

Wellhead Closure Checklist

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

Additional attachments (optional):		Pit Closure <u> </u>		Tank Battery Closure <u> </u>		Flowline Closure <u> </u>		Partially Buried Vault Closure <u> </u>	
Site Name & COGCC Facility Number: Born-Sitzman #1		Date: 05/09/23					Remediation Project #: 27857		
Associated Wells: 05-123-11308		Age of Site: Years					Number of Photos Attached: 1		
Location: (GPS coordinates of wellhead or southeastern most wellhead for multiple)						40.289050 / -104.529660			
Estimated Facility Size (acres):									
General Condition of Site: (General observations regarding housekeeping, corrosion, waste management, etc.)									
Good Condition									
USCS Soil Type: Silty SAND					Estimated Depth to Groundwater: Approx. 10-15'				
Hydrocarbon Impacted Soils / Spills: (Note estimated size and if impact appears to be surficial or extends to an unknown depth)									
None observed.									
Salt Crusted Soils or Impacted Vegetation: (Note estimated size and if impact appears to be surficial or extends to an unknown depth)									
None observed.									
Wellhead(s)									
Well API	05-123-11308								
Age	Years								
Condition of surface around wellhead	Good - Per Crew								
PID Readings	N/A - Excavated Upon Arrival								
Condition of subsurface (staining present)	Good - No Odor/Staining								
PID Readings	2.8	2.5	1.6	1.7	3.1				
Sample taken? Location/Sample ID#	WH-SS-01	WH-SS-02	WH-SS-03	WH-SS-04	WH-FS-01				
Photo Number(s)	See photolog								
Other observations regarding wellheads:									
Well casing cut/capped following assessment.									
Summary									
Was impacted soil identified?									
<input checked="" type="checkbox"/> No		Yes - less than 10 cubic yards			Yes - more than 10 cubic yards				
Total number of samples field screened: 5				Total number of samples collected: 5					
Highest PID Reading: 3.1				Total number of samples submitted to lab for analysis: 1					
If more than 10 cubic yards of impacted soil were observed:									
Vertical extent:				N/A					
Lateral extent:				Estimated spill volume:					
				Volume of soil removed:					
Is additional investigation required?									
Was groundwater encountered during the investigation?									
<input checked="" type="checkbox"/> No		Yes - not impacted or in contact with impacted soils			Yes - groundwater impacted and/or in contact with impacted soils				
Measured depth to groundwater:				Was remedial groundwater removal conducted? Yes No					
Date Groundwater was encountered:				Commencement date of removal:					
Sheen on groundwater? Yes No				N/A					
Free product observed? Yes No				Volume of groundwater removed prior to sampling:					
				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:									

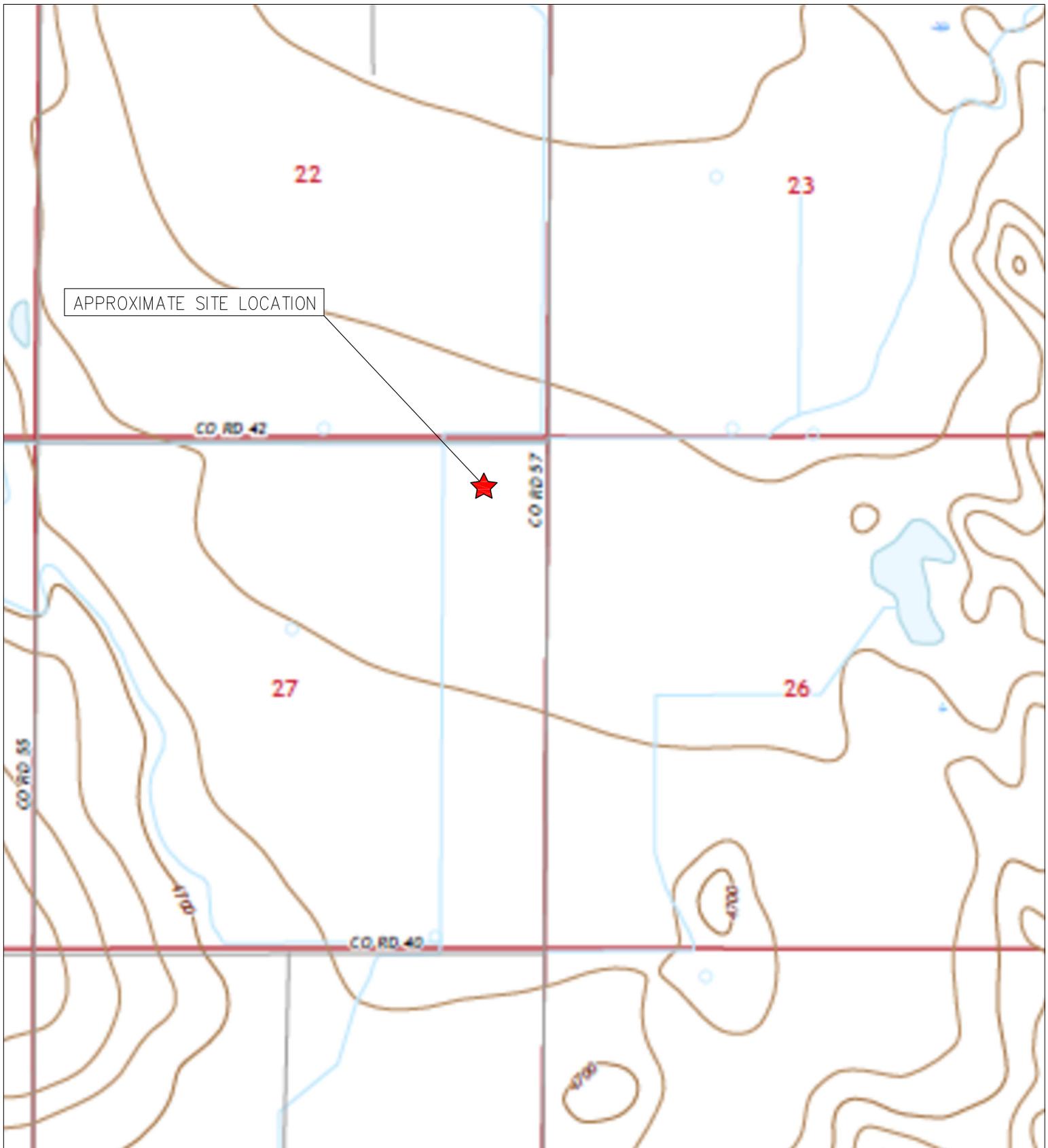


FIGURES

Figure 1: Topographic Site Location Map

Figure 2: Aerial Site Location Map

Figure 3: Soil Analytical Map



APPROXIMATE SITE LOCATION

TOPOGRAPHIC SITE LOCATION MAP
 BORN-SITZMAN #1
 CLOSURE ASSESSMENT
 40.289050 / -104.529660
 NE¼ NE¼ SEC.27 T4N R64W 6PM
 WELD COUNTY, COLORADO
 API # 05-123-11308
 REMEDIATION # 27857

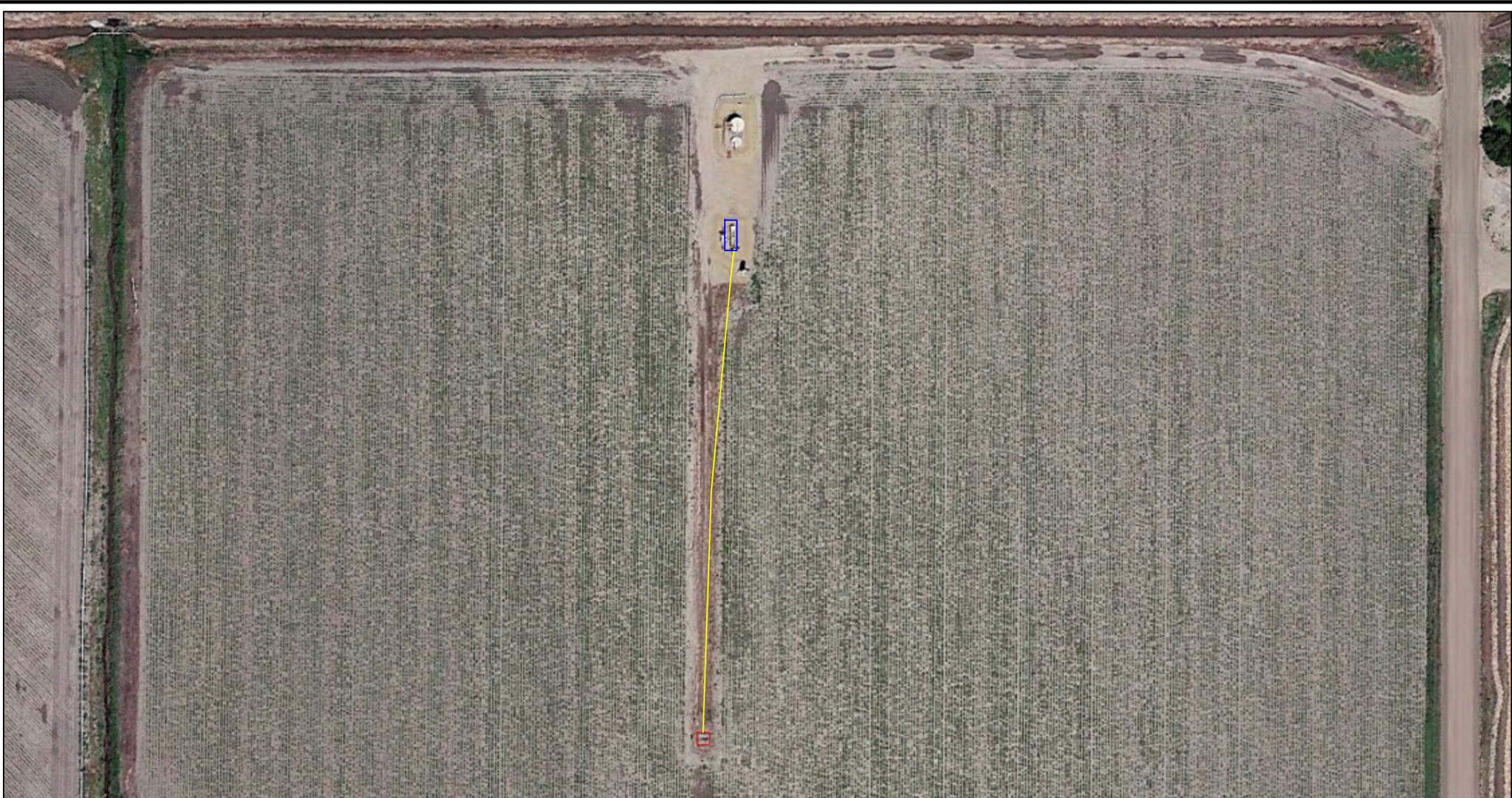


EAGLE
 ENVIRONMENTAL
 CONSULTING, LLC

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

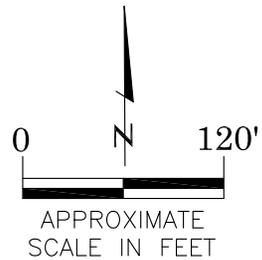
SOURCE: USGS 7.5 MINUTE TOPOGRAPHIC MAP
 VALLEY VIEW SCHOOL, CO QUADRANGLE 2022

FIGURE NO. 1



LEGEND

- FORMER BORN-SITZMAN #1 WELLHEAD (PLUGGED AND ABANDONED)
- ASSOCIATED SEPARATOR
- APPROXIMATE FLOWLINE LOCATION



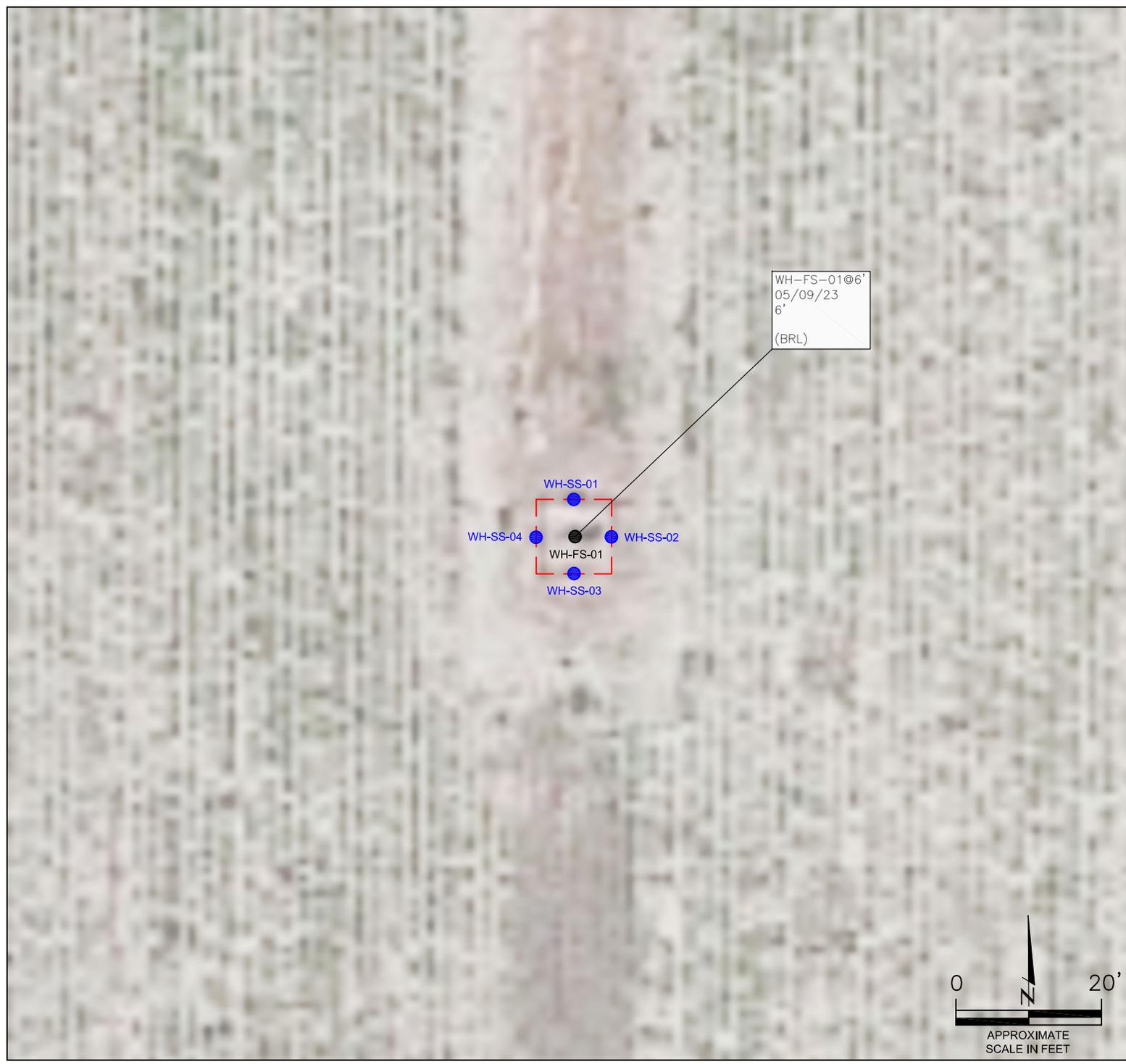
AERIAL SITE LOCATION MAP
 BORN-SITZMAN #1
 CLOSURE ASSESSMENT
 40.289050 / -104.529660
 NE¼ NE¼ SEC.27 T4N R64W 6PM
 WELD COUNTY, COLORADO
 API # 05-123-11308
 REMEDIATION # 27857

FIGURE NO.
2

DRAWN BY:
GF



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LEGEND

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

PARAMETERS

SAMPLE LOCATION
 DATE
 DEPTH (FEET)
 B = BENZENE (mg/kg)
 T = TOLUENE (mg/kg)
 E = ETHYLBENZENE (mg/kg)
 X = TOTAL XYLENES (mg/kg)
 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
 BORN-SITZMAN #1
 CLOSURE ASSESSMENT
 40.289050 / -104.529660
 NE¼ NE¼ SEC.27 T4N R64W 6PM
 WELD COUNTY, COLORADO
 API # 05-123-11308
 REMEDIATION # 27857

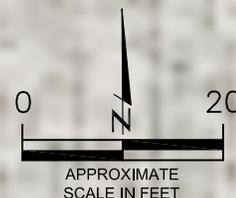


FIGURE NO.
3

DRAWN BY:
GF

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TABLES

Table 1: Photoionization Detector Reading Summary

Table 2: Soil Analytical Results Summary

TABLE 1
PHOTOIONIZATION DETECTOR READING SUMMARY
BORN-SITZMAN #1
CLOSURE ASSESSMENT
40.289050 / -104.529660
NE¼ NE¼ SEC.27 T4N R64W 6PM
WELD COUNTY, COLORADO
API # 05-123-11308
REMEDIAION # 27857

Sample Location (Latitude/Longitude)	Date	Approximate Depth (feet)	PID Reading (ppm-v)	Lab Submission (Y/N)
WH-SS-01 @ 5' (40.289071 / -104.529668)	05/09/23	5	2.8	N
WH-SS-02 @ 5' (40.289060 / -104.529652)	05/09/23	5	2.5	N
WH-SS-03 @ 5' (40.289047 / -104.529666)	05/09/23	5	1.6	N
WH-SS-04 @ 5' (40.289058 / -104.529686)	05/09/23	5	1.7	N
WH-FS-01 @ 6' (40.289059 / -104.529669)	05/09/23	6	3.1	Y
(Y/N) = Yes or No ppm-v = parts per million by volume PID = Photoionization Detector				



TABLE 1
PHOTOIONIZATION DETECTOR READING SUMMARY
BORN-SITZMAN #1
CLOSURE ASSESSMENT
40.289050 / -104.529660
NE¼ NE¼ SEC.27 T4N R64W 6PM
WELD COUNTY, COLORADO
API # 05-123-11308
REMEDIAION # 27857

Sample Location		WH-FS-01 @ 6'		
(Latitude / Longitude)		(40.289059 / -104.529669)		
Sample Date		5/9/2023		
Sample Depth		6'		
PID Reading (ppm-v)		3.1		
Regulatory Limits				
Chemical of Concern	Units	ECMC Table 915-1	ECMC Table 915-1	
		1 RSSLs	1 GSSLs	
VOCs				
Benzene	mg/kg	1.2	0.0026	<0.00200
Toluene	mg/kg	490	0.69	<0.00200
Ethylbenzene	mg/kg	5.8	0.78	<0.00200
Total Xylenes	mg/kg	58	9.9	<0.00200
1,2,4-Trimethylbenzene	mg/kg	30	0.0081	<0.00200
1,3,5-Trimethylbenzene	mg/kg	27	0.0087	<0.00200
TOTAL PETROLEUM HYDROCARBONS				
TPH-GRO	mg/kg	500	--	<0.200
TPH-DRO	mg/kg	500	--	<25.0
TPH-RRO	mg/kg	500	--	<100
POLYCYCLIC AROMATIC HYDROCARBONS				
1-Methyl-naphthalene	mg/kg	18	0.006	<0.00201
2-Methyl-naphthalene	mg/kg	24	0.019	<0.00201
Acenaphthene	mg/kg	360	0.55	<0.00067
Anthracene	mg/kg	1800	5.8	<0.00067
Benzo(a)-anthracene	mg/kg	1.1	0.011	<0.00067
Benzo(a)-pyrene	mg/kg	0.11	0.24	<0.00067
Benzo(b)-fluoranthene	mg/kg	1.1	0.3	<0.00067
Benzo(k)-fluoranthene	mg/kg	11	2.9	<0.00067
Chrysene	mg/kg	110	9	<0.00067
Dibenzo(a,h)-anthracene	mg/kg	0.11	0.096	<0.00067
Fluoranthene	mg/kg	240	8.9	<0.00067
Fluorene	mg/kg	240	0.54	<0.00067
Indeno(1,2,3-cd)-pyrene	mg/kg	1.1	0.98	<0.00067
Naphthalene	mg/kg	2	0.0038	<0.00201
Pyrene	mg/kg	180	1.3	<0.00067
SOIL SUITABILITY (Inorganics)				
Boron	mg/L	2	--	0.351
pH	standard unit	6-8.3	--	7.97
Sodium Adsorption Ratio (SAR)	--	<6	--	2.55
Specific Conductance (EC)	mmhos/cm	<4	--	1.06
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 BOLD exceed ECMC Table 915-1 Regulatory Limits.				
VOCs - Volatile Organic Compounds RSSLs = Residential Soil Screening Levels GSSLs = Protection of Groundwater Soil Screening Levels TPH-GRO = Total Petroleum Hydrocarbons - Gasoline Range Organics TPH-DRO = Total Petroleum Hydrocarbons - Diesel Range Organics TPH-RRO = Total Petroleum Hydrocarbons - Residual Range Organics				





ATTACHMENT A

Photo Log

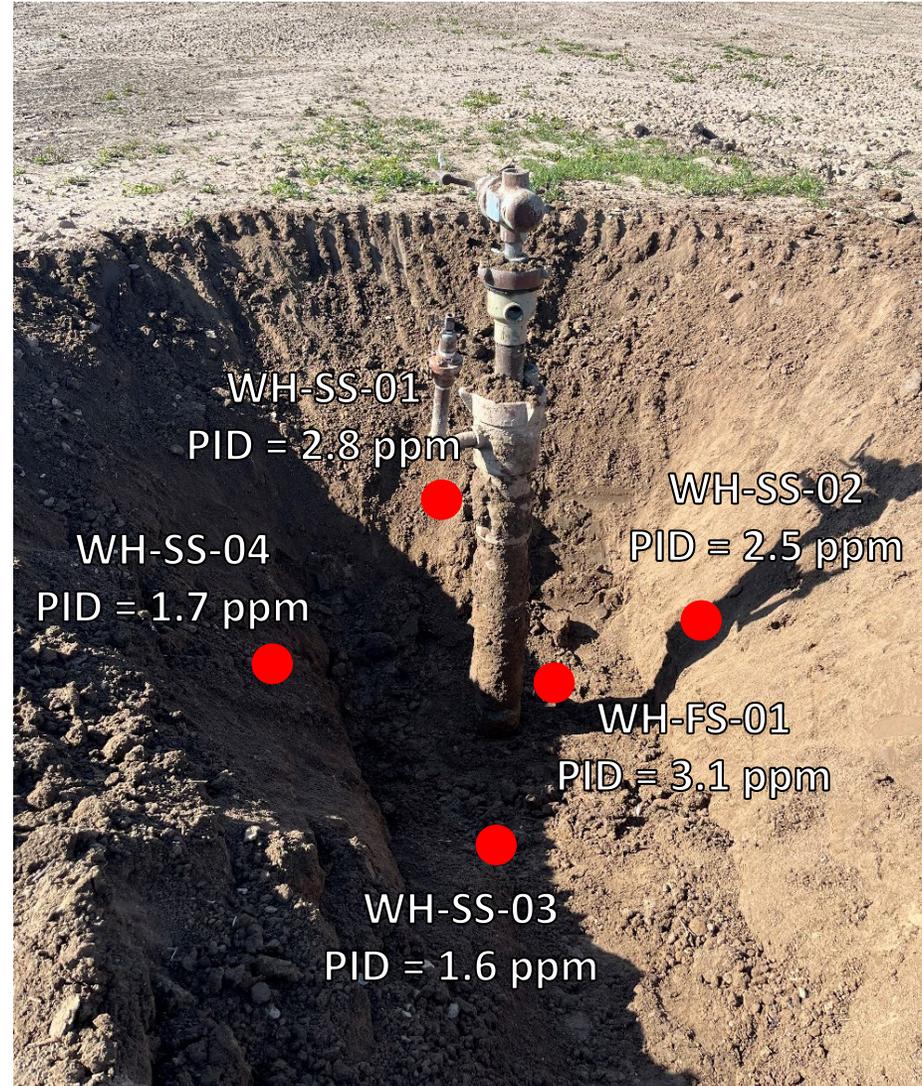
Born-Sitzman #1
API # 05-123-11308
Remediation # 27857

Closure Assessment

May 2023



Wellhead Excavation – 05/09/23



Looking north

No petroleum hydrocarbon staining or odor observed



ATTACHMENT B

Laboratory Analytical Report



May 22, 2023

Eagle Environmental Consulting, LLC

Martin C Eckert III

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - Noble - Born Sitzman 1

Project Number - [none]

Attached are your analytical results for Noble - Born Sitzman 1 received by Origins Laboratory, Inc. May 09, 2023. This project is associated with Origins project number Y305273-01.

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

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

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

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

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

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



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

Martin C Eckert III
Project Number: [none]
Project: Noble - Born Sitzman 1

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
WH-FS-01@6'	Y305273-01	Soil	May 9, 2023 9:23	05/09/2023 15:36

Origins Laboratory, Inc.



Jen Pellegrini For Jordan A. Bynon, Project Manager

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 - Born Sitzman 1

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

Sample Receipt Checklist

Origins Work Order: V305273 Client: Eagle
 Client Project ID: Born Sitzman 1

Checklist Completed by: JG/TST Shipped Via: HS
 Date/time completed: 5/10/23 (UPS, FedEx, Hand Delivered, Pick-up, etc.)
 Airbill #: N/A

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

Cooler Number/Temperature: 1 / 5.0 °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 ⁽¹⁾ ?	/			
Is there ice present (document if blue ice is used)	/			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)			/	
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)			/	
Were all samples received intact ⁽¹⁾ ?	/			
Was adequate sample volume provided ⁽¹⁾ ?	/			
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?		/		
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	/			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	/			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	/			
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	/			
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.			/	
Are samples preserved that require preservation and was it checked ⁽¹⁾ ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)/(pH <2 for samples preserved with HNO ₃ , HCL, H ₂ SO ₄) / (pH >10 for samples preserved with NaAsO ₂ +NaOH, ZnAc+NaOH)			/	
Additional Comments (if any):				

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

Reviewed by (Project Manager) JST

Date/Time Reviewed 5/11/23

Origins Laboratory, Inc.



Jen Pellegrini For Jordan A. Bynon, Project Manager

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 - Born Sitzman 1

WH-FS-01@6'
5/9/2023 9:23:00AM

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

Origins Laboratory, Inc.
Y305273-01 (Soil)

Boron (DTPA Sorbitol)

Boron	0.351		0.0999	mg/L	1	B3E1112	05/11/2023	05/12/2023	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B3E1216	05/12/2023	05/15/2023	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	66.1 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B3E1017	05/10/2023	05/10/2023	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.



Jen Pellegrini For Jordan A. Bynon, Project Manager

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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 - Born Sitzman 1

WH-FS-01@6'
5/9/2023 9:23:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y305273-01 (Soil)

GBTEX+TMBs by 8260D

Surrogate: 1,2-Dichloroethane-d4	116 %		70-130			B3E10 17	05/10/2023	05/10/2023	
Surrogate: Toluene-d8	99.0 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	105 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	4.26		0.499	meq/L	10	[CALC]	05/11/2023	05/12/2023	
Magnesium	1.87		0.823	"	"	"	"	"	
Sodium	4.47		0.435	"	"	"	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00109	0.00201	mg/Kg	1	L682147	05/17/2023	05/18/2023	
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	ND	0.000585	0.00067	"	"	"	"	"	
Benzo(k)fluoranthene	ND	0.000437	0.00067	"	"	"	"	"	
Chrysene	ND	0.000624	0.00067	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"	

Origins Laboratory, Inc.



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Jen Pellegrini For 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 - Born Sitzman 1

WH-FS-01@6'
5/9/2023 9:23:00AM

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

Waypoint Analytical, LLC.
Y305273-01 (Soil)

PAH by 8270D SIM

Fluoranthene	ND	0.000394	0.00067	mg/Kg	1	L682147	05/17/2023	05/18/2023	
Fluorene	ND	0.000286	0.00067	"	"	"	"	"	
Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	"	"	"	"	"	
Pyrene	ND	0.000643	0.00067	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	45.5 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	60 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	47.1 %		29-110			"	"	"	

pH in Soil by 9045D

pH	7.97			pH Units	1	B3E1123	05/11/2023	05/12/2023	
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SAR by 20B Saturated Paste

SAR	2.55			SAR	1	B3E1119	05/11/2023	05/12/2023	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	1.06		0.00500	mmhos/cm	1	B3E1123	05/11/2023	05/12/2023	
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Origins Laboratory, Inc.



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Jen Pellegrini For 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 - Born Sitzman 1

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 B3E1017 - EPA 5030 (soil)

Blank (B3E1017-BLK1)

Prepared: 05/10/2023 Analyzed: 05/10/2023

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	104		70-130			
Surrogate: Toluene-d8	0.12		"	0.125	99.5		70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125	103		70-130			

Origins Laboratory, Inc.



Jen Pellegrini For Jordan A. Bynon, Project Manager

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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 - Born Sitzman 1

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 B3E1017 - EPA 5030 (soil)

LCS (B3E1017-BS1)

Prepared: 05/10/2023 Analyzed: 05/10/2023

1,2,4-Trimethylbenzene	0.102	0.00200	mg/kg	0.100		102	70-130			
1,3,5-Trimethylbenzene	0.101	0.00200	"	0.100		101	70-130			
Benzene	0.0877	0.00200	"	0.100		87.7	70-130			
Ethylbenzene	0.0938	0.00200	"	0.100		93.8	70-130			
Naphthalene	0.109	0.00380	"	0.100		109	70-130			
Toluene	0.0904	0.00200	"	0.100		90.4	70-130			
o-Xylene	0.0950	0.00200	"	0.100		95.0	70-130			
m,p-Xylene	0.200	0.00400	"	0.200		100	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		105	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		99.9	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		98.3	70-130			

Origins Laboratory, Inc.



Jen Pellegrini For Jordan A. Bynon, Project Manager

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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 - Born Sitzman 1

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 B3E1017 - EPA 5030 (soil)

Matrix Spike (B3E1017-MS1)	Source: Y305271-01			Prepared: 05/10/2023 Analyzed: 05/11/2023						
1,2,4-Trimethylbenzene	0.0876	0.00200	mg/kg	0.100	ND	87.6	70-130			
1,3,5-Trimethylbenzene	0.0859	0.00200	"	0.100	ND	85.9	70-130			
Benzene	0.0863	0.00200	"	0.100	ND	86.3	70-130			
Ethylbenzene	0.0865	0.00200	"	0.100	ND	86.5	70-130			
Naphthalene	0.0945	0.00380	"	0.100	ND	94.5	70-130			
Toluene	0.0812	0.00200	"	0.100	ND	81.2	70-130			
o-Xylene	0.0883	0.00200	"	0.100	ND	88.3	70-130			
m,p-Xylene	0.181	0.00400	"	0.200	ND	90.6	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		105	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		96.0	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		104	70-130			

Origins Laboratory, Inc.



Jen Pellegrini For Jordan A. Bynon, Project Manager

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 Wheat Ridge CO 80033

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Born Sitzman 1

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 B3E1017 - EPA 5030 (soil)

Matrix Spike Dup (B3E1017-MSD1)	Source: Y305271-01			Prepared: 05/10/2023 Analyzed: 05/11/2023						
1,2,4-Trimethylbenzene	0.111	0.00200	mg/kg	0.100	ND	111	70-130	23.9	20	QR-02
1,3,5-Trimethylbenzene	0.109	0.00200	"	0.100	ND	109	70-130	23.6	20	QR-02
Benzene	0.108	0.00200	"	0.100	ND	108	70-130	22.3	20	QR-02
Ethylbenzene	0.106	0.00200	"	0.100	ND	106	70-130	19.9	20	
Naphthalene	0.132	0.00380	"	0.100	ND	132	70-130	33.1	20	QM-07
Toluene	0.101	0.00200	"	0.100	ND	101	70-130	21.3	20	QR-02
o-Xylene	0.109	0.00200	"	0.100	ND	109	70-130	21.1	20	QR-02
m,p-Xylene	0.222	0.00400	"	0.200	ND	111	70-130	20.3	20	QR-02
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		107	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		95.2	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		103	70-130			

Origins Laboratory, Inc.



Jen Pellegrini For Jordan A. Bynon, Project Manager

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Martin C Eckert III
 Project Number: [none]
 Project: Noble - Born Sitzman 1

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 B3E1216 - EPA 3550B										
Blank (B3E1216-BLK1)										
					Prepared: 05/12/2023 Analyzed: 05/15/2023					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	18		"	24.9		74.3	50-150			

Origins Laboratory, Inc.



Jen Pellegrini For Jordan A. Bynon, Project Manager

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Martin C Eckert III
 Project Number: [none]
 Project: Noble - Born Sitzman 1

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 B3E1216 - EPA 3550B

LCS (B3E1216-BS1)

Prepared: 05/12/2023 Analyzed: 05/15/2023

Diesel (C10-C28)	845	50.0	mg/kg	1000		84.5	70-130			
Residual Range Organics (C28-C40)	917	200	"	1000		91.7	70-130			
Surrogate: o-Terphenyl	36		"	49.8		71.6	50-150			

Origins Laboratory, Inc.



Jen Pellegrini For Jordan A. Bynon, Project Manager

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Martin C Eckert III
 Project Number: [none]
 Project: Noble - Born Sitzman 1

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 B3E1216 - EPA 3550B

Matrix Spike (B3E1216-MS1)	Source: Y305271-01			Prepared: 05/12/2023 Analyzed: 05/15/2023						
Diesel (C10-C28)	867	50.0	mg/kg	1000	ND	86.7	70-130			
Residual Range Organics (C28-C40)	933	200	"	1000	ND	93.3	70-130			
Surrogate: o-Terphenyl	33		"	49.8		65.9	50-150			

Origins Laboratory, Inc.



Jen Pellegrini For Jordan A. Bynon, Project Manager

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Martin C Eckert III
 Project Number: [none]
 Project: Noble - Born Sitzman 1

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 B3E1216 - EPA 3550B										
Matrix Spike Dup (B3E1216-MSD1)					Source: Y305271-01					Prepared: 05/12/2023 Analyzed: 05/15/2023
Diesel (C10-C28)	862	50.0	mg/kg	1000	ND	86.2	70-130	0.485	35	
Residual Range Organics (C28-C40)	927	200	"	1000	ND	92.7	70-130	0.613	35	
Surrogate: o-Terphenyl	39		"	49.8		78.7	50-150			

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Jen Pellegrini For Jordan A. Bynon, Project Manager

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Martin C Eckert III
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 Project: Noble - Born Sitzman 1

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 B3E1112 - DTPA Sorbitol Preparation

Blank (B3E1112-BLK1)

Prepared: 05/11/2023 Analyzed: 05/12/2023

Boron	ND	0.100	mg/L							U
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Duplicate (B3E1112-DUP1)

Source: Y305269-01

Prepared: 05/11/2023 Analyzed: 05/12/2023

Boron	0.683	0.101	mg/L		0.686			0.395	50	
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Batch B3E1119 - Saturated Paste Metals

Blank (B3E1119-BLK1)

Prepared: 05/11/2023 Analyzed: 05/12/2023

SAR	0.00		SAR							U
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Calcium PPM	ND	10.0	mg/L							U
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Magnesium PPM	ND	10.0	"							U
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Sodium PPM	ND	10.0	"							U
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Duplicate (B3E1119-DUP1)

Source: Y305264-03

Prepared: 05/11/2023 Analyzed: 05/12/2023

Calcium PPM	55.0	10.0	mg/L		45.9			17.9	50	
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SAR	0.00		SAR		0.159			200	200	U
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Magnesium PPM	10.8	10.0	mg/L		9.35			14.6	50	
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Sodium PPM	4.69	10.0	"		4.52			3.69	50	U
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Jen Pellegrini For Jordan A. Bynon, Project Manager

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Martin C Eckert III
 Project Number: [none]
 Project: Noble - Born Sitzman 1

Saturated Paste - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B3E1123 - Saturated Paste pH/EC										
Blank (B3E1123-BLK1)					Prepared: 05/11/2023 Analyzed: 05/12/2023					
Specific Conductance (EC)	ND	0.00500	mmhos/cm							U
Duplicate (B3E1123-DUP1)					Source: Y305264-03 Prepared: 05/11/2023 Analyzed: 05/12/2023					
pH	8.09		pH Units		8.14			0.616	25	
Specific Conductance (EC)	0.364	0.00500	mmhos/cm		0.310			16.2	25	

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Jen Pellegrini For Jordan A. Bynon, Project Manager

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Martin C Eckert III
 Project Number: [none]
 Project: Noble - Born Sitzman 1

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 L682147 - 3550B

MSD (L 93317-MSD-L682147)		Source: 93317			Prepared: 05/17/2023 Analyzed: 05/18/2023					
Dibenz(a,h)anthracene	0.0957	0.00067	mg/Kg	0.164	<0.000614	58.3	30-130	30.4	30	*
Indeno(1,2,3-cd)pyrene	0.139	0.00067	"	0.164	<0.000627	84.7	30-130	26.9	30	
1-Methylnaphthalene	0.109	0.00201	"	0.164	<0.00109	66.4	30-130	20.6	30	
Fluorene	0.107	0.00067	"	0.164	<0.000286	65.2	30-130	15.5	30	
Fluoranthene	0.126	0.00067	"	0.164	<0.000394	76.8	30-130	20	30	
2-Methylnaphthalene	0.0991	0.00201	"	0.164	<0.00194	60.4	30-130	21	30	
Acenaphthene	0.114	0.00067	"	0.164	<0.000304	69.5	30-130	20.7	30	
Anthracene	0.124	0.00067	"	0.164	<0.000334	75.6	30-130	17.5	30	
Benzo(a)anthracene	0.11	0.00067	"	0.164	<0.000493	67	30-130	10.2	30	
Benzo(a)pyrene	0.107	0.00067	"	0.164	<0.000468	65.2	30-130	7.5	30	
Benzo(b)fluoranthene	0.0874	0.00067	"	0.164	<0.000585	53.2	30-130	18.2	30	
Benzo(k)fluoranthene	0.0768	0.00067	"	0.164	<0.000437	46.8	30-130	9.5	30	
Chrysene	0.138	0.00067	"	0.164	<0.000624	84.1	30-130	30	30	
Pyrene	0.125	0.00067	"	0.164	<0.000643	76.2	30-130	20.2	30	
Surrogate: Nitrobenzene-d5	64.1		"	0.329	139	64.1	29-110			
Surrogate: 2-Fluorobiphenyl	71.4		"	0.329	137	71.4	33-115			
Surrogate: 4-Terphenyl-d14	81.4		"	0.329	157	81.4	33-122			

MS (L 93317-MS-L682147)		Source: 93317			Prepared: 05/17/2023 Analyzed: 05/18/2023					
Indeno(1,2,3-cd)pyrene	0.106	0.00067	mg/Kg	0.167	<0.000627	63.4	30-130			
Chrysene	0.102	0.00067	"	0.167	<0.000624	61	30-130			
Benzo(b)fluoranthene	0.0728	0.00067	"	0.167	<0.000585	43.5	30-130			
Fluorene	0.0916	0.00067	"	0.167	<0.000286	54.8	30-130			
Benzo(k)fluoranthene	0.0845	0.00067	"	0.167	<0.000437	50.5	30-130			
Pyrene	0.102	0.00067	"	0.167	<0.000643	61	30-130			
Fluoranthene	0.103	0.00067	"	0.167	<0.000394	61.6	30-130			
1-Methylnaphthalene	0.0886	0.00201	"	0.167	<0.00109	53	30-130			

Origins Laboratory, Inc.



Jen Pellegrini For Jordan A. Bynon, Project Manager

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 Wheat Ridge CO 80033

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Born Sitzman 1

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 L682147 - 3550B

MS (L 93317-MS-L682147)		Source: 93317			Prepared: 05/17/2023 Analyzed: 05/18/2023					
Benzo(a)anthracene	0.0993	0.00067	mg/Kg	0.167	<0.000493	59.4	30-130			
Anthracene	0.104	0.00067	"	0.167	<0.000334	62.2	30-130			
Acenaphthene	0.0926	0.00067	"	0.167	<0.000304	55.4	30-130			
2-Methylnaphthalene	0.0802	0.00201	"	0.167	<0.00194	48	30-130			
Benzo(a)pyrene	0.0992	0.00067	"	0.167	<0.000468	59.4	30-130			
Dibenz(a,h)anthracene	0.0704	0.00067	"	0.167	<0.000614	42.1	30-130			
Surrogate: Nitrobenzene-d5	48.3		"	0.333	139	48.3	29-110			
Surrogate: 4-Terphenyl-d14	66.6		"	0.333	157	66.6	33-122			
Surrogate: 2-Fluorobiphenyl	53.4		"	0.333	137	53.4	33-115			

LCS (LCS-L682147)					Prepared: 05/17/2023 Analyzed: 05/18/2023					
Benzo(k)fluoranthene	0.0991	0.00067	mg/Kg	0.167		59.3	30-130			
Chrysene	0.115	0.00067	"	0.167		68.8	30-130			
Fluoranthene	0.107	0.00067	"	0.167		64	30-130			
Indeno(1,2,3-cd)pyrene	0.107	0.00067	"	0.167		64	30-130			
Benzo(b)fluoranthene	0.0746	0.00067	"	0.167		44.6	30-130			
Pyrene	0.106	0.00067	"	0.167		63.4	30-130			
Dibenz(a,h)anthracene	0.071	0.00067	"	0.167		42.5	30-130			
1-Methylnaphthalene	0.0857	0.00201	"	0.167		51.3	30-130			
Benzo(a)anthracene	0.0963	0.00067	"	0.167		57.6	30-130			
Anthracene	0.106	0.00067	"	0.167		63.4	30-130			
Acenaphthene	0.0874	0.00067	"	0.167		52.3	30-130			
2-Methylnaphthalene	0.0762	0.00201	"	0.167		45.6	30-130			
Fluorene	0.0857	0.00067	"	0.167		51.3	30-130			
Benzo(a)pyrene	0.103	0.00067	"	0.167		61.6	30-130			
Surrogate: Nitrobenzene-d5	46.5		"	0.333		46.5	29-110			
Surrogate: 4-Terphenyl-d14	66.9		"	0.333		66.9	33-122			

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Jen Pellegrini For Jordan A. Bynon, Project Manager

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Martin C Eckert III
 Project Number: [none]
 Project: Noble - Born Sitzman 1

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
Batch L682147 - 3550B										
LCS (LCS-L682147)					Prepared: 05/17/2023 Analyzed: 05/18/2023					
Surrogate: 2-Fluorobiphenyl	50.7		mg/Kg	0.333		50.7	33-115			
LRB (LRB-L682147)					Prepared: 05/17/2023 Analyzed: 05/18/2023					
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	"				-			
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	0.00201	"				-			
1-Methylnaphthalene	ND	0.00201	"				-			
Pyrene	ND	0.00067	"				-			
Anthracene	ND	0.00067	"				-			
Surrogate: Nitrobenzene-d5	51		"	0.333		51	29-110			
Surrogate: 4-Terphenyl-d14	66.9		"	0.333		66.9	33-122			
Surrogate: 2-Fluorobiphenyl	56.1		"	0.333		56.1	33-115			

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Jen Pellegrini For Jordan A. Bynon, Project Manager

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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 - Born Sitzman 1

Notes and Definitions

U Sample is Non-Detect.

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

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

* QC Failure

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported on a wet weight basis.

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

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Jen Pellegrini For Jordan A. Bynon, Project Manager

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