 05-123-18038**  
**REMEDIALTION # 29270**

Sample Location (Latitude/Longitude)	Date	Approximate Depth (feet)	PID Reading (ppm-v)	Lab Submission (Y/N)
FL-SS-01 @ 3' (40.322909 / -104.796609)	07/21/23	3	31.3	Y
FL-SS-02 @ 3' (40.322952 / -104.796590)	07/21/23	3	361.4	Y
FL-SS-03 @ 3' (40.323076 / -104.796497)	07/21/23	3	2.3	Y
FL-SS-04 @ 3' (40.323172 / -104.796461)	07/21/23	3	1.1	Y
FL-SS-05 @ 3' (40.323571 / -104.795873)	07/21/23	3	1.2	Y
FL-SS-06 @ 3' (40.323886 / -104.795454)	07/21/23	3	0.4	N
FL-SS-07 @ 3' (40.324057 / -104.795247)	07/21/23	3	0.8	Y
FL-SS-08 @ 3' (40.324146 / -104.795135)	07/21/23	3	1.3	Y
FL-SS-09 @ 3' (40.324450 / -104.794740)	07/21/23	3	1.5	N
FL-SS-10 @ 3' (40.324625 / -104.794503)	07/21/23	3	0.5	Y
(Y/N) = Yes or No ppm-v = parts per million by volume PID = Photoionization Detector				

TABLE 2  
SOIL ANALYTICAL RESULTS SUMMARY  
MONFORT GILCREST K #8-9  
CLOSURE ASSESSMENT  
40.324626 / -104.794475  
NE¼ SEC.8 T4N R66W 6PM  
WELD COUNTY, COLORADO  
API # 05-123-18038  
REMEDIATION # 29270

Sample Location (Latitude / Longitude)		FL-SS-01 @ 3'		FL-SS-02 @ 3'		FL-SS-03 @ 3'		FL-SS-04 @ 3'		FL-SS-05 @ 3'		FL-SS-07 @ 3'		FL-SS-08 @ 3'		FL-SS-10 @ 3'	
		(40.322909 / -104.796609)		(40.322952 / -104.796590)		(40.323076 / -104.796497)		(40.323172 / -104.796461)		(40.323571 / -104.795873)		(4.324057 / -104.795247)		(40.324146 / -104.795135)		(40.324625 / -104.794503)	
Sample Date		7/21/2023		7/21/2023		7/21/2023		7/21/2023		7/21/2023		7/21/2023		7/21/2023		7/21/2023	
Sample Depth		3'		3'		3'		3'		3'		3'		3'		3'	
PID Reading (ppm-v)		31.3		361.4		2.3		1.1		1.2		0.8		1.3		0.5	
Regulatory Limits																	
		Units	ECMC Table 915-1 RSSLs	ECMC Table 915-1 GSSLs													
Chemical of Concern																	
VOCs																	
Benzene	mg/kg	1.2	0.0026	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200
Toluene	mg/kg	490	0.69	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200
Ethylbenzene	mg/kg	5.8	0.78	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200
Total Xylenes	mg/kg	58	9.9	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200
Naphthalene	mg/kg	2	0.0038	<0.00380	<0.00380	<0.00380	<0.00380	<0.00380	<0.00380	<0.00380	<0.00380	<0.00380	<0.00380	<0.00380	<0.00380	<0.00380	<0.00380
1,2,4-Trimethylbenzene	mg/kg	30	0.0081	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200
1,3,5-Trimethylbenzene	mg/kg	27	0.0087	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200
TOTAL PETROLEUM HYDROCARBONS																	
TPH-GRO	mg/kg	500	--	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200
TPH-DRO	mg/kg	500	--	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
TPH-RRO	mg/kg	500	--	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
POLYCYCLIC AROMATIC HYDROCARBONS																	
1-Methyl-naphthalene	mg/kg	18	0.006	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201
2-Methyl-naphthalene	mg/kg	24	0.019	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201
Acenaphthene	mg/kg	360	0.55	<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
Anthracene	mg/kg	1800	5.8	<0.00067	<0.00067	<0.00067	0.000365	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067
Benzo(a)-anthracene	mg/kg	1.1	0.011	0.00114	0.0012	0.00171	0.00254	0.00242	0.0018	0.00227	0.0018	0.00227	0.0018	0.00227	0.0018	0.00227	<0.00067
Benzo(a)-pyrene	mg/kg	0.11	0.24	0.00236	0.00257	0.00378	0.0043	0.00458	0.00394	0.00437	0.00394	0.00437	0.00394	0.00437	0.00394	0.00437	<0.00067
Benzo(b)-fluoranthene	mg/kg	1.1	0.3	0.00142	0.00178	0.00261	0.00276	0.00268	0.00212	0.00356	0.00212	0.00356	0.00212	0.00356	0.00212	0.00356	0.000771
Benzo(k)-fluoranthene	mg/kg	11	2.9	0.00081	0.000922	0.00126	0.00151	0.00139	0.00119	0.00206	0.00119	0.00206	0.00119	0.00206	0.00119	0.00206	<0.00067
Chrysene	mg/kg	110	9	0.002	0.00227	0.00313	0.00402	0.00442	0.0031	0.00405	0.0031	0.00405	0.0031	0.00405	0.0031	0.00405	0.00131
Dibenzo(a,h)-anthracene	mg/kg	0.11	0.096	<0.00067	<0.00067	<0.00067	0.000706	0.000799	<0.00067	0.00252	<0.00067	0.00252	<0.00067	0.00252	<0.00067	0.00252	<0.00067
Fluoranthene	mg/kg	240	8.9	0.00163	0.00154	0.00286	0.00392	0.00363	0.00293	0.00341	0.00293	0.00341	0.00293	0.00341	0.00293	0.00341	0.000734
Fluorene	mg/kg	240	0.54	<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
Indeno(1,2,3-cd)-pyrene	mg/kg	1.1	0.98	0.000928	0.00101	0.00198	0.00164	0.00163	0.00141	0.00266	0.00141	0.00266	0.00141	0.00266	0.00141	0.00266	<0.00067
Pyrene	mg/kg	180	1.3	0.00203	0.00205	0.00325	0.00475	0.00465	0.00324	0.00461	0.00324	0.00461	0.00324	0.00461	0.00324	0.00461	0.00075
SOIL SUITABILITY (Inorganics)																	
Boron	mg/L	2	--	0.123	0.204	1.24	1.41	1.22	1.41	1.25	1.41	1.25	1.41	1.25	1.41	1.25	0.199
pH	standard unit	6-8.3	--	7.87	7.95	8.02	8.16	8.11	8.05	8.21	8.05	8.21	8.05	8.21	8.05	8.21	8.01
Sodium Adsorption Ratio (SAR)	--	<6	--	0.113	0.283	2.23	3.79	2.25	1.54	4.16	1.54	4.16	1.54	4.16	1.54	4.16	0.115
Specific Conductance (EC)	mmhos/cm	<4	--	0.221	0.325	1.13	1.59	1.18	0.925	1.26	0.925	1.26	0.925	1.26	0.925	1.26	0.285
ECMC = Energy & Carbon Management 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 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 <b>BOLD</b> exceed ECMC Table 915-1 Regulatory Limits.																	





## **ATTACHMENT A**

### **Photo Log**

# Monfort Gilcrest K #8-9

API # 05-123-18038

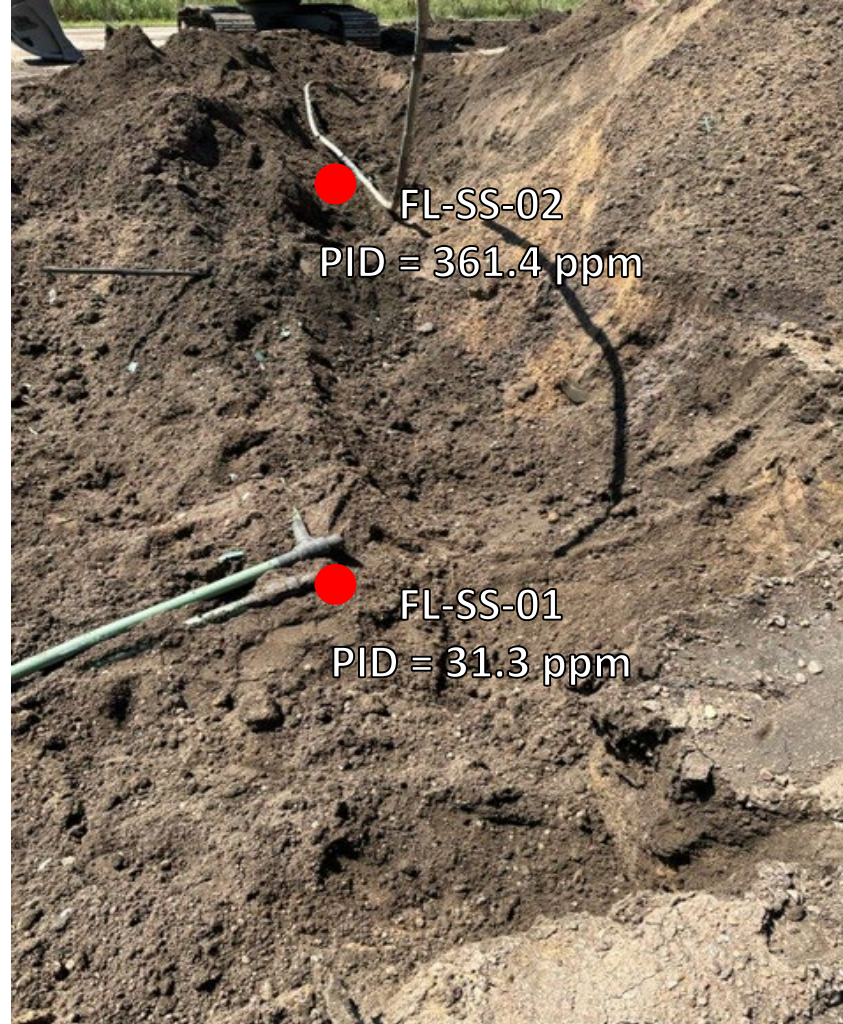
Remediation # 29270

Closure Assessment

July 2023



## Flowline Assessment – 07/21/23

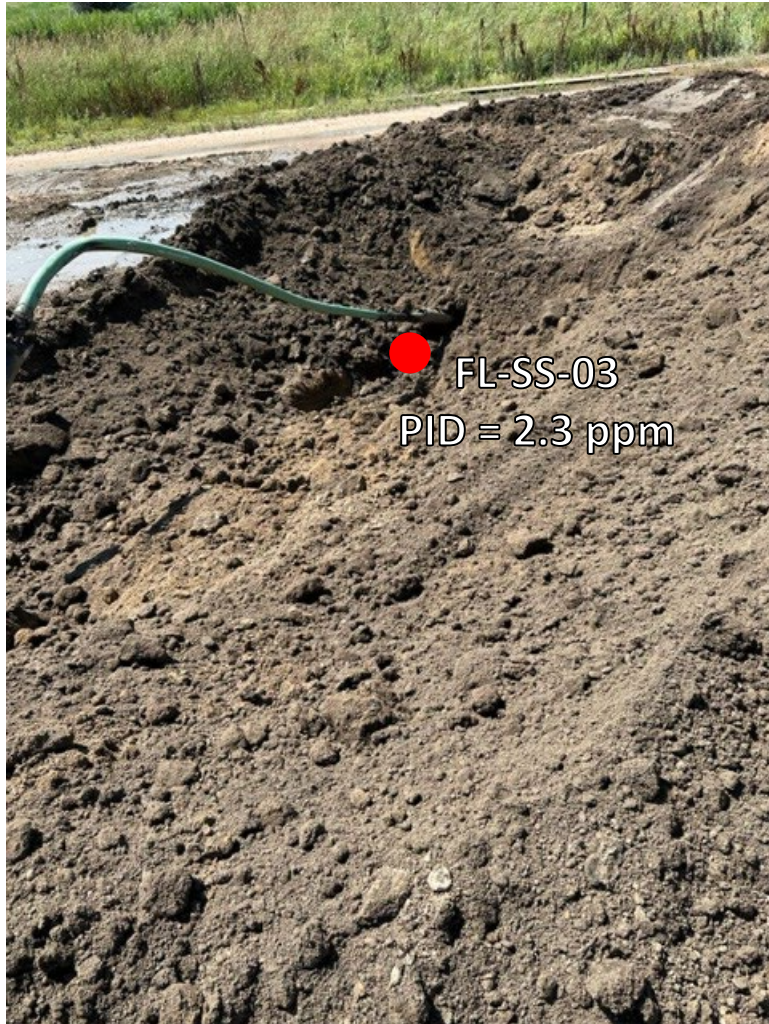


Looking north at flowline terminus/Pt B at separator and flowline change of direction

Slight petroleum hydrocarbon odor observed on FL-SS-02. No staining observed



## Flowline Assessment – 07/21/23



Looking north at flowline change of direction

No petroleum hydrocarbon staining or odor observed



Looking southwest at hand augured flowline change of direction

No petroleum hydrocarbon staining or odor observed



## Flowline Assessment – 07/21/23



Looking southwest at hand augured sample point

No petroleum hydrocarbon staining or odor observed



Looking southwest at hand augured sample point

No petroleum hydrocarbon staining or odor observed

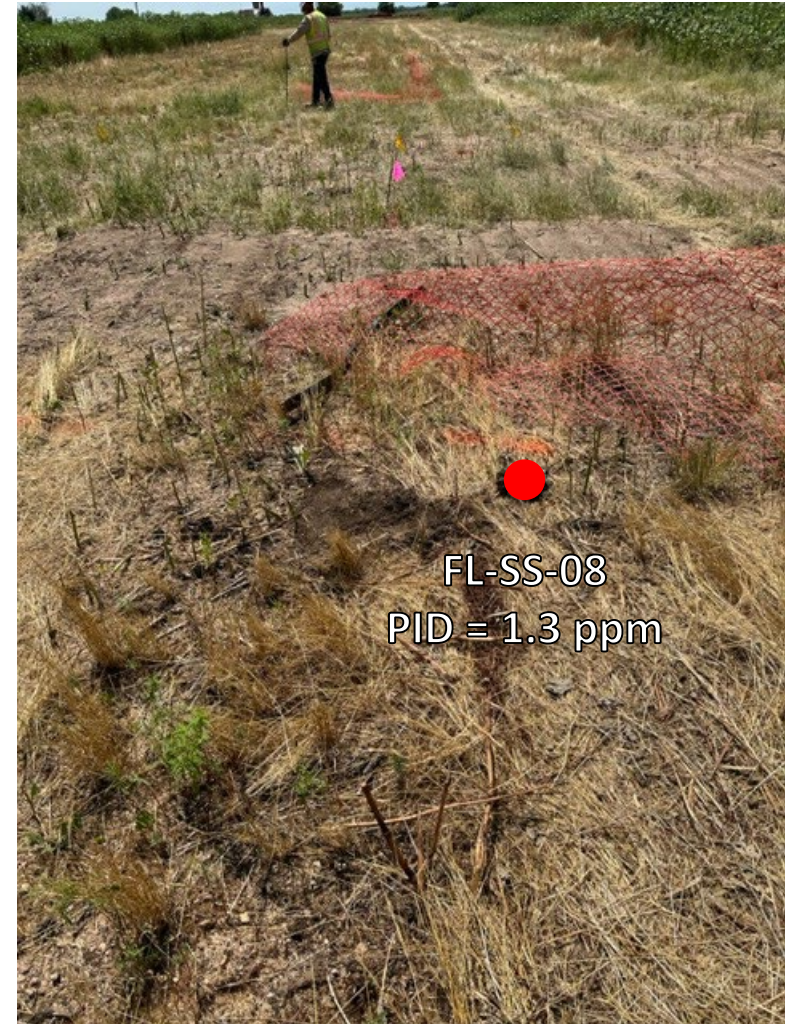


## Flowline Assessment – 07/21/23



Looking northeast at hand augured sample point

No petroleum hydrocarbon staining or odor observed



Looking southwest at hand augured sample point

No petroleum hydrocarbon staining or odor observed



## Flowline Assessment – 07/21/23



Looking southwest at hand augured sample point

No petroleum hydrocarbon staining or odor observed



Looking southwest at flowline Pt A at wellhead

No petroleum hydrocarbon staining or odor observed



## **ATTACHMENT B**

### **Laboratory Analytical Report**





July 31, 2023

Eagle Environmental Consulting, LLC

Martin C Eckert III

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - Noble - Monfort Gilcrest K #8-9

Project Number - [none]

Attached are your analytical results for Noble - Monfort Gilcrest K #8-9 received by Origins Laboratory, Inc. July 21, 2023. This project is associated with Origins project number Y307479-01.

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

Martin C Eckert III  
Project Number: [none]  
Project: Noble - Monfort Gilcrest K #8-9

## CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
FL-SS-01@3'	Y307479-01	Soil	July 21, 2023 11:30	07/21/2023 15:45
FL-SS-02@3'	Y307479-02	Soil	July 21, 2023 11:32	07/21/2023 15:45
FL-SS-03@3'	Y307479-03	Soil	July 21, 2023 10:20	07/21/2023 15:45
FL-SS-04@3'	Y307479-04	Soil	July 21, 2023 10:30	07/21/2023 15:45
FL-SS-05@3'	Y307479-05	Soil	July 21, 2023 10:40	07/21/2023 15:45
FL-SS-07@3'	Y307479-06	Soil	July 21, 2023 13:30	07/21/2023 15:45
FL-SS-08@3'	Y307479-07	Soil	July 21, 2023 13:40	07/21/2023 15:45
FL-SS-10@3'	Y307479-08	Soil	July 21, 2023 13:45	07/21/2023 15:45

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

Martin C Eckert III  
Project Number: [none]  
Project: Noble - Monfort Gilcrest K #8-9

Origins Laboratory

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

## Sample Receipt Checklist

Origins Work Order: 4307479

Client: Eagle  
Client Project ID: Monfort Gilcrest K #8-9

Checklist Completed by: ACN/SHS

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

Date/time completed: 7/21/23

Airbill #: N/A

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

Cooler Number/Temperature: 1 / 2 °C \_\_\_\_\_ / \_\_\_\_\_ °C \_\_\_\_\_ / \_\_\_\_\_ °C (Describe)

Thermometer ID: T004

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are short holding time analytes or samples with HTs due within 48 hours present <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Is a chain-of-custody (COC) present and filled out completely <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client with date and time recorded <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are samples preserved that require preservation and was it checked <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 type="checkbox"/>	<input type="checkbox"/>	<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)

Date/Time Reviewed 7/25/23

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

Martin C Eckert III  
Project Number: [none]  
Project: Noble - Monfort Gilcrest K #8-9

FL-SS-01@3'

7/21/2023 11:30:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y307479-01 (Soil)

**Boron (DTPA Sorbitol)**

Boron	0.123	0.0995	mg/L	1	B3G2507	07/25/2023	07/26/2023	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3G2421	07/24/2023	07/25/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	116 %	50-150			"	"	"	
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3G2418	07/24/2023	07/26/2023	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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Jordan A. Bynon, Project Manager

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

Martin C Eckert III  
Project Number: [none]  
Project: Noble - Monfort Gilcrest K #8-9

FL-SS-01@3'

7/21/2023 11:30:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y307479-01 (Soil)**

**GBTEX+TMBs by 8260D**

Surrogate: 1,2-Dichloroethane-d4	107 %		70-130			B3G24 18	07/24/2023	07/26/2023
Surrogate: Toluene-d8	98.0 %		70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	102 %		70-130			"	"	"

**Metals by Saturated Paste by EPA 6010**

Calcium	1.09		0.499	meq/L	10	[CALC]	07/24/2023	07/25/2023
Magnesium	ND		0.823	"	"	"	"	"
Sodium	ND		0.435	"	"	"	"	"

**PAH by 8270D SIM**

1-Methylnaphthalene	ND	0.00109	0.00201	mg/Kg	1	L695033	07/26/2023	07/27/2023
2-Methylnaphthalene	ND	0.00194	0.00201	"	"	"	"	"
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"
Anthracene	ND	0.000334	0.00067	"	"	"	"	"
Benzo(a)anthracene	0.00114	0.000493	0.00067	"	"	"	"	"
Benzo(a)pyrene	0.00236	0.000468	0.00067	"	"	"	"	"
Benzo(b)fluoranthene	0.00142	0.000585	0.00067	"	"	"	"	"
Benzo(k)fluoranthene	0.00081	0.000437	0.00067	"	"	"	"	"
Chrysene	0.002	0.000624	0.00067	"	"	"	"	"
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"
Fluoranthene	0.00163	0.000394	0.00067	"	"	"	"	"

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

Martin C Eckert III  
Project Number: [none]  
Project: Noble - Monfort Gilcrest K #8-9

FL-SS-01@3'

7/21/2023 11:30:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.  
Y307479-01 (Soil)

## PAH by 8270D SIM

Fluorene	ND	0.000286	0.00067	mg/Kg	1	L695033	07/26/2023	07/27/2023
Indeno(1,2,3-cd)pyrene	0.000928	0.000627	0.00067	"	"	"	"	"
Pyrene	0.00203	0.000643	0.00067	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	60.4 %		33-115			"	"	"
Surrogate: 4-Terphenyl-d14	58.6 %		33-122			"	"	"
Surrogate: Nitrobenzene-d5	49.2 %		29-110			"	"	"

## pH in Soil by 9045D

pH	7.87			pH Units	1	B3G2414	07/24/2023	07/25/2023
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## SAR by 20B Saturated Paste

SAR	0.113			SAR	1	B3G2409	07/24/2023	07/25/2023
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## Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.221		0.00500	mmhos/cm	1	B3G2414	07/24/2023	07/25/2023
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Origins Laboratory, Inc.



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

Martin C Eckert III  
Project Number: [none]  
Project: Noble - Monfort Gilcrest K #8-9

FL-SS-02@3'

7/21/2023 11:32:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y307479-02 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	0.204	0.0999	mg/L	1	B3G2507	07/25/2023	07/26/2023	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3G2421	07/24/2023	07/25/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	116 %	50-150			"	"	"	
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3G2418	07/24/2023	07/26/2023	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

Martin C Eckert III  
Project Number: [none]  
Project: Noble - Monfort Gilcrest K #8-9

FL-SS-02@3'

7/21/2023 11:32:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y307479-02 (Soil)**

**GBTEX+TMBs by 8260D**

Surrogate: 1,2-Dichloroethane-d4	108 %		70-130			B3G24 18	07/24/2023	07/26/2023	
Surrogate: Toluene-d8	95.5 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	105 %		70-130			"	"	"	

**Metals by Saturated Paste by EPA 6010**

Calcium	1.52		0.499	meq/L	10	[CALC]	07/24/2023	07/25/2023	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	ND		0.435	"	"	"	"	"	

**PAH by 8270D SIM**

1-Methylnaphthalene	ND	0.00109	0.00201	mg/Kg	1	L695033	07/26/2023	07/27/2023	
2-Methylnaphthalene	ND	0.00194	0.00201	"	"	"	"	"	
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"	
Anthracene	ND	0.000334	0.00067	"	"	"	"	"	
Benzo(a)anthracene	0.0012	0.000493	0.00067	"	"	"	"	"	
Benzo(a)pyrene	0.00257	0.000468	0.00067	"	"	"	"	"	
Benzo(b)fluoranthene	0.00178	0.000585	0.00067	"	"	"	"	"	
Benzo(k)fluoranthene	0.000922	0.000437	0.00067	"	"	"	"	"	
Chrysene	0.00227	0.000624	0.00067	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"	
Fluoranthene	0.00154	0.000394	0.00067	"	"	"	"	"	

Origins Laboratory, Inc.



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

Martin C Eckert III  
Project Number: [none]  
Project: Noble - Monfort Gilcrest K #8-9

FL-SS-02@3'

7/21/2023 11:32:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Waypoint Analytical, LLC.**  
**Y307479-02 (Soil)**

**PAH by 8270D SIM**

Fluorene	ND	0.000286	0.00067	mg/Kg	1	L695033	07/26/2023	07/27/2023
Indeno(1,2,3-cd)pyrene	0.00101	0.000627	0.00067	"	"	"	"	"
Pyrene	0.00205	0.000643	0.00067	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	61.8 %		33-115			"	"	"
Surrogate: 4-Terphenyl-d14	65.2 %		33-122			"	"	"
Surrogate: Nitrobenzene-d5	51.5 %		29-110			"	"	"

**pH in Soil by 9045D**

pH	7.95			pH Units	1	B3G2414	07/24/2023	07/25/2023
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**SAR by 20B Saturated Paste**

SAR	0.283			SAR	1	B3G2409	07/24/2023	07/25/2023
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.325		0.00500	mmhos/cm	1	B3G2414	07/24/2023	07/25/2023
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Origins Laboratory, Inc.



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

Martin C Eckert III  
Project Number: [none]  
Project: Noble - Monfort Gilcrest K #8-9

FL-SS-03@3'

7/21/2023 10:20:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y307479-03 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	1.24	0.0985	mg/L	1	B3G2507	07/25/2023	07/26/2023	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3G2421	07/24/2023	07/25/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	117 %	50-150	"	"	"	"	"	
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3G2418	07/24/2023	07/26/2023	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

Martin C Eckert III  
Project Number: [none]  
Project: Noble - Monfort Gilcrest K #8-9

FL-SS-03@3'

7/21/2023 10:20:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y307479-03 (Soil)**

**GBTEX+TMBs by 8260D**

Surrogate: 1,2-Dichloroethane-d4	108 %		70-130			B3G24 18	07/24/2023	07/26/2023	
Surrogate: Toluene-d8	99.4 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	104 %		70-130			"	"	"	

**Metals by Saturated Paste by EPA 6010**

Calcium	2.79		0.499	meq/L	10	[CALC]	07/24/2023	07/25/2023	
Magnesium	2.27		0.823	"	"	"	"	"	
Sodium	3.55		0.435	"	"	"	"	"	

**PAH by 8270D SIM**

1-Methylnaphthalene	ND	0.00109	0.00201	mg/Kg	1	L695033	07/26/2023	07/27/2023	
2-Methylnaphthalene	ND	0.00194	0.00201	"	"	"	"	"	
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"	
Anthracene	ND	0.000334	0.00067	"	"	"	"	"	
Benzo(a)anthracene	0.00171	0.000493	0.00067	"	"	"	"	"	
Benzo(a)pyrene	0.00378	0.000468	0.00067	"	"	"	"	"	
Benzo(b)fluoranthene	0.00261	0.000585	0.00067	"	"	"	"	"	
Benzo(k)fluoranthene	0.00126	0.000437	0.00067	"	"	"	"	"	
Chrysene	0.00313	0.000624	0.00067	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"	
Fluoranthene	0.00286	0.000394	0.00067	"	"	"	"	"	

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

Martin C Eckert III  
Project Number: [none]  
Project: Noble - Monfort Gilcrest K #8-9

FL-SS-03@3'

7/21/2023 10:20:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.  
Y307479-03 (Soil)

## PAH by 8270D SIM

Fluorene	ND	0.000286	0.00067	mg/Kg	1	L695033	07/26/2023	07/27/2023
Indeno(1,2,3-cd)pyrene	0.00198	0.000627	0.00067	"	"	"	"	"
Pyrene	0.00325	0.000643	0.00067	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	63.6 %		33-115			"	"	"
Surrogate: 4-Terphenyl-d14	62.3 %		33-122			"	"	"
Surrogate: Nitrobenzene-d5	50 %		29-110			"	"	"

## pH in Soil by 9045D

pH	8.02			pH Units	1	B3G2414	07/24/2023	07/25/2023
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## SAR by 20B Saturated Paste

SAR	2.23			SAR	1	B3G2409	07/24/2023	07/25/2023
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## Specific Conductance Mod. 9050A

Specific Conductance (EC)	1.13		0.00500	mmhos/cm	1	B3G2414	07/24/2023	07/25/2023
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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, LLC  
8000 W 44th Ave  
Wheat Ridge CO 80033

Martin C Eckert III  
Project Number: [none]  
Project: Noble - Monfort Gilcrest K #8-9

FL-SS-04@3'

7/21/2023 10:30:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y307479-04 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	1.41	0.0989	mg/L	1	B3G2507	07/25/2023	07/26/2023	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3G2421	07/24/2023	07/25/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	115 %	50-150	"	"	"	"	"	
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3G2418	07/24/2023	07/26/2023	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.



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

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

Martin C Eckert III  
Project Number: [none]  
Project: Noble - Monfort Gilcrest K #8-9

FL-SS-04@3'

7/21/2023 10:30:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y307479-04 (Soil)

## GBTEX+TMBs by 8260D

Surrogate: 1,2-Dichloroethane-d4	111 %		70-130			B3G24 18	07/24/2023	07/26/2023	
Surrogate: Toluene-d8	97.8 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	106 %		70-130			"	"	"	

## Metals by Saturated Paste by EPA 6010

Calcium	2.77		0.499	meq/L	10	[CALC]	07/24/2023	07/25/2023	
Magnesium	2.18		0.823	"	"	"	"	"	
Sodium	5.95		0.435	"	"	"	"	"	

## PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00109	0.00201	mg/Kg	1	L695033	07/26/2023	07/27/2023	
2-Methylnaphthalene	ND	0.00194	0.00201	"	"	"	"	"	
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"	
Anthracene	0.000365	0.000334	0.00067	"	"	"	"	"	J
Benzo(a)anthracene	0.00254	0.000493	0.00067	"	"	"	"	"	
Benzo(a)pyrene	0.0043	0.000468	0.00067	"	"	"	"	"	
Benzo(b)fluoranthene	0.00276	0.000585	0.00067	"	"	"	"	"	
Benzo(k)fluoranthene	0.00151	0.000437	0.00067	"	"	"	"	"	
Chrysene	0.00402	0.000624	0.00067	"	"	"	"	"	
Dibenz(a,h)anthracene	0.000706	0.000614	0.00067	"	"	"	"	"	
Fluoranthene	0.00392	0.000394	0.00067	"	"	"	"	"	

Origins Laboratory, Inc.



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

Martin C Eckert III  
Project Number: [none]  
Project: Noble - Monfort Gilcrest K #8-9

FL-SS-04@3'

7/21/2023 10:30:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.  
Y307479-04 (Soil)

## PAH by 8270D SIM

Fluorene	ND	0.000286	0.00067	mg/Kg	1	L695033	07/26/2023	07/27/2023
Indeno(1,2,3-cd)pyrene	0.00164	0.000627	0.00067	"	"	"	"	"
Pyrene	0.00475	0.000643	0.00067	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	67.8 %		33-115			"	"	"
Surrogate: 4-Terphenyl-d14	68.7 %		33-122			"	"	"
Surrogate: Nitrobenzene-d5	53.2 %		29-110			"	"	"

## pH in Soil by 9045D

pH	8.16			pH Units	1	B3G2414	07/24/2023	07/25/2023
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## SAR by 20B Saturated Paste

SAR	3.79			SAR	1	B3G2409	07/24/2023	07/25/2023
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## Specific Conductance Mod. 9050A

Specific Conductance (EC)	1.59		0.00500	mmhos/cm	1	B3G2414	07/24/2023	07/25/2023
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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, LLC  
8000 W 44th Ave  
Wheat Ridge CO 80033

Martin C Eckert III  
Project Number: [none]  
Project: Noble - Monfort Gilcrest K #8-9

FL-SS-05@3'

7/21/2023 10:40:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y307479-05 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	1.22	0.0993	mg/L	1	B3G2507	07/25/2023	07/26/2023	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3G2421	07/24/2023	07/25/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	104 %	50-150			"	"	"	
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3G2418	07/24/2023	07/26/2023	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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Jordan A. Bynon, Project Manager

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

Martin C Eckert III  
Project Number: [none]  
Project: Noble - Monfort Gilcrest K #8-9

FL-SS-05@3'

7/21/2023 10:40:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y307479-05 (Soil)**

**GBTEX+TMBs by 8260D**

Surrogate: 1,2-Dichloroethane-d4	111 %		70-130			B3G24 18	07/24/2023	07/26/2023	
Surrogate: Toluene-d8	96.7 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	106 %		70-130			"	"	"	

**Metals by Saturated Paste by EPA 6010**

Calcium	3.38		0.499	meq/L	10	[CALC]	07/24/2023	07/25/2023	
Magnesium	2.69		0.823	"	"	"	"	"	
Sodium	3.91		0.435	"	"	"	"	"	

**PAH by 8270D SIM**

1-Methylnaphthalene	ND	0.00109	0.00201	mg/Kg	1	L695033	07/26/2023	07/27/2023	
2-Methylnaphthalene	ND	0.00194	0.00201	"	"	"	"	"	
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"	
Anthracene	ND	0.000334	0.00067	"	"	"	"	"	
Benzo(a)anthracene	0.00242	0.000493	0.00067	"	"	"	"	"	
Benzo(a)pyrene	0.00458	0.000468	0.00067	"	"	"	"	"	
Benzo(b)fluoranthene	0.00268	0.000585	0.00067	"	"	"	"	"	
Benzo(k)fluoranthene	0.00139	0.000437	0.00067	"	"	"	"	"	
Chrysene	0.00442	0.000624	0.00067	"	"	"	"	"	
Dibenz(a,h)anthracene	0.000799	0.000614	0.00067	"	"	"	"	"	
Fluoranthene	0.00363	0.000394	0.00067	"	"	"	"	"	

Origins Laboratory, Inc.



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

Martin C Eckert III  
Project Number: [none]  
Project: Noble - Monfort Gilcrest K #8-9

FL-SS-05@3'

7/21/2023 10:40:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.  
Y307479-05 (Soil)

## PAH by 8270D SIM

Fluorene	ND	0.000286	0.00067	mg/Kg	1	L695033	07/26/2023	07/27/2023
Indeno(1,2,3-cd)pyrene	0.00163	0.000627	0.00067	"	"	"	"	"
Pyrene	0.00465	0.000643	0.00067	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	68.2 %		33-115			"	"	"
Surrogate: 4-Terphenyl-d14	68.8 %		33-122			"	"	"
Surrogate: Nitrobenzene-d5	53.2 %		29-110			"	"	"

## pH in Soil by 9045D

pH	8.11			pH Units	1	B3G2414	07/24/2023	07/25/2023
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## SAR by 20B Saturated Paste

SAR	2.25			SAR	1	B3G2409	07/24/2023	07/25/2023
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## Specific Conductance Mod. 9050A

Specific Conductance (EC)	1.18		0.00500	mmhos/cm	1	B3G2414	07/24/2023	07/25/2023
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Origins Laboratory, Inc.



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

Martin C Eckert III  
Project Number: [none]  
Project: Noble - Monfort Gilcrest K #8-9

FL-SS-07@3'

7/21/2023 1:30:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y307479-06 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	1.41	0.0990	mg/L	1	B3G2507	07/25/2023	07/26/2023	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3G2421	07/24/2023	07/25/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	111 %	50-150	"	"	"	"	"	
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3G2418	07/24/2023	07/26/2023	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

Martin C Eckert III  
Project Number: [none]  
Project: Noble - Monfort Gilcrest K #8-9

FL-SS-07@3'

7/21/2023 1:30:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y307479-06 (Soil)

## GBTEX+TMBs by 8260D

Surrogate: 1,2-Dichloroethane-d4	111 %		70-130			B3G24 18	07/24/2023	07/26/2023	
Surrogate: Toluene-d8	99.1 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	105 %		70-130			"	"	"	

## Metals by Saturated Paste by EPA 6010

Calcium	2.50		0.499	meq/L	10	[CALC]	07/24/2023	07/25/2023	
Magnesium	2.01		0.823	"	"	"	"	"	
Sodium	2.31		0.435	"	"	"	"	"	

## PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00109	0.00201	mg/Kg	1	L695033	07/26/2023	07/27/2023	
2-Methylnaphthalene	ND	0.00194	0.00201	"	"	"	"	"	
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"	
Anthracene	ND	0.000334	0.00067	"	"	"	"	"	
Benzo(a)anthracene	0.0018	0.000493	0.00067	"	"	"	"	"	
Benzo(a)pyrene	0.00394	0.000468	0.00067	"	"	"	"	"	
Benzo(b)fluoranthene	0.00212	0.000585	0.00067	"	"	"	"	"	
Benzo(k)fluoranthene	0.00119	0.000437	0.00067	"	"	"	"	"	
Chrysene	0.0031	0.000624	0.00067	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"	
Fluoranthene	0.00293	0.000394	0.00067	"	"	"	"	"	

Origins Laboratory, Inc.



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

Martin C Eckert III  
Project Number: [none]  
Project: Noble - Monfort Gilcrest K #8-9

FL-SS-07@3'

7/21/2023 1:30:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.  
Y307479-06 (Soil)

## PAH by 8270D SIM

Fluorene	ND	0.000286	0.00067	mg/Kg	1	L695033	07/26/2023	07/27/2023
Indeno(1,2,3-cd)pyrene	0.00141	0.000627	0.00067	"	"	"	"	"
Pyrene	0.00324	0.000643	0.00067	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	69.9 %		33-115			"	"	"
Surrogate: 4-Terphenyl-d14	66.6 %		33-122			"	"	"
Surrogate: Nitrobenzene-d5	54 %		29-110			"	"	"

## pH in Soil by 9045D

pH	8.05			pH Units	1	B3G2414	07/24/2023	07/25/2023
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## SAR by 20B Saturated Paste

SAR	1.54			SAR	1	B3G2409	07/24/2023	07/25/2023
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## Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.925		0.00500	mmhos/cm	1	B3G2414	07/24/2023	07/25/2023
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Origins Laboratory, Inc.



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

Martin C Eckert III  
Project Number: [none]  
Project: Noble - Monfort Gilcrest K #8-9

FL-SS-08@3'

7/21/2023 1:40:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y307479-07 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	1.25	0.0992	mg/L	1	B3G2507	07/25/2023	07/26/2023	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3G2421	07/24/2023	07/25/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	118 %	50-150	"	"	"	"	"	
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3G2418	07/24/2023	07/26/2023	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

Martin C Eckert III  
Project Number: [none]  
Project: Noble - Monfort Gilcrest K #8-9

FL-SS-08@3'

7/21/2023 1:40:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y307479-07 (Soil)

## GBTEX+TMBs by 8260D

Surrogate: 1,2-Dichloroethane-d4	113 %		70-130			B3G24 18	07/24/2023	07/26/2023	
Surrogate: Toluene-d8	98.2 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	104 %		70-130			"	"	"	

## Metals by Saturated Paste by EPA 6010

Calcium	2.34		0.499	meq/L	10	[CALC]	07/24/2023	07/25/2023	
Magnesium	2.24		0.823	"	"	"	"	"	
Sodium	6.30		0.435	"	"	"	"	"	

## PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00109	0.00201	mg/Kg	1	L695170	07/27/2023	07/27/2023	
2-Methylnaphthalene	ND	0.00194	0.00201	"	"	"	"	"	
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"	
Anthracene	ND	0.000334	0.00067	"	"	"	"	"	
Benzo(a)anthracene	0.00227	0.000493	0.00067	"	"	"	"	"	
Benzo(a)pyrene	0.00437	0.000468	0.00067	"	"	"	"	"	
Benzo(b)fluoranthene	0.00356	0.000585	0.00067	"	"	"	"	"	
Benzo(k)fluoranthene	0.00206	0.000437	0.00067	"	"	"	"	"	
Chrysene	0.00405	0.000624	0.00067	"	"	"	"	"	
Dibenz(a,h)anthracene	0.00252	0.000614	0.00067	"	"	"	"	"	
Fluoranthene	0.00341	0.000394	0.00067	"	"	"	"	"	

Origins Laboratory, Inc.



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

Martin C Eckert III  
Project Number: [none]  
Project: Noble - Monfort Gilcrest K #8-9

FL-SS-08@3'

7/21/2023 1:40:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.  
Y307479-07 (Soil)

## PAH by 8270D SIM

Fluorene	ND	0.000286	0.00067	mg/Kg	1	L695170	07/27/2023	07/27/2023
Indeno(1,2,3-cd)pyrene	0.00266	0.000627	0.00067	"	"	"	"	"
Pyrene	0.00461	0.000643	0.00067	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	51.5 %		33-115			"	"	"
Surrogate: 4-Terphenyl-d14	52.1 %		33-122			"	"	"
Surrogate: Nitrobenzene-d5	45.4 %		29-110			"	"	"

## pH in Soil by 9045D

pH	8.21			pH Units	1	B3G2414	07/24/2023	07/25/2023
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## SAR by 20B Saturated Paste

SAR	4.16			SAR	1	B3G2409	07/24/2023	07/25/2023
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## Specific Conductance Mod. 9050A

Specific Conductance (EC)	1.26		0.00500	mmhos/cm	1	B3G2414	07/24/2023	07/25/2023
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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, LLC  
8000 W 44th Ave  
Wheat Ridge CO 80033

Martin C Eckert III  
Project Number: [none]  
Project: Noble - Monfort Gilcrest K #8-9

FL-SS-10@3'

7/21/2023 1:45:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y307479-08 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	0.199	0.0998	mg/L	1	B3G2507	07/25/2023	07/26/2023	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3G2421	07/24/2023	07/25/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	115 %	50-150	"	"	"	"	"	
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3G2418	07/24/2023	07/26/2023	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.



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

Martin C Eckert III  
Project Number: [none]  
Project: Noble - Monfort Gilcrest K #8-9

FL-SS-10@3'

7/21/2023 1:45:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y307479-08 (Soil)

## GBTEX+TMBs by 8260D

Surrogate: 1,2-Dichloroethane-d4	110 %		70-130			B3G24 18	07/24/2023	07/26/2023
Surrogate: Toluene-d8	96.0 %		70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	105 %		70-130			"	"	"

## Metals by Saturated Paste by EPA 6010

Calcium	1.66		0.499	meq/L	10	[CALC]	07/24/2023	07/25/2023
Magnesium	ND		0.823	"	"	"	"	"
Sodium	ND		0.435	"	"	"	"	"

## PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00109	0.00201	mg/Kg	1	L695170	07/27/2023	07/27/2023
2-Methylnaphthalene	ND	0.00194	0.00201	"	"	"	"	"
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	0.000771	0.000585	0.00067	"	"	"	"	"
Benzo(k)fluoranthene	ND	0.000437	0.00067	"	"	"	"	"
Chrysene	0.00131	0.000624	0.00067	"	"	"	"	"
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"
Fluoranthene	0.000734	0.000394	0.00067	"	"	"	"	"

Origins Laboratory, Inc.



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

Martin C Eckert III  
Project Number: [none]  
Project: Noble - Monfort Gilcrest K #8-9

FL-SS-10@3'

7/21/2023 1:45:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.  
Y307479-08 (Soil)

## PAH by 8270D SIM

Fluorene	ND	0.000286	0.00067	mg/Kg	1	L695170	07/27/2023	07/27/2023
Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	"	"	"	"	"
Pyrene	0.00075	0.000643	0.00067	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	64 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	69.8 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	60.3 %	29-110	"	"	"

## pH in Soil by 9045D

pH	8.01	pH Units	1	B3G2414	07/24/2023	07/25/2023
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## SAR by 20B Saturated Paste

SAR	0.115	SAR	1	B3G2409	07/24/2023	07/25/2023
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## Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.285	0.00500	mmhos/cm	1	B3G2414	07/24/2023	07/25/2023
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Eagle Environmental Consulting, LLC  
8000 W 44th Ave  
Wheat Ridge CO 80033

Martin C Eckert III  
Project Number: [none]  
Project: Noble - Monfort Gilcrest K #8-9

**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 B3G2418 - EPA 5030 (soil)</b>										
<b>Blank (B3G2418-BLK1)</b>					Prepared: 07/24/2023 Analyzed: 07/25/2023					
1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							U
1,3,5-Trimethylbenzene	ND	0.00200	"							U
Benzene	ND	0.00200	"							U
Ethylbenzene	ND	0.00200	"							U
Naphthalene	ND	0.00380	"							U
Toluene	ND	0.00200	"							U
Xylenes, total	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125	101		70-130			
Surrogate: Toluene-d8	0.12		"	0.125	98.9		70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125	101		70-130			

Origins Laboratory, Inc.



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

Martin C Eckert III  
Project Number: [none]  
Project: Noble - Monfort Gilcrest K #8-9

## Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control

### Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B3G2418 - EPA 5030 (soil)										
LCS (B3G2418-BS1)					Prepared: 07/24/2023 Analyzed: 07/25/2023					
1,2,4-Trimethylbenzene	0.0977	0.00200	mg/kg	0.100		97.7	70-130			
1,3,5-Trimethylbenzene	0.0977	0.00200	"	0.100		97.7	70-130			
Benzene	0.0855	0.00200	"	0.100		85.5	70-130			
Ethylbenzene	0.0924	0.00200	"	0.100		92.4	70-130			
Naphthalene	0.0930	0.00380	"	0.100		93.0	70-130			
Toluene	0.0857	0.00200	"	0.100		85.7	70-130			
o-Xylene	0.0953	0.00200	"	0.100		95.3	70-130			
m,p-Xylene	0.185	0.00400	"	0.200		92.6	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		97.9	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		101	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		102	70-130			

Origins Laboratory, Inc.



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8000 W 44th Ave  
Wheat Ridge CO 80033

Martin C Eckert III  
Project Number: [none]  
Project: Noble - Monfort Gilcrest K #8-9

**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 B3G2418 - EPA 5030 (soil)</b>										
<b>Matrix Spike (B3G2418-MS1)</b>		<b>Source: Y307491-01</b>			Prepared: 07/24/2023 Analyzed: 07/26/2023					
1,2,4-Trimethylbenzene	0.0625	0.00200	mg/kg	0.0600	ND	104	70-130			
1,3,5-Trimethylbenzene	0.0619	0.00200	"	0.0600	ND	103	70-130			
Benzene	0.0557	0.00200	"	0.0600	ND	92.8	70-130			
Ethylbenzene	0.0589	0.00200	"	0.0600	ND	98.2	70-130			
Naphthalene	0.0630	0.00380	"	0.0600	ND	105	70-130			
Toluene	0.0559	0.00200	"	0.0600	ND	93.2	70-130			
o-Xylene	0.0610	0.00200	"	0.0600	ND	102	70-130			
m,p-Xylene	0.117	0.00400	"	0.120	ND	97.6	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		110	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.5	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		102	70-130			

Origins Laboratory, Inc.



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

Martin C Eckert III  
Project Number: [none]  
Project: Noble - Monfort Gilcrest K #8-9

## Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control

### Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B3G2418 - EPA 5030 (soil)										
Matrix Spike Dup (B3G2418-MSD1)			Source: Y307491-01		Prepared: 07/24/2023 Analyzed: 07/26/2023					
1,2,4-Trimethylbenzene	0.0623	0.00200	mg/kg	0.0600	ND	104	70-130	0.321	20	
1,3,5-Trimethylbenzene	0.0621	0.00200	"	0.0600	ND	104	70-130	0.290	20	
Benzene	0.0553	0.00200	"	0.0600	ND	92.2	70-130	0.685	20	
Ethylbenzene	0.0586	0.00200	"	0.0600	ND	97.6	70-130	0.545	20	
Naphthalene	0.0683	0.00380	"	0.0600	ND	114	70-130	8.01	20	
Toluene	0.0552	0.00200	"	0.0600	ND	92.0	70-130	1.37	20	
o-Xylene	0.0614	0.00200	"	0.0600	ND	102	70-130	0.523	20	
m,p-Xylene	0.118	0.00400	"	0.120	ND	98.4	70-130	0.850	20	
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		108	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.0	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		103	70-130			

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

Martin C Eckert III  
Project Number: [none]  
Project: Noble - Monfort Gilcrest K #8-9

## Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control

### Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B3G2421 - EPA 3550B										
Blank (B3G2421-BLK1)					Prepared: 07/24/2023 Analyzed: 07/24/2023					
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			

Origins Laboratory, Inc.



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8000 W 44th Ave  
Wheat Ridge CO 80033

Martin C Eckert III  
Project Number: [none]  
Project: Noble - Monfort Gilcrest K #8-9

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 B3G2421 - EPA 3550B

LCS (B3G2421-BS1)

Prepared: 07/24/2023 Analyzed: 07/24/2023

Diesel (C10-C28)	788	50.0	mg/kg	1000		78.8	70-130			
Residual Range Organics (C28-C40)	968	200	"	1000		96.8	70-130			
Surrogate: o-Terphenyl	57		"	49.8		115	50-150			

Origins Laboratory, Inc.



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Jordan A. Bynon, Project Manager



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

Martin C Eckert III  
Project Number: [none]  
Project: Noble - Monfort Gilcrest K #8-9

## 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 B3G2421 - EPA 3550B

Matrix Spike (B3G2421-MS1)		Source: Y307463-01			Prepared: 07/24/2023 Analyzed: 07/24/2023					
Diesel (C10-C28)	790	50.0	mg/kg	1000	ND	79.0	70-130			
Residual Range Organics (C28-C40)	993	200	"	1000	ND	99.3	70-130			
Surrogate: o-Terphenyl	58		"	49.8		116	50-150			

Origins Laboratory, Inc.



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Jordan A. Bynon, Project Manager

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

Martin C Eckert III  
Project Number: [none]  
Project: Noble - Monfort Gilcrest K #8-9

Extractable Petroleum Hydrocarbons by 8015D - Quality Control  
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B3G2421 - EPA 3550B										
Matrix Spike Dup (B3G2421-MSD1)		Source: Y307463-01			Prepared: 07/24/2023 Analyzed: 07/24/2023					
Diesel (C10-C28)	781	50.0	mg/kg	1000	ND	78.1	70-130	1.08	35	
Residual Range Organics (C28-C40)	963	200	"	1000	ND	96.3	70-130	3.10	35	
Surrogate: o-Terphenyl	58		"	49.8		116	50-150			

Origins Laboratory, Inc.



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8000 W 44th Ave  
Wheat Ridge CO 80033

Martin C Eckert III  
Project Number: [none]  
Project: Noble - Monfort Gilcrest K #8-9

## Extractable Petroleum Hydrocarbons by 8015D - Quality Control

### Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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## Classical Chemistry Parameters - Quality Control

### Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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#### Batch B3G2409 - Saturated Paste Metals

##### Blank (B3G2409-BLK1)

Prepared: 07/24/2023 Analyzed: 07/25/2023

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

##### Duplicate (B3G2409-DUP1)

Source: Y307418-13

Prepared: 07/24/2023 Analyzed: 07/25/2023

SAR	0.00		SAR	6.97		200	200
Calcium PPM	9.72	10.0	mg/L	8.41		14.5	50
Magnesium PPM	2.55	10.0	"	2.16		16.6	50
Sodium PPM	88.4	10.0	"	87.6		1.01	50

#### Batch B3G2507 - DTPA Sorbitol Preparation

##### Blank (B3G2507-BLK1)

Prepared: 07/25/2023 Analyzed: 07/26/2023

Boron	ND	0.100	mg/L
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##### Duplicate (B3G2507-DUP1)

Source: Y307479-01

Prepared: 07/25/2023 Analyzed: 07/26/2023

Boron	0.132	0.0988	mg/L	0.123		7.08	50
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Origins Laboratory, Inc.



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8000 W 44th Ave  
Wheat Ridge CO 80033

Martin C Eckert III  
Project Number: [none]  
Project: Noble - Monfort Gilcrest K #8-9

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B3G2414 - Saturated Paste pH/EC</b>										
<b>Blank (B3G2414-BLK1)</b>					Prepared: 07/24/2023 Analyzed: 07/25/2023					
Specific Conductance (EC)	ND	0.00500	mmhos/cm							
<b>Duplicate (B3G2414-DUP1)</b>					<b>Source: Y307418-13</b> Prepared: 07/24/2023 Analyzed: 07/25/2023					
pH	7.72		pH Units		7.72			0.00	25	
Specific Conductance (EC)	0.452	0.00500	mmhos/cm		0.423			6.67	25	

Origins Laboratory, Inc.



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8000 W 44th Ave  
Wheat Ridge CO 80033

Martin C Eckert III  
Project Number: [none]  
Project: Noble - Monfort Gilcrest K #8-9

**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 L695170 - 3550B**

MSD (L 85668-MSD-L695170)		Source: 85668			Prepared: 07/27/2023 Analyzed: 07/27/2023					
Pyrene	0.133	0.00067	mg/Kg	0.162	<0.000643	82	30-130	3.8	30	
Indeno(1,2,3-cd)pyrene	0.0992	0.00067	"	0.162	<0.000627	61.2	30-130	2.8	30	
Fluorene	0.135	0.00067	"	0.162	<0.000286	83.3	30-130	11.7	30	
Fluoranthene	0.134	0.00067	"	0.162	<0.000394	82.7	30-130	7.7	30	
Dibenz(a,h)anthracene	0.126	0.00067	"	0.162	<0.000614	77.7	30-130	5.4	30	
Chrysene	0.127	0.00067	"	0.162	<0.000624	78.3	30-130	8.1	30	
Benzo(k)fluoranthene	0.118	0.00067	"	0.162	<0.000437	72.8	30-130	1.6	30	
1-Methylnaphthalene	0.116	0.00201	"	0.162	<0.00109	71.6	30-130	10.9	30	
Benzo(a)pyrene	0.133	0.00067	"	0.162	<0.000468	82	30-130	8.6	30	
Benzo(a)anthracene	0.125	0.00067	"	0.162	<0.000493	77.1	30-130	8.3	30	
Anthracene	0.14	0.00067	"	0.162	<0.000334	86.4	30-130	7.4	30	
Acenaphthene	0.123	0.00067	"	0.162	<0.000304	75.9	30-130	8.4	30	
2-Methylnaphthalene	0.115	0.00201	"	0.162	<0.00194	70.9	30-130	11	30	
Benzo(b)fluoranthene	0.099	0.00067	"	0.162	<0.000585	61.1	30-130	1.5	30	
Surrogate: 2-Fluorobiphenyl	64.6		"	0.325	171	64.6	33-115			
Surrogate: 4-Terphenyl-d14	75.3		"	0.325	216	75.3	33-122			
Surrogate: Nitrobenzene-d5	57.8		"	0.325	164	57.8	29-110			

MS (L 85668-MS-L695170)		Source: 85668			Prepared: 07/27/2023 Analyzed: 07/27/2023					
Benzo(b)fluoranthene	0.0975	0.00067	mg/Kg	0.165	<0.000585	59	30-130			
Fluorene	0.12	0.00067	"	0.165	<0.000286	72.7	30-130			
1-Methylnaphthalene	0.104	0.00201	"	0.165	<0.00109	63	30-130			
Benzo(a)anthracene	0.115	0.00067	"	0.165	<0.000493	69.6	30-130			
Pyrene	0.128	0.00067	"	0.165	<0.000643	77.5	30-130			
Indeno(1,2,3-cd)pyrene	0.0964	0.00067	"	0.165	<0.000627	58.4	30-130			
Fluoranthene	0.124	0.00067	"	0.165	<0.000394	75.1	30-130			
Dibenz(a,h)anthracene	0.133	0.00067	"	0.165	<0.000614	80.6	30-130			

Origins Laboratory, Inc.



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

Martin C Eckert III  
Project Number: [none]  
Project: Noble - Monfort Gilcrest K #8-9

**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 L695170 - 3550B**

MS (L 85668-MS-L695170)		Source: 85668			Prepared: 07/27/2023 Analyzed: 07/27/2023					
Chrysene	0.117	0.00067	mg/Kg	0.165	<0.000624	70.9	30-130			
2-Methylnaphthalene	0.103	0.00201	"	0.165	<0.00194	62.4	30-130			
Benzo(k)fluoranthene	0.12	0.00067	"	0.165	<0.000437	72.7	30-130			
Acenaphthene	0.113	0.00067	"	0.165	<0.000304	68.4	30-130			
Anthracene	0.13	0.00067	"	0.165	<0.000334	78.7	30-130			
Benzo(a)pyrene	0.122	0.00067	"	0.165	<0.000468	73.9	30-130			
Surrogate: 4-Terphenyl-d14	70.6		"	0.33	216	70.6	33-122			
Surrogate: Nitrobenzene-d5	51.8		"	0.33	164	51.8	29-110			
Surrogate: 2-Fluorobiphenyl	60.3		"	0.33	171	60.3	33-115			

LCS (LCS-L695170)		Prepared: 07/27/2023 Analyzed: 07/27/2023								
Benzo(k)fluoranthene	0.146	0.00067	mg/Kg	0.167		87.4	30-130			
Pyrene	0.141	0.00067	"	0.167		84.4	30-130			
Benzo(b)fluoranthene	0.144	0.00067	"	0.167		86.2	30-130			
Indeno(1,2,3-cd)pyrene	0.113	0.00067	"	0.167		67.6	30-130			
Fluorene	0.133	0.00067	"	0.167		79.6	30-130			
Fluoranthene	0.133	0.00067	"	0.167		79.6	30-130			
Dibenz(a,h)anthracene	0.152	0.00067	"	0.167		91	30-130			
Chrysene	0.128	0.00067	"	0.167		76.6	30-130			
1-Methylnaphthalene	0.112	0.00201	"	0.167		67	30-130			
2-Methylnaphthalene	0.11	0.00201	"	0.167		65.8	30-130			
Acenaphthene	0.122	0.00067	"	0.167		73	30-130			
Anthracene	0.131	0.00067	"	0.167		78.4	30-130			
Benzo(a)anthracene	0.129	0.00067	"	0.167		77.2	30-130			
Benzo(a)pyrene	0.139	0.00067	"	0.167		83.2	30-130			
Surrogate: Nitrobenzene-d5	63.3		"	0.333		63.3	29-110			
Surrogate: 2-Fluorobiphenyl	66.3		"	0.333		66.3	33-115			

Origins Laboratory, Inc.



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

Martin C Eckert III  
Project Number: [none]  
Project: Noble - Monfort Gilcrest K #8-9

## 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
<b>Batch L695170 - 3550B</b>										
<b>LCS (LCS-L695170)</b>					Prepared: 07/27/2023 Analyzed: 07/27/2023					
Surrogate: 4-Terphenyl-d14	82.5		mg/Kg	0.333		82.5	33-122			
<b>LRB (LRB-L695170)</b>					Prepared: 07/27/2023 Analyzed: 07/27/2023					
Fluorene	ND	0.00067	mg/Kg				-			
Pyrene	ND	0.00067	"				-			
Benzo(a)pyrene	ND	0.00067	"				-			
2-Methylnaphthalene	ND	0.00201	"				-			
Acenaphthene	ND	0.00067	"				-			
Anthracene	ND	0.00067	"				-			
Benzo(a)anthracene	ND	0.00067	"				-			
Benzo(b)fluoranthene	ND	0.00067	"				-			
Benzo(k)fluoranthene	ND	0.00067	"				-			
Chrysene	ND	0.00067	"				-			
Fluoranthene	ND	0.00067	"				-			
Indeno(1,2,3-cd)pyrene	ND	0.00067	"				-			
1-Methylnaphthalene	ND	0.00201	"				-			
Dibenz(a,h)anthracene	ND	0.00067	"				-			
Surrogate: 4-Terphenyl-d14	81.9		"	0.333		81.9	33-122			
Surrogate: 2-Fluorobiphenyl	61.8		"	0.333		61.8	33-115			
Surrogate: Nitrobenzene-d5	57.9		"	0.333		57.9	29-110			

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

Martin C Eckert III  
Project Number: [none]  
Project: Noble - Monfort Gilcrest K #8-9

**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 L695033 - 3550B**

MSD (L 85157-MSD-L695033)		Source: 85157			Prepared: 07/26/2023 Analyzed: 07/27/2023					
Pyrene	0.116	0.00067	mg/Kg	0.162	<0.000643	71.6	30-130	5.3	30	
Benzo(a)pyrene	0.128	0.00067	"	0.162	<0.000468	79	30-130	7.2	30	
Fluorene	0.127	0.00067	"	0.162	<0.000286	78.3	30-130	7.3	30	
Fluoranthene	0.12	0.00067	"	0.162	<0.000394	74	30-130	7.7	30	
Dibenz(a,h)anthracene	0.124	0.00067	"	0.162	<0.000614	76.5	30-130	13.7	30	
Chrysene	0.122	0.00067	"	0.162	<0.000624	75.3	30-130	5	30	
Indeno(1,2,3-cd)pyrene	0.091	0.00067	"	0.162	<0.000627	56.1	30-130	18.4	30	
Benzo(b)fluoranthene	0.0956	0.00067	"	0.162	<0.000585	59	30-130	11	30	
1-Methylnaphthalene	0.105	0.00201	"	0.162	<0.00109	64.8	30-130	7.6	30	
Benzo(a)anthracene	0.12	0.00067	"	0.162	<0.000493	74	30-130	7.7	30	
Anthracene	0.126	0.00067	"	0.162	<0.000334	77.7	30-130	7.4	30	
Acenaphthene	0.113	0.00067	"	0.162	<0.000304	69.7	30-130	7.3	30	
2-Methylnaphthalene	0.108	0.00201	"	0.162	<0.00194	66.6	30-130	8.3	30	
Benzo(k)fluoranthene	0.103	0.00067	"	0.162	<0.000437	63.5	30-130	13.1	30	
Surrogate: Nitrobenzene-d5	55		"	0.325	186	55	29-110			
Surrogate: 4-Terphenyl-d14	73.8		"	0.325	281	73.8	33-122			
Surrogate: 2-Fluorobiphenyl	65.2		"	0.325	221	65.2	33-115			

MS (L 85157-MS-L695033)		Source: 85157			Prepared: 07/26/2023 Analyzed: 07/27/2023					
Dibenz(a,h)anthracene	0.108	0.00067	mg/Kg	0.164	<0.000614	65.8	30-130			
Pyrene	0.11	0.00067	"	0.164	<0.000643	67	30-130			
Indeno(1,2,3-cd)pyrene	0.0756	0.00067	"	0.164	<0.000627	46	30-130			
1-Methylnaphthalene	0.0973	0.00201	"	0.164	<0.00109	59.3	30-130			
Fluoranthene	0.111	0.00067	"	0.164	<0.000394	67.6	30-130			
Chrysene	0.116	0.00067	"	0.164	<0.000624	70.7	30-130			
Benzo(k)fluoranthene	0.0903	0.00067	"	0.164	<0.000437	55	30-130			
2-Methylnaphthalene	0.0993	0.00201	"	0.164	<0.00194	60.5	30-130			

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Wheat Ridge CO 80033

Martin C Eckert III  
Project Number: [none]  
Project: Noble - Monfort Gilcrest K #8-9

**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 L695033 - 3550B**

MS (L 85157-MS-L695033)		Source: 85157			Prepared: 07/26/2023 Analyzed: 07/27/2023					
Benzo(a)pyrene	0.119	0.00067	mg/Kg	0.164	<0.000468	72.5	30-130			
Benzo(a)anthracene	0.111	0.00067	"	0.164	<0.000493	67.6	30-130			
Anthracene	0.117	0.00067	"	0.164	<0.000334	71.3	30-130			
Acenaphthene	0.105	0.00067	"	0.164	<0.000304	64	30-130			
Benzo(b)fluoranthene	0.0856	0.00067	"	0.164	<0.000585	52.1	30-130			
Fluorene	0.118	0.00067	"	0.164	<0.000286	71.9	30-130			
Surrogate: Nitrobenzene-d5	50.1		"	0.329	186	50.1	29-110			
Surrogate: 4-Terphenyl-d14	66.2		"	0.329	281	66.2	33-122			
Surrogate: 2-Fluorobiphenyl	59.5		"	0.329	221	59.5	33-115			

LCS (LCS-L695033)		Prepared: 07/26/2023 Analyzed: 07/27/2023								
Benzo(k)fluoranthene	0.0714	0.00067	mg/Kg	0.167		42.7	30-130			
Dibenz(a,h)anthracene	0.0919	0.00067	"	0.167		55	30-130			
Fluoranthene	0.086	0.00067	"	0.167		51.4	30-130			
Fluorene	0.0868	0.00067	"	0.167		51.9	30-130			
Indeno(1,2,3-cd)pyrene	0.0674	0.00067	"	0.167		40.3	30-130			
Pyrene	0.084	0.00067	"	0.167		50.2	30-130			
Benzo(b)fluoranthene	0.0695	0.00067	"	0.167		41.6	30-130			
1-Methylnaphthalene	0.0738	0.00201	"	0.167		44.1	30-130			
Benzo(a)anthracene	0.0873	0.00067	"	0.167		52.2	30-130			
Anthracene	0.0895	0.00067	"	0.167		53.5	30-130			
Acenaphthene	0.0767	0.00067	"	0.167		45.9	30-130			
2-Methylnaphthalene	0.0747	0.00201	"	0.167		44.7	30-130			
Chrysene	0.0898	0.00067	"	0.167		53.7	30-130			
Benzo(a)pyrene	0.0952	0.00067	"	0.167		57	30-130			
Surrogate: Nitrobenzene-d5	39.6		"	0.333		39.6	29-110			
Surrogate: 4-Terphenyl-d14	56.7		"	0.333		56.7	33-122			

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Martin C Eckert III  
Project Number: [none]  
Project: Noble - Monfort Gilcrest K #8-9

**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
<b>Batch L695033 - 3550B</b>										
<b>LCS (LCS-L695033)</b>					Prepared: 07/26/2023 Analyzed: 07/27/2023					
Surrogate: 2-Fluorobiphenyl	47.7		mg/Kg	0.333		47.7	33-115			
<b>LRB (LRB-L695033)</b>					Prepared: 07/26/2023 Analyzed: 07/27/2023					
Dibenz(a,h)anthracene	ND	0.00067	mg/Kg				-			
Fluoranthene	ND	0.00067	"				-			
Fluorene	ND	0.00067	"				-			
Indeno(1,2,3-cd)pyrene	ND	0.00067	"				-			
Chrysene	ND	0.00067	"				-			
Pyrene	ND	0.00067	"				-			
Acenaphthene	ND	0.00067	"				-			
Benzo(k)fluoranthene	ND	0.00067	"				-			
Benzo(b)fluoranthene	ND	0.00067	"				-			
Benzo(a)pyrene	ND	0.00067	"				-			
Anthracene	ND	0.00067	"				-			
2-Methylnaphthalene	ND	0.00201	"				-			
1-Methylnaphthalene	ND	0.00201	"				-			
Benzo(a)anthracene	ND	0.00067	"				-			
Surrogate: Nitrobenzene-d5	39.3		"	0.333		39.3	29-110			
Surrogate: 4-Terphenyl-d14	55.2		"	0.333		55.2	33-122			
Surrogate: 2-Fluorobiphenyl	46.2		"	0.333		46.2	33-115			

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Martin C Eckert III  
Project Number: [none]  
Project: Noble - Monfort Gilcrest K #8-9

### Notes and Definitions

U Sample is Non-Detect.

J Estimated Value. Analyte below reported quantitation limit.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported on a wet weight basis.

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

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Jordan A. Bynon, Project Manager