

Wellhead Closure Checklist

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

Additional attachments (optional):	Pit Closure	Tank Battery Closure	Flowline Closure	Partially Buried Vault Closure
Site Name & COGCC Facility Number: WPF III #AIR-13A	Date: 10-19-22			Remediation Project #: 25010
Associated Wells: 05-123-13197	Age of Site: YEARS			Number of Photos Attached: 1
Location: (GPS coordinates of wellhead or southeastern most wellhead for multiple) 40.480189, -104.599693				Estimated Facility Size (acres):

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

USCS Soil Type: **SW** Estimated Depth to Groundwater: **> 2.0'**

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	05-123-13197					
Age	YEARS					
Condition of surface around wellhead	GOOD - PER CREW					
PID Readings	N/A - EXCAVATED UPON ARRIVAL					
Condition of subsurface (not to be present)	GOOD					
PID Readings	1.9	1.9	2.0	2.1	2.9	
Sample taken? Location/Sample Type	WH-SS-01	WH-SS-02	WH-SS-03	WH-SS-04	WH-SS-01	
Photo Number(s)	SEE PHOTOS					

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

Summary

Was impacted soil identified?		<input checked="" type="radio"/> 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:	2.9	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		Estimated spill volume:	
Lateral extent:			Volume of soil removed:	
Is additional investigation required?				
Was groundwater encountered during the investigation?				
<input checked="" type="radio"/> 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	Volume of groundwater removed prior to sampling:	
Free product observed?	Yes	No	Volume of groundwater removed post sampling:	
Total number of samples collected:			Total Volume of groundwater removed:	
Total number of samples submitted to lab for analysis:				



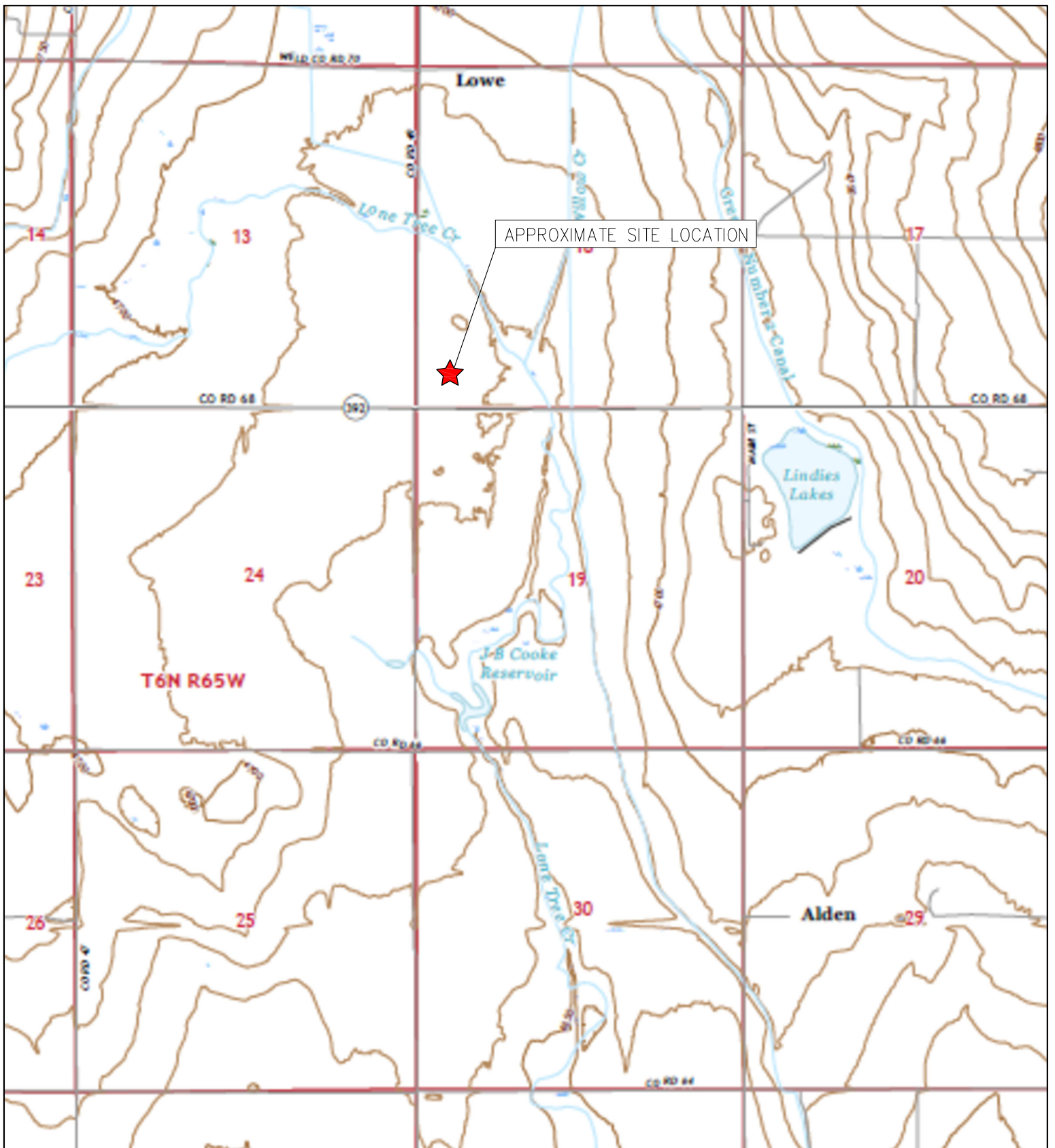
FIGURES

Figure 1: Topographic Site Location Map

Figure 2: Aerial Site Location Map

Figure 3: Soil Analytical Map

Figure 4: Polycyclic Aromatic Hydrocarbons Map

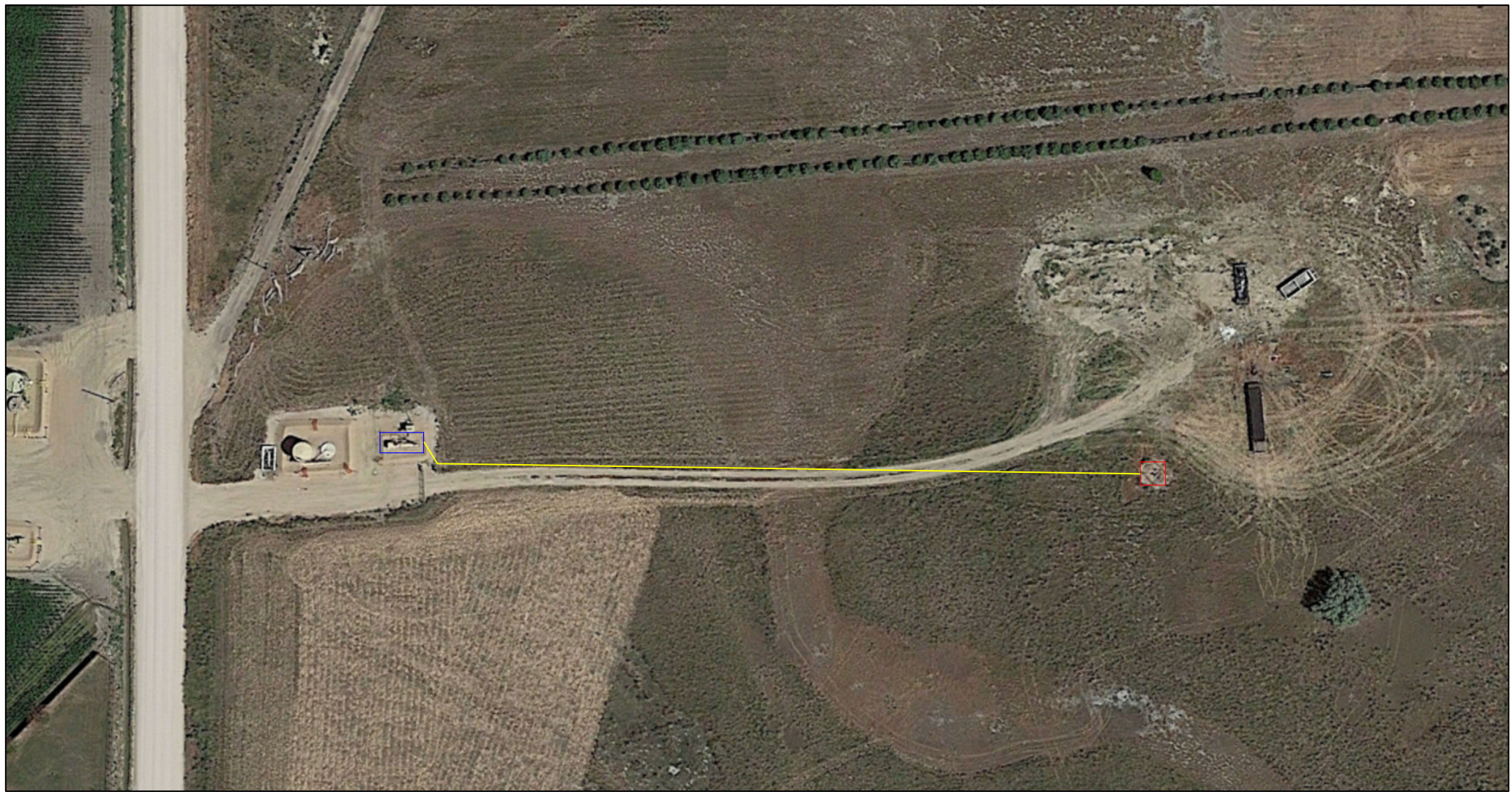


TOPOGRAPHIC SITE LOCATION MAP
 WPF III #A18-13A
 CLOSURE ASSESSMENT
 40.480489 / -104.599693
 SW 1/4 SW 1/4 SEC.18 T6N R64W 6PM
 WELD COUNTY, COLORADO
 API # 05-123-13197
 REMEDIATION # 25040



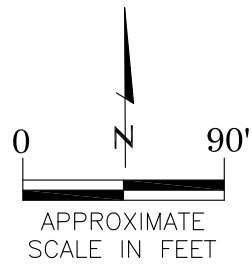
EAGLE
 ENVIRONMENTAL
 CONSULTING, INC.

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



LEGEND

- FORMER WPF III #A18-13A WELLHEAD (PLUGGED AND ABANDONED)
- ASSOCIATED SEPARATOR
- APPROXIMATE FLOWLINE LOCATION



AERIAL SITE LOCATION MAP
 WPF III #A18-13A
 CLOSURE ASSESSMENT
 40.480489 / -104.599693
 SW¼ SW¼ SEC.18 T6N R64W 6PM
 WELD COUNTY, COLORADO
 API # 05-123-13197
 REMEDIATION # 25040

DRAWN BY:
IM

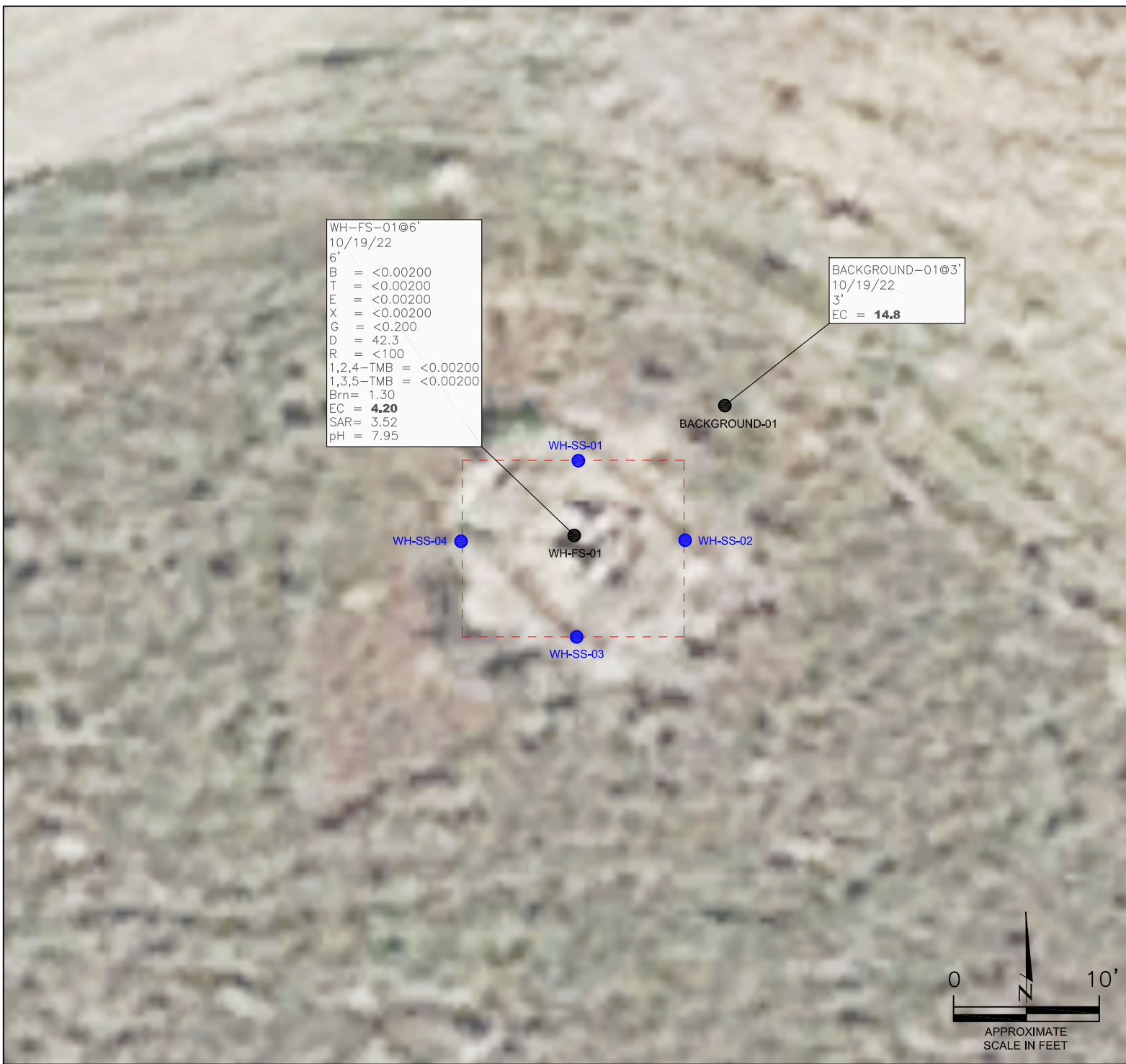
FIG. NO.
2



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WH-FS-01@6'
 10/19/22
 6'
 B = <0.00200
 T = <0.00200
 E = <0.00200
 X = <0.00200
 G = <0.200
 D = 42.3
 R = <100
 1,2,4-TMB = <0.00200
 1,3,5-TMB = <0.00200
 Brn= 1.30
 EC = **4.20**
 SAR= 3.52
 pH = 7.95

BACKGROUND-01@3'
 10/19/22
 3'
 EC = **14.8**

LEGEND

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

PARAMETERS

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

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

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

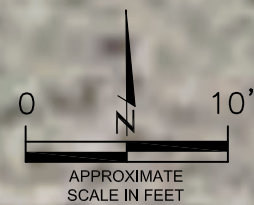
NOTES:
 VALUES PRESENTED WITH A LESS THAN SYMBOL (<) DID NOT CONTAIN CONCENTRATIONS AT OR ABOVE LABORATORY DETECTION LIMITS.

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

COGCC = COLORADO OIL AND GAS CONSERVATION COMMISSION

SOIL ANALYTICAL MAP

WPF III #A18-13A
 CLOSURE ASSESSMENT
 40.480489 / -104.599693
 SW 1/4 SW 1/4 SEC.18 T6N R64W 6PM
 WELD COUNTY, COLORADO
 API # 05-123-13197
 REMEDIATION # 25040

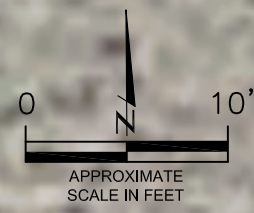
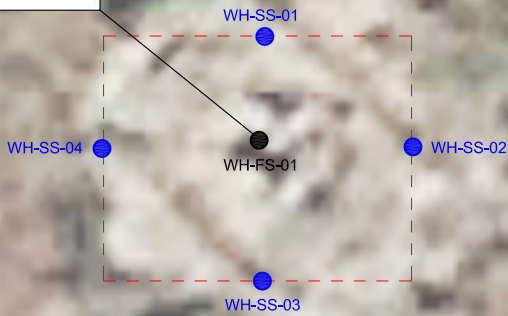


DRAWN BY:
IM

FIG. NO. 3

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WH-FS-01@6'
 10/19/22
 6'
 ND = <0.00335
 1-Methylnaphthalene = ND
 2-Methylnaphthalene = ND
 Acenaphthene = ND
 Anthracene = ND
 Benzo(a)anthracene = ND
 Benzo(a)pyrene = ND
 Benzo(b)fluoranthene = ND
 Benzo(k)fluoranthene = ND
 Chrysene = ND
 Dibenzo(a,h)anthracene = ND
 Fluoranthene = ND
 Fluorene = ND
 Indeno(1,2,3-CD)pyrene = ND
 Naphthalene = ND
 Pyrene = ND



LEGEND

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

PARAMETERS

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

mg/kg = MILLIGRAMS PER KILOGRAM

ND = NON-DETECT

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

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

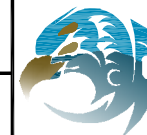
COGCC = COLORADO OIL AND GAS CONSERVATION COMMISSION

POLYCYCLIC AROMATIC HYDROCARBONS MAP

WPF III #A18-13A
 CLOSURE ASSESSMENT
 40.480489 / -104.599693
 SW¼ SW¼ SEC.18 T6N R64W 6PM
 WELD COUNTY, COLORADO
 API # 05-123-13197
 REMEDIATION # 25040

DRAWN BY:
 IM

FIG. NO. 4



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TABLES

Table 1: Photoionization Detector Reading Summary

Table 2: Soil Analytical Results Summary

TABLE 1
PHOTOIONIZATION DETECTOR READING SUMMARY
WPF III #A18-13A
CLOSURE ASSESSMENT
40.480489 / -104.599693
SW 1/4 SW 1/4 SEC.18 T6N R64W 6PM
WELD COUNTY, COLORADO
API # 05-123-13197
REMEDIATION # 25040

Sample Location (Latitude/Longitude)	Date	Approximate Depth (feet)	PID Reading (ppm-v)	Lab Submission (Y/N)
WH-SS-01 @ 5' (40.480501 / -104.599686)	10/19/22	5	1.9	N
WH-SS-02 @ 5' (40.480488 / -104.599662)	10/19/22	5	1.9	N
WH-SS-03 @ 5' (40.480473 / -104.599687)	10/19/22	5	2.0	N
WH-SS-04 @ 5' (40.480485 / -104.599710)	10/19/22	5	2.1	N
WH-FS-01 @ 6' (40.480493 / -104.599686)	10/19/22	6	2.9	Y
BACKGROUND-01 @ 3' (40.480514 / -104.599642)	10/19/22	3	1.2	Y
(Y/N) = Yes or No ppm-v = parts per million by volume PID = Photoionization Detector				



TABLE 2
SOIL ANALYTICAL RESULTS
WPF III #A18-13A
CLOSURE ASSESSMENT
40.480489 / -104.599693
SW 1/4 SW 1/4 SEC.18 T6N R64W 6PM
WELD COUNTY, COLORADO
API # 05-123-13197
REMEDIATION # 25040

Sample Location (Latitude / Longitude)		WH-FS-01 @ 6' (40.480493 / -104.599686)		BACKGROUND-01 @ 3' (40.480514 / -104.599642)	
Sample Date		10/19/2022		10/19/2022	
Sample Depth		6'		3'	
PID Reading (ppm-v)		2.9		1.2	
Regulatory Limits					
Chemical of Concern	Units	COGCC Table 915-1 RSSLs	COGCC Table 915-1 GSSLs		
VOCs					
Benzene	mg/kg	1.2	0.0026	<0.00200	NA
Toluene	mg/kg	490	0.69	<0.00200	NA
Ethylbenzene	mg/kg	5.8	0.78	<0.00200	NA
Total Xylenes	mg/kg	58	9.9	<0.00200	NA
1,2,4-Trimethylbenzene	mg/kg	30	0.0081	<0.00200	NA
1,3,5-Trimethylbenzene	mg/kg	27	0.0087	<0.00200	NA
TOTAL PETROLEUM HYDROCARBONS					
TPH-GRO	mg/kg	500	--	<0.200	NA
TPH-DRO	mg/kg	500	--	42.3	NA
TPH-RRO	mg/kg	500	--	<100	NA
POLYCYCLIC AROMATIC HYDROCARBONS					
1-Methyl-naphthalene	mg/kg	18	0.006	<0.00335	NA
2-Methyl-naphthalene	mg/kg	24	0.019	<0.00335	NA
Acenaphthene	mg/kg	360	0.55	<0.00335	NA
Anthracene	mg/kg	1800	5.8	<0.00335	NA
Benzo(a)-anthracene	mg/kg	1.1	0.011	<0.00335	NA
Benzo(a)-pyrene	mg/kg	0.11	0.24	<0.00335	NA
Benzo(b)-fluoranthene	mg/kg	1.1	0.3	<0.00335	NA
Benzo(k)-fluoranthene	mg/kg	11	2.9	<0.00335	NA
Chrysene	mg/kg	110	9	<0.00335	NA
Dibenzo(a,h)-anthracene	mg/kg	0.11	0.096	<0.00335	NA
Fluoranthene	mg/kg	240	8.9	<0.00335	NA
Fluorene	mg/kg	240	0.54	<0.00335	NA
Indeno(1,2,3-cd)-pyrene	mg/kg	1.1	0.98	<0.00335	NA
Naphthalene	mg/kg	2	0.0038	<0.00335	NA
Pyrene	mg/kg	180	1.3	<0.00335	NA
SOIL SUITABILITY (Inorganics)					
Boron	mg/L	2	--	1.3	NA
pH	standard unit	6-8.3	--	7.95	NA
Sodium Adsorption Ratio (SAR)	--	<6	--	3.52	NA
Specific Conductance (EC)	mmhos/cm	<4	--	4.20	14.8
COGCC = Colorado Oil and Gas Conservation Commission		NA - Not Analyzed		VOCs - Volatile Organic Compounds	
mg/kg = milligrams per kilogram					
mmhos/cm = millimhos per centimeter		RSSLs = Residential Soil Screening Levels			
PID = Photoionization Detector		GSSLs = Protection of Groundwater Soil Screening Levels			
ppm-v = parts per million by volume		TPH-GRO = Total Petroleum Hydrocarbons - Gasoline Range Organics			
mg/L = milligrams per liter		TPH-DRO = Total Petroleum Hydrocarbons - Diesel Range Organics			
SAR = Sodium Adsorption Ratio		TPH-RRO = Total Petroleum Hydrocarbons - Residual Range Organics			
Notes:					
Values presented with a less than symbol (<) did not contain concentrations at or above the laboratory reporting limit and/or minimum detection limit					
Values presented in BOLD exceed COGCC Table 915-1 Regulatory Limits. Values presented with asterisk (*) exceed COGCC Table 915-1 GSSLs					



ATTACHMENT A

Photo Log

WPF III #A18-13A
API # 05-123-13197
Remediation # 25040

Closure Assessment

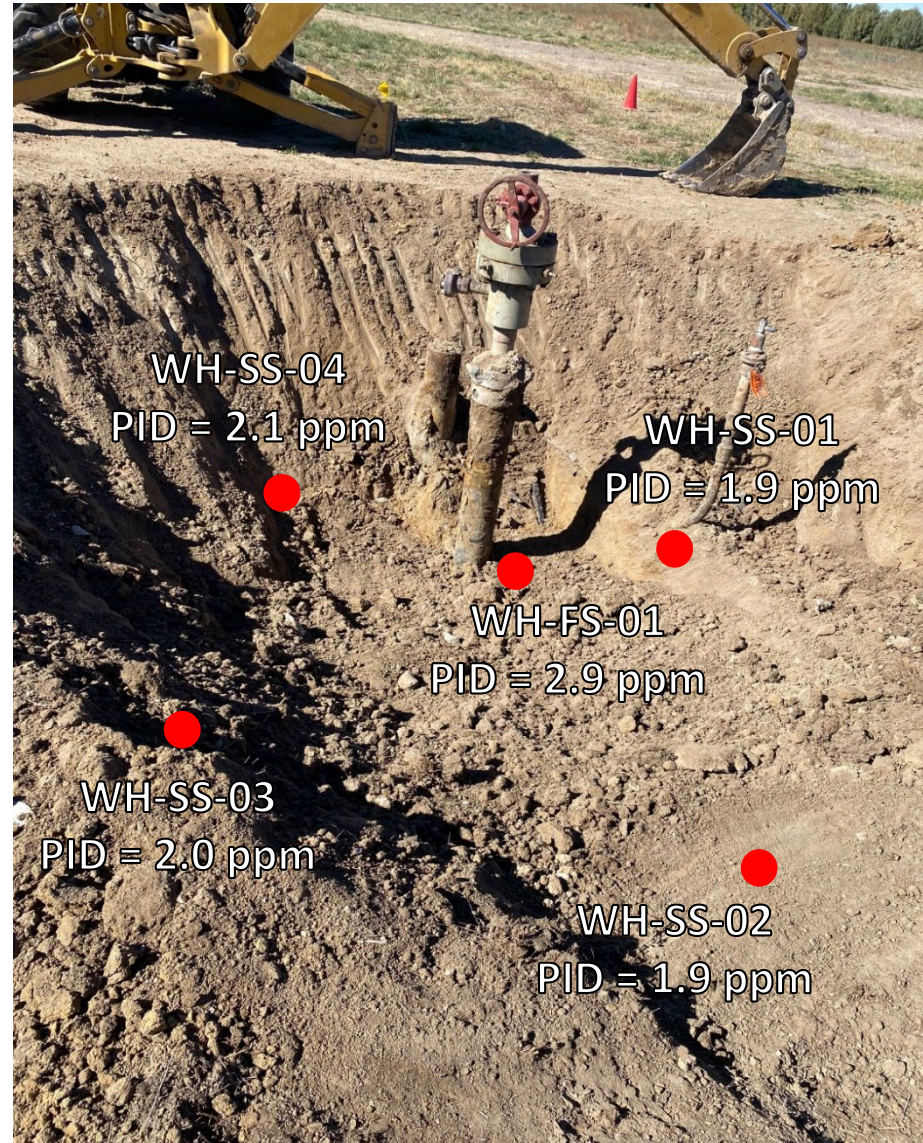
October 2022



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



Wellhead Excavation – 10/19/22



Looking northwest

No petroleum hydrocarbon staining or odor observed



ATTACHMENT B

Laboratory Analytical Reports



November 03, 2022

Eagle Environmental Consulting, Inc.

Martin C Eckert III

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - Noble - WPF III #A18-13A

Project Number - [none]

Attached are your analytical results for Noble - WPF III #A18-13A received by Origins Laboratory, Inc. October 19, 2022. This project is associated with Origins project number Y210493-01.

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

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

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

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

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

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



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

Martin C Eckert III
Project Number: [none]
Project: Noble - WPF III #A18-13A

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
WH-FS-01@6'	Y210493-01	Soil	October 19, 2022 12:48	10/19/2022 16:08

Origins Laboratory, Inc.



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

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

Martin C Eckert III
 Project Number: [none]
 Project: Noble - WPF III #A18-13A

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: 4210403

Client: Eagle Environmental
 Client Project ID: WPF III #A18-3

Checklist Completed by: TSH/DE

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

Date/time completed: 10/20/22

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

Cooler Number/Temperature: 1, 4.0 °C / _____ °C / _____ °C (Describe)

Thermometer ID: 1004

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

[Signature]
 Reviewed by (Project Manager)

10/24/22
 Date/Time Reviewed

Origins Laboratory, Inc.

[Signature]

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

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

Martin C Eckert III
 Project Number: [none]
 Project: Noble - WPF III #A18-13A

WH-FS-01@6'
10/19/2022 12:48:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y210493-01 (Soil)

Boron (DTPA Sorbitol)

Boron	1.30		0.100	mg/L	1	B2J2509	10/25/2022	10/26/2022	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	42.3		25.0	mg/kg	1	B2J3114	10/31/2022	10/31/2022	
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: <i>o</i> -Terphenyl	105 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B2J2518	10/25/2022	10/27/2022	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	106 %		70-130			"	"	"	
Surrogate: Toluene-d8	102 %		70-130			"	"	"	

Origins Laboratory, Inc.



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

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

Martin C Eckert III
 Project Number: [none]
 Project: Noble - WPF III #A18-13A

WH-FS-01@6'
10/19/2022 12:48:00PM

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

Origins Laboratory, Inc.
Y210493-01 (Soil)

GBTEX+TMBs by 8260D

Surrogate: 4-Bromofluorobenzene	93.7 %		70-130			B2J25 18	10/25/2022	10/27/2022	
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Metals by Saturated Paste by EPA 6010

Calcium	24.4		0.499	meq/L	10	[CALC]	10/25/2022	10/26/2022	
Magnesium	9.02		0.823	"	"	"	"	"	
Sodium	14.4		0.435	"	"	"	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00182	0.00335	mg/Kg	5	L645224	10/26/2022	10/26/2022	
2-Methylnaphthalene	ND	0.00323	0.00335	"	"	"	"	"	
Acenaphthene	ND	0.00152	0.00335	"	"	"	"	"	
Anthracene	ND	0.00167	0.00335	"	"	"	"	"	
Benzo(a)anthracene	ND	0.00247	0.00335	"	"	"	"	"	
Benzo(a)pyrene	ND	0.00234	0.00335	"	"	"	"	"	
Benzo(b)fluoranthene	ND	0.00293	0.00335	"	"	"	"	"	
Benzo(k)fluoranthene	ND	0.00219	0.00335	"	"	"	"	"	
Chrysene	ND	0.00312	0.00335	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.00307	0.00335	"	"	"	"	"	
Fluoranthene	ND	0.00197	0.00335	"	"	"	"	"	
Fluorene	ND	0.00143	0.00335	"	"	"	"	"	

Origins Laboratory, Inc.



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

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

Martin C Eckert III
 Project Number: [none]
 Project: Noble - WPF III #A18-13A

WH-FS-01@6'
10/19/2022 12:48:00PM

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

Waypoint Analytical, LLC.
Y210493-01 (Soil)

PAH by 8270D SIM

Indeno(1,2,3-cd)pyrene	ND	0.00314	0.00335	mg/Kg	5	L645224	10/26/2022	10/26/2022	
Naphthalene	ND	0.00242	0.00335	"	"	"	"	"	
Pyrene	ND	0.00322	0.00335	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	52.8 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	66.9 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	59.5 %		29-110			"	"	"	

pH in Soil by 9045D

pH	7.95			pH Units	1	B2J2513	10/25/2022	10/26/2022	
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SAR by 20B Saturated Paste

SAR	3.52			SAR	1	B2J2506	10/25/2022	10/26/2022	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	4.20		0.00500	mmhos/cm	1	B2J2513	10/25/2022	10/26/2022	
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Eagle Environmental Consulting, Inc.
 8000 W 44th Ave
 Wheat Ridge CO 80033

Martin C Eckert III
 Project Number: [none]
 Project: Noble - WPF III #A18-13A

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 B2J2518 - EPA 5030 (soil)

Blank (B2J2518-BLK1)

Prepared: 10/25/2022 Analyzed: 10/26/2022

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							U
1,3,5-Trimethylbenzene	ND	0.00200	"							U
Benzene	ND	0.00200	"							U
Ethylbenzene	ND	0.00200	"							U
Naphthalene	ND	0.00380	"							U
Toluene	ND	0.00200	"							U
Xylenes, total	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125	103		70-130			
Surrogate: Toluene-d8	0.13		"	0.125	102		70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125	102		70-130			

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Martin C Eckert III
 Project Number: [none]
 Project: Noble - WPF III #A18-13A

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 B2J2518 - EPA 5030 (soil)

LCS (B2J2518-BS1)

Prepared: 10/25/2022 Analyzed: 10/26/2022

1,2,4-Trimethylbenzene	0.110	0.00200	mg/kg	0.100		110	70-130			
1,3,5-Trimethylbenzene	0.111	0.00200	"	0.100		111	70-130			
Benzene	0.105	0.00200	"	0.100		105	70-130			
Ethylbenzene	0.104	0.00200	"	0.100		104	70-130			
Naphthalene	0.0953	0.00380	"	0.100		95.3	70-130			
Toluene	0.106	0.00200	"	0.100		106	70-130			
o-Xylene	0.106	0.00200	"	0.100		106	70-130			
m,p-Xylene	0.216	0.00400	"	0.200		108	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		107	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		102	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		99.0	70-130			

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Martin C Eckert III
 Project Number: [none]
 Project: Noble - WPF III #A18-13A

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 B2J2518 - EPA 5030 (soil)

Matrix Spike (B2J2518-MS1)	Source: Y210562-01			Prepared: 10/25/2022 Analyzed: 10/26/2022						
1,2,4-Trimethylbenzene	0.0772	0.00200	mg/kg	0.100	ND	77.2	70-130			
1,3,5-Trimethylbenzene	0.129	0.00200	"	0.100	0.0272	102	70-130			
Benzene	0.102	0.00200	"	0.100	ND	102	70-130			
Ethylbenzene	0.0981	0.00200	"	0.100	ND	98.1	70-130			
Naphthalene	0.0184	0.00380	"	0.100	0.00252	15.9	70-130			QM-07
Toluene	0.101	0.00200	"	0.100	ND	101	70-130			
o-Xylene	0.101	0.00200	"	0.100	ND	101	70-130			
m,p-Xylene	0.185	0.00400	"	0.200	ND	92.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		104	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		100	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		101	70-130			

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Martin C Eckert III
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 Project: Noble - WPF III #A18-13A

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 B2J2518 - EPA 5030 (soil)

Matrix Spike Dup (B2J2518-MSD1)	Source: Y210562-01			Prepared: 10/25/2022 Analyzed: 10/26/2022						
1,2,4-Trimethylbenzene	0.0621	0.00200	mg/kg	0.100	ND	62.1	70-130	21.7	20	QM-07
1,3,5-Trimethylbenzene	0.132	0.00200	"	0.100	0.0272	105	70-130	2.30	20	
Benzene	0.100	0.00200	"	0.100	ND	100	70-130	2.13	20	
Ethylbenzene	0.0966	0.00200	"	0.100	ND	96.6	70-130	1.58	20	
Naphthalene	0.00604	0.00380	"	0.100	0.00252	3.52	70-130	101	20	QM-07
Toluene	0.0969	0.00200	"	0.100	ND	96.9	70-130	3.65	20	
o-Xylene	0.0980	0.00200	"	0.100	ND	98.0	70-130	2.76	20	
m,p-Xylene	0.170	0.00400	"	0.200	ND	85.0	70-130	8.31	20	
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		101	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		99.6	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		102	70-130			

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Martin C Eckert III
 Project Number: [none]
 Project: Noble - WPF III #A18-13A

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 B2J3114 - EPA 3580										
Blank (B2J3114-BLK1)										
					Prepared: 10/31/2022 Analyzed: 10/31/2022					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	25		"	24.9		101	50-150			

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 Project Number: [none]
 Project: Noble - WPF III #A18-13A

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 B2J3114 - EPA 3580

LCS (B2J3114-BS1)

Prepared: 10/31/2022 Analyzed: 10/31/2022

Diesel (C10-C28)	922	50.0	mg/kg	1000		92.2	70-130			
Residual Range Organics (C28-C40)	930	200	"	1000		93.0	70-130			
Surrogate: o-Terphenyl	49		"	49.8		97.6	50-150			

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Martin C Eckert III
 Project Number: [none]
 Project: Noble - WPF III #A18-13A

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 B2J3114 - EPA 3580										
LCS Dup (B2J3114-BSD1)										
					Prepared: 10/31/2022 Analyzed: 10/31/2022					
Diesel (C10-C28)	928	50.0	mg/kg	1000		92.8	70-130	0.655	35	
Residual Range Organics (C28-C40)	906	200	"	1000		90.6	70-130	2.60	35	
Surrogate: o-Terphenyl	48		"	49.8		96.4	50-150			

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Martin C Eckert III
 Project Number: [none]
 Project: Noble - WPF III #A18-13A

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 B2J2506 - Saturated Paste

Blank (B2J2506-BLK1)

Prepared: 10/25/2022 Analyzed: 10/26/2022

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

Duplicate (B2J2506-DUP1)

Source: Y210483-01

Prepared: 10/25/2022 Analyzed: 10/26/2022

Calcium PPM	16.6	10.0	mg/L		16.7			0.210	50	
SAR	0.00		SAR		0.656			200	200	
Magnesium PPM	4.92	10.0	mg/L		4.98			1.39	50	
Sodium PPM	11.5	10.0	"		11.9			2.94	50	

Batch B2J2509 - DTPA Sorbitol Preparation

Blank (B2J2509-BLK1)

Prepared: 10/25/2022 Analyzed: 10/26/2022

Boron	ND	0.100	mg/L							
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Duplicate (B2J2509-DUP1)

Source: Y210480-07

Prepared: 10/25/2022 Analyzed: 10/26/2022

Boron	0.120	0.0988	mg/L		0.0974			20.9	50	
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Martin C Eckert III
 Project Number: [none]
 Project: Noble - WPF III #A18-13A

Saturated Paste - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B2J2513 - NO PREP

Blank (B2J2513-BLK1)

Prepared: 10/25/2022 Analyzed: 10/26/2022

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

Duplicate (B2J2513-DUP1)

Source: Y210483-01

Prepared: 10/25/2022 Analyzed: 10/26/2022

pH	8.58		pH Units		8.50		0.937	25		
Specific Conductance (EC)	0.186	0.00500	mmhos/cm		0.197		5.69	25		

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Martin C Eckert III
 Project Number: [none]
 Project: Noble - WPF III #A18-13A

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 L645224 - 3550B

MSD (L 82334-MSD-L645224)		Source: 82334			Prepared: 10/26/2022 Analyzed: 10/26/2022					
1-Methylnaphthalene	0.178	0.0067	mg/Kg	0.164	4.46	NR	30-130	7	30	*
Fluorene	0.149	0.0067	"	0.164	0.561	NR	30-130	6.4	30	*
2-Methylnaphthalene	0.234	0.0067	"	0.164	<0.00645	143	30-130	4.5	30	*
Pyrene	0.139	0.0067	"	0.164	0.0767	37.9	30-130	0.7	30	
Indeno(1,2,3-cd)pyrene	0.0985	0.0067	"	0.164	<0.00627	60	30-130	32.6	30	*
Fluoranthene	0.142	0.0067	"	0.164	0.00964	80.7	30-130	13.5	30	
Dibenz(a,h)anthracene	0.1	0.0067	"	0.164	<0.00614	60.9	30-130	32.6	30	*
Chrysene	0.147	0.0067	"	0.164	0.166	NR	30-130	4	30	*
Acenaphthene	0.128	0.0067	"	0.164	0.269	NR	30-130	5.3	30	*
Naphthalene	0.136	0.0067	"	0.164	1.91	NR	30-130	2.8	30	*
Benzo(k)fluoranthene	0.112	0.0067	"	0.164	0.00663	64.2	30-130	19	30	
Anthracene	0.137	0.0067	"	0.164	<0.00334	83.5	30-130	12.4	30	
Benzo(a)anthracene	0.147	0.0067	"	0.164	0.0483	60.1	30-130	7.7	30	
Benzo(a)pyrene	0.157	0.0067	"	0.164	0.0106	89.2	30-130	6.5	30	
Benzo(b)fluoranthene	0.115	0.0067	"	0.164	0.0157	60.5	30-130	12.9	30	
Surrogate: 4-Terphenyl-d14	89.9		"	0.329	235	89.9	33-122			
Surrogate: Nitrobenzene-d5	66.2		"	0.329	306	66.2	29-110			
Surrogate: 2-Fluorobiphenyl	75.9		"	0.329	239	75.9	33-115			

MS (L 82334-MS-L645224)		Source: 82334			Prepared: 10/26/2022 Analyzed: 10/26/2022					
Chrysene	0.153	0.0067	mg/Kg	0.163	0.166	NR	30-130			*
Acenaphthene	0.135	0.0067	"	0.163	0.269	NR	30-130			*
Naphthalene	0.14	0.0067	"	0.163	1.91	NR	30-130			*
Indeno(1,2,3-cd)pyrene	0.137	0.0067	"	0.163	<0.00627	84	30-130			
Fluorene	0.159	0.0067	"	0.163	0.561	NR	30-130			*
Fluoranthene	0.124	0.0067	"	0.163	0.00964	70.1	30-130			
Dibenz(a,h)anthracene	0.139	0.0067	"	0.163	<0.00614	85.2	30-130			

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 Wheat Ridge CO 80033

Martin C Eckert III
 Project Number: [none]
 Project: Noble - WPF III #A18-13A

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 L645224 - 3550B

MS (L 82334-MS-L645224)	Source: 82334			Prepared: 10/26/2022 Analyzed: 10/26/2022						
Pyrene	0.138	0.0067	mg/Kg	0.163	0.0767	37.6	30-130			
Benzo(a)anthracene	0.136	0.0067	"	0.163	0.0483	53.8	30-130			
1-Methylnaphthalene	0.191	0.0067	"	0.163	4.46	NR	30-130			*
Benzo(k)fluoranthene	0.0925	0.0067	"	0.163	0.00663	52.6	30-130			
2-Methylnaphthalene	0.245	0.0067	"	0.163	<0.00645	150	30-130			*
Anthracene	0.121	0.0067	"	0.163	<0.00334	74.2	30-130			
Benzo(a)pyrene	0.147	0.0067	"	0.163	0.0106	83.6	30-130			
Benzo(b)fluoranthene	0.101	0.0067	"	0.163	0.0157	52.3	30-130			
Surrogate: Nitrobenzene-d5	73.3		"	0.326	306	73.3	29-110			
Surrogate: 2-Fluorobiphenyl	80.3		"	0.326	239	80.3	33-115			
Surrogate: 4-Terphenyl-d14	71.1		"	0.326	235	71.1	33-122			

LCS (LCS-L645224)	Prepared: 10/26/2022 Analyzed: 10/26/2022									
1-Methylnaphthalene	0.148	0.00067	mg/Kg	0.167		88.6	30-130			
Chrysene	0.143	0.00067	"	0.167		85.6	30-130			
Pyrene	0.149	0.00067	"	0.167		89.2	30-130			
Naphthalene	0.127	0.00067	"	0.167		76	30-130			
Indeno(1,2,3-cd)pyrene	0.138	0.00067	"	0.167		82.6	30-130			
Fluorene	0.125	0.00067	"	0.167		74.8	30-130			
Fluoranthene	0.147	0.00067	"	0.167		88	30-130			
Dibenz(a,h)anthracene	0.146	0.00067	"	0.167		87.4	30-130			
Benzo(b)fluoranthene	0.164	0.00067	"	0.167		98.2	30-130			
Benzo(a)pyrene	0.163	0.00067	"	0.167		97.6	30-130			
Benzo(a)anthracene	0.151	0.00067	"	0.167		90.4	30-130			
Anthracene	0.147	0.00067	"	0.167		88	30-130			
Acenaphthene	0.139	0.00067	"	0.167		83.2	30-130			
2-Methylnaphthalene	0.143	0.00067	"	0.167		85.6	30-130			

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Martin C Eckert III
 Project Number: [none]
 Project: Noble - WPF III #A18-13A

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 L645224 - 3550B

LCS (LCS-L645224)

Prepared: 10/26/2022 Analyzed: 10/26/2022

Benzo(k)fluoranthene	0.141	0.00067	mg/Kg	0.167		84.4	30-130			
Surrogate: Nitrobenzene-d5	82.2		"	0.333		82.2	29-110			
Surrogate: 4-Terphenyl-d14	117		"	0.333		117	33-122			
Surrogate: 2-Fluorobiphenyl	96.3		"	0.333		96.3	33-115			

LRB (LRB-L645224)

Prepared: 10/26/2022 Analyzed: 10/26/2022

Chrysene	ND	0.00067	mg/Kg				-			
Dibenz(a,h)anthracene	ND	0.00067	"				-			
Fluoranthene	ND	0.00067	"				-			
Fluorene	ND	0.00067	"				-			
Benzo(k)fluoranthene	ND	0.00067	"				-			
Naphthalene	0.000529	0.00067	"				-			J
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	0.00157	0.00067	"				-			*
1-Methylnaphthalene	0.000649	0.00067	"				-			J
Pyrene	ND	0.00067	"				-			
Anthracene	ND	0.00067	"				-			
Surrogate: Nitrobenzene-d5	90		"	0.333		90	29-110			
Surrogate: 4-Terphenyl-d14	106		"	0.333		106	33-122			
Surrogate: 2-Fluorobiphenyl	81.9		"	0.333		81.9	33-115			

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Wheat Ridge CO 80033

Martin C Eckert III
Project Number: [none]
Project: Noble - WPF III #A18-13A

Notes and Definitions

U Sample is Non-Detect.

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

J Estimated Value. Analyte below reported quantitation limit.

* 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.

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.



November 17, 2022

Eagle Environmental Consulting, Inc.

Martin C Eckert III

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - Noble - WPF III #A18-13A

Project Number - [none]

Attached are your analytical results for Noble - WPF III #A18-13A received by Origins Laboratory, Inc. November 09, 2022. This project is associated with Origins project number Y211259-01.

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

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

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

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

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

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



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

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

Martin C Eckert III
Project Number: [none]
Project: Noble - WPF III #A18-13A

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Background-01@3'	Y211259-01	Soil	October 19, 2022 12:50	11/09/2022 14:16

Origins Laboratory, Inc.



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

Martin C Eckert III
 Project Number: [none]
 Project: Noble - WPF III #A18-13A

www.originslaboratory.com

4211259

page | of |

Client: Eagle Env. Consulting
 Address: 8000 W 44th Ave
Wheat Ridge, CO 80033
 Telephone Number: 303-433-0479
 Email Address: mce3@eagle-enviro.com

Project Manager: Martin Eckert III
 Project Name: WPF III #A18-13A
 Project Number: —
 Samples Collected By: KM

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis	Sample Instructions	
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	Air/Surface			Canister #
background-01e3'	10/19/22	12:50	1	X				X					separated past prep 1
													2
													3
													4
													5
													6
													7
													8
													9
													10


Relinquished By: [Signature] Date: 11/9/22 Time: 1416
 Relinquished By: [Signature] Date: 11/9/22 Time: 1416

Received By: [Signature] Date: 11/9/22 Time: 1416
 Received By: [Signature] Date: 11/9/22 Time: 1416

Turnaround Time: Same Day 24 Hr
 48 Hr Standard

Temp Received: 0.9 Date Results Needed: N/A

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

Origins Laboratory, Inc.


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

Martin C Eckert III
 Project Number: [none]
 Project: Noble - WPF III #A18-13A

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


Sample Receipt Checklist

Origins Work Order: 4211259 Client: Eagle Environmental
 Checklist Completed by: JAE/OE Client Project ID: WPF III #A18-13A
 Date/time completed: 11/9/12 Shipped Via: AD
 (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 / 09 °C / _____ °C / _____ °C (Describe) _____ °C
 Thermometer ID: T004

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Were all samples received intact ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?		<input checked="" type="checkbox"/>		
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.			<input checked="" type="checkbox"/>	
Are samples preserved that require preservation and was it checked ⁽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)			<input checked="" type="checkbox"/>	
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: JAE (Project Manager) Date/Time Reviewed: 11-10-22

Origins Laboratory, Inc.


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

Martin C Eckert III
Project Number: [none]
Project: Noble - WPF III #A18-13A

Background-01@3'
10/19/2022 12:50:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y211259-01 (Soil)

Specific Conductance Mod. 9050A

Specific Conductance (EC)	14.8	0.00500	mmhos/cm	1	B2K1021	HJD	11/10/2022	11/11/2022	
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Origins Laboratory, Inc.



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

Martin C Eckert III
 Project Number: [none]
 Project: Noble - WPF III #A18-13A

Saturated Paste - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B2K1021 - Saturated Paste pH/EC										
Blank (B2K1021-BLK1)					Prepared: 11/10/2022 Analyzed: 11/11/2022					
Specific Conductance (EC)	ND	0.00500	mmhos/cm							
Duplicate (B2K1021-DUP1)		Source: Y211259-01			Prepared: 11/10/2022 Analyzed: 11/11/2022					
Specific Conductance (EC)	14.4	0.00500	mmhos/cm		14.8			3.20	25	

Origins Laboratory, Inc.



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

Martin C Eckert III
Project Number: [none]
Project: Noble - WPF III #A18-13A

Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported at a wet weight basis.

Origins Laboratory, Inc.



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