



FIGURES

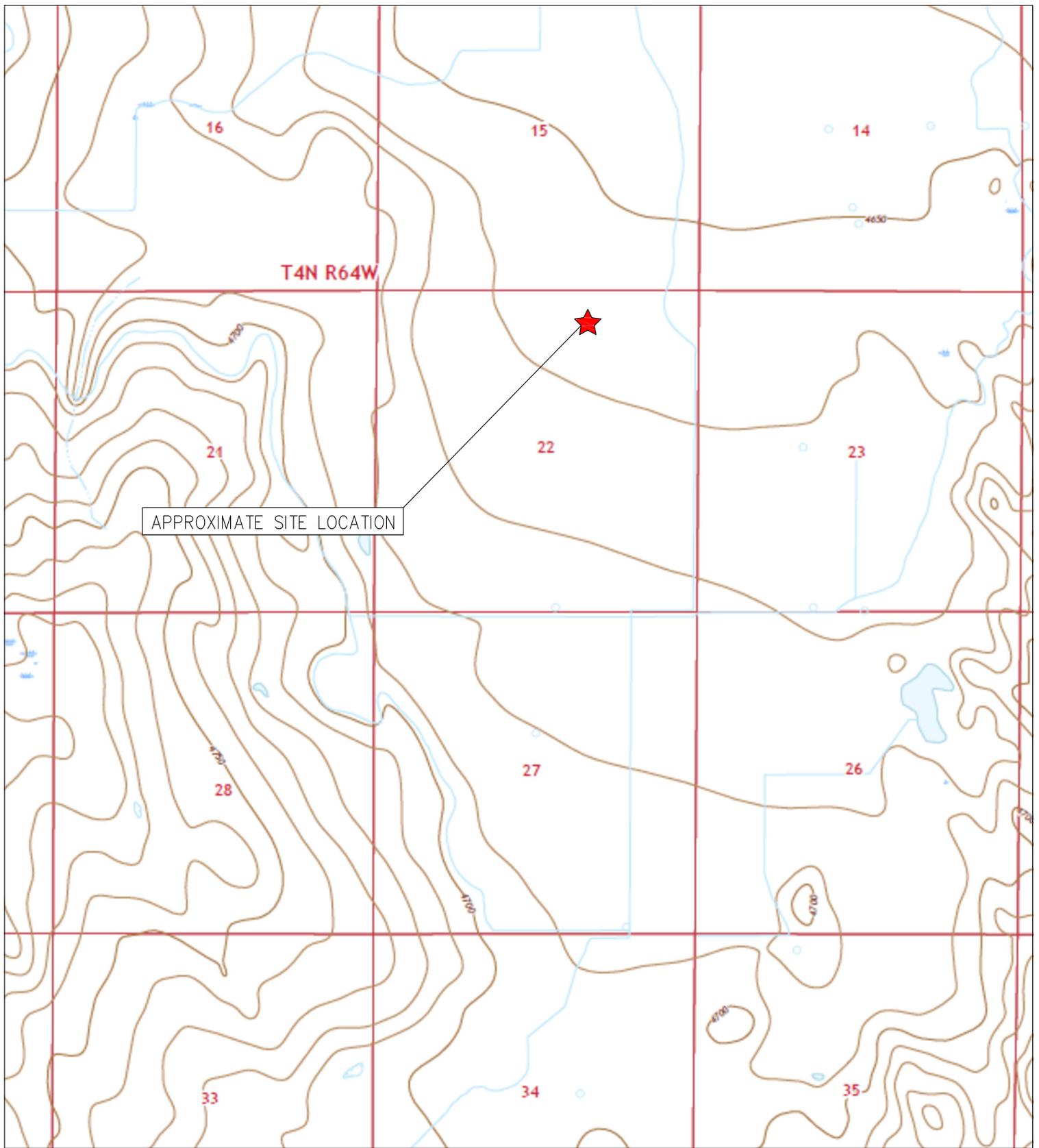
Figure 1: Topographic Site Location Map

Figure 2: Aerial Site Location Map

Figure 3: Soil Analytical Map

Figure 4: Polycyclic Aromatic Hydrocarbons (PAH) Map

Figure 5: Metals in Soil Map

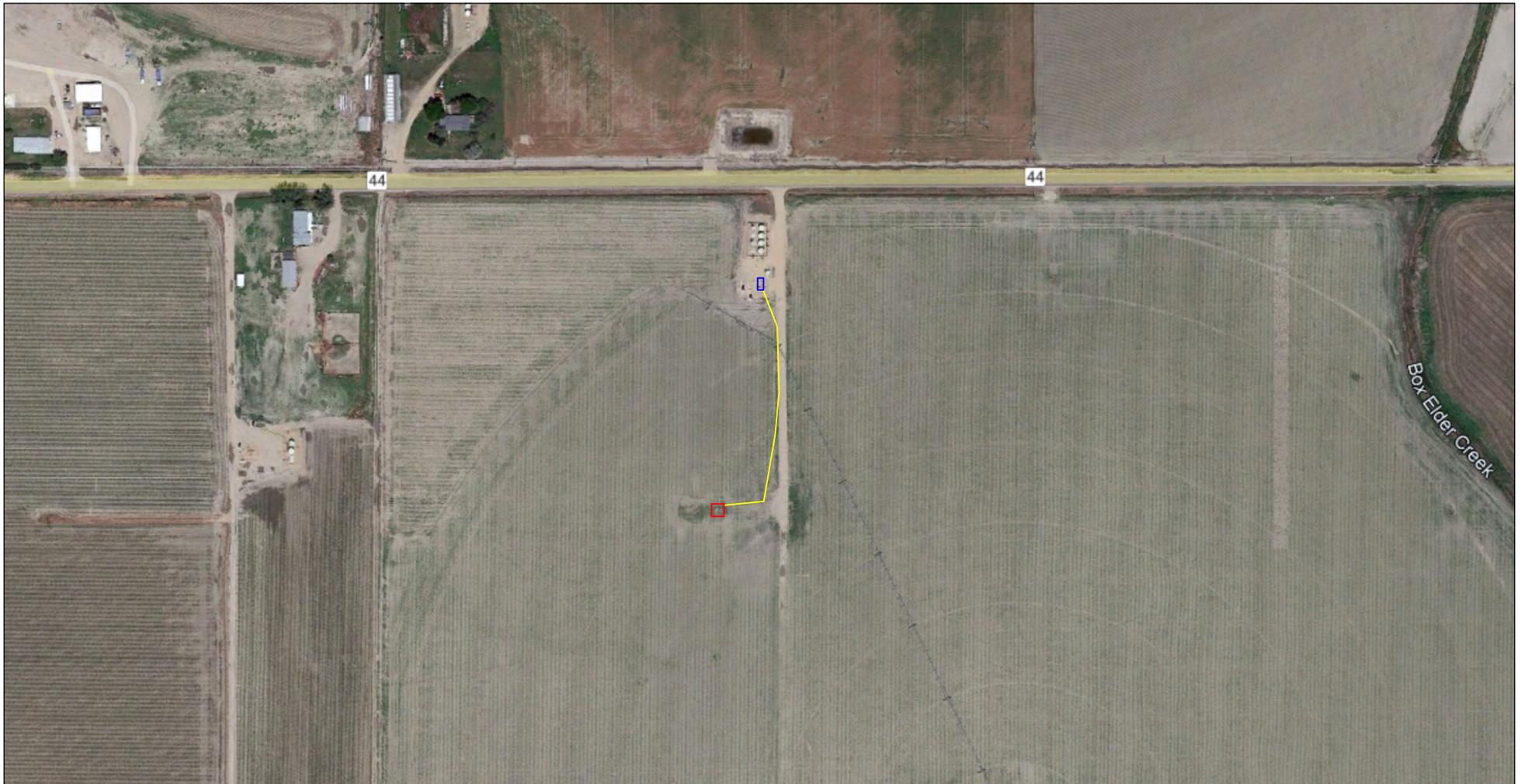


TOPOGRAPHIC SITE LOCATION MAP
 VOLKENS #31-22
 CLOSURE ASSESSMENT
 40.303410 / -104.534350
 NW¼ NE¼ SEC.22 T4N R64W 6PM
 WELD COUNTY, COLORADO
 API # 05-123-11031
 REMEDIATION # 33147



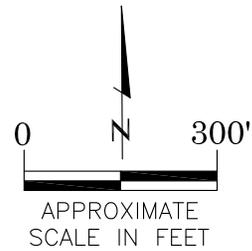
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LEGEND

- FORMER VOLKENS #31-22 WELLHEAD (PLUGGED AND ABANDONED)
- ASSOCIATED SEPARATOR
- APPROXIMATE FLOWLINE LOCATION (REMOVED)



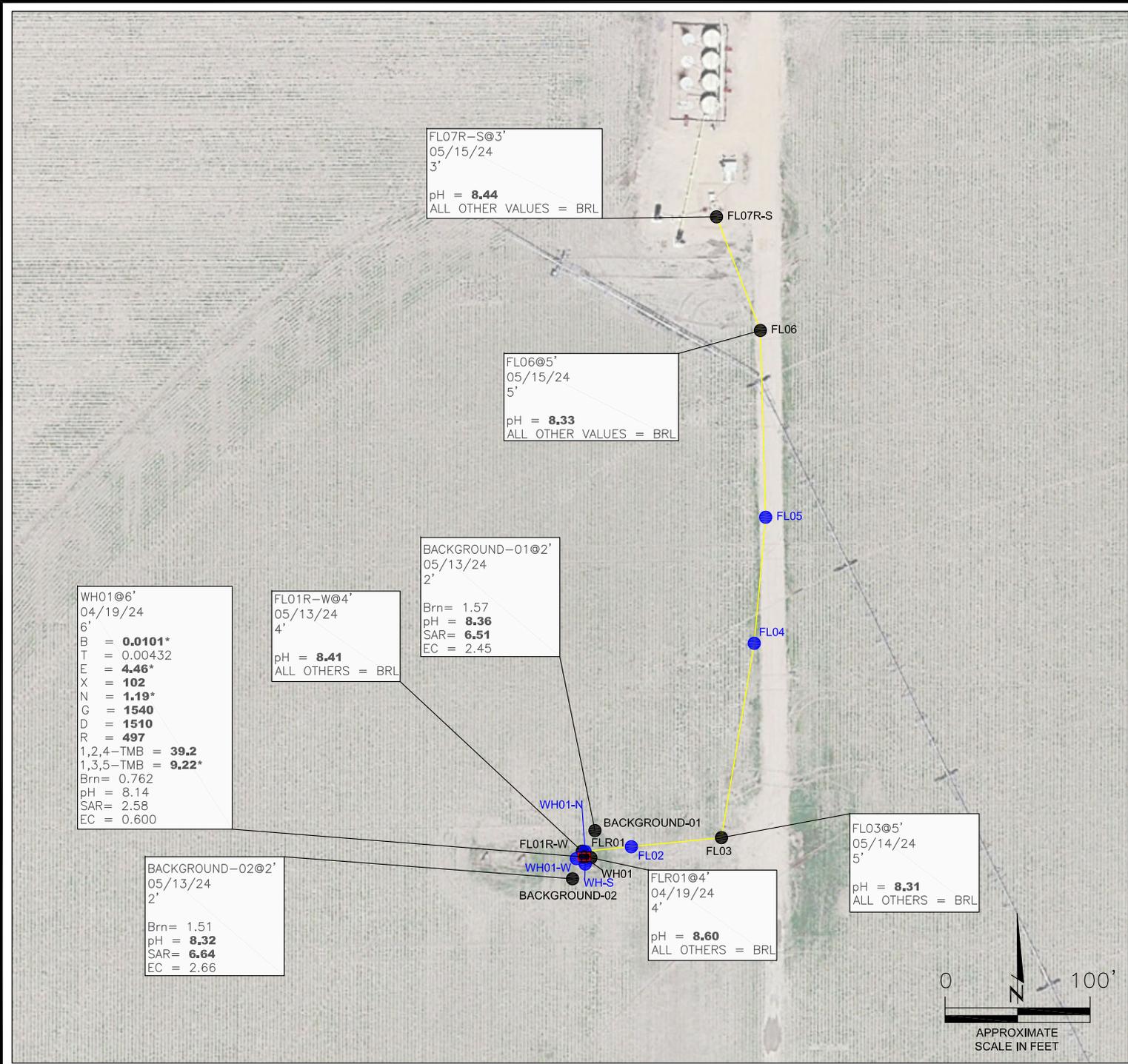
AERIAL SITE LOCATION MAP
 VOLKENS #31-22
 CLOSURE ASSESSMENT
 40.303410 / -104.534350
 NW¼ NE¼ SEC.22 T4N R64W 6PM
 WELD COUNTY, COLORADO
 API # 05-123-11031
 REMEDIATION # 33147

FIGURE NO.
2

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LEGEND

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

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)
pH	= pH (pH UNITS)
SAR	= SODIUM ADSORPTION RATIO
EC	= SPECIFIC CONDUCTANCE (mmhos/cm)

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

BRL = 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.

VALUES PRESENTED WITH ASTERISK (*) EXCEED ECMC TABLE 915-1 PROTECTION OF GROUNDWATER SOIL SCREENING LEVELS, ONLY.

ECMC = ENERGY & CARBON MANAGEMENT COMMISSION

SOIL ANALYTICAL MAP
 VOLKENS #31-22
 CLOSURE ASSESSMENT
 40.303410 / -104.534350
 NW¼ NE¼ SEC.22 T4N R64W 6PM
 WELD COUNTY, COLORADO
 API # 05-123-11031
 REMEDIATION # 33147

FIGURE NO.
3
 DRAWN BY:
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FL07R-S@3'
05/15/24
3'

1-Methylnaphthalene = 0.005
2-Methylnaphthalene = 0.008
Acenaphthene = <0.020
Anthracene = <0.020
Benzo(a)anthracene = <0.005
Benzo(a)pyrene = <0.020
Benzo(b)fluoranthene = <0.020
Benzo(k)fluoranthene = <0.020
Chrysene = <0.020
Dibenzo(a,h)anthracene = <0.020
Fluoranthene = <0.020
Fluorene = <0.020
Indeno(1,2,3-CD)pyrene = <0.020
Pyrene = <0.020

FL06@5'
05/15/24
5'

1-Methylnaphthalene = <0.002
2-Methylnaphthalene = 0.003
Acenaphthene = <0.020
Anthracene = <0.020
Benzo(a)anthracene = **0.024***
Benzo(a)pyrene = <0.020
Benzo(b)fluoranthene = <0.020
Benzo(k)fluoranthene = <0.020
Chrysene = 0.026
Dibenzo(a,h)anthracene = <0.020
Fluoranthene = 0.072
Fluorene = <0.020
Indeno(1,2,3-CD)pyrene = <0.020
Pyrene = 0.044

FL03@5'
05/14/24
5'

1-Methylnaphthalene = <0.002
2-Methylnaphthalene = <0.002
Acenaphthene = <0.020
Anthracene = <0.020
Benzo(a)anthracene = <0.005
Benzo(a)pyrene = <0.020
Benzo(b)fluoranthene = <0.020
Benzo(k)fluoranthene = <0.020
Chrysene = <0.020
Dibenzo(a,h)anthracene = <0.020
Fluoranthene = <0.020
Fluorene = <0.020
Indeno(1,2,3-CD)pyrene = <0.020
Pyrene = <0.020

FL01R-W@4'
05/13/24
4'

1-Methylnaphthalene = **0.012***
2-Methylnaphthalene = **0.027***
Acenaphthene = <0.020
Anthracene = <0.020
Benzo(a)anthracene = <0.005
Benzo(a)pyrene = <0.020
Benzo(b)fluoranthene = <0.020
Benzo(k)fluoranthene = <0.020
Chrysene = <0.020
Dibenzo(a,h)anthracene = <0.020
Fluoranthene = <0.020
Fluorene = <0.020
Indeno(1,2,3-CD)pyrene = <0.020
Pyrene = <0.020

WH01@6'
04/19/24
6'

1-Methylnaphthalene = **1.99***
2-Methylnaphthalene = **5.44***
Acenaphthene = <0.020
Anthracene = 0.042
Benzo(a)anthracene = <0.005
Benzo(a)pyrene = <0.020
Benzo(b)fluoranthene = <0.020
Benzo(k)fluoranthene = <0.020
Chrysene = 0.045
Dibenzo(a,h)anthracene = <0.020
Fluoranthene = <0.020
Fluorene = 0.351
Indeno(1,2,3-CD)pyrene = <0.020
Pyrene = 0.025

FLR01@4'
04/19/24
4'

1-Methylnaphthalene = 0.002
2-Methylnaphthalene = <0.002
Acenaphthene = <0.020
Anthracene = <0.020
Benzo(a)anthracene = <0.005
Benzo(a)pyrene = <0.020
Benzo(b)fluoranthene = <0.020
Benzo(k)fluoranthene = <0.020
Chrysene = 0.028
Dibenzo(a,h)anthracene = <0.020
Fluoranthene = <0.020
Fluorene = <0.020
Indeno(1,2,3-CD)pyrene = <0.020
Pyrene = <0.020

WH01-N
WH01-W
WH01-S

FL01R-W
FLR01
FL02
FL03

LEGEND

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

PARAMETERS

SAMPLE LOCATION
DATE SAMPLE COLLECTED
APPROXIMATE DEPTH

POLYCYCLIC AROMATIC HYDROCARBONS (PAHs) (mg/kg)

mg/kg = MILLIGRAMS PER KILOGRAM

NOTES:
VALUES PRESENTED WITH A LESS THAN SYMBOL (<) DID NOT CONTAIN CONCENTRATIONS AT OR ABOVE LABORATORY DETECTION LIMITS.
VALUES PRESENTED IN **BOLD** EXCEED ECMC TABLE 915-1 REGULATORY LIMITS.
VALUES PRESENTED WITH AN ASTERISK (*) EXCEED ECMC TABLE 915-1 GROUNDWATER SOIL SCREENING LEVELS, ONLY.
ECMC = ENERGY & CARBON MANAGEMENT COMMISSION

POLYCYCLIC AROMATIC HYDROCARBONS MAP
VOLKENS #31-22
CLOSURE ASSESSMENT
40.303410 / -104.534350
NW¼ NE¼ SEC.22 T4N R64W 6PM
WELD COUNTY, COLORADO
API # 05-123-11031
REMIEDIATION # 33147

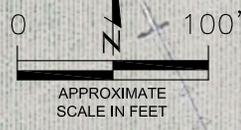
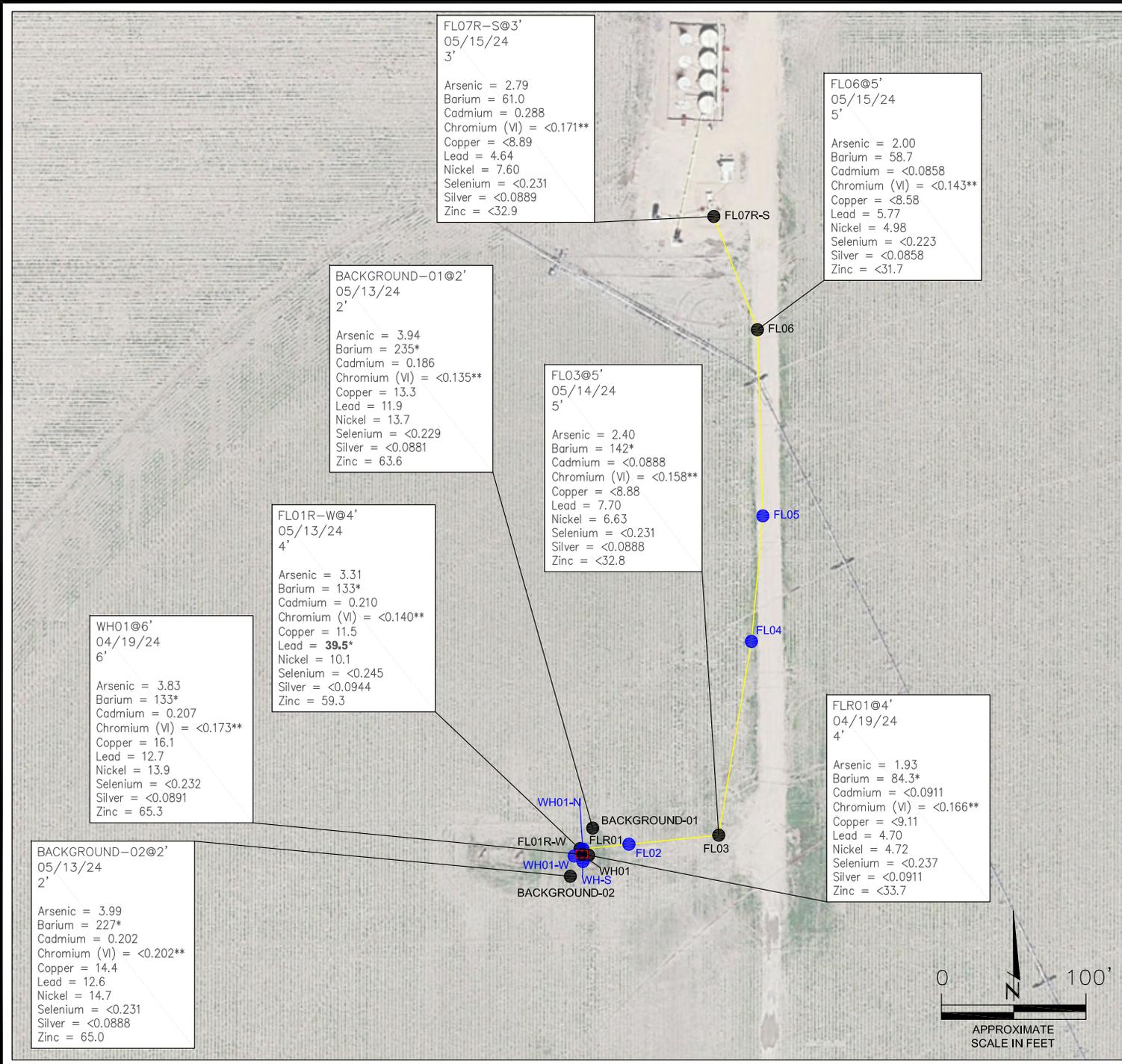


FIGURE NO.
4

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LEGEND

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

PARAMETERS

SAMPLE LOCATION
DATE SAMPLE COLLECTED
APPROXIMATE DEPTH
Arsenic = (mg/kg)
Barium = (mg/kg)
Cadmium = (mg/kg)
Chromium (VI) = (mg/kg)
Copper = (mg/kg)
Lead = (mg/kg)
Nickel = (mg/kg)
Selenium = (mg/kg)
Silver = (mg/kg)
Zinc = (mg/kg)

mg/kg = MILLIGRAMS PER KILOGRAM

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

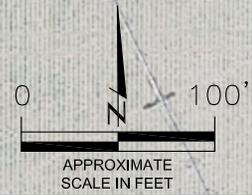
ELEVATED METALS ARE NATURALLY OCCURRING IN COLORADO. LOCAL CLEAN-UP LEVELS ARE 1.25*BACKGROUND HIGH CONCENTRATIONS WHERE APPLICABLE.

VALUES PRESENTED IN **BOLD** EXCEED ECMC TABLE 915-1 REGULATORY LIMITS AND APPLICABLE LOCAL CLEAN-UP LEVELS.

*VALUES EXCEED ECMC TABLE 915-1 PROTECTION OF GROUNDWATER SOIL SCREENING LEVELS, ONLY.

**ACHIEVABLE PRACTICAL QUANTITATIVE LIMITS FOR HEXAVALENT CHROMIUM (Cr VI) IN SOILS IS IN THE RANGE OF 0.1 TO 1 mg/kg.

ECMC = ENERGY & CARBON MANAGEMENT COMMISSION



METALS IN SOIL MAP
VOLKENS #31-22
CLOSURE ASSESSMENT
40.303410 / -104.534350
NW¼ NE¼ SEC.22 T4N R64W 6PM
WELD COUNTY, COLORADO
API # 05-123-11031
REMIEDIATION # 33147

FIGURE NO.
5
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TABLES

Table 1: Field Data Summary

Table 2: Summary of Volatile Organic Soil Chemistry Data

Table 3: Summary of PAH Soil Chemistry Data

Table 4: Summary of Soil Suitability for Reclamation

Table 5: Summary of Metals in Soil Chemistry Data

TABLE 1
FIELD DATA SUMMARY TABLE
NOBLE ENERGY 100322
VOLKENS #31-22, WELD COUNTY, COLORADO
REM # 33147

Sample ID	Sample Date	Depth	GPS Data		VOC Concentration (ppm)
			Latitude/Longitude		
WH01 @ 6'	4/19/2024	6	40.303407	-104.534341	1,988
FLR01 @ 4'	4/19/2024	4	40.303407	-104.534310	22.4
WH01-N @ 4'	4/19/2024	4	40.303435	-104.534330	181.6
WH-S @ 4'	4/19/2024	4	40.303393	-104.534350	1,217
WH01-W @ 4'	4/19/2024	4	40.303413	-104.534378	1,794
FL01R-W @ 4'	5/13/2024	4	40.303407	-104.534310	315.2
FL02 @ 4'	5/14/2024	4	40.303434	-104.534244	18.7
FL03 @ 5'	5/14/2024	5	40.303454	-104.534022	52.9
FL04 @ 5'	5/14/2024	5	40.303821	-104.533943	20.5
FL05 @ 5'	5/15/2024	5	40.304048	-104.533916	0.4
FL06 @ 5'	5/15/2024	5	40.304405	-104.533926	0.6
FL07R-S @ 3'	5/15/2024	3	40.304624	-104.534042	57.8
Background-01 @ 2'	5/13/2024	2	40.303496	-104.534342	3.5
Background-02 @ 2'	5/13/2024	2	40.303351	-104.534387	2.4

1. Global Positioning System (GPS) data is provided in decimal degrees using North American Datum (NAD) 83 UTMZone 13 North.
2. Volatile organic compound (VOC) concentrations are measured in the field using a photoionization detector (PID).

PDOP = Position Dilution of Precision

ppm = Parts per million

in. = Inches

ft. = Feet

bgs = Below ground surface

TABLE 2
SUMMARY OF VOLATILE ORGANIC SOIL CHEMISTRY DATA
NOBLE ENERGY 100322
VOLKENS #31-22, WELD COUNTY, COLORADO
REM # 33147

Sample ID	Sample Date	Depth (ft)	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl-Benzene (mg/kg)	Xylenes (mg/kg)	1,2,4-Trimethyl-Benzene (mg/kg)	1,3,5-Trimethyl-Benzene (mg/kg)	Naphthalene (mg/kg)	TPH (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)
ECMC Table 915-1 Limits (Residential SSL)			1.2	490	5.8	58	30	27	2	500	500**		
ECMC Table 915-1 Limits (Protection of Groundwater SSL)			0.0026	0.69	0.78	9.9	0.0081	0.0087	0.0038	500	500**		
WH01 @ 6'	4/19/2024	6	0.0101	0.00432	4.46	102	39.2	9.22	1.19	3,547.00	1,540	1,510	497
FLR01 @ 4'	4/19/2024	4	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.002	228	5.85	222	<100
FLO1R-W @ 4'	5/13/2024	4	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00380	255	1.37	140	114
FL03 @ 5'	5/14/2024	5	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00380	<500	<0.200	<25.0	<100
FL06 @ 5'	5/15/2024	5	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00380	<500	<0.200	<25.0	<100
FLO7R-S @ 3'	5/15/2024	3	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00380	27.5	0.428	27.1	<100

1. Bold values are equal to or exceed the ECMC Table 915-1 limit(s)
2. Red & blue highlighted soil analytical values indicate an exceedance of the referenced soil screening level (SSL)
3. * Indicates laboratory minimum detection limit in excess of SSL
4. ** Summation of GRO+DRO+ORO must be less than 500 mg/kg

TABLE 3
SUMMARY OF POLYCYCLIC AROMATIC HYDROCARBON SOIL CHEMISTRY DATA
NOBLE ENERGY 100322
VOLKENS #31-22, WELD COUNTY, COLORADO
REM # 33147

Sample ID	Sample Date	Depth (ft)	Acenaphthene (mg/kg)	Anthracene (mg/kg)	Benzo (a) Anthracene (mg/kg)	Benzo (a) Pyrene (mg/kg)	Benzo (b) Fluoranthene (mg/kg)	Benzo (k) Fluoranthene (mg/kg)	Chrysene (mg/kg)	Dibenzo (a,h) Anthracene (mg/kg)	Fluoranthene (mg/kg)	Fluorene (mg/kg)	Indeno (1,2,3-cd) Pyrene (mg/kg)	Pyrene (mg/kg)	1-Methyl - Naphthalene (mg/kg)	2-Methyl- Naphthalene (mg/kg)
ECMC Table 915-1 Limits (Residential SSL)			360	1800	1.1	0.11	1.1	11	110	0.11	240	240	1.1	180	18	24
ECMC Table 915-1 Limits (Protection of Groundwater SSL)			0.55	5.8	0.011	0.24	0.3	2.9	9	0.096	8.9	0.54	0.98	1.3	0.006	0.019
WH01 @ 6'	4/19/2024	6	<0.020	0.042	<0.005	<0.020	<0.020	<0.020	0.045	<0.020	<0.020	0.351	<0.020	0.025	1.99	5.44
FLR01 @ 4'	4/19/2024	4	<0.020	<0.020	<0.005	<0.020	<0.020	<0.020	0.028	<0.020	<0.020	<0.020	<0.020	<0.020	0.002	<0.002
FL01R-W @ 4'	5/13/2024	4	<0.020	<0.020	<0.005	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	0.012	0.027
FL03 @ 5'	5/14/2024	5	<0.020	<0.020	<0.005	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.002	<0.002
FL06 @ 5'	5/15/2024	5	<0.020	<0.020	0.024	<0.020	<0.020	<0.020	0.026	<0.020	0.072	<0.020	<0.020	0.044	<0.002	0.003
FL07R-S @ 3'	5/15/2024	3	<0.020	<0.020	<0.005	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	0.005	0.008

1. Bold values are equal to or exceed the ECMC Table 915-1 limit(s)

2. Red & blue highlighted soil analytical values indicate an exceedance of the referenced soil screening level (SSL)

3. * Indicates laboratory minimum detection limit in excess of SSL

NA - Not analyzed

TABLE 4
SUMMARY OF SOIL SUITABILITY FOR RECLAMATION
NOBLE ENERGY 100322
VOLKENS #31-22, WELD COUNTY, COLORADO
REM # 33147

Sample ID	Sample Date	Depth (ft)	pH (Standard Units)	EC (mmhos/cm)	SAR (Standard Units)	Boron (mg/L)
ECMC Table 915-1 Soil Suitability Limits			6 - 8.3	<4	<6	2
WH01 @ 6'	4/19/2024	6	8.14	0.600	2.58	0.762
FLR01 @ 4'	4/19/2024	4	8.60	0.778	1.76	0.303
FL01R-W @ 4'	5/13/2024	4	8.41	1.11	3.15	1.32
FL03 @ 5'	5/14/2024	5	8.31	1.28	5.87	0.956
FL06 @ 5'	5/15/2024	5	8.33	0.981	3.69	0.276
FL07R-S @ 3'	5/15/2024	3	8.44	0.228	1.37	0.227
Background-01 @ 2'	5/13/2024	2	8.36	2.45	6.51	1.57
Background-02 @ 2'	5/13/2024	2	8.32	2.66	6.64	1.51
Maximum Background Concentration			8.36	2.66	6.64	1.57
Average Background Concentration			8.34	2.56	6.58	1.54

1. Bold values are equal to or exceed the ECMC Table 915-1 limit(s)
 2. Blue highlighted soil analytical values indicate a regulatory exceedance
- NA - Not analyzed

TABLE 5
SUMMARY OF METALS IN SOIL CHEMISTRY DATA
NOBLE ENERGY 100322
VOLKENS #31-22, WELD COUNTY, COLORADO
REM # 33147

Sample ID	Sample Date	Depth (ft)	Arsenic (mg/kg)	Barium (mg/kg)	Cadmium (mg/kg)	Chromium (VI) (mg/kg)	Copper (mg/kg)	Lead (mg/kg)	Nickel (mg/kg)	Selenium (mg/kg)	Silver (mg/kg)	Zinc (mg/kg)
ECMC Table 915-1 Limits (Residential SSL)			0.68	15000	71	0.3	3100	400	1500	390	390	23000
ECMC Table 915-1 Limits (Protection of Groundwater SSL)			0.29	82	0.38	0.00067	46	14	26	0.26	0.8	370
WH01 @ 6'	4/19/2024	6	3.83	133	0.207	<0.173*	16.1	12.7	13.9	<0.232	<0.0981	65.3
FLR01 @ 4'	4/19/2024	4	1.93	84.3	<0.0911	<0.166*	<9.11	4.70	4.72	<0.237	<0.0911	<33.7
FL01R-W @ 4'	5/13/2024	4	3.31	133	0.210	<0.140*	11.5	39.5	10.1	<0.245	<0.0944	59.3
FL03 @ 5'	5/14/2024	5	2.40	142	<0.0888	<0.158*	<8.88	7.70	6.63	<0.231	<0.0888	<32.8
FL06 @ 5'	5/15/2024	5	2.00	58.7	<0.0858	<0.143*	<8.58	5.77	4.98	<0.223	<0.0858	<31.7
FL07R-S @ 3'	5/15/2024	3	2.79	61.0	0.288	<0.171*	<8.89	4.64	7.60	<0.231	<0.0889	<32.9
Background-01 @ 2'	5/13/2024	2	3.94	235	0.186	<0.135*	13.3	11.9	13.7	<0.229	<0.0881	63.6
Background-02 @ 2'	5/13/2024	2	3.99	227	0.202	<0.202*	14.4	12.6	14.7	<0.231	<0.0888	65.0
Maximum Background Concentration			3.99	235	0.202		14.4	12.6	14.7			65.0
125% Maximum Background Concentration			4.99	294	0.253		18.0	15.8	18.4			81.3

1. Bold values are equal to or exceed the ECMC Table 915-1 limit(s)
 2. Red & blue highlighted soil analytical values indicate an exceedance of the referenced soil screening level (SSL)
- * Indicates laboratory minimum detection limit in excess of SSL
NA - Not analyzed



ATTACHMENT A

Photo Log

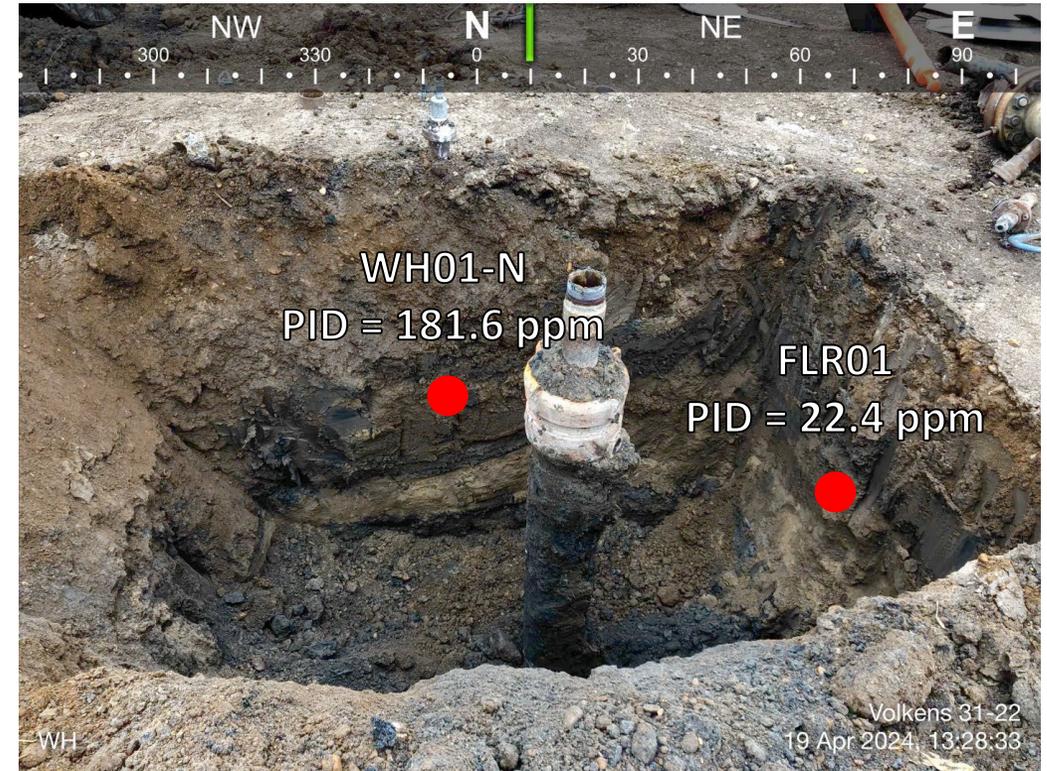
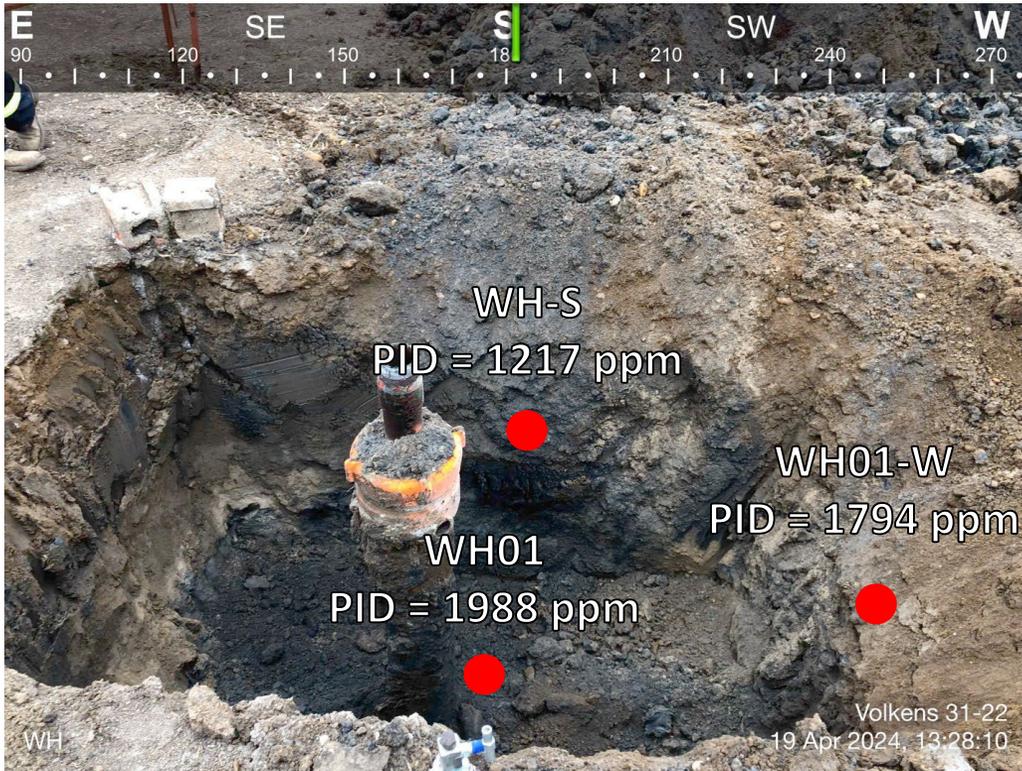
Volkens #31-22
API # 05-123-11031
Remediation # 33147

Closure Assessment

April - May 2024



Wellhead Excavation – 04/19/24



Looking south

Petroleum hydrocarbon staining and odor observed throughout excavation

Looking north

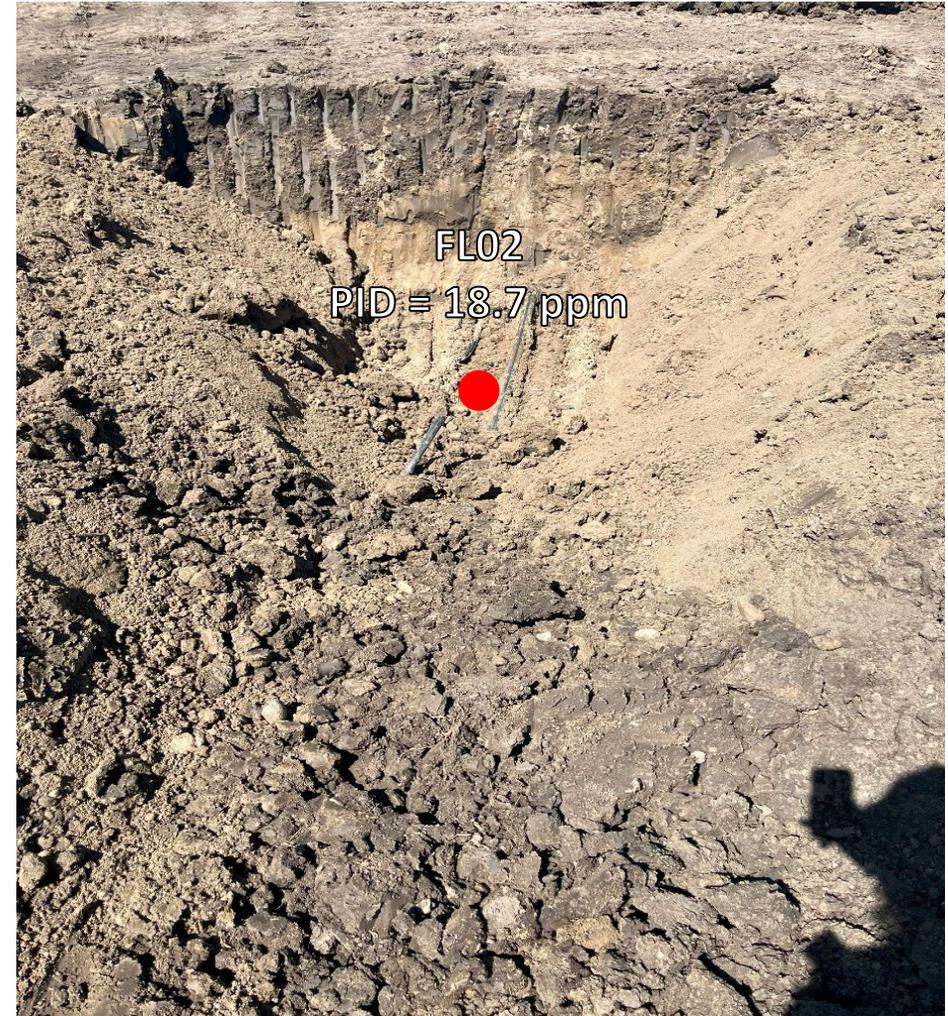
Petroleum hydrocarbon staining and odor observed throughout excavation

Flowline Removal/Assessment – 05/13/24 - 5/14/24



Looking west at flowline Pt A at wellhead

No petroleum hydrocarbon staining observed. Strong odor observed



Looking west at bellhole/cut point for removal

No petroleum hydrocarbon staining or odor observed

Flowline Removal/Assessment – 5/14/24



Looking east at flowline directional change

No petroleum hydrocarbon staining or odor observed



Looking north at bellhole/cut point for removal

No petroleum hydrocarbon staining or odor observed

Flowline Removal/Assessment – 5/15/24



Looking north at bellhole/cut point for removal

No petroleum hydrocarbon staining or odor observed



Looking north at flowline directional change

No petroleum hydrocarbon staining or odor observed

Flowline Removal/Assessment – 5/15/24



Looking north at flowline Pt B/terminus at separator

Gray petroleum hydrocarbon staining and slight odor observed



ATTACHMENT B

Laboratory Analytical Reports



May 06, 2024

Entrada Consulting Group

Chelsea Veryter

330 Grand Ave. Unit C

Grand Junction CO 81501

Project Name - Chevron - Volkens 31-22

Project Number - [none]

Attached are your analytical results for Chevron - Volkens 31-22 received by Origins Laboratory, Inc. April 19, 2024. This project is associated with Origins project number Y404582-01.

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

Entrada Consulting Group

330 Grand Ave. Unit C

Grand Junction CO 81501

Chelsea Veryter

Project Number: [none]

Project: Chevron - Volkens 31-22

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
WH01@6	Y404582-01	Soil	April 19, 2024 13:00	04/19/2024 15:53
FLR01@4	Y404582-02	Soil	April 19, 2024 13:05	04/19/2024 15:53

Chain of Custody Modification Request

On 5/6/2024, Tim Krupa from Entrada contacted Jordan Bynon via email regarding Y404582 requesting that the analyses for samples WH01-N@4, WH01-W@4, and WH01-S@4 be removed. Requested modifications to the chain of custody were made by Jordan Bynon on 5/6/2024.

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.

Entrada Consulting Group
 330 Grand Ave. Unit C
 Grand Junction CO 81501

Chelsea Veryer
 Project Number: [none]
 Project: Chevron - Volkens 31-22

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: Y401582

Client: Entrada

Client Project ID: Chevron - Volkens 31-

Checklist Completed by: GAJ

Shipped Via: HD

(UPS, FedEx, Hand Delivered, Pick-up, etc.)

Date/time completed: 4/19/12

Airbill #: N/A

Matrix(s) Received: (Check all that apply): 1 Soil/Solid 1 Water 1 Other: _____

Cooler Number/Temperature: 1 14.9 °C 1 °C 1 °C (Describe) °C

Thermometer ID: TOCH

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"/>	<input type="checkbox"/>	<input type="checkbox"/>	SD
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 checked="" type="checkbox"/>	<input 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 checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	<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 checked="" type="checkbox"/>	<input type="checkbox"/>	<input 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"/>	<input type="checkbox"/>	<input 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 be taken in the additional comments (above) and the case narrative.

Reviewed by (Project Manager) [Signature]

4/22/12
 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.

Entrada Consulting Group
 330 Grand Ave. Unit C
 Grand Junction CO 81501

Chelsea Veryter
 Project Number: [none]
 Project: Chevron - Volkens 31-22

WH01@6
4/19/2024 1:00:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y404582-01 (Soil)

Boron (DTPA Sorbitol)

Boron	0.762		0.101	mg/L	1	B4D2417	04/24/2024	04/25/2024	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	1510		25.0	mg/kg	1	B4D2332	04/23/2024	04/30/2024	
Residual Range Organics (C28-C40)	497		100	"	"	"	"	"	

Surrogate: o-Terphenyl	133 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	39.2		0.500	mg/kg	250	B4D2322	04/23/2024	05/01/2024	
1,3,5-Trimethylbenzene	9.22		0.0500	"	25	"	"	04/24/2024	
Benzene	0.0101		0.00200	"	1	"	"	04/25/2024	
Ethylbenzene	4.46		0.500	"	250	"	"	05/01/2024	
Toluene	0.00432		0.00200	"	1	"	"	04/25/2024	
Xylenes, total	102		0.500	"	250	"	"	05/01/2024	
Gasoline Range Hydrocarbons	1540		50.0	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	101 %		70-130			"	"	04/25/2024	
Surrogate: Toluene-d8	98.5 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	232 %		70-130			"	"	"	S-GC

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.

Entrada Consulting Group
 330 Grand Ave. Unit C
 Grand Junction CO 81501

Chelsea Veryter
 Project Number: [none]
 Project: Chevron - Volkens 31-22

WH01@6
 4/19/2024 1:00:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 Y404582-01 (Soil)

Metals by Saturated Paste by EPA 6010

Calcium	1.58		0.499	meq/L	10	[CALC]	04/20/2024	04/22/2024	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	2.77		0.435	"	"	"	"	"	

PAH by EPA 8270E

1-Methylnaphthalene	1.99		0.020	mg/kg	10	B4D2324	04/23/2024	05/02/2024	
2-Methylnaphthalene	5.44		0.020	"	"	"	"	"	
Acenaphthene	ND		0.020	"	1	"	"	05/01/2024	Ua
Anthracene	0.042		0.020	"	"	"	"	"	
Benzo (a) anthracene	ND		0.005	"	"	"	"	"	Ua
Benzo (a) pyrene	ND		0.020	"	"	"	"	"	Ua
Benzo (b) fluoranthene	ND		0.020	"	"	"	"	"	Ua
Benzo (k) fluoranthene	ND		0.020	"	"	"	"	"	Ua
Chrysene	0.045		0.020	"	"	"	"	"	
Dibenz (a,h) anthracene	ND		0.020	"	"	"	"	"	Ua
Fluoranthene	ND		0.020	"	"	"	"	"	Ua
Fluorene	0.351		0.020	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	Ua
Naphthalene	1.19		0.020	"	10	"	"	05/02/2024	
Pyrene	0.025		0.020	"	1	"	"	05/01/2024	
Surrogate: Fluorene-d10	94.1 %		60-130			"	"	"	

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.

Entrada Consulting Group
 330 Grand Ave. Unit C
 Grand Junction CO 81501

Chelsea Veryter
 Project Number: [none]
 Project: Chevron - Volkens 31-22

WH01@6
4/19/2024 1:00:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y404582-01 (Soil)

PAH by EPA 8270E

Surrogate: Anthracene-d10	100 %		60-130			B4D23 24	04/23/2024	05/01/2024	
Surrogate: Pyrene-d10	99.1 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	106 %		60-130			"	"	"	

pH in Soil by 9045D

pH	8.14			pH Units	1	B4D2019	04/20/2024	04/22/2024	
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SAR by 20B Saturated Paste

SAR	2.58		0.0100	SAR	1	B4D2007	04/20/2024	04/22/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.600		0.00500	mmhos/cm	1	B4D2019	04/20/2024	04/22/2024	
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Table 915 metals by EPA 6020B

Arsenic	3.83		0.258	mg/kg	10	B4D1936	04/22/2024	04/23/2024	
Barium	133		8.91	"	"	"	"	"	
Cadmium	0.207		0.0891	"	"	"	"	"	
Copper	16.1		8.91	"	"	"	"	"	
Lead	12.7		0.891	"	"	"	"	"	
Nickel	13.9		0.891	"	"	"	"	"	
Selenium	ND		0.232	"	"	"	"	"	

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.

Entrada Consulting Group
 330 Grand Ave. Unit C
 Grand Junction CO 81501

Chelsea Veryter
 Project Number: [none]
 Project: Chevron - Volkens 31-22

WH01@6
4/19/2024 1:00:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y404582-01 (Soil)

Table 915 metals by EPA 6020B

Silver	ND		0.0891	mg/kg	10	B4D1936	04/22/2024	04/23/2024	
Zinc	65.3		33.0	"	"	"	"	"	

Total Metals by 7196A

Hexavalent Chromium	ND	0.173	0.433	mg/kg dry	1	2602709	04/25/2024	04/29/2024	U
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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.

Entrada Consulting Group
 330 Grand Ave. Unit C
 Grand Junction CO 81501

Chelsea Veryter
 Project Number: [none]
 Project: Chevron - Volkens 31-22

FLR01@4
 4/19/2024 1:05:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y404582-02 (Soil)

Boron (DTPA Sorbitol)

Boron	0.303		0.0993	mg/L	1	B4D2417	04/24/2024	04/25/2024	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	222		25.0	mg/kg	1	B4D2332	04/23/2024	05/01/2024	
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	Ua

Surrogate: o-Terphenyl	83.8 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B4D2322	04/23/2024	04/23/2024	Ua
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	Ua
Benzene	ND		0.00200	"	"	"	"	"	Ua
Ethylbenzene	ND		0.00200	"	"	"	"	"	Ua
Toluene	ND		0.00200	"	"	"	"	"	Ua
Xylenes, total	ND		0.00200	"	"	"	"	"	Ua
Gasoline Range Hydrocarbons	5.85		0.200	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	102 %		70-130			"	"	"	
Surrogate: Toluene-d8	96.0 %		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.

Entrada Consulting Group
 330 Grand Ave. Unit C
 Grand Junction CO 81501

Chelsea Veryter
 Project Number: [none]
 Project: Chevron - Volkens 31-22

FLR01@4
 4/19/2024 1:05:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y404582-02 (Soil)

GBTEX+TMBs by 8260D

Surrogate: 4-Bromofluorobenzene 105 % 70-130 B4D23 22 04/23/2024 04/23/2024

Metals by Saturated Paste by EPA 6010

Calcium	2.77	0.499	meq/L	10	[CALC]	04/20/2024	04/22/2024
Magnesium	1.17	0.823	"	"	"	"	"
Sodium	2.48	0.435	"	"	"	"	"

PAH by EPA 8270E

1-Methylnaphthalene	0.002	0.002	mg/kg	1	B4D2324	04/23/2024	05/01/2024	
2-Methylnaphthalene	ND	0.002	"	"	"	"	"	Ua
Acenaphthene	ND	0.020	"	"	"	"	"	Ua
Anthracene	ND	0.020	"	"	"	"	"	Ua
Benzo (a) anthracene	ND	0.005	"	"	"	"	"	Ua
Benzo (a) pyrene	ND	0.020	"	"	"	"	"	Ua
Benzo (b) fluoranthene	ND	0.020	"	"	"	"	"	Ua
Benzo (k) fluoranthene	ND	0.020	"	"	"	"	"	Ua
Chrysene	0.028	0.020	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.020	"	"	"	"	"	Ua
Fluoranthene	ND	0.020	"	"	"	"	"	Ua
Fluorene	ND	0.020	"	"	"	"	"	Ua

Origins Laboratory, Inc.



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Entrada Consulting Group
 330 Grand Ave. Unit C
 Grand Junction CO 81501

Chelsea Veryter
 Project Number: [none]
 Project: Chevron - Volkens 31-22

FLR01@4

4/19/2024 1:05:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y404582-02 (Soil)

PAH by EPA 8270E

Indeno (1,2,3-cd) pyrene	ND		0.020	mg/kg	1	B4D2324	04/23/2024	05/01/2024	Ua
Naphthalene	ND		0.002	"	"	"	"	"	Ua
Pyrene	ND		0.020	"	"	"	"	"	Ua

Surrogate: Fluorene-d10	96.3 %		60-130			"	"	"	
Surrogate: Anthracene-d10	104 %		60-130			"	"	"	
Surrogate: Pyrene-d10	95.2 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	106 %		60-130			"	"	"	

pH in Soil by 9045D

pH	8.60			pH Units	1	B4D2019	04/20/2024	04/22/2024	
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SAR by 20B Saturated Paste

SAR	1.76		0.0100	SAR	1	B4D2007	04/20/2024	04/22/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.778		0.00500	mmhos/cm	1	B4D2019	04/20/2024	04/22/2024	
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Table 915 metals by EPA 6020B

Arsenic	1.93		0.264	mg/kg	10	B4D1936	04/22/2024	04/23/2024	
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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.

Entrada Consulting Group
 330 Grand Ave. Unit C
 Grand Junction CO 81501

Chelsea Veryter
 Project Number: [none]
 Project: Chevron - Volkens 31-22

FLR01@4

4/19/2024 1:05:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 Y404582-02 (Soil)

Table 915 metals by EPA 6020B

Barium	84.3		9.11	mg/kg	10	B4D1936	04/22/2024	04/23/2024	
Cadmium	ND		0.0911	"	"	"	"	"	
Copper	ND		9.11	"	"	"	"	"	
Lead	4.70		0.911	"	"	"	"	"	
Nickel	4.72		0.911	"	"	"	"	"	
Selenium	ND		0.237	"	"	"	"	"	
Silver	ND		0.0911	"	"	"	"	"	
Zinc	ND		33.7	"	"	"	"	"	

Total Metals by 7196A

Hexavalent Chromium	ND	0.166	0.414	mg/kg dry	1	2602709	04/25/2024	04/29/2024	U
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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.

Entrada Consulting Group
 330 Grand Ave. Unit C
 Grand Junction CO 81501

Chelsea Veryter
 Project Number: [none]
 Project: Chevron - Volkens 31-22

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 B4D2322 - EPA 5030 (soil)

Blank (B4D2322-BLK1)

Prepared: 04/23/2024 Analyzed: 04/23/2024

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							Ua
1,3,5-Trimethylbenzene	ND	0.00200	"							Ua
Benzene	ND	0.00200	"							Ua
Ethylbenzene	ND	0.00200	"							Ua
Naphthalene	ND	0.00380	"							Ua
Toluene	ND	0.00200	"							Ua
Xylenes, total	ND	0.00200	"							Ua
Gasoline Range Hydrocarbons	ND	0.200	"							Ua
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125	106		70-130			
Surrogate: Toluene-d8	0.12		"	0.125	99.8		70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125	103		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.

Entrada Consulting Group
 330 Grand Ave. Unit C
 Grand Junction CO 81501

Chelsea Veryter
 Project Number: [none]
 Project: Chevron - Volkens 31-22

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 B4D2322 - EPA 5030 (soil)

LCS (B4D2322-BS1)

Prepared: 04/23/2024 Analyzed: 04/23/2024

1,2,4-Trimethylbenzene	0.0868	0.00200	mg/kg	0.100		86.8	70-130			
1,3,5-Trimethylbenzene	0.0864	0.00200	"	0.100		86.4	70-130			
Benzene	0.0826	0.00200	"	0.100		82.6	70-130			
Ethylbenzene	0.0839	0.00200	"	0.100		83.9	70-130			
Naphthalene	0.0858	0.00380	"	0.100		85.8	70-130			
Toluene	0.0803	0.00200	"	0.100		80.3	70-130			
o-Xylene	0.0853	0.00200	"	0.100		85.3	70-130			
m,p-Xylene	0.166	0.00400	"	0.200		83.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		94.1	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		97.9	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		99.1	70-130			

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Entrada Consulting Group
 330 Grand Ave. Unit C
 Grand Junction CO 81501

Chelsea Veryter
 Project Number: [none]
 Project: Chevron - Volkens 31-22

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 B4D2322 - EPA 5030 (soil)

Matrix Spike (B4D2322-MS1)	Source: Y404582-02			Prepared: 04/23/2024 Analyzed: 04/24/2024						
1,2,4-Trimethylbenzene	0.0772	0.00200	mg/kg	0.100	ND	77.2	70-130			
1,3,5-Trimethylbenzene	0.0791	0.00200	"	0.100	ND	79.1	70-130			
Benzene	0.0930	0.00200	"	0.100	ND	93.0	70-130			
Ethylbenzene	0.0919	0.00200	"	0.100	ND	91.9	70-130			
Naphthalene	0.110	0.00380	"	0.100	ND	110	70-130			
Toluene	0.0924	0.00200	"	0.100	ND	92.4	70-130			
o-Xylene	0.0963	0.00200	"	0.100	ND	96.3	70-130			
m,p-Xylene	0.175	0.00400	"	0.200	ND	87.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		103	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		104	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		105	70-130			

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 Grand Junction CO 81501

Chelsea Veryter
 Project Number: [none]
 Project: Chevron - Volkens 31-22

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 B4D2322 - EPA 5030 (soil)

Matrix Spike Dup (B4D2322-MSD1)	Source: Y404582-02			Prepared: 04/23/2024 Analyzed: 04/24/2024						
1,2,4-Trimethylbenzene	0.0684	0.00200	mg/kg	0.100	ND	68.4	70-130	12.1	20	QM-07
1,3,5-Trimethylbenzene	0.0712	0.00200	"	0.100	ND	71.2	70-130	10.5	20	
Benzene	0.0881	0.00200	"	0.100	ND	88.1	70-130	5.44	20	
Ethylbenzene	0.0811	0.00200	"	0.100	ND	81.1	70-130	12.5	20	
Naphthalene	0.103	0.00380	"	0.100	ND	103	70-130	5.88	20	
Toluene	0.0850	0.00200	"	0.100	ND	85.0	70-130	8.34	20	
o-Xylene	0.0895	0.00200	"	0.100	ND	89.5	70-130	7.30	20	
m,p-Xylene	0.156	0.00400	"	0.200	ND	78.0	70-130	11.3	20	
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		103	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		103	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		105	70-130			

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Entrada Consulting Group
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Chelsea Veryter
 Project Number: [none]
 Project: Chevron - Volkens 31-22

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 B4D2332 - EPA 3550B										
Blank (B4D2332-BLK1)										
					Prepared: 04/23/2024 Analyzed: 04/27/2024					
Diesel (C10-C28)	ND	25.0	mg/kg							Ua
Residual Range Organics (C28-C40)	ND	100	"							Ua
Surrogate: o-Terphenyl	23		"	24.9		92.3	50-150			

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330 Grand Ave. Unit C

Grand Junction CO 81501

Chelsea Veryter

Project Number: [none]

Project: Chevron - Volkens 31-22

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 B4D2332 - EPA 3550B

LCS (B4D2332-BS1)

Prepared: 04/23/2024 Analyzed: 04/27/2024

Diesel (C10-C28)	945	50.0	mg/kg	1000		94.5	70-130			
Residual Range Organics (C28-C40)	936	200	"	1000		93.6	70-130			
Surrogate: o-Terphenyl	56		"	49.8		112	50-150			

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Entrada Consulting Group

330 Grand Ave. Unit C

Grand Junction CO 81501

Chelsea Veryter

Project Number: [none]

Project: Chevron - Volkens 31-22

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 B4D2332 - EPA 3550B

Matrix Spike (B4D2332-MS1)	Source: Y404576-01			Prepared: 04/23/2024 Analyzed: 04/27/2024						
Diesel (C10-C28)	971	50.0	mg/kg	1000	ND	97.1	70-130			
Residual Range Organics (C28-C40)	940	200	"	1000	ND	94.0	70-130			
Surrogate: o-Terphenyl	44		"	49.8		88.4	50-150			

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 Project Number: [none]
 Project: Chevron - Volkens 31-22

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 B4D2332 - EPA 3550B										
Matrix Spike Dup (B4D2332-MSD1)					Source: Y404576-01					Prepared: 04/23/2024 Analyzed: 04/27/2024
Diesel (C10-C28)	951	50.0	mg/kg	1000	ND	95.1	70-130	2.08	35	
Residual Range Organics (C28-C40)	946	200	"	1000	ND	94.6	70-130	0.695	35	
Surrogate: o-Terphenyl	68		"	49.8		136	50-150			

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Chelsea Veryter
 Project Number: [none]
 Project: Chevron - Volkens 31-22

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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Metals by EPA 6000/7000 Series Methods - 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 B4D1936 - EPA 3050B

Blank (B4D1936-BLK1)

Prepared: 04/22/2024 Analyzed: 04/23/2024

Arsenic	ND	0.290	mg/kg							
Barium	ND	10.0	"							
Cadmium	ND	0.100	"							
Copper	ND	10.0	"							
Lead	ND	1.00	"							
Nickel	ND	1.00	"							
Selenium	ND	0.260	"							
Silver	ND	0.100	"							
Zinc	ND	37.0	"							

LCS (B4D1936-BS1)

Prepared: 04/22/2024 Analyzed: 04/24/2024

Arsenic	4.78	0.290	mg/kg	5.00		95.5	80-120			
Barium	509	10.0	"	500		102	80-120			
Cadmium	4.99	0.100	"	5.00		99.9	80-120			
Copper	51.2	10.0	"	50.0		102	80-120			
Lead	5.17	1.00	"	5.00		103	80-120			
Nickel	5.07	1.00	"	5.00		101	80-120			
Selenium	8.90	0.260	"	9.50		93.7	80-120			
Silver	4.90	0.100	"	5.00		98.1	80-120			
Zinc	50.4	37.0	"	50.0		101	80-120			

Matrix Spike (B4D1936-MS1)

Source: Y404578-01

Prepared: 04/22/2024 Analyzed: 04/24/2024

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Chelsea Veryter
 Project Number: [none]
 Project: Chevron - Volkens 31-22

Metals by EPA 6000/7000 Series Methods - 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 B4D1936 - EPA 3050B

Matrix Spike (B4D1936-MS1)		Source: Y404578-01			Prepared: 04/22/2024 Analyzed: 04/24/2024					
Arsenic	8.08	0.284	mg/kg	4.90	4.42	74.8	75-125			QM-07
Barium	721	9.80	"	490	183	110	75-125			
Cadmium	5.35	0.0980	"	4.90	0.309	103	75-125			
Copper	59.4	9.80	"	49.0	26.0	68.1	75-125			QM-07
Lead	16.2	0.980	"	4.90	19.6	NR	75-125			QM-07
Nickel	16.0	0.980	"	4.90	16.8	NR	75-125			QM-07
Selenium	8.88	0.255	"	9.31	0.341	91.7	75-125			
Silver	4.97	0.0980	"	4.90	0.113	99.1	75-125			
Zinc	101	36.3	"	49.0	69.7	63.6	75-125			QM-07

Matrix Spike Dup (B4D1936-MSD1)		Source: Y404578-01			Prepared: 04/22/2024 Analyzed: 04/24/2024					
Arsenic	7.57	0.270	mg/kg	4.65	4.42	67.9	75-125	6.53	20	QM-07
Barium	682	9.30	"	465	183	107	75-125	5.43	20	
Cadmium	5.22	0.0930	"	4.65	0.309	106	75-125	2.43	20	
Copper	54.4	9.30	"	46.5	26.0	61.2	75-125	8.69	20	QM-07
Lead	16.6	0.930	"	4.65	19.6	NR	75-125	2.45	20	QM-07
Nickel	15.0	0.930	"	4.65	16.8	NR	75-125	6.17	20	QM-07
Selenium	8.47	0.242	"	8.83	0.341	92.0	75-125	4.74	20	
Silver	4.79	0.0930	"	4.65	0.113	101	75-125	3.64	20	
Zinc	94.5	34.4	"	46.5	69.7	53.3	75-125	6.53	20	QM-07

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Entrada Consulting Group
 330 Grand Ave. Unit C
 Grand Junction CO 81501

Chelsea Veryter
 Project Number: [none]
 Project: Chevron - Volkens 31-22

EPA 8270E (SW846) - Semivolatile Organic Compounds - 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 B4D2324 - EPA 3580

Blank (B4D2324-BLK1)

Prepared: 04/23/2024 Analyzed: 04/30/2024

1-Methylnaphthalene	ND	0.002	mg/kg							Ua
2-Methylnaphthalene	ND	0.002	"							Ua
Acenaphthene	ND	0.020	"							Ua
Anthracene	ND	0.020	"							Ua
Benzo (a) anthracene	ND	0.005	"							Ua
Benzo (a) pyrene	ND	0.020	"							Ua
Benzo (b) fluoranthene	ND	0.020	"							Ua
Benzo (g,h,i) perylene	ND	0.020	"							Ua
Benzo (k) fluoranthene	ND	0.020	"							Ua
Chrysene	ND	0.020	"							Ua
Dibenz (a,h) anthracene	ND	0.020	"							Ua
Fluoranthene	ND	0.020	"							Ua
Fluorene	ND	0.020	"							Ua
Indeno (1,2,3-cd) pyrene	ND	0.020	"							Ua
Naphthalene	ND	0.002	"							Ua
Phenanthrene	ND	0.020	"							Ua
Pyrene	ND	0.020	"							Ua
Surrogate: Fluorene-d10	190		ug/kg	200		92.8	60-130			
Surrogate: Anthracene-d10	210		"	200		105	60-130			
Surrogate: Pyrene-d10	200		"	200		101	60-130			
Surrogate: Benzo (a) pyrene-d12	230		"	200		116	60-130			

LCS (B4D2324-BS1)

Prepared: 04/23/2024 Analyzed: 04/30/2024

1-Methylnaphthalene	0.179	0.002	mg/kg	0.200		89.3	70-130			
2-Methylnaphthalene	0.178	0.002	"	0.200		88.9	70-130			
Acenaphthene	0.186	0.020	"	0.200		92.8	70-130			
Anthracene	0.183	0.020	"	0.200		91.4	70-130			

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Entrada Consulting Group
 330 Grand Ave. Unit C
 Grand Junction CO 81501

Chelsea Veryter
 Project Number: [none]
 Project: Chevron - Volkens 31-22

EPA 8270E (SW846) - Semivolatile Organic Compounds - 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 B4D2324 - EPA 3580

LCS (B4D2324-BS1)

Prepared: 04/23/2024 Analyzed: 04/30/2024

Benzo (a) anthracene	0.179	0.005	mg/kg	0.200		89.5	70-130			
Benzo (a) pyrene	0.213	0.020	"	0.200		106	70-130			
Benzo (b) fluoranthene	0.198	0.020	"	0.200		98.9	70-130			
Benzo (g,h,i) perylene	0.208	0.020	"	0.200		104	70-130			
Benzo (k) fluoranthene	0.189	0.020	"	0.200		94.5	70-130			
Chrysene	0.182	0.020	"	0.200		91.2	70-130			
Dibenz (a,h) anthracene	0.237	0.020	"	0.200		119	70-130			
Fluoranthene	0.157	0.020	"	0.200		78.6	70-130			
Fluorene	0.176	0.020	"	0.200		87.9	70-130			
Indeno (1,2,3-cd) pyrene	0.222	0.020	"	0.200		111	70-130			
Naphthalene	0.182	0.002	"	0.200		91.0	70-130			
Phenanthrene	0.194	0.020	"	0.200		97.0	70-130			
Pyrene	0.162	0.020	"	0.200		80.8	70-130			
Surrogate: Fluorene-d10	200		ug/kg	200		98.7	60-130			
Surrogate: Anthracene-d10	210		"	200		103	60-130			
Surrogate: Pyrene-d10	170		"	200		86.2	60-130			
Surrogate: Benzo (a) pyrene-d12	230		"	200		116	60-130			

Matrix Spike (B4D2324-MS1)

Source: Y404571-01

Prepared: 04/23/2024 Analyzed: 04/30/2024

1-Methylnaphthalene	0.184	0.002	mg/kg	0.200	ND	91.8	70-130			
2-Methylnaphthalene	0.186	0.002	"	0.200	ND	93.1	70-130			
Acenaphthene	0.189	0.020	"	0.200	ND	94.6	70-130			
Anthracene	0.203	0.020	"	0.200	ND	102	70-130			
Benzo (a) anthracene	0.182	0.005	"	0.200	0.004	88.8	70-130			
Benzo (a) pyrene	0.208	0.020	"	0.200	ND	104	70-130			
Benzo (b) fluoranthene	0.200	0.020	"	0.200	0.001	99.3	70-130			
Benzo (g,h,i) perylene	0.190	0.020	"	0.200	0.001	94.5	70-130			

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 Grand Junction CO 81501

Chelsea Veryter
 Project Number: [none]
 Project: Chevron - Volkens 31-22

EPA 8270E (SW846) - Semivolatile Organic Compounds - 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 B4D2324 - EPA 3580

Matrix Spike (B4D2324-MS1)		Source: Y404571-01			Prepared: 04/23/2024 Analyzed: 04/30/2024					
Benzo (k) fluoranthene	0.190	0.020	mg/kg	0.200	0.0008	94.7	70-130			
Chrysene	0.190	0.020	"	0.200	0.003	93.5	70-130			
Dibenz (a,h) anthracene	0.220	0.020	"	0.200	ND	110	70-130			
Fluoranthene	0.186	0.020	"	0.200	0.0006	92.8	70-130			
Fluorene	0.175	0.020	"	0.200	0.0006	87.3	70-130			
Indeno (1,2,3-cd) pyrene	0.196	0.020	"	0.200	0.002	97.4	70-130			
Naphthalene	0.187	0.002	"	0.200	ND	93.5	70-130			
Phenanthrene	0.206	0.020	"	0.200	ND	103	70-130			
Pyrene	0.189	0.020	"	0.200	ND	94.3	70-130			
Surrogate: Fluorene-d10	190		ug/kg	200		96.3	60-130			
Surrogate: Anthracene-d10	210		"	200		104	60-130			
Surrogate: Pyrene-d10	190		"	200		96.5	60-130			
Surrogate: Benzo (a) pyrene-d12	230		"	200		114	60-130			

Matrix Spike Dup (B4D2324-MSD1)		Source: Y404571-01			Prepared: 04/23/2024 Analyzed: 04/30/2024					
1-Methylnaphthalene	0.192	0.002	mg/kg	0.200	ND	96.1	70-130	4.68	20	
2-Methylnaphthalene	0.191	0.002	"	0.200	ND	95.7	70-130	2.74	20	
Acenaphthene	0.199	0.020	"	0.200	ND	99.4	70-130	4.87	20	
Anthracene	0.215	0.020	"	0.200	ND	108	70-130	5.62	20	
Benzo (a) anthracene	0.202	0.005	"	0.200	0.004	98.7	70-130	10.3	20	
Benzo (a) pyrene	0.204	0.020	"	0.200	ND	102	70-130	1.72	20	
Benzo (b) fluoranthene	0.201	0.020	"	0.200	0.001	99.8	70-130	0.518	20	
Benzo (g,h,i) perylene	0.205	0.020	"	0.200	0.001	102	70-130	7.73	20	
Benzo (k) fluoranthene	0.214	0.020	"	0.200	0.0008	107	70-130	12.0	20	
Chrysene	0.207	0.020	"	0.200	0.003	102	70-130	8.56	20	
Dibenz (a,h) anthracene	0.229	0.020	"	0.200	ND	115	70-130	4.21	20	
Fluoranthene	0.203	0.020	"	0.200	0.0006	101	70-130	8.61	20	

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 330 Grand Ave. Unit C
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Chelsea Veryter
 Project Number: [none]
 Project: Chevron - Volkens 31-22

EPA 8270E (SW846) - Semivolatile Organic Compounds - 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 B4D2324 - EPA 3580

Matrix Spike Dup (B4D2324-MSD1)	Source: Y404571-01			Prepared: 04/23/2024 Analyzed: 04/30/2024						
Fluorene	0.184	0.020	mg/kg	0.200	0.0006	91.7	70-130	4.97	20	
Indeno (1,2,3-cd) pyrene	0.213	0.020	"	0.200	0.002	106	70-130	8.23	20	
Naphthalene	0.197	0.002	"	0.200	ND	98.4	70-130	5.20	20	
Phenanthrene	0.213	0.020	"	0.200	ND	106	70-130	3.38	20	
Pyrene	0.203	0.020	"	0.200	ND	102	70-130	7.37	20	
Surrogate: Fluorene-d10	190		ug/kg	200		93.4	60-130			
Surrogate: Anthracene-d10	210		"	200		105	60-130			
Surrogate: Pyrene-d10	200		"	200		99.1	60-130			
Surrogate: Benzo (a) pyrene-d12	220		"	200		108	60-130			

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 Grand Junction CO 81501

Chelsea Veryter
 Project Number: [none]
 Project: Chevron - Volkens 31-22

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 B4D2007 - Saturated Paste Metals

Blank (B4D2007-BLK1)

Prepared: 04/20/2024 Analyzed: 04/22/2024

SAR	ND	0.0100	SAR							
Calcium PPM	ND	10.0	mg/L							
Magnesium PPM	ND	10.0	"							
Sodium PPM	ND	10.0	"							

Duplicate (B4D2007-DUP1)

Source: Y404553-01

Prepared: 04/20/2024 Analyzed: 04/22/2024

Calcium PPM	24.8	10.0	mg/L		22.5			9.94	50	
SAR	ND	0.0100	SAR		3.22				200	
Magnesium PPM	3.99	10.0	mg/L		3.50			13.1	50	
Sodium PPM	71.6	10.0	"		62.0			14.2	50	

Batch B4D2417 - DTPA Sorbitol Preparation

Blank (B4D2417-BLK1)

Prepared: 04/24/2024 Analyzed: 04/25/2024

Boron	ND	0.100	mg/L							
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Duplicate (B4D2417-DUP1)

Source: Y404578-15

Prepared: 04/24/2024 Analyzed: 05/01/2024

Boron	0.743	1.00	mg/L		0.809			8.52	50	
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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.

Entrada Consulting Group
 330 Grand Ave. Unit C
 Grand Junction CO 81501

Chelsea Veryter
 Project Number: [none]
 Project: Chevron - Volkens 31-22

Saturated Paste - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B4D2019 - Saturated Paste pH/EC										
Blank (B4D2019-BLK1)					Prepared: 04/20/2024 Analyzed: 04/22/2024					
Specific Conductance (EC)	ND	0.00500	mmhos/cm							
Duplicate (B4D2019-DUP1)					Source: Y404553-01 Prepared: 04/20/2024 Analyzed: 04/22/2024					
Specific Conductance (EC)	0.917	0.00500	mmhos/cm		0.829			10.1	25	
pH	8.41		pH Units		8.42			0.119	25	

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.

Entrada Consulting Group
 330 Grand Ave. Unit C
 Grand Junction CO 81501

Chelsea Veryter
 Project Number: [none]
 Project: Chevron - Volkens 31-22

Total Metals by 7196A - Quality Control
GEL Laboratories, LLC

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2602709 - SW846 3060A										
BLANK (1205714914-BLK)					Prepared: 04/25/2024 Analyzed: 04/29/2024					
Hexavalent Chromium	ND	0.346	mg/kg				-			U
LCS (1205714915-BKS)					Prepared: 04/25/2024 Analyzed: 04/29/2024					
Hexavalent Chromium	3.28	0.329	mg/kg	3.29		99.7	80-120			
DUP (1205714916 D)					Source: 664354006 Prepared: 04/25/2024 Analyzed: 04/29/2024					
Hexavalent Chromium	ND	0.308	mg/kg dry		<0.123		0-50	N/A	50	U
MS (1205714917 S)					Source: 664354006 Prepared: 04/25/2024 Analyzed: 04/29/2024					
Hexavalent Chromium	2.71	0.309	mg/kg dry	3.09	<0.124	86.4	75-125			
DUP (1205714918 D)					Source: 664358003 Prepared: 04/25/2024 Analyzed: 04/29/2024					
Hexavalent Chromium	ND	0.405	mg/kg dry		<0.162		0-50	N/A	50	U
MS (1205714919 S)					Source: 664358003 Prepared: 04/25/2024 Analyzed: 04/29/2024					
Hexavalent Chromium	3.69	0.401	mg/kg dry	4.01	<0.161	89.7	75-125			
ILCS (1205714920-ILCS)					Prepared: 04/25/2024 Analyzed: 04/29/2024					
Hexavalent Chromium	8.13	0.390	mg/kg	7.92		103	80-120			

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.

Entrada Consulting Group
330 Grand Ave. Unit C
Grand Junction CO 81501

Chelsea Veryter
Project Number: [none]
Project: Chevron - Volkens 31-22

Notes and Definitions

Ua Sample is Non-Detect.

U Result not detected above the detection limit

S-GC Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogate.

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

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.

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.



May 30, 2024

Eagle Environmental Consulting, LLC

Andrew Newberry

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - Noble - Volkens #31-22

Project Number - [none]

Attached are your analytical results for Noble - Volkens #31-22 received by Origins Laboratory, Inc. May 13, 2024. This project is associated with Origins project number Y405402-01.

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

Andrew Newberry
Project Number: [none]
Project: Noble - Volkens #31-22

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
FL01R-W@4'	Y405402-01	Soil	May 13, 2024 13:10	05/13/2024 17:03
Background-01@2'	Y405402-02	Soil	May 13, 2024 14:10	05/13/2024 17:03
Background-02@2'	Y405402-03	Soil	May 13, 2024 14:15	05/13/2024 17:03

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

Andrew Newberry
 Project Number: [none]
 Project: Noble - Volkens #31-22

Page 1 of 1

ORIGINS WORK ORDER #
405402

ORIGINS
 LABORATORY LLC

Client: Eagle Environmental Consulting

Address: 8000 W 44th Ave

Wheat Ridge, CO 80033

Telephone Number: 303-433-0479

Email Address: anewberry@eagle-env.com

Project Manager: Andrew Newberry

Project Name: Volkens #31-22

Project Number: _____

Collected By: RS

Invoice/Billing Info: Bill to Waste

Key:
 W= Water
 GW=Groundwater
 SW=Surface Water
 WW=Waste Water
 L=Liquid

S=Soil | SO=Solid | O=Oil | A=Air | G=Gas | UNP=Unpres | HCL=Hydrochloric | HNO3=Nitric | H2SO4=Sulfuric | NaOH=Sodium Hydroxide

#	Sample ID	Date Sampled	Time Sampled	# of Containers	Matrix	Preservative	Analysis										Comments					
							Aspirated		Aspirated	Aspirated												
1	FLOIR-wet	5/13/24	1310	3	S	UWP	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	EC Sat. pH =
2	Background -01E2	↓	1410	2	↓	↓	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	Saturated past prep
3	Background -02E2	↓	1415	2	↓	↓	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	MDS needed
4																						
5																						
6																						
7																						
8																						
9																						
10																						

Turnaround Time
 SAME DAY
 24 Hr
 48 Hr
 72 Hr
 Standard

Received On Ice? Yes No

Relinquished By: [Signature] Date: 5/13/24 Time: 1703
 Received By: [Signature] Date: 5/13/24 Time: 1703

Temp Received - 4.3

1725 Elk Place Denver, Co. 80211 | # 303.433.1322 | originslab.com | For Lab Sample Receiving Only

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

Andrew Newberry
 Project Number: [none]
 Project: Noble - Volkens #31-22

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

Sample Receipt Checklist

Origins Work Order: 4405402 Client: Eagle
 Checklist Completed by: JST/EN/D Client Project ID: Volkens #31-22
 Date/time completed: 5/14/12 Shipped Via: TD
 (UPS, FedEx, Hand Delivered, Pick-up, etc.)
 Matrix(s) Received: (Check all that apply): Soil/Solid Water Other: _____
 Cooler Number/Temperature: 143 °C / _____ °C / _____ °C (Describe)
 Thermometer ID: 7005

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 HNO3, HCL, H2SO4) / (pH >10 for samples preserved with NaAsO2+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 (Project Manager) [Signature]

5/15/12
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, LLC
 8000 W 44th Ave
 Wheat Ridge CO 80033

Andrew Newberry
 Project Number: [none]
 Project: Noble - Volkens #31-22

FL01R-W@4'
5/13/2024 1:10:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y405402-01 (Soil)

Boron (DTPA Sorbitol)

Boron	1.32		0.0993	mg/L	1	B4E1613	05/16/2024	05/17/2024	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	140		25.0	mg/kg	1	B4E1430	05/14/2024	05/17/2024	
Residual Range Organics (C28-C40)	114		100	"	"	"	"	"	

Surrogate: o-Terphenyl	97.7 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B4E1502	05/15/2024	05/15/2024	Ua
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	Ua
Benzene	ND		0.00200	"	"	"	"	"	Ua
Ethylbenzene	ND		0.00200	"	"	"	"	"	Ua
Naphthalene	ND		0.00380	"	"	"	"	"	Ua
Toluene	ND		0.00200	"	"	"	"	"	Ua
Xylenes, total	ND		0.00200	"	"	"	"	"	Ua
Gasoline Range Hydrocarbons	1.37		0.200	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	103 %		70-130			"	"	"	
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Origins Laboratory, Inc.



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

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

Andrew Newberry
 Project Number: [none]
 Project: Noble - Volkens #31-22

FL01R-W@4'
5/13/2024 1:10:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y405402-01 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	101 %		70-130			B4E15 02	05/15/2024	05/15/2024	
Surrogate: 4-Bromofluorobenzene	103 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	4.71	0.499	meq/L	10	[CALC]		05/14/2024	05/15/2024	
Magnesium	1.76	0.823	"	"	"		"	"	
Sodium	5.67	0.435	"	"	"		"	"	

PAH by EPA 8270E

1-Methylnaphthalene	0.012	0.002	mg/kg	1	B4E1542		05/15/2024	05/17/2024	
2-Methylnaphthalene	0.027	0.002	"	"	"		"	"	
Acenaphthene	ND	0.020	"	"	"		"	"	Ua
Anthracene	ND	0.020	"	"	"		"	"	Ua
Benzo (a) anthracene	ND	0.005	"	"	"		"	"	Ua
Benzo (a) pyrene	ND	0.020	"	"	"		"	"	Ua
Benzo (b) fluoranthene	ND	0.020	"	"	"		"	"	Ua
Benzo (k) fluoranthene	ND	0.020	"	"	"		"	"	Ua
Chrysene	ND	0.020	"	"	"		"	"	Ua
Dibenz (a,h) anthracene	ND	0.020	"	"	"		"	"	Ua
Fluoranthene	ND	0.020	"	"	"		"	"	Ua

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

Andrew Newberry
 Project Number: [none]
 Project: Noble - Volkens #31-22

FL01R-W@4'

5/13/2024 1:10:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y405402-01 (Soil)

PAH by EPA 8270E

Fluorene	ND		0.020	mg/kg	1	B4E1542	05/15/2024	05/17/2024	Ua
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	Ua
Pyrene	ND		0.020	"	"	"	"	"	Ua

Surrogate: Fluorene-d10	98.5 %		60-130			"	"	"	
Surrogate: Anthracene-d10	104 %		60-130			"	"	"	
Surrogate: Pyrene-d10	86.9 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	98.4 %		60-130			"	"	"	

pH in Soil by 9045D

pH	8.41			pH Units	1	B4E1420	05/14/2024	05/15/2024	
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SAR by 20B Saturated Paste

SAR	3.15		0.0100	SAR	1	B4E1415	05/14/2024	05/15/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	1.11		0.00500	mmhos/cm	1	B4E1420	05/14/2024	05/15/2024	
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Table 915 metals by EPA 6020B

Arsenic	3.31		0.274	mg/kg	10	B4E1405	05/14/2024	05/16/2024	
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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

Andrew Newberry
 Project Number: [none]
 Project: Noble - Volkens #31-22

FL01R-W@4'

5/13/2024 1:10:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y405402-01 (Soil)

Table 915 metals by EPA 6020B

Barium	133		9.44	mg/kg	10	B4E1405	05/14/2024	05/16/2024	
Cadmium	0.210		0.0944	"	"	"	"	"	
Copper	11.5		9.44	"	"	"	"	"	
Lead	39.5		0.944	"	"	"	"	"	
Nickel	10.1		0.944	"	"	"	"	"	
Selenium	ND		0.245	"	"	"	"	"	
Silver	ND		0.0944	"	"	"	"	"	
Zinc	59.3		34.9	"	"	"	"	"	

Total Metals by 7196A

Hexavalent Chromium	ND	0.140	0.351	mg/kg dry	1	2615149	05/21/2024	05/23/2024	U
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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

Andrew Newberry
 Project Number: [none]
 Project: Noble - Volkens #31-22

Background-01@2'
5/13/2024 2:10:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y405402-02 (Soil)

Boron (DTPA Sorbitol)

Boron	1.57		0.0996	mg/L	1	B4E1613	05/16/2024	05/17/2024	
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Metals by Saturated Paste by EPA 6010

Calcium	12.9		0.499	meq/L	10	[CALC]	05/14/2024	05/15/2024	
Magnesium	6.30		0.823	"	"	"	"	"	
Sodium	20.2		0.435	"	"	"	"	"	

pH in Soil by 9045D

pH	8.36			pH Units	1	B4E1420	05/14/2024	05/15/2024	
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SAR by 20B Saturated Paste

SAR	6.51		0.0100	SAR	1	B4E1415	05/14/2024	05/15/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	2.45		0.00500	mmhos/cm	1	B4E1420	05/14/2024	05/15/2024	
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Table 915 metals by EPA 6020B

Arsenic	3.94		0.255	mg/kg	10	B4E1405	05/14/2024	05/16/2024	
Barium	235		8.81	"	"	"	"	"	
Cadmium	0.186		0.0881	"	"	"	"	"	
Copper	13.3		8.81	"	"	"	"	"	

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

Andrew Newberry
 Project Number: [none]
 Project: Noble - Volkens #31-22

Background-01@2'
5/13/2024 2:10:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y405402-02 (Soil)

Table 915 metals by EPA 6020B

Lead	11.9		0.881	mg/kg	10	B4E1405	05/14/2024	05/16/2024	
Nickel	13.7		0.881	"	"	"	"	"	
Selenium	ND		0.229	"	"	"	"	"	
Silver	ND		0.0881	"	"	"	"	"	
Zinc	63.6		32.6	"	"	"	"	"	

Total Metals by 7196A

Hexavalent Chromium	ND	0.135	0.337	mg/kg dry	1	2615149	05/21/2024	05/23/2024	U
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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

Andrew Newberry
 Project Number: [none]
 Project: Noble - Volkens #31-22

Background-02@2'
5/13/2024 2:15:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y405402-03 (Soil)

Boron (DTPA Sorbitol)

Boron	1.51		0.0989	mg/L	1	B4E1613	05/16/2024	05/17/2024	
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Metals by Saturated Paste by EPA 6010

Calcium	15.3		0.499	meq/L	10	[CALC]	05/14/2024	05/15/2024	
Magnesium	7.35		0.823	"	"	"	"	"	
Sodium	22.4		0.435	"	"	"	"	"	

pH in Soil by 9045D

pH	8.32			pH Units	1	B4E1420	05/14/2024	05/15/2024	
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SAR by 20B Saturated Paste

SAR	6.64		0.0100	SAR	1	B4E1415	05/14/2024	05/15/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	2.66		0.00500	mmhos/cm	1	B4E1420	05/14/2024	05/15/2024	
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Table 915 metals by EPA 6020B

Arsenic	3.99		0.258	mg/kg	10	B4E1405	05/14/2024	05/16/2024	
Barium	227		8.88	"	"	"	"	"	
Cadmium	0.202		0.0888	"	"	"	"	"	
Copper	14.4		8.88	"	"	"	"	"	

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 8000 W 44th Ave
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Andrew Newberry
 Project Number: [none]
 Project: Noble - Volkens #31-22

Background-02@2'
5/13/2024 2:15:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y405402-03 (Soil)

Table 915 metals by EPA 6020B

Lead	12.6		0.888	mg/kg	10	B4E1405	05/14/2024	05/16/2024	
Nickel	14.7		0.888	"	"	"	"	"	
Selenium	ND		0.231	"	"	"	"	"	
Silver	ND		0.0888	"	"	"	"	"	
Zinc	65.0		32.9	"	"	"	"	"	

Total Metals by 7196A

Hexavalent Chromium	ND	0.202	0.504	mg/kg dry	1	2615149	05/21/2024	05/23/2024	U
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 Wheat Ridge CO 80033

Andrew Newberry
 Project Number: [none]
 Project: Noble - Volkens #31-22

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 B4E1430 - EPA 3550B										
Blank (B4E1430-BLK1)										
					Prepared: 05/14/2024 Analyzed: 05/17/2024					
Diesel (C10-C28)	ND	25.0	mg/kg							Ua
Residual Range Organics (C28-C40)	ND	100	"							Ua
Surrogate: o-Terphenyl	23		"	24.9		91.1	50-150			

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Andrew Newberry
 Project Number: [none]
 Project: Noble - Volkens #31-22

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 B4E1430 - EPA 3550B										
LCS (B4E1430-BS1)										
					Prepared: 05/14/2024 Analyzed: 05/17/2024					
Diesel (C10-C28)	862	50.0	mg/kg	1000		86.2	70-130			
Residual Range Organics (C28-C40)	992	200	"	1000		99.2	70-130			
Surrogate: o-Terphenyl	45		"	49.8		91.2	50-150			

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Andrew Newberry
 Project Number: [none]
 Project: Noble - Volkens #31-22

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 B4E1430 - EPA 3550B

Matrix Spike (B4E1430-MS1)	Source: Y405379-01			Prepared: 05/14/2024 Analyzed: 05/17/2024						
Diesel (C10-C28)	899	50.0	mg/kg	1000	ND	89.9	70-130			
Residual Range Organics (C28-C40)	1040	200	"	1000	ND	104	70-130			
Surrogate: o-Terphenyl	55		"	49.8		112	50-150			

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 Project Number: [none]
 Project: Noble - Volkens #31-22

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 B4E1430 - EPA 3550B										
Matrix Spike Dup (B4E1430-MSD1)					Source: Y405379-01					Prepared: 05/14/2024 Analyzed: 05/17/2024
Diesel (C10-C28)	836	50.0	mg/kg	1000	ND	83.6	70-130	7.18	35	
Residual Range Organics (C28-C40)	996	200	"	1000	ND	99.6	70-130	4.73	35	
Surrogate: o-Terphenyl	52		"	49.8		105	50-150			

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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 B4E1502 - EPA 5030 (soil)

Blank (B4E1502-BLK1)

Prepared: 05/15/2024 Analyzed: 05/15/2024

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							Ua
1,3,5-Trimethylbenzene	ND	0.00200	"							Ua
Benzene	ND	0.00200	"							Ua
Ethylbenzene	ND	0.00200	"							Ua
Naphthalene	ND	0.00380	"							Ua
Toluene	ND	0.00200	"							Ua
Xylenes, total	ND	0.00200	"							Ua
Gasoline Range Hydrocarbons	ND	0.200	"							Ua
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125	94.7		70-130			
Surrogate: Toluene-d8	0.13		"	0.125	104		70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125	96.0		70-130			

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 Project: Noble - Volkens #31-22

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 B4E1502 - EPA 5030 (soil)

LCS (B4E1502-BS1)

Prepared: 05/15/2024 Analyzed: 05/15/2024

1,2,4-Trimethylbenzene	0.103	0.00200	mg/kg	0.100		103	70-130			
1,3,5-Trimethylbenzene	0.103	0.00200	"	0.100		103	70-130			
Benzene	0.102	0.00200	"	0.100		102	70-130			
Ethylbenzene	0.102	0.00200	"	0.100		102	70-130			
Naphthalene	0.104	0.00380	"	0.100		104	70-130			
Toluene	0.105	0.00200	"	0.100		105	70-130			
o-Xylene	0.104	0.00200	"	0.100		104	70-130			
m,p-Xylene	0.202	0.00400	"	0.200		101	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		93.1	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		102	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		96.4	70-130			

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Andrew Newberry
 Project Number: [none]
 Project: Noble - Volkens #31-22

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 B4E1502 - EPA 5030 (soil)

Matrix Spike (B4E1502-MS1)	Source: Y405402-01		Prepared: 05/15/2024 Analyzed: 05/15/2024							
1,2,4-Trimethylbenzene	0.0646	0.00200	mg/kg	0.100	ND	64.6	70-130			QM-07
1,3,5-Trimethylbenzene	0.0722	0.00200	"	0.100	0.000460	71.7	70-130			
Benzene	0.0798	0.00200	"	0.100	ND	79.8	70-130			
Ethylbenzene	0.0769	0.00200	"	0.100	ND	76.9	70-130			
Naphthalene	0.0641	0.00380	"	0.100	ND	64.1	70-130			QM-07
Toluene	0.0805	0.00200	"	0.100	ND	80.5	70-130			
o-Xylene	0.0829	0.00200	"	0.100	ND	82.9	70-130			
m,p-Xylene	0.150	0.00400	"	0.200	ND	74.8	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		101	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		105	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		105	70-130			

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Andrew Newberry
 Project Number: [none]
 Project: Noble - Volkens #31-22

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 B4E1502 - EPA 5030 (soil)

Matrix Spike Dup (B4E1502-MSD1)	Source: Y405402-01			Prepared: 05/15/2024 Analyzed: 05/15/2024						
1,2,4-Trimethylbenzene	0.0594	0.00200	mg/kg	0.100	ND	59.4	70-130	8.42	20	QM-07
1,3,5-Trimethylbenzene	0.0665	0.00200	"	0.100	0.000460	66.0	70-130	8.28	20	QM-07
Benzene	0.0765	0.00200	"	0.100	ND	76.5	70-130	4.25	20	
Ethylbenzene	0.0719	0.00200	"	0.100	ND	71.9	70-130	6.69	20	
Naphthalene	0.0601	0.00380	"	0.100	ND	60.1	70-130	6.41	20	QM-07
Toluene	0.0763	0.00200	"	0.100	ND	76.3	70-130	5.38	20	
o-Xylene	0.0795	0.00200	"	0.100	ND	79.5	70-130	4.29	20	
m,p-Xylene	0.141	0.00400	"	0.200	ND	70.4	70-130	6.05	20	
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		98.1	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		105	70-130			
Surrogate: 4-Bromofluorobenzene	0.14		"	0.125		108	70-130			

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 Project Number: [none]
 Project: Noble - Volkens #31-22

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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Metals by EPA 6000/7000 Series Methods - 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 B4E1405 - EPA 3050B

Blank (B4E1405-BLK1)

Prepared: 05/14/2024 Analyzed: 05/16/2024

Arsenic	ND	0.290	mg/kg							
Barium	ND	10.0	"							
Cadmium	ND	0.100	"							
Copper	ND	10.0	"							
Lead	ND	1.00	"							
Nickel	ND	1.00	"							
Selenium	ND	0.260	"							
Silver	ND	0.100	"							
Zinc	ND	37.0	"							

LCS (B4E1405-BS1)

Prepared: 05/14/2024 Analyzed: 05/16/2024

Arsenic	5.22	0.290	mg/kg	5.00		104	80-120			
Barium	522	10.0	"	500		104	80-120			
Cadmium	5.40	0.100	"	5.00		108	80-120			
Copper	49.1	10.0	"	50.0		98.2	80-120			
Lead	5.08	1.00	"	5.00		102	80-120			
Nickel	5.40	1.00	"	5.00		108	80-120			
Selenium	9.68	0.260	"	9.50		102	80-120			
Silver	5.17	0.100	"	5.00		103	80-120			
Zinc	52.9	37.0	"	50.0		106	80-120			

Matrix Spike (B4E1405-MS1)

Source: Y405400-01

Prepared: 05/14/2024 Analyzed: 05/16/2024

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 Project Number: [none]
 Project: Noble - Volkens #31-22

Metals by EPA 6000/7000 Series Methods - 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 B4E1405 - EPA 3050B

Matrix Spike (B4E1405-MS1)		Source: Y405400-01			Prepared: 05/14/2024 Analyzed: 05/16/2024					
Arsenic	8.33	0.282	mg/kg	4.86	3.53	98.6	75-125			
Barium	656	9.71	"	486	170	100	75-125			
Cadmium	5.31	0.0971	"	4.86	0.185	105	75-125			
Copper	61.3	9.71	"	48.6	13.1	99.3	75-125			
Lead	16.5	0.971	"	4.86	12.8	75.4	75-125			
Nickel	17.5	0.971	"	4.86	13.2	87.5	75-125			
Selenium	9.81	0.253	"	9.23	0.254	104	75-125			
Silver	4.96	0.0971	"	4.86	0.0510	101	75-125			
Zinc	106	35.9	"	48.6	61.4	92.6	75-125			

Matrix Spike Dup (B4E1405-MSD1)		Source: Y405400-01			Prepared: 05/14/2024 Analyzed: 05/16/2024					
Arsenic	8.16	0.276	mg/kg	4.76	3.53	97.2	75-125	1.97	20	
Barium	652	9.52	"	476	170	101	75-125	0.567	20	
Cadmium	5.33	0.0952	"	4.76	0.185	108	75-125	0.529	20	
Copper	59.2	9.52	"	47.6	13.1	96.9	75-125	3.52	20	
Lead	17.1	0.952	"	4.76	12.8	89.2	75-125	3.46	20	
Nickel	17.3	0.952	"	4.76	13.2	86.3	75-125	0.829	20	
Selenium	9.46	0.247	"	9.04	0.254	102	75-125	3.60	20	
Silver	4.94	0.0952	"	4.76	0.0510	103	75-125	0.524	20	
Zinc	112	35.2	"	47.6	61.4	105	75-125	4.74	20	

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Andrew Newberry
 Project Number: [none]
 Project: Noble - Volkens #31-22

EPA 8270E (SW846) - Semivolatile Organic Compounds - 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 B4E1542 - EPA 3580

Blank (B4E1542-BLK1)

Prepared: 05/15/2024 Analyzed: 05/17/2024

1-Methylnaphthalene	ND	0.002	mg/kg							Ua
2-Methylnaphthalene	ND	0.002	"							Ua
Acenaphthene	ND	0.020	"							Ua
Anthracene	ND	0.020	"							Ua
Benzo (a) anthracene	ND	0.005	"							Ua
Benzo (a) pyrene	ND	0.020	"							Ua
Benzo (b) fluoranthene	ND	0.020	"							Ua
Benzo (g,h,i) perylene	ND	0.020	"							Ua
Benzo (k) fluoranthene	ND	0.020	"							Ua
Chrysene	ND	0.020	"							Ua
Dibenz (a,h) anthracene	ND	0.020	"							Ua
Fluoranthene	ND	0.020	"							Ua
Fluorene	ND	0.020	"							Ua
Indeno (1,2,3-cd) pyrene	ND	0.020	"							Ua
Naphthalene	ND	0.002	"							Ua
Phenanthrene	ND	0.020	"							Ua
Pyrene	ND	0.020	"							Ua
Surrogate: Fluorene-d10	200		ug/kg	200		102	60-130			
Surrogate: Anthracene-d10	200		"	200		99.1	60-130			
Surrogate: Pyrene-d10	170		"	200		87.0	60-130			
Surrogate: Benzo (a) pyrene-d12	190		"	200		96.2	60-130			

LCS (B4E1542-BS1)

Prepared: 05/15/2024 Analyzed: 05/17/2024

1-Methylnaphthalene	0.180	0.002	mg/kg	0.200		89.8	70-130			
2-Methylnaphthalene	0.181	0.002	"	0.200		90.4	70-130			
Acenaphthene	0.179	0.020	"	0.200		89.7	70-130			
Anthracene	0.175	0.020	"	0.200		87.5	70-130			

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Andrew Newberry
 Project Number: [none]
 Project: Noble - Volkens #31-22

EPA 8270E (SW846) - Semivolatile Organic Compounds - 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 B4E1542 - EPA 3580

LCS (B4E1542-BS1)

Prepared: 05/15/2024 Analyzed: 05/17/2024

Benzo (a) anthracene	0.184	0.005	mg/kg	0.200		92.1	70-130			
Benzo (a) pyrene	0.180	0.020	"	0.200		89.8	70-130			
Benzo (b) fluoranthene	0.184	0.020	"	0.200		92.0	70-130			
Benzo (g,h,i) perylene	0.172	0.020	"	0.200		86.1	70-130			
Benzo (k) fluoranthene	0.172	0.020	"	0.200		85.9	70-130			
Chrysene	0.182	0.020	"	0.200		91.0	70-130			
Dibenz (a,h) anthracene	0.196	0.020	"	0.200		98.1	70-130			
Fluoranthene	0.187	0.020	"	0.200		93.5	70-130			
Fluorene	0.184	0.020	"	0.200		92.0	70-130			
Indeno (1,2,3-cd) pyrene	0.171	0.020	"	0.200		85.6	70-130			
Naphthalene	0.182	0.002	"	0.200		91.0	70-130			
Phenanthrene	0.178	0.020	"	0.200		89.0	70-130			
Pyrene	0.152	0.020	"	0.200		76.0	70-130			
Surrogate: Fluorene-d10	210		ug/kg	200		104	60-130			
Surrogate: Anthracene-d10	200		"	200		99.2	60-130			
Surrogate: Pyrene-d10	170		"	200		85.5	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		98.1	60-130			

Matrix Spike (B4E1542-MS1)

Source: Y405402-01

Prepared: 05/15/2024 Analyzed: 05/17/2024

1-Methylnaphthalene	0.189	0.002	mg/kg	0.200	0.012	88.4	70-130			
2-Methylnaphthalene	0.194	0.002	"	0.200	0.027	83.2	70-130			
Acenaphthene	0.182	0.020	"	0.200	0.010	86.3	70-130			
Anthracene	0.184	0.020	"	0.200	0.003	90.4	70-130			
Benzo (a) anthracene	0.177	0.005	"	0.200	ND	88.6	70-130			
Benzo (a) pyrene	0.173	0.020	"	0.200	ND	86.7	70-130			
Benzo (b) fluoranthene	0.179	0.020	"	0.200	0.001	89.0	70-130			
Benzo (g,h,i) perylene	0.169	0.020	"	0.200	ND	84.7	70-130			

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 8000 W 44th Ave
 Wheat Ridge CO 80033

Andrew Newberry
 Project Number: [none]
 Project: Noble - Volkens #31-22

EPA 8270E (SW846) - Semivolatile Organic Compounds - 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 B4E1542 - EPA 3580

Matrix Spike (B4E1542-MS1)	Source: Y405402-01				Prepared: 05/15/2024 Analyzed: 05/17/2024					
Benzo (k) fluoranthene	0.161	0.020	mg/kg	0.200	0.001	79.7	70-130			
Chrysene	0.188	0.020	"	0.200	0.009	89.3	70-130			
Dibenz (a,h) anthracene	0.194	0.020	"	0.200	ND	96.8	70-130			
Fluoranthene	0.190	0.020	"	0.200	ND	94.8	70-130			
Fluorene	0.184	0.020	"	0.200	0.011	86.7	70-130			
Indeno (1,2,3-cd) pyrene	0.182	0.020	"	0.200	ND	90.8	70-130			
Naphthalene	0.185	0.002	"	0.200	0.004	90.3	70-130			
Phenanthrene	0.185	0.020	"	0.200	0.011	86.9	70-130			
Pyrene	0.158	0.020	"	0.200	0.003	77.4	70-130			
Surrogate: Fluorene-d10	200		ug/kg	200		101	60-130			
Surrogate: Anthracene-d10	210		"	200		103	60-130			
Surrogate: Pyrene-d10	170		"	200		87.3	60-130			
Surrogate: Benzo (a) pyrene-d12	190		"	200		96.1	60-130			

Matrix Spike Dup (B4E1542-MSD1)	Source: Y405402-01				Prepared: 05/15/2024 Analyzed: 05/17/2024					
1-Methylnaphthalene	0.199	0.002	mg/kg	0.200	0.012	93.7	70-130	5.46	20	
2-Methylnaphthalene	0.202	0.002	"	0.200	0.027	87.3	70-130	4.19	20	
Acenaphthene	0.188	0.020	"	0.200	0.010	89.2	70-130	3.13	20	
Anthracene	0.211	0.020	"	0.200	0.003	104	70-130	13.5	20	
Benzo (a) anthracene	0.182	0.005	"	0.200	ND	91.1	70-130	2.82	20	
Benzo (a) pyrene	0.187	0.020	"	0.200	ND	93.5	70-130	7.56	20	
Benzo (b) fluoranthene	0.190	0.020	"	0.200	0.001	94.5	70-130	5.97	20	
Benzo (g,h,i) perylene	0.180	0.020	"	0.200	ND	89.9	70-130	5.92	20	
Benzo (k) fluoranthene	0.191	0.020	"	0.200	0.001	94.9	70-130	17.3	20	
Chrysene	0.194	0.020	"	0.200	0.009	92.5	70-130	3.38	20	
Dibenz (a,h) anthracene	0.202	0.020	"	0.200	ND	101	70-130	4.22	20	
Fluoranthene	0.199	0.020	"	0.200	ND	99.6	70-130	4.98	20	

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

Andrew Newberry
 Project Number: [none]
 Project: Noble - Volkens #31-22

EPA 8270E (SW846) - Semivolatile Organic Compounds - 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 B4E1542 - EPA 3580

Matrix Spike Dup (B4E1542-MSD1)	Source: Y405402-01			Prepared: 05/15/2024 Analyzed: 05/17/2024						
Fluorene	0.190	0.020	mg/kg	0.200	0.011	89.5	70-130	3.09	20	
Indeno (1,2,3-cd) pyrene	0.181	0.020	"	0.200	ND	90.7	70-130	0.106	20	
Naphthalene	0.189	0.002	"	0.200	0.004	92.6	70-130	2.50	20	
Phenanthrene	0.193	0.020	"	0.200	0.011	91.2	70-130	4.63	20	
Pyrene	0.164	0.020	"	0.200	0.003	80.8	70-130	4.21	20	
Surrogate: Fluorene-d10	200		ug/kg	200		99.5	60-130			
Surrogate: Anthracene-d10	210		"	200		104	60-130			
Surrogate: Pyrene-d10	170		"	200		87.1	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		99.7	60-130			

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, LLC
 8000 W 44th Ave
 Wheat Ridge CO 80033

Andrew Newberry
 Project Number: [none]
 Project: Noble - Volkens #31-22

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 B4E1415 - Saturated Paste Metals

Blank (B4E1415-BLK1)

Prepared: 05/14/2024 Analyzed: 05/15/2024

SAR	ND	0.0100	SAR							
Calcium PPM	ND	10.0	mg/L							
Magnesium PPM	ND	10.0	"							
Sodium PPM	ND	10.0	"							

Duplicate (B4E1415-DUP1)

Source: Y405360-01

Prepared: 05/14/2024 Analyzed: 05/15/2024

Calcium PPM	18.0	10.0	mg/L		16.3			9.97	50	
SAR	ND	0.0100	SAR		0.116				200	
Magnesium PPM	2.53	10.0	mg/L		2.31			9.09	50	
Sodium PPM	2.25	10.0	"		1.89			17.4	50	

Batch B4E1613 - DTPA Sorbitol Preparation

Blank (B4E1613-BLK1)

Prepared: 05/16/2024 Analyzed: 05/17/2024

Boron	ND	0.100	mg/L							
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Duplicate (B4E1613-DUP1)

Source: Y405402-01

Prepared: 05/16/2024 Analyzed: 05/17/2024

Boron	1.12	0.101	mg/L		1.32			16.3	50	
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 8000 W 44th Ave
 Wheat Ridge CO 80033

Andrew Newberry
 Project Number: [none]
 Project: Noble - Volkens #31-22

Saturated Paste - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B4E1420 - Saturated Paste pH/EC										
Blank (B4E1420-BLK1)					Prepared: 05/14/2024 Analyzed: 05/15/2024					
Specific Conductance (EC)	ND	0.00500	mmhos/cm							
Duplicate (B4E1420-DUP1)					Source: Y405360-01 Prepared: 05/14/2024 Analyzed: 05/15/2024					
Specific Conductance (EC)	0.149	0.00500	mmhos/cm		0.138		7.82		25	
pH	7.93		pH Units		7.90		0.379		25	

Origins Laboratory, Inc.



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

Andrew Newberry
 Project Number: [none]
 Project: Noble - Volkens #31-22

Total Metals by 7196A - Quality Control
GEL Laboratories, LLC

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2615149 - SW846 3060A										
BLANK (1205740224-BLK)					Prepared: 05/21/2024 Analyzed: 05/23/2024					
Hexavalent Chromium	ND	0.355	mg/kg				-			U
LCS (1205740225-BKS)					Prepared: 05/21/2024 Analyzed: 05/23/2024					
Hexavalent Chromium	3.18	0.323	mg/kg	3.23		98.4	80-120			
DUP (1205740226 D)					Source: 667379001 Prepared: 05/21/2024 Analyzed: 05/23/2024					
Hexavalent Chromium	ND	0.321	mg/kg dry		<0.128		0-50	N/A	50	U
MS (1205740227 S)					Source: 667379001 Prepared: 05/21/2024 Analyzed: 05/23/2024					
Hexavalent Chromium	2.06	0.321	mg/kg dry	3.21	<0.128	62.9	75-125			
DUP (1205740228 D)					Source: 667379011 Prepared: 05/21/2024 Analyzed: 05/23/2024					
Hexavalent Chromium	ND	0.360	mg/kg dry		<0.144		0-50	N/A	50	U
MS (1205740229 S)					Source: 667379011 Prepared: 05/21/2024 Analyzed: 05/23/2024					
Hexavalent Chromium	1.04	0.360	mg/kg dry	3.60	<0.144	27.6	75-125			
ILCS (1205740230-ILCS)					Prepared: 05/21/2024 Analyzed: 05/23/2024					
Hexavalent Chromium	7.43	0.348	mg/kg	7.08		105	80-120			

Origins Laboratory, Inc.



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

Andrew Newberry
Project Number: [none]
Project: Noble - Volkens #31-22

Notes and Definitions

Ua Sample is Non-Detect.

U Result not detected above the detection limit

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

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.

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.



May 30, 2024

Eagle Environmental Consulting, LLC

Andrew Newberry

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - Noble - Volkens #31-22

Project Number - [none]

Attached are your analytical results for Noble - Volkens #31-22 received by Origins Laboratory, Inc. May 14, 2024. This project is associated with Origins project number Y405469-01.

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

Andrew Newberry
Project Number: [none]
Project: Noble - Volkens #31-22

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
FL03@5'	Y405469-01	Soil	May 14, 2024 10:35	05/14/2024 15:37

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

Andrew Newberry
 Project Number: [none]
 Project: Noble - Volkens #31-22

Page 1 of 1

ORIGINS WORK ORDER #

ORIGINS

LABORATORY LLC

Client: Eagle Environmental Consulting

Address: 8000 W 44th Ave

Wheat Ridge, CO 80033

Telephone Number: 303-433-0479

Email Address: anewberry@eagle-enviro.com

Project Manager: Andrew Newberry

Project Name: Volkens #31-22

Project Number: _____

Collected By: RS

Invoice/Billing Info: Bill to Work

Key:

W= Water

GW=Groundwater

SW=Surface Water

WW=Waste Water

L=Liquid

S=Soil | SO=Solid | O=Oil | A=Air | G=Gas || UNP=Unpres | HCL= Hydrochloric | HNO3=Nitric | H2SO4=Sulfuric | NaOH=Sodium Hydroxide

#	Sample ID	Date Sampled	Time Sampled	# of Containers	Matrix Preservative	Analysis												Comments	
						Asst	Barium	Benzene		Benzene									
1	FLO3e51	5/14/24	1035	3	S UNP	X	X	X	X	X	X	X	X	X	X	X	X	X	EC, SAR, pH =
2																			Subtracted peak prep
3																			MDS needed
4																			
5																			
6																			
7																			
8																			
9																			
10																			

Relinquished By:	Date: 5/14/24	Time: 1537	Received By:	Date: 5/14/24	Time: 1537
Relinquished By:	Date: _____	Time: _____	Received By: _____	Date: _____	Time: _____

Turnaround Time: SAME DAY 24 Hr 48 Hr 72 Hr

Standard Yes No

Received On Ice? Yes No

Temp Received- 33

For Lab Sample Receiving Only:

1725 Elk Place Denver, Co, 80211 | # 303.433.1322 | originslab.com |

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

Andrew Newberry
 Project Number: [none]
 Project: Noble - Volkens #31-22

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: 405469

Client: Eagle
 Client Project ID: Volkens #31-22

Checklist Completed by: JW/ENH

Shipped Via: TUD
 (UPS, FedEx, Hand Delivered, Pick-up, etc.)
 Airbill #: N/A

Date/time completed: 5/15/14

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

Cooler Number/Temperature: 13.3 °C / _____ °C / _____ °C / _____ °C (Describe)

Thermometer ID: 1005

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 HNO3, HCL, H2SO4) / (pH >10 for samples preserved with NaAsO2+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: [Signature] (Project Manager)

5/16/14
 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, LLC
 8000 W 44th Ave
 Wheat Ridge CO 80033

Andrew Newberry
 Project Number: [none]
 Project: Noble - Volkens #31-22

FL03@5'

5/14/2024 10:35:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y405469-01 (Soil)

Boron (DTPA Sorbitol)

Boron	0.956		0.0992	mg/L	1	B4E1615	05/16/2024	05/17/2024	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B4E1501	05/15/2024	05/18/2024	Ua
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	Ua

Surrogate: o-Terphenyl	97.9 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B4E1602	05/16/2024	05/16/2024	Ua
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	Ua
Benzene	ND		0.00200	"	"	"	"	"	Ua
Ethylbenzene	ND		0.00200	"	"	"	"	"	Ua
Naphthalene	ND		0.00380	"	"	"	"	"	Ua
Toluene	ND		0.00200	"	"	"	"	"	Ua
Xylenes, total	ND		0.00200	"	"	"	"	"	Ua
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	Ua

Origins Laboratory, Inc.



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

Andrew Newberry
 Project Number: [none]
 Project: Noble - Volkens #31-22

FL03@5'

5/14/2024 10:35:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y405469-01 (Soil)

GBTEX+TMBs by 8260D

Surrogate: 1,2-Dichloroethane-d4	112 %		70-130			B4E16 02	05/16/2024	05/16/2024	
Surrogate: Toluene-d8	96.4 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	108 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	3.17		0.499	meq/L	10	[CALC]	05/16/2024	05/17/2024	
Magnesium	1.67		0.823	"	"	"	"	"	
Sodium	9.14		0.435	"	"	"	"	"	

PAH by EPA 8270E

1-Methylnaphthalene	ND		0.002	mg/kg	1	B4E1635	05/16/2024	05/18/2024	Ua
2-Methylnaphthalene	ND		0.002	"	"	"	"	"	Ua
Acenaphthene	ND		0.020	"	"	"	"	"	Ua
Anthracene	ND		0.020	"	"	"	"	"	Ua
Benzo (a) anthracene	ND		0.005	"	"	"	"	"	Ua
Benzo (a) pyrene	ND		0.020	"	"	"	"	"	Ua
Benzo (b) fluoranthene	ND		0.020	"	"	"	"	"	Ua
Benzo (k) fluoranthene	ND		0.020	"	"	"	"	"	Ua
Chrysene	ND		0.020	"	"	"	"	"	Ua
Dibenz (a,h) anthracene	ND		0.020	"	"	"	"	"	Ua

Origins Laboratory, Inc.



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

Andrew Newberry
 Project Number: [none]
 Project: Noble - Volkens #31-22

FL03@5'

5/14/2024 10:35:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y405469-01 (Soil)

PAH by EPA 8270E

Fluoranthene	ND		0.020	mg/kg	1	B4E1635	05/16/2024	05/18/2024	Ua
Fluorene	ND		0.020	"	"	"	"	"	Ua
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	Ua
Pyrene	ND		0.020	"	"	"	"	"	Ua

Surrogate: Fluorene-d10	105 %		60-130			"	"	"	
Surrogate: Anthracene-d10	98.4 %		60-130			"	"	"	
Surrogate: Pyrene-d10	104 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	97.7 %		60-130			"	"	"	

pH in Soil by 9045D

pH	8.31			pH Units	1	B4E1622	05/16/2024	05/17/2024	
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SAR by 20B Saturated Paste

SAR	5.87		0.0100	SAR	1	B4E1610	05/16/2024	05/17/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	1.28		0.00500	mmhos/cm	1	B4E1622	05/16/2024	05/17/2024	
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Table 915 metals by EPA 6020B

Origins Laboratory, Inc.



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

Andrew Newberry
 Project Number: [none]
 Project: Noble - Volkens #31-22

FL03@5'

5/14/2024 10:35:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 Y405469-01 (Soil)

Table 915 metals by EPA 6020B

Arsenic	2.40		0.257	mg/kg	10	B4E1630	05/16/2024	05/20/2024	
Barium	142		8.88	"	"	"	"	"	
Cadmium	ND		0.0888	"	"	"	"	"	
Copper	ND		8.88	"	"	"	"	"	
Lead	7.70		0.888	"	"	"	"	"	
Nickel	6.63		0.888	"	"	"	"	"	
Selenium	ND		0.231	"	"	"	"	"	
Silver	ND		0.0888	"	"	"	"	"	
Zinc	ND		32.8	"	"	"	"	"	

Total Metals by 7196A

Hexavalent Chromium	ND	0.158	0.396	mg/kg dry	1	2617121	05/25/2024	05/28/2024	U
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Origins Laboratory, Inc.



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

Andrew Newberry
 Project Number: [none]
 Project: Noble - Volkens #31-22

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 B4E1501 - EPA 3550B										
Blank (B4E1501-BLK1)										
					Prepared: 05/15/2024 Analyzed: 05/17/2024					
Diesel (C10-C28)	ND	25.0	mg/kg							Ua
Residual Range Organics (C28-C40)	ND	100	"							Ua
Surrogate: o-Terphenyl	24		"	24.9		96.3	50-150			

Origins Laboratory, Inc.



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

Andrew Newberry
 Project Number: [none]
 Project: Noble - Volkens #31-22

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 B4E1501 - EPA 3550B

LCS (B4E1501-BS1)

Prepared: 05/15/2024 Analyzed: 05/17/2024

Diesel (C10-C28)	901	50.0	mg/kg	1000		90.1	70-130			
Residual Range Organics (C28-C40)	1000	200	"	1000		100	70-130			
Surrogate: o-Terphenyl	63		"	49.8		126	50-150			

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Andrew Newberry
 Project Number: [none]
 Project: Noble - Volkens #31-22

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 B4E1501 - EPA 3550B

Matrix Spike (B4E1501-MS1)	Source: Y405460-01			Prepared: 05/15/2024 Analyzed: 05/17/2024						
Diesel (C10-C28)	910	50.0	mg/kg	1000	42.8	86.7	70-130			
Residual Range Organics (C28-C40)	1030	200	"	1000	ND	103	70-130			
Surrogate: o-Terphenyl	58		"	49.8		117	50-150			

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Andrew Newberry
 Project Number: [none]
 Project: Noble - Volkens #31-22

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 B4E1501 - EPA 3550B

Matrix Spike Dup (B4E1501-MSD1)	Source: Y405460-01		Prepared: 05/15/2024 Analyzed: 05/17/2024							
Diesel (C10-C28)	903	50.0	mg/kg	1000	42.8	86.0	70-130	0.745	35	
Residual Range Organics (C28-C40)	1020	200	"	1000	ND	102	70-130	1.74	35	
<i>Surrogate: o-Terphenyl</i>	60		"	49.8		120	50-150			

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 Project: Noble - Volkens #31-22

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 B4E1602 - EPA 5030 (soil)

Blank (B4E1602-BLK1)

Prepared: 05/16/2024 Analyzed: 05/16/2024

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							Ua
1,3,5-Trimethylbenzene	ND	0.00200	"							Ua
Benzene	ND	0.00200	"							Ua
Ethylbenzene	ND	0.00200	"							Ua
Naphthalene	ND	0.00380	"							Ua
Toluene	ND	0.00200	"							Ua
Xylenes, total	ND	0.00200	"							Ua
Gasoline Range Hydrocarbons	ND	0.200	"							Ua
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125	98.7		70-130			
Surrogate: Toluene-d8	0.12		"	0.125	98.1		70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125	106		70-130			

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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 B4E1602 - EPA 5030 (soil)

LCS (B4E1602-BS1)

Prepared: 05/16/2024 Analyzed: 05/16/2024

1,2,4-Trimethylbenzene	0.103	0.00200	mg/kg	0.100		103	70-130			
1,3,5-Trimethylbenzene	0.101	0.00200	"	0.100		101	70-130			
Benzene	0.0953	0.00200	"	0.100		95.3	70-130			
Ethylbenzene	0.101	0.00200	"	0.100		101	70-130			
Naphthalene	0.112	0.00380	"	0.100		112	70-130			
Toluene	0.0928	0.00200	"	0.100		92.8	70-130			
o-Xylene	0.102	0.00200	"	0.100		102	70-130			
m,p-Xylene	0.198	0.00400	"	0.200		98.8	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		94.0	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		99.3	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		103	70-130			

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Andrew Newberry
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 Project: Noble - Volkens #31-22

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 B4E1602 - EPA 5030 (soil)

Matrix Spike (B4E1602-MS1)	Source: Y405404-01			Prepared: 05/16/2024 Analyzed: 05/22/2024						
1,2,4-Trimethylbenzene	0.0800	0.00200	mg/kg	0.100	ND	80.0	70-130			
1,3,5-Trimethylbenzene	0.0797	0.00200	"	0.100	ND	79.7	70-130			
Benzene	0.0921	0.00200	"	0.100	ND	92.1	70-130			
Ethylbenzene	0.0839	0.00200	"	0.100	ND	83.9	70-130			
Naphthalene	0.0854	0.00380	"	0.100	ND	85.4	70-130			
Toluene	0.0874	0.00200	"	0.100	ND	87.4	70-130			
o-Xylene	0.0861	0.00200	"	0.100	ND	86.1	70-130			
m,p-Xylene	0.164	0.00400	"	0.200	ND	82.0	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		114	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.6	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		98.0	70-130			

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 Project Number: [none]
 Project: Noble - Volkens #31-22

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 B4E1602 - EPA 5030 (soil)

Matrix Spike Dup (B4E1602-MSD1)	Source: Y405404-01			Prepared: 05/16/2024 Analyzed: 05/22/2024						
1,2,4-Trimethylbenzene	0.0744	0.00200	mg/kg	0.100	ND	74.4	70-130	7.31	20	
1,3,5-Trimethylbenzene	0.0745	0.00200	"	0.100	ND	74.5	70-130	6.64	20	
Benzene	0.0882	0.00200	"	0.100	ND	88.2	70-130	4.39	20	
Ethylbenzene	0.0779	0.00200	"	0.100	ND	77.9	70-130	7.47	20	
Naphthalene	0.0840	0.00380	"	0.100	ND	84.0	70-130	1.58	20	
Toluene	0.0848	0.00200	"	0.100	ND	84.8	70-130	3.00	20	
o-Xylene	0.0813	0.00200	"	0.100	ND	81.3	70-130	5.76	20	
m,p-Xylene	0.153	0.00400	"	0.200	ND	76.5	70-130	6.91	20	
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		111	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		102	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		94.5	70-130			

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 Project Number: [none]
 Project: Noble - Volkens #31-22

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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Metals by EPA 6000/7000 Series Methods - 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 B4E1630 - EPA 3050B

Blank (B4E1630-BLK1)

Prepared: 05/16/2024 Analyzed: 05/20/2024

Arsenic	ND	0.290	mg/kg							
Barium	ND	10.0	"							
Cadmium	ND	0.100	"							
Copper	ND	10.0	"							
Lead	ND	1.00	"							
Nickel	ND	1.00	"							
Selenium	ND	0.260	"							
Silver	ND	0.100	"							
Zinc	ND	37.0	"							

LCS (B4E1630-BS1)

Prepared: 05/16/2024 Analyzed: 05/20/2024

Arsenic	5.25	0.290	mg/kg	5.00		105	80-120			
Barium	544	10.0	"	500		109	80-120			
Cadmium	5.28	0.100	"	5.00		106	80-120			
Copper	50.6	10.0	"	50.0		101	80-120			
Lead	5.15	1.00	"	5.00		103	80-120			
Nickel	5.23	1.00	"	5.00		105	80-120			
Selenium	9.55	0.260	"	9.50		101	80-120			
Silver	5.41	0.100	"	5.00		108	80-120			
Zinc	51.4	37.0	"	50.0		103	80-120			

Matrix Spike (B4E1630-MS1)

Source: Y405461-01

Prepared: 05/16/2024 Analyzed: 05/20/2024

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 Project Number: [none]
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Metals by EPA 6000/7000 Series Methods - 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 B4E1630 - EPA 3050B

Matrix Spike (B4E1630-MS1)		Source: Y405461-01			Prepared: 05/16/2024 Analyzed: 05/20/2024					
Arsenic	8.60	0.277	mg/kg	4.78	3.92	97.9	75-125			
Barium	660	9.55	"	478	98.8	117	75-125			
Cadmium	5.57	0.0955	"	4.78	0.319	110	75-125			
Copper	61.6	9.55	"	47.8	11.0	106	75-125			
Lead	18.9	0.955	"	4.78	17.6	25.9	75-125			QM-07
Nickel	14.4	0.955	"	4.78	10.1	89.3	75-125			
Selenium	9.30	0.248	"	9.08	0.204	100	75-125			
Silver	5.45	0.0955	"	4.78	0.0779	112	75-125			
Zinc	94.5	35.4	"	47.8	49.4	94.5	75-125			

Matrix Spike Dup (B4E1630-MSD1)		Source: Y405461-01			Prepared: 05/16/2024 Analyzed: 05/20/2024					
Arsenic	7.88	0.278	mg/kg	4.80	3.92	82.5	75-125	8.74	20	
Barium	636	9.59	"	480	98.8	112	75-125	3.74	20	
Cadmium	5.24	0.0959	"	4.80	0.319	103	75-125	6.08	20	
Copper	57.3	9.59	"	48.0	11.0	96.5	75-125	7.18	20	
Lead	19.1	0.959	"	4.80	17.6	29.7	75-125	0.973	20	QM-07
Nickel	13.6	0.959	"	4.80	10.1	73.0	75-125	5.49	20	QM-07
Selenium	8.75	0.249	"	9.11	0.204	93.8	75-125	6.02	20	
Silver	5.14	0.0959	"	4.80	0.0779	106	75-125	5.80	20	
Zinc	89.0	35.5	"	48.0	49.4	82.6	75-125	6.01	20	

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Andrew Newberry
 Project Number: [none]
 Project: Noble - Volkens #31-22

EPA 8270E (SW846) - Semivolatile Organic Compounds - 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 B4E1635 - EPA 3580

Blank (B4E1635-BLK1)

Prepared: 05/16/2024 Analyzed: 05/17/2024

1-Methylnaphthalene	ND	0.002	mg/kg							Ua
2-Methylnaphthalene	ND	0.002	"							Ua
Acenaphthene	ND	0.020	"							Ua
Anthracene	ND	0.020	"							Ua
Benzo (a) anthracene	ND	0.005	"							Ua
Benzo (a) pyrene	ND	0.020	"							Ua
Benzo (b) fluoranthene	ND	0.020	"							Ua
Benzo (g,h,i) perylene	ND	0.020	"							Ua
Benzo (k) fluoranthene	ND	0.020	"							Ua
Chrysene	ND	0.020	"							Ua
Dibenz (a,h) anthracene	ND	0.020	"							Ua
Fluoranthene	ND	0.020	"							Ua
Fluorene	ND	0.020	"							Ua
Indeno (1,2,3-cd) pyrene	ND	0.020	"							Ua
Naphthalene	ND	0.002	"							Ua
Phenanthrene	ND	0.020	"							Ua
Pyrene	ND	0.020	"							Ua
Surrogate: Fluorene-d10	200		ug/kg	200		102	60-130			
Surrogate: Anthracene-d10	210		"	200		106	60-130			
Surrogate: Pyrene-d10	200		"	200		102	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		101	60-130			

LCS (B4E1635-BS1)

Prepared: 05/16/2024 Analyzed: 05/17/2024

1-Methylnaphthalene	0.186	0.002	mg/kg	0.200		92.9	70-130			
2-Methylnaphthalene	0.184	0.002	"	0.200		91.9	70-130			
Acenaphthene	0.185	0.020	"	0.200		92.5	70-130			
Anthracene	0.196	0.020	"	0.200		97.8	70-130			

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Andrew Newberry
 Project Number: [none]
 Project: Noble - Volkens #31-22

EPA 8270E (SW846) - Semivolatile Organic Compounds - 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 B4E1635 - EPA 3580

LCS (B4E1635-BS1)

Prepared: 05/16/2024 Analyzed: 05/17/2024

Benzo (a) anthracene	0.192	0.005	mg/kg	0.200		96.1	70-130			
Benzo (a) pyrene	0.194	0.020	"	0.200		97.2	70-130			
Benzo (b) fluoranthene	0.192	0.020	"	0.200		96.2	70-130			
Benzo (g,h,i) perylene	0.194	0.020	"	0.200		96.8	70-130			
Benzo (k) fluoranthene	0.194	0.020	"	0.200		97.0	70-130			
Chrysene	0.192	0.020	"	0.200		95.8	70-130			
Dibenz (a,h) anthracene	0.195	0.020	"	0.200		97.6	70-130			
Fluoranthene	0.185	0.020	"	0.200		92.3	70-130			
Fluorene	0.199	0.020	"	0.200		99.3	70-130			
Indeno (1,2,3-cd) pyrene	0.194	0.020	"	0.200		97.0	70-130			
Naphthalene	0.189	0.002	"	0.200		94.7	70-130			
Phenanthrene	0.195	0.020	"	0.200		97.5	70-130			
Pyrene	0.194	0.020	"	0.200		96.9	70-130			
Surrogate: Fluorene-d10	210		ug/kg	200		105	60-130			
Surrogate: Anthracene-d10	200		"	200		101	60-130			
Surrogate: Pyrene-d10	200		"	200		98.9	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		100	60-130			

Matrix Spike (B4E1635-MS1)

Source: Y405410-21

Prepared: 05/16/2024 Analyzed: 05/17/2024

1-Methylnaphthalene	0.194	0.002	mg/kg	0.200	0.0004	96.8	70-130			
2-Methylnaphthalene	0.193	0.002	"	0.200	ND	96.3	70-130			
Acenaphthene	0.187	0.020	"	0.200	0.0004	93.2	70-130			
Anthracene	0.211	0.020	"	0.200	ND	106	70-130			
Benzo (a) anthracene	0.208	0.005	"	0.200	ND	104	70-130			
Benzo (a) pyrene	0.206	0.020	"	0.200	0.001	103	70-130			
Benzo (b) fluoranthene	0.193	0.020	"	0.200	ND	96.7	70-130			
Benzo (g,h,i) perylene	0.195	0.020	"	0.200	0.0004	97.1	70-130			

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Andrew Newberry
 Project Number: [none]
 Project: Noble - Volkens #31-22

EPA 8270E (SW846) - Semivolatile Organic Compounds - 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 B4E1635 - EPA 3580

Matrix Spike (B4E1635-MS1)		Source: Y405410-21			Prepared: 05/16/2024 Analyzed: 05/17/2024					
Benzo (k) fluoranthene	0.202	0.020	mg/kg	0.200	0.0005	101	70-130			
Chrysene	0.199	0.020	"	0.200	ND	99.3	70-130			
Dibenz (a,h) anthracene	0.196	0.020	"	0.200	ND	98.0	70-130			
Fluoranthene	0.202	0.020	"	0.200	ND	101	70-130			
Fluorene	0.189	0.020	"	0.200	0.0005	94.1	70-130			
Indeno (1,2,3-cd) pyrene	0.197	0.020	"	0.200	ND	98.6	70-130			
Naphthalene	0.194	0.002	"	0.200	ND	97.0	70-130			
Phenanthrene	0.186	0.020	"	0.200	ND	92.8	70-130			
Pyrene	0.201	0.020	"	0.200	ND	100	70-130			
Surrogate: Fluorene-d10	210		ug/kg	200		103	60-130			
Surrogate: Anthracene-d10	200		"	200		99.6	60-130			
Surrogate: Pyrene-d10	210		"	200		104	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		102	60-130			

Matrix Spike Dup (B4E1635-MSD1)		Source: Y405410-21			Prepared: 05/16/2024 Analyzed: 05/17/2024					
1-Methylnaphthalene	0.193	0.002	mg/kg	0.200	0.0004	96.1	70-130	0.723	20	
2-Methylnaphthalene	0.199	0.002	"	0.200	ND	99.3	70-130	3.03	20	
Acenaphthene	0.188	0.020	"	0.200	0.0004	93.8	70-130	0.612	20	
Anthracene	0.193	0.020	"	0.200	ND	96.3	70-130	9.34	20	
Benzo (a) anthracene	0.193	0.005	"	0.200	ND	96.3	70-130	7.66	20	
Benzo (a) pyrene	0.195	0.020	"	0.200	0.001	97.0	70-130	5.65	20	
Benzo (b) fluoranthene	0.194	0.020	"	0.200	ND	97.0	70-130	0.343	20	
Benzo (g,h,i) perylene	0.192	0.020	"	0.200	0.0004	96.0	70-130	1.16	20	
Benzo (k) fluoranthene	0.172	0.020	"	0.200	0.0005	85.5	70-130	16.5	20	
Chrysene	0.191	0.020	"	0.200	ND	95.5	70-130	3.82	20	
Dibenz (a,h) anthracene	0.178	0.020	"	0.200	ND	89.1	70-130	9.57	20	
Fluoranthene	0.179	0.020	"	0.200	ND	89.6	70-130	12.2	20	

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Andrew Newberry
 Project Number: [none]
 Project: Noble - Volkens #31-22

EPA 8270E (SW846) - Semivolatile Organic Compounds - 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 B4E1635 - EPA 3580

Matrix Spike Dup (B4E1635-MSD1)	Source: Y405410-21			Prepared: 05/16/2024 Analyzed: 05/17/2024						
Fluorene	0.194	0.020	mg/kg	0.200	0.0005	96.8	70-130	2.87	20	
Indeno (1,2,3-cd) pyrene	0.190	0.020	"	0.200	ND	95.1	70-130	3.62	20	
Naphthalene	0.190	0.002	"	0.200	ND	95.1	70-130	1.99	20	
Phenanthrene	0.190	0.020	"	0.200	ND	95.1	70-130	2.46	20	
Pyrene	0.196	0.020	"	0.200	ND	98.1	70-130	2.23	20	
Surrogate: Fluorene-d10	210		ug/kg	200		105	60-130			
Surrogate: Anthracene-d10	200		"	200		101	60-130			
Surrogate: Pyrene-d10	200		"	200		101	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		101	60-130			

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, LLC
 8000 W 44th Ave
 Wheat Ridge CO 80033

Andrew Newberry
 Project Number: [none]
 Project: Noble - Volkens #31-22

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 B4E1610 - Saturated Paste Metals

Blank (B4E1610-BLK1)

Prepared: 05/16/2024 Analyzed: 05/17/2024

Calcium PPM	ND	10.0	mg/L							
SAR	ND	0.0100	SAR							
Magnesium PPM	ND	10.0	mg/L							
Sodium PPM	ND	10.0	"							

Duplicate (B4E1610-DUP1)

Source: Y405444-01

Prepared: 05/16/2024 Analyzed: 05/17/2024

SAR	ND	0.0100	SAR		2.42				200	
Calcium PPM	97.7	10.0	mg/L		97.9			0.245	50	
Magnesium PPM	16.8	10.0	"		17.8			5.91	50	
Sodium PPM	83.2	10.0	"		99.0			17.2	50	

Batch B4E1615 - DTPA Sorbitol Preparation

Blank (B4E1615-BLK1)

Prepared: 05/16/2024 Analyzed: 05/17/2024

Boron	ND	0.100	mg/L							
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Duplicate (B4E1615-DUP1)

Source: Y405410-21

Prepared: 05/16/2024 Analyzed: 05/17/2024

Boron	1.04	0.101	mg/L		0.996			4.01	50	
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Origins Laboratory, Inc.



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

Andrew Newberry
 Project Number: [none]
 Project: Noble - Volkens #31-22

Saturated Paste - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B4E1622 - Saturated Paste pH/EC										
Blank (B4E1622-BLK1)					Prepared: 05/16/2024 Analyzed: 05/17/2024					
Specific Conductance (EC)	ND	0.00500	mmhos/cm							
Duplicate (B4E1622-DUP1)					Source: Y405444-01 Prepared: 05/16/2024 Analyzed: 05/17/2024					
pH	8.24		pH Units		8.29			0.605	25	
Specific Conductance (EC)	1.14	0.00500	mmhos/cm		1.20			4.47	25	

Origins Laboratory, Inc.



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

Andrew Newberry
 Project Number: [none]
 Project: Noble - Volkens #31-22

Total Metals by 7196A - Quality Control
GEL Laboratories, LLC

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2617121 - SW846 3060A										
BLANK (1205744083-BLK)					Prepared: 05/25/2024 Analyzed: 05/28/2024					
Hexavalent Chromium	ND	0.399	mg/kg				-			U
LCS (1205744084-BKS)					Prepared: 05/25/2024 Analyzed: 05/28/2024					
Hexavalent Chromium	3.76	0.390	mg/kg	3.90		96.4	80-120			
DUP (1205744085 D)					Source: 667780001 Prepared: 05/25/2024 Analyzed: 05/28/2024					
Hexavalent Chromium	ND	0.439	mg/kg dry		<0.176		0-50	N/A	50	U
MS (1205744086 S)					Source: 667780001 Prepared: 05/25/2024 Analyzed: 05/28/2024					
Hexavalent Chromium	3.41	0.439	mg/kg dry	4.39	<0.176	76.1	75-125			
DUP (1205744087 D)					Source: 667792001 Prepared: 05/25/2024 Analyzed: 05/28/2024					
Hexavalent Chromium	ND	0.345	mg/kg dry		<0.138		0-50	N/A	50	U
MS (1205744088 S)					Source: 667792001 Prepared: 05/25/2024 Analyzed: 05/28/2024					
Hexavalent Chromium	2.87	0.345	mg/kg dry	3.45	<0.138	81.6	75-125			
ILCS (1205744089-ILCS)					Prepared: 05/25/2024 Analyzed: 05/28/2024					
Hexavalent Chromium	7.85	0.386	mg/kg	7.98		98.4	80-120			

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

Andrew Newberry
Project Number: [none]
Project: Noble - Volkens #31-22

Notes and Definitions

Ua Sample is Non-Detect.

U Result not detected above the detection limit

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

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.

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.

May 30, 2024

Eagle Environmental Consulting, LLC

Andrew Newberry

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - Noble - Volkens #31-22

Project Number - [none]

Attached are your analytical results for Noble - Volkens #31-22 received by Origins Laboratory, Inc. May 15, 2024. This project is associated with Origins project number Y405504-01.

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

Andrew Newberry
Project Number: [none]
Project: Noble - Volkens #31-22

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
FL06@5'	Y405504-01	Soil	May 15, 2024 10:45	05/15/2024 16:17
FL07R-S@3'	Y405504-02	Soil	May 15, 2024 12:10	05/15/2024 16:17

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

Andrew Newberry
 Project Number: [none]
 Project: Noble - Volkens #31-22

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: 4405504 Client: Eagle
 Client Project ID: Volkens #31-22

Checklist Completed by: JH/SJ Shipped Via: HQ
 Date/time completed: 5/15/12 (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, 3 °C _____ °C _____ °C (Describe)

Thermometer ID: 7005

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): <u>second sample was received and labeled FLO7-503' on container.</u>				

⁽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) [Signature] Date/Time Reviewed 5/17/12

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, LLC
 8000 W 44th Ave
 Wheat Ridge CO 80033

Andrew Newberry
 Project Number: [none]
 Project: Noble - Volkens #31-22

FL06@5'

5/15/2024 10:45:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 Y405504-01 (Soil)

Boron (DTPA Sorbitol)

Boron	0.276		0.0996	mg/L	1	B4E2026	05/20/2024	05/22/2024	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B4E1638	05/16/2024	05/20/2024	Ua
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	Ua

Surrogate: o-Terphenyl	95.0 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B4E1631	05/16/2024	05/17/2024	Ua
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	Ua
Benzene	ND		0.00200	"	"	"	"	"	Ua
Ethylbenzene	ND		0.00200	"	"	"	"	"	Ua
Naphthalene	ND		0.00380	"	"	"	"	"	Ua
Toluene	ND		0.00200	"	"	"	"	"	Ua
Xylenes, total	ND		0.00200	"	"	"	"	"	Ua
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	Ua

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

Andrew Newberry
 Project Number: [none]
 Project: Noble - Volkens #31-22

FL06@5'

5/15/2024 10:45:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 Y405504-01 (Soil)

GBTEX+TMBs by 8260D

Surrogate: 1,2-Dichloroethane-d4	105 %		70-130			B4E16 31	05/16/2024	05/17/2024	
Surrogate: Toluene-d8	105 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	95.3 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	3.10		0.499	meq/L	10	[CALC]	05/20/2024	05/22/2024	
Magnesium	1.09		0.823	"	"	"	"	"	
Sodium	5.34		0.435	"	"	"	"	"	

PAH by EPA 8270E

1-Methylnaphthalene	ND		0.002	mg/kg	1	B4E1729	05/17/2024	05/18/2024	Ua
2-Methylnaphthalene	0.003		0.002	"	"	"	"	"	
Acenaphthene	ND		0.020	"	"	"	"	"	Ua
Anthracene	ND		0.020	"	"	"	"	"	Ua
Benzo (a) anthracene	0.024		0.005	"	"	"	"	"	
Benzo (a) pyrene	ND		0.020	"	"	"	"	"	Ua
Benzo (b) fluoranthene	ND		0.020	"	"	"	"	"	Ua
Benzo (k) fluoranthene	ND		0.020	"	"	"	"	"	Ua
Chrysene	0.026		0.020	"	"	"	"	"	
Dibenz (a,h) anthracene	ND		0.020	"	"	"	"	"	Ua
Fluoranthene	0.072		0.020	"	"	"	"	"	

Origins Laboratory, Inc.



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

Andrew Newberry
 Project Number: [none]
 Project: Noble - Volkens #31-22

FL06@5'

5/15/2024 10:45:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 Y405504-01 (Soil)

PAH by EPA 8270E

Fluorene	ND		0.020	mg/kg	1	B4E1729	05/17/2024	05/18/2024	Ua
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	Ua
Pyrene	0.044		0.020	"	"	"	"	"	

Surrogate: Fluorene-d10	102 %		60-130			"	"	"	
Surrogate: Anthracene-d10	99.8 %		60-130			"	"	"	
Surrogate: Pyrene-d10	87.3 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	98.5 %		60-130			"	"	"	

pH in Soil by 9045D

pH	8.33			pH Units	1	B4E2018	05/20/2024	05/22/2024	
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SAR by 20B Saturated Paste

SAR	3.69		0.0100	SAR	1	B4E2010	05/20/2024	05/22/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.981		0.00500	mmhos/cm	1	B4E2018	05/20/2024	05/22/2024	
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Table 915 metals by EPA 6020B

Arsenic	2.00		0.249	mg/kg	10	B4E1632	05/16/2024	05/17/2024	
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Origins Laboratory, Inc.



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

Andrew Newberry
 Project Number: [none]
 Project: Noble - Volkens #31-22

FL06@5'

5/15/2024 10:45:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 Y405504-01 (Soil)

Table 915 metals by EPA 6020B

Barium	58.7		8.58	mg/kg	10	B4E1632	05/16/2024	05/17/2024	
Cadmium	ND		0.0858	"	"	"	"	"	
Copper	ND		8.58	"	"	"	"	"	
Lead	5.77		0.858	"	"	"	"	"	
Nickel	4.98		0.858	"	"	"	"	"	
Selenium	ND		0.223	"	"	"	"	"	
Silver	ND		0.0858	"	"	"	"	"	
Zinc	ND		31.7	"	"	"	"	"	

Total Metals by 7196A

Hexavalent Chromium	ND	0.143	0.356	mg/kg dry	1	2617737	05/28/2024	05/29/2024	U
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Origins Laboratory, Inc.



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

Andrew Newberry
 Project Number: [none]
 Project: Noble - Volkens #31-22

FL07R-S@3'

5/15/2024 12:10:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y405504-02 (Soil)

Boron (DTPA Sorbitol)

Boron	0.227		0.0992	mg/L	1	B4E2026	05/20/2024	05/22/2024	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	27.1		25.0	mg/kg	1	B4E1638	05/16/2024	05/20/2024	
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	Ua

Surrogate: o-Terphenyl	95.3 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B4E1631	05/16/2024	05/17/2024	Ua
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	Ua
Benzene	ND		0.00200	"	"	"	"	"	Ua
Ethylbenzene	ND		0.00200	"	"	"	"	"	Ua
Naphthalene	ND		0.00380	"	"	"	"	"	Ua
Toluene	ND		0.00200	"	"	"	"	"	Ua
Xylenes, total	ND		0.00200	"	"	"	"	"	Ua
Gasoline Range Hydrocarbons	0.428		0.200	"	"	"	"	"	

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

Andrew Newberry
 Project Number: [none]
 Project: Noble - Volkens #31-22

FL07R-S@3'

5/15/2024 12:10:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y405504-02 (Soil)

GBTEX+TMBs by 8260D

Surrogate: 1,2-Dichloroethane-d4	109 %		70-130			B4E16 31	05/16/2024	05/17/2024	
Surrogate: Toluene-d8	98.7 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	97.9 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	0.823		0.499	meq/L	10	[CALC]	05/20/2024	05/22/2024	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	1.05		0.435	"	"	"	"	"	

PAH by EPA 8270E

1-Methylnaphthalene	0.005		0.002	mg/kg	1	B4E1729	05/17/2024	05/18/2024	
2-Methylnaphthalene	0.008		0.002	"	"	"	"	"	
Acenaphthene	ND		0.020	"	"	"	"	"	Ua
Anthracene	ND		0.020	"	"	"	"	"	Ua
Benzo (a) anthracene	ND		0.005	"	"	"	"	"	Ua
Benzo (a) pyrene	ND		0.020	"	"	"	"	"	Ua
Benzo (b) fluoranthene	ND		0.020	"	"	"	"	"	Ua
Benzo (k) fluoranthene	ND		0.020	"	"	"	"	"	Ua
Chrysene	ND		0.020	"	"	"	"	"	Ua
Dibenz (a,h) anthracene	ND		0.020	"	"	"	"	"	Ua
Fluoranthene	ND		0.020	"	"	"	"	"	Ua

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

Andrew Newberry
 Project Number: [none]
 Project: Noble - Volkens #31-22

FL07R-S@3'

5/15/2024 12:10:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y405504-02 (Soil)

PAH by EPA 8270E

Fluorene	ND		0.020	mg/kg	1	B4E1729	05/17/2024	05/18/2024	Ua
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	Ua
Pyrene	ND		0.020	"	"	"	"	"	Ua

Surrogate: Fluorene-d10	101 %		60-130			"	"	"	
Surrogate: Anthracene-d10	101 %		60-130			"	"	"	
Surrogate: Pyrene-d10	86.6 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	99.0 %		60-130			"	"	"	

pH in Soil by 9045D

pH	8.44			pH Units	1	B4E2018	05/20/2024	05/22/2024	
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SAR by 20B Saturated Paste

SAR	1.37		0.0100	SAR	1	B4E2010	05/20/2024	05/22/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.228		0.00500	mmhos/cm	1	B4E2018	05/20/2024	05/22/2024	
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Table 915 metals by EPA 6020B

Arsenic	2.79		0.258	mg/kg	10	B4E1632	05/16/2024	05/17/2024	
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Eagle Environmental Consulting, LLC
 8000 W 44th Ave
 Wheat Ridge CO 80033

Andrew Newberry
 Project Number: [none]
 Project: Noble - Volkens #31-22

FL07R-S@3'

5/15/2024 12:10:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y405504-02 (Soil)

Table 915 metals by EPA 6020B

Barium	61.0		8.89	mg/kg	10	B4E1632	05/16/2024	05/17/2024	
Cadmium	0.288		0.0889	"	"	"	"	"	
Copper	ND		8.89	"	"	"	"	"	
Lead	4.64		0.889	"	"	"	"	"	
Nickel	7.60		0.889	"	"	"	"	"	
Selenium	ND		0.231	"	"	"	"	"	
Silver	ND		0.0889	"	"	"	"	"	
Zinc	ND		32.9	"	"	"	"	"	

Total Metals by 7196A

Hexavalent Chromium	ND	0.171	0.428	mg/kg dry	1	2617737	05/28/2024	05/29/2024	U
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Andrew Newberry
 Project Number: [none]
 Project: Noble - Volkens #31-22

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 B4E1631 - EPA 5030 (soil)

Blank (B4E1631-BLK1)

Prepared: 05/16/2024 Analyzed: 05/16/2024

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							Ua
1,3,5-Trimethylbenzene	ND	0.00200	"							Ua
Benzene	ND	0.00200	"							Ua
Ethylbenzene	ND	0.00200	"							Ua
Naphthalene	ND	0.00380	"							Ua
Toluene	ND	0.00200	"							Ua
Xylenes, total	ND	0.00200	"							Ua
Gasoline Range Hydrocarbons	ND	0.200	"							Ua
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		99.7	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		103	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		98.4	70-130			

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Andrew Newberry
 Project Number: [none]
 Project: Noble - Volkens #31-22

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 B4E1631 - EPA 5030 (soil)

LCS (B4E1631-BS1)

Prepared: 05/16/2024 Analyzed: 05/16/2024

1,2,4-Trimethylbenzene	0.0945	0.00200	mg/kg	0.100		94.5	70-130			
1,3,5-Trimethylbenzene	0.0953	0.00200	"	0.100		95.3	70-130			
Benzene	0.0899	0.00200	"	0.100		89.9	70-130			
Ethylbenzene	0.0898	0.00200	"	0.100		89.8	70-130			
Naphthalene	0.0991	0.00380	"	0.100		99.1	70-130			
Toluene	0.0942	0.00200	"	0.100		94.2	70-130			
o-Xylene	0.0895	0.00200	"	0.100		89.5	70-130			
m,p-Xylene	0.180	0.00400	"	0.200		89.9	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		101	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		103	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		97.4	70-130			

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 Project Number: [none]
 Project: Noble - Volkens #31-22

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 B4E1631 - EPA 5030 (soil)

Matrix Spike (B4E1631-MS1)	Source: Y405508-01			Prepared: 05/16/2024 Analyzed: 05/16/2024						
1,2,4-Trimethylbenzene	0.0842	0.00200	mg/kg	0.100	ND	84.2	70-130			
1,3,5-Trimethylbenzene	0.0862	0.00200	"	0.100	ND	86.2	70-130			
Benzene	0.0863	0.00200	"	0.100	ND	86.3	70-130			
Ethylbenzene	0.0821	0.00200	"	0.100	ND	82.1	70-130			
Naphthalene	0.0850	0.00380	"	0.100	ND	85.0	70-130			
Toluene	0.0874	0.00200	"	0.100	ND	87.4	70-130			
o-Xylene	0.0757	0.00200	"	0.100	ND	75.7	70-130			
m,p-Xylene	0.159	0.00400	"	0.200	ND	79.6	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		105	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		102	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		99.9	70-130			

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 Project Number: [none]
 Project: Noble - Volkens #31-22

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 B4E1631 - EPA 5030 (soil)

Matrix Spike Dup (B4E1631-MSD1)	Source: Y405508-01			Prepared: 05/16/2024 Analyzed: 05/16/2024						
1,2,4-Trimethylbenzene	0.0829	0.00200	mg/kg	0.100	ND	82.9	70-130	1.51	20	
1,3,5-Trimethylbenzene	0.0842	0.00200	"	0.100	ND	84.2	70-130	2.35	20	
Benzene	0.0845	0.00200	"	0.100	ND	84.5	70-130	2.08	20	
Ethylbenzene	0.0814	0.00200	"	0.100	ND	81.4	70-130	0.832	20	
Naphthalene	0.0844	0.00380	"	0.100	ND	84.4	70-130	0.732	20	
Toluene	0.0830	0.00200	"	0.100	ND	83.0	70-130	5.26	20	
o-Xylene	0.0750	0.00200	"	0.100	ND	75.0	70-130	0.930	20	
m,p-Xylene	0.158	0.00400	"	0.200	ND	79.0	70-130	0.694	20	
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		106	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		100	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		103	70-130			

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Andrew Newberry
 Project Number: [none]
 Project: Noble - Volkens #31-22

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 B4E1638 - EPA 3550B										
Blank (B4E1638-BLK1)										
Prepared: 05/16/2024 Analyzed: 05/20/2024										
Diesel (C10-C28)	ND	25.0	mg/kg							Ua
Residual Range Organics (C28-C40)	ND	100	"							Ua
Surrogate: o-Terphenyl	25		"	24.9		101	50-150			

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 Project: Noble - Volkens #31-22

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 B4E1638 - EPA 3550B

LCS (B4E1638-BS1)

Prepared: 05/16/2024 Analyzed: 05/20/2024

Diesel (C10-C28)	837	50.0	mg/kg	1000		83.7	70-130			
Residual Range Organics (C28-C40)	901	200	"	1000		90.1	70-130			
Surrogate: o-Terphenyl	57		"	49.8		115	50-150			

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Andrew Newberry
 Project Number: [none]
 Project: Noble - Volkens #31-22

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 B4E1638 - EPA 3550B

Matrix Spike (B4E1638-MS1)	Source: Y405461-01				Prepared: 05/16/2024 Analyzed: 05/20/2024					
Diesel (C10-C28)	867	50.0	mg/kg	1000	ND	86.7	70-130			
Residual Range Organics (C28-C40)	923	200	"	1000	ND	92.3	70-130			
Surrogate: o-Terphenyl	46		"	49.8		93.0	50-150			

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 Project Number: [none]
 Project: Noble - Volkens #31-22

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 B4E1638 - EPA 3550B										
Matrix Spike Dup (B4E1638-MSD1)		Source: Y405461-01			Prepared: 05/16/2024 Analyzed: 05/20/2024					
Diesel (C10-C28)	842	50.0	mg/kg	1000	ND	84.2	70-130	2.91	35	
Residual Range Organics (C28-C40)	963	200	"	1000	ND	96.3	70-130	4.28	35	
Surrogate: o-Terphenyl	54		"	49.8		109	50-150			

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 Project: Noble - Volkens #31-22

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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Metals by EPA 6000/7000 Series Methods - 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 B4E1632 - EPA 3050B

Blank (B4E1632-BLK1)

Prepared: 05/16/2024 Analyzed: 05/17/2024

Arsenic	ND	0.290	mg/kg							
Barium	ND	10.0	"							
Cadmium	ND	0.100	"							
Copper	ND	10.0	"							
Lead	ND	1.00	"							
Nickel	ND	1.00	"							
Selenium	ND	0.260	"							
Silver	ND	0.100	"							
Zinc	ND	37.0	"							

LCS (B4E1632-BS1)

Prepared: 05/16/2024 Analyzed: 05/17/2024

Arsenic	4.68	0.290	mg/kg	5.00		93.6	80-120			
Barium	479	10.0	"	500		95.9	80-120			
Cadmium	4.57	0.100	"	5.00		91.5	80-120			
Copper	49.1	10.0	"	50.0		98.2	80-120			
Lead	4.56	1.00	"	5.00		91.3	80-120			
Nickel	4.77	1.00	"	5.00		95.5	80-120			
Selenium	9.22	0.260	"	9.50		97.1	80-120			
Silver	4.69	0.100	"	5.00		93.8	80-120			
Zinc	47.2	37.0	"	50.0		94.5	80-120			

Matrix Spike (B4E1632-MS1)

Source: Y404571-10

Prepared: 05/16/2024 Analyzed: 05/17/2024

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Andrew Newberry
 Project Number: [none]
 Project: Noble - Volkens #31-22

Metals by EPA 6000/7000 Series Methods - 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 B4E1632 - EPA 3050B

Matrix Spike (B4E1632-MS1)		Source: Y404571-10			Prepared: 05/16/2024 Analyzed: 05/17/2024					
Arsenic	12.3	0.249	mg/kg	4.29	7.29	117	75-125			
Barium	491	8.57	"	429	102	90.6	75-125			
Cadmium	4.16	0.0857	"	4.29	0.0962	94.8	75-125			
Copper	54.3	8.57	"	42.9	10.2	103	75-125			
Lead	14.7	0.857	"	4.29	9.81	114	75-125			
Nickel	19.0	0.857	"	4.29	14.1	115	75-125			
Selenium	8.01	0.223	"	8.14	0.103	97.1	75-125			
Silver	4.08	0.0857	"	4.29	ND	95.2	75-125			
Zinc	89.5	31.7	"	42.9	44.8	104	75-125			

Matrix Spike Dup (B4E1632-MSD1)		Source: Y404571-10			Prepared: 05/16/2024 Analyzed: 05/17/2024					
Arsenic	11.6	0.258	mg/kg	4.46	7.29	96.7	75-125	5.84	20	
Barium	482	8.91	"	446	102	85.1	75-125	1.93	20	
Cadmium	4.16	0.0891	"	4.46	0.0962	91.2	75-125	0.0597	20	
Copper	52.9	8.91	"	44.6	10.2	95.8	75-125	2.73	20	
Lead	14.0	0.891	"	4.46	9.81	94.5	75-125	4.62	20	
Nickel	18.2	0.891	"	4.46	14.1	92.9	75-125	4.24	20	
Selenium	7.51	0.232	"	8.47	0.103	87.5	75-125	6.51	20	
Silver	4.18	0.0891	"	4.46	ND	93.8	75-125	2.40	20	
Zinc	86.0	33.0	"	44.6	44.8	92.4	75-125	4.06	20	

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Andrew Newberry
 Project Number: [none]
 Project: Noble - Volkens #31-22

EPA 8270E (SW846) - Semivolatile Organic Compounds - 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 B4E1729 - EPA 3580

Blank (B4E1729-BLK1)

Prepared: 05/17/2024 Analyzed: 05/18/2024

1-Methylnaphthalene	ND	0.002	mg/kg							Ua
2-Methylnaphthalene	ND	0.002	"							Ua
Acenaphthene	ND	0.020	"							Ua
Anthracene	ND	0.020	"							Ua
Benzo (a) anthracene	ND	0.005	"							Ua
Benzo (a) pyrene	ND	0.020	"							Ua
Benzo (b) fluoranthene	ND	0.020	"							Ua
Benzo (g,h,i) perylene	ND	0.020	"							Ua
Benzo (k) fluoranthene	ND	0.020	"							Ua
Chrysene	ND	0.020	"							Ua
Dibenz (a,h) anthracene	ND	0.020	"							Ua
Fluoranthene	ND	0.020	"							Ua
Fluorene	ND	0.020	"							Ua
Indeno (1,2,3-cd) pyrene	ND	0.020	"							Ua
Naphthalene	ND	0.002	"							Ua
Phenanthrene	ND	0.020	"							Ua
Pyrene	ND	0.020	"							Ua

Surrogate: Fluorene-d10	200		ug/kg	200		102	60-130			
Surrogate: Anthracene-d10	200		"	200		99.3	60-130			
Surrogate: Pyrene-d10	180		"	200		87.7	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		99.2	60-130			

LCS (B4E1729-BS1)

Prepared: 05/17/2024 Analyzed: 05/18/2024

1-Methylnaphthalene	0.182	0.002	mg/kg	0.200		90.8	70-130			
2-Methylnaphthalene	0.181	0.002	"	0.200		90.7	70-130			
Acenaphthene	0.182	0.020	"	0.200		91.1	70-130			
Anthracene	0.175	0.020	"	0.200		87.6	70-130			

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Andrew Newberry
 Project Number: [none]
 Project: Noble - Volkens #31-22

EPA 8270E (SW846) - Semivolatile Organic Compounds - 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 B4E1729 - EPA 3580

LCS (B4E1729-BS1)

Prepared: 05/17/2024 Analyzed: 05/18/2024

Benzo (a) anthracene	0.180	0.005	mg/kg	0.200		89.8	70-130			
Benzo (a) pyrene	0.185	0.020	"	0.200		92.5	70-130			
Benzo (b) fluoranthene	0.189	0.020	"	0.200		94.7	70-130			
Benzo (g,h,i) perylene	0.164	0.020	"	0.200		81.8	70-130			
Benzo (k) fluoranthene	0.186	0.020	"	0.200		93.1	70-130			
Chrysene	0.191	0.020	"	0.200		95.3	70-130			
Dibenz (a,h) anthracene	0.195	0.020	"	0.200		97.7	70-130			
Fluoranthene	0.186	0.020	"	0.200		93.0	70-130			
Fluorene	0.187	0.020	"	0.200		93.7	70-130			
Indeno (1,2,3-cd) pyrene	0.173	0.020	"	0.200		86.4	70-130			
Naphthalene	0.183	0.002	"	0.200		91.4	70-130			
Phenanthrene	0.181	0.020	"	0.200		90.6	70-130			
Pyrene	0.164	0.020	"	0.200		81.9	70-130			

Surrogate: Fluorene-d10	210		ug/kg	200		103	60-130			
Surrogate: Anthracene-d10	200		"	200		99.2	60-130			
Surrogate: Pyrene-d10	180		"	200		89.7	60-130			
Surrogate: Benzo (a) pyrene-d12	190		"	200		97.4	60-130			

Matrix Spike (B4E1729-MS1)

Source: Y405498-01

Prepared: 05/17/2024 Analyzed: 05/18/2024

1-Methylnaphthalene	0.196	0.002	mg/kg	0.200	ND	98.0	70-130			
2-Methylnaphthalene	0.195	0.002	"	0.200	ND	97.5	70-130			
Acenaphthene	0.196	0.020	"	0.200	ND	98.1	70-130			
Anthracene	0.213	0.020	"	0.200	0.0005	106	70-130			
Benzo (a) anthracene	0.167	0.005	"	0.200	0.0005	83.2	70-130			
Benzo (a) pyrene	0.202	0.020	"	0.200	ND	101	70-130			
Benzo (b) fluoranthene	0.208	0.020	"	0.200	0.0007	104	70-130			
Benzo (g,h,i) perylene	0.193	0.020	"	0.200	0.0006	96.1	70-130			

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 8000 W 44th Ave
 Wheat Ridge CO 80033

Andrew Newberry
 Project Number: [none]
 Project: Noble - Volkens #31-22

EPA 8270E (SW846) - Semivolatile Organic Compounds - 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 B4E1729 - EPA 3580

Matrix Spike (B4E1729-MS1)	Source: Y405498-01			Prepared: 05/17/2024 Analyzed: 05/18/2024						
Benzo (k) fluoranthene	0.200	0.020	mg/kg	0.200	0.0008	99.4	70-130			
Chrysene	0.203	0.020	"	0.200	0.0007	101	70-130			
Dibenz (a,h) anthracene	0.221	0.020	"	0.200	ND	110	70-130			
Fluoranthene	0.203	0.020	"	0.200	ND	101	70-130			
Fluorene	0.202	0.020	"	0.200	ND	101	70-130			
Indeno (1,2,3-cd) pyrene	0.206	0.020	"	0.200	ND	103	70-130			
Naphthalene	0.201	0.002	"	0.200	ND	100	70-130			
Phenanthrene	0.196	0.020	"	0.200	ND	98.0	70-130			
Pyrene	0.170	0.020	"	0.200	ND	85.2	70-130			
Surrogate: Fluorene-d10	210		ug/kg	200		103	60-130			
Surrogate: Anthracene-d10	200		"	200		101	60-130			
Surrogate: Pyrene-d10	170		"	200		85.5	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		99.2	60-130			

Matrix Spike Dup (B4E1729-MSD1)	Source: Y405498-01			Prepared: 05/17/2024 Analyzed: 05/18/2024						
1-Methylnaphthalene	0.195	0.002	mg/kg	0.200	ND	97.7	70-130	0.381	20	
2-Methylnaphthalene	0.196	0.002	"	0.200	ND	97.8	70-130	0.390	20	
Acenaphthene	0.195	0.020	"	0.200	ND	97.3	70-130	0.781	20	
Anthracene	0.192	0.020	"	0.200	0.0005	95.5	70-130	10.8	20	
Benzo (a) anthracene	0.200	0.005	"	0.200	0.0005	99.8	70-130	18.1	20	
Benzo (a) pyrene	0.198	0.020	"	0.200	ND	99.1	70-130	2.00	20	
Benzo (b) fluoranthene	0.201	0.020	"	0.200	0.0007	100	70-130	3.67	20	
Benzo (g,h,i) perylene	0.185	0.020	"	0.200	0.0006	92.0	70-130	4.44	20	
Benzo (k) fluoranthene	0.192	0.020	"	0.200	0.0008	95.8	70-130	3.66	20	
Chrysene	0.199	0.020	"	0.200	0.0007	99.0	70-130	2.13	20	
Dibenz (a,h) anthracene	0.216	0.020	"	0.200	ND	108	70-130	2.13	20	
Fluoranthene	0.200	0.020	"	0.200	ND	99.9	70-130	1.39	20	

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

Andrew Newberry
 Project Number: [none]
 Project: Noble - Volkens #31-22

EPA 8270E (SW846) - Semivolatile Organic Compounds - 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 B4E1729 - EPA 3580

Matrix Spike Dup (B4E1729-MSD1)		Source: Y405498-01			Prepared: 05/17/2024 Analyzed: 05/18/2024					
Fluorene	0.199	0.020	mg/kg	0.200	ND	99.6	70-130	1.51	20	
Indeno (1,2,3-cd) pyrene	0.182	0.020	"	0.200	ND	90.8	70-130	12.5	20	
Naphthalene	0.196	0.002	"	0.200	ND	97.8	70-130	2.46	20	
Phenanthrene	0.192	0.020	"	0.200	ND	95.8	70-130	2.24	20	
Pyrene	0.174	0.020	"	0.200	ND	87.0	70-130	2.10	20	
Surrogate: Fluorene-d10	210		ug/kg	200		103	60-130			
Surrogate: Anthracene-d10	200		"	200		99.5	60-130			
Surrogate: Pyrene-d10	180		"	200		89.7	60-130			
Surrogate: Benzo (a) pyrene-d12	190		"	200		96.9	60-130			

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Andrew Newberry
 Project Number: [none]
 Project: Noble - Volkens #31-22

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 B4E2010 - Saturated Paste Metals

Blank (B4E2010-BLK1)

Prepared: 05/20/2024 Analyzed: 05/22/2024

Calcium PPM	ND	10.0	mg/L							
SAR	ND	0.0100	SAR							
Magnesium PPM	ND	10.0	mg/L							
Sodium PPM	ND	10.0	"							

Duplicate (B4E2010-DUP1)

Source: Y405460-07

Prepared: 05/20/2024 Analyzed: 05/22/2024

Calcium PPM	50.6	10.0	mg/L		57.6			13.1	50	
SAR	ND	0.0100	SAR		2.69				200	
Magnesium PPM	28.0	10.0	mg/L		32.0			13.5	50	
Sodium PPM	82.5	10.0	"		103			21.8	50	

Batch B4E2026 - DTPA Sorbitol Preparation

Blank (B4E2026-BLK1)

Prepared: 05/20/2024 Analyzed: 05/22/2024

Boron	ND	0.100	mg/L							
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Duplicate (B4E2026-DUP1)

Source: Y405500-02

Prepared: 05/20/2024 Analyzed: 05/22/2024

Boron	0.259	0.100	mg/L		0.229			12.4	50	
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 8000 W 44th Ave
 Wheat Ridge CO 80033

Andrew Newberry
 Project Number: [none]
 Project: Noble - Volkens #31-22

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 B4E2018 - Saturated Paste pH/EC

Blank (B4E2018-BLK1)

Prepared: 05/20/2024 Analyzed: 05/22/2024

Specific Conductance (EC) ND 0.00500 mmhos/cm

Duplicate (B4E2018-DUP1)

Source: Y405460-07

Prepared: 05/20/2024 Analyzed: 05/22/2024

pH	7.96		pH Units		8.20			2.97	25	
Specific Conductance (EC)	0.779	0.00500	mmhos/cm		0.979			22.8	25	

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 Project: Noble - Volkens #31-22

Total Metals by 7196A - Quality Control
GEL Laboratories, LLC

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2617737 - SW846 3060A										
BLANK (1205745540-BLK)					Prepared: 05/28/2024 Analyzed: 05/29/2024					
Hexavalent Chromium	ND	0.316	mg/kg				-			U
LCS (1205745541-BKS)					Prepared: 05/28/2024 Analyzed: 05/29/2024					
Hexavalent Chromium	3.71	0.379	mg/kg	3.79		97.7	80-120			
DUP (1205745542 D)					Source: 668248001 Prepared: 05/28/2024 Analyzed: 05/29/2024					
Hexavalent Chromium	ND	0.256	mg/kg dry		<0.102		0-50	N/A	50	U
MS (1205745543 S)					Source: 668248001 Prepared: 05/28/2024 Analyzed: 05/29/2024					
Hexavalent Chromium	1.90	0.295	mg/kg dry	2.95	<0.118	62.4	75-125			
DUP (1205745544 D)					Source: Y405504-02 Prepared: 05/28/2024 Analyzed: 05/29/2024					
Hexavalent Chromium	ND	0.431	mg/kg dry		<0.173		0-50	N/A	50	U
MS (1205745545 S)					Source: Y405504-02 Prepared: 05/28/2024 Analyzed: 05/29/2024					
Hexavalent Chromium	4.50	0.450	mg/kg dry	4.50	<0.180	98.8	75-125			
ILCS (1205745546-ILCS)					Prepared: 05/28/2024 Analyzed: 05/29/2024					
Hexavalent Chromium	6.81	0.316	mg/kg	7.02		97.1	80-120			

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Andrew Newberry
Project Number: [none]
Project: Noble - Volkens #31-22

Notes and Definitions

Ua Sample is Non-Detect.

U Result not detected above the detection 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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