



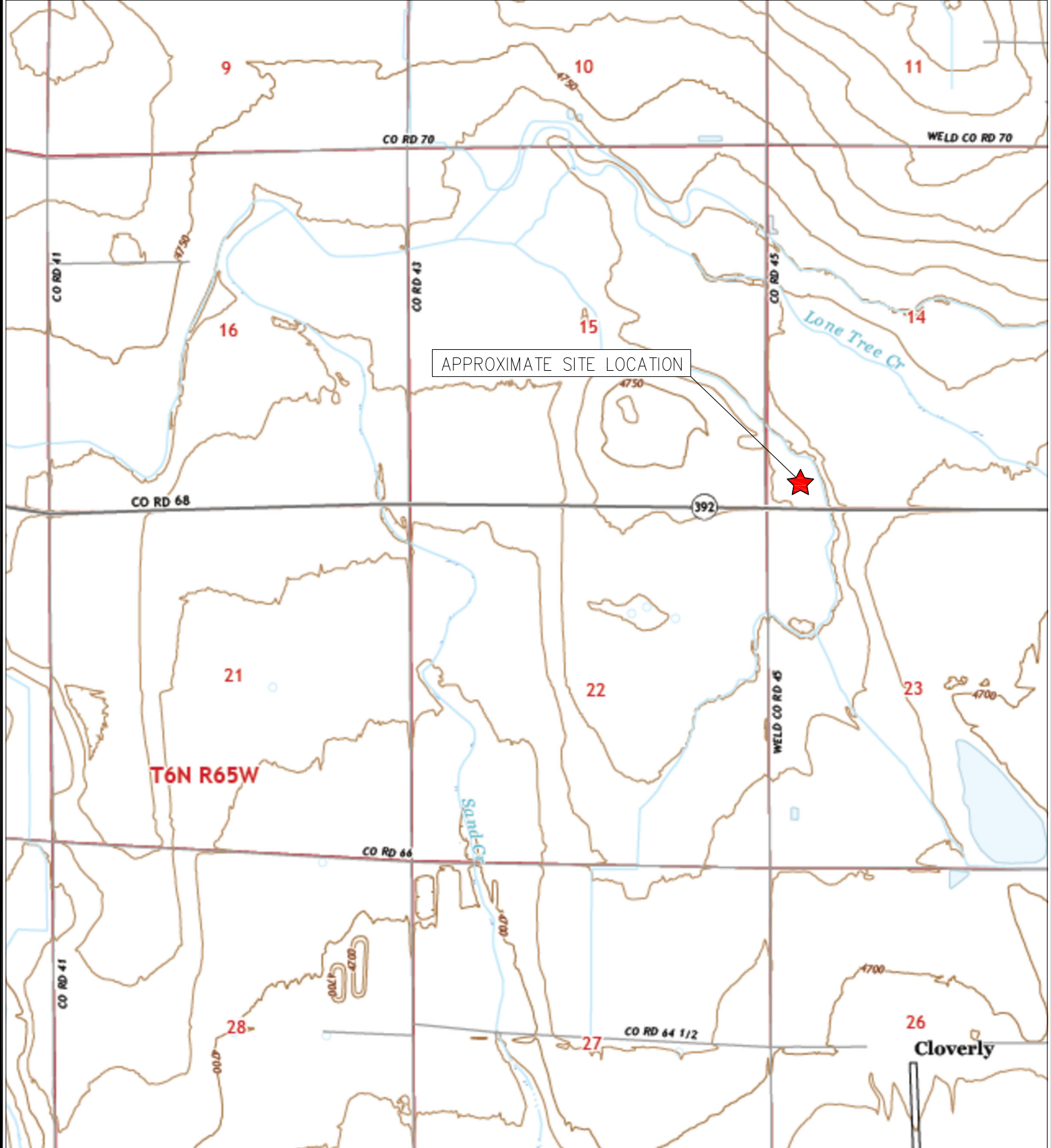
## **FIGURES**

**Figure 1: Topographic Site Location Map**

**Figure 2: Aerial Site Location Map**

**Figure 3: Soil Analytical Map**

**Figure 4: Polycyclic Aromatic Hydrocarbons Analytical Map**



APPROXIMATE SITE LOCATION

T6N R65W

Cloverly

TOPOGRAPHIC SITE LOCATION MAP  
 SENECA E #15-72-1HN  
 CLOSURE ASSESSMENT  
 40.479745 / -104.638188  
 SW¼ SW¼ SEC.14 T6N R65W 6PM  
 WELD COUNTY, COLORADO  
 API # 05-123-38864  
 REMEDIATION # 26967



**EAGLE**  
 ENVIRONMENTAL  
 CONSULTING, LLC

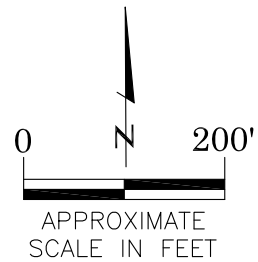
8000 W 44th Ave, Wheat Ridge, CO 80033  
 Ph: 303-433-0479 • F: 303-325-5449





**LEGEND**

- FORMER SENECA E #15-72-1HN WELLHEAD (PLUGGED AND ABANDONED)
- ASSOCIATED SEPARATOR
- APPROXIMATE FLOWLINE LOCATION (ABANDONED IN PLACE)



AERIAL SITE LOCATION MAP  
 SENECA E #15-72-1HN  
 CLOSURE ASSESSMENT  
 40.479745 / -104.638188  
 SW¼ SW¼ SEC.14 T6N R65W 6PM  
 WELD COUNTY, COLORADO  
 API # 05-123-38864  
 REMEDIATION # 26967

FIGURE NO.  
2

DRAWN BY:  
CT



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

**LEGEND**

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

**PARAMETERS**

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

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

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

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

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

COGCC = COLORADO OIL AND GAS CONSERVATION COMMISSION

SOIL ANALYTICAL MAP  
 SENECA E #15-72-1HN  
 CLOSURE ASSESSMENT  
 40.479745 / -104.638188  
 SW¼ SW¼ SEC.14 T6N R65W 6PM  
 WELD COUNTY, COLORADO  
 API # 05-123-38864  
 REMEDIATION # 26967

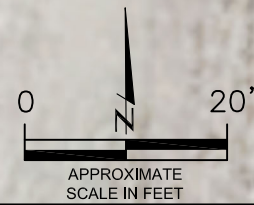
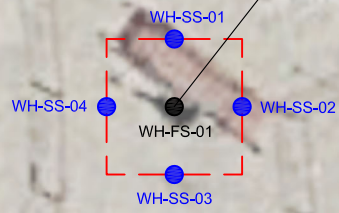
FIGURE NO.  
3

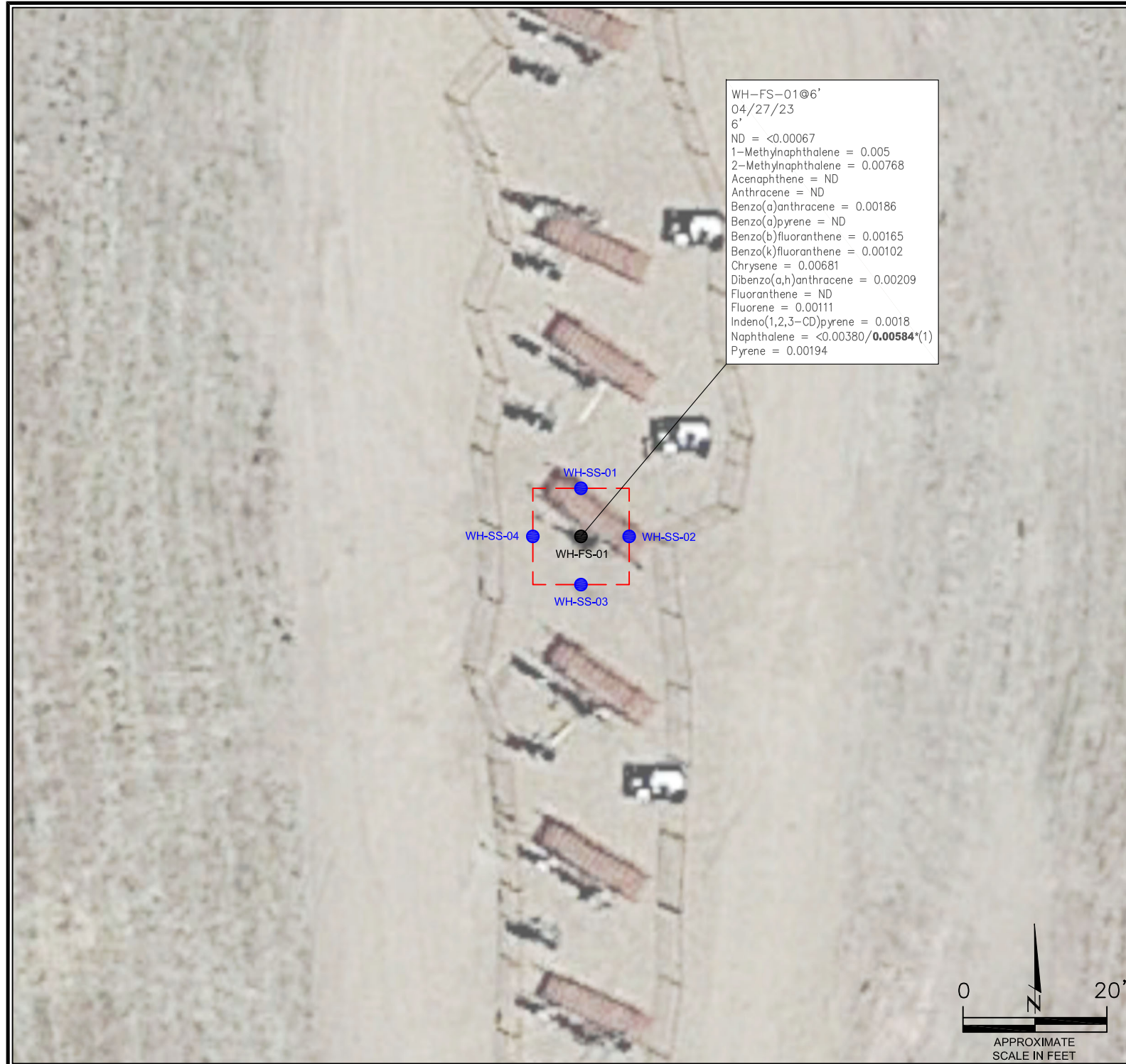
DRAWN BY:  
CT



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

WH-FS-01@6'  
 04/27/23  
 6'  
 B = <0.00200  
 T = <0.00200  
 E = <0.00200  
 X = <0.00200  
 G = <0.200  
 D = <25.0  
 R = <100  
 1,2,4-TMB = <0.00200  
 1,3,5-TMB = <0.00200  
 Brn= 0.303  
 EC = 1.07  
 SAR= **11.5**  
 pH = **9.23**





WH-FS-01@6'  
 04/27/23  
 6'  
 ND = <0.00067  
 1-Methylnaphthalene = 0.005  
 2-Methylnaphthalene = 0.00768  
 Acenaphthene = ND  
 Anthracene = ND  
 Benzo(a)anthracene = 0.00186  
 Benzo(a)pyrene = ND  
 Benzo(b)fluoranthene = 0.00165  
 Benzo(k)fluoranthene = 0.00102  
 Chrysene = 0.00681  
 Dibenzo(a,h)anthracene = 0.00209  
 Fluoranthene = ND  
 Fluorene = 0.00111  
 Indeno(1,2,3-CD)pyrene = 0.0018  
 Naphthalene = <0.00380/**0.00584\*(1)**  
 Pyrene = 0.00194

**LEGEND**

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

**PARAMETERS**

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

mg/kg = MILLIGRAMS PER KILOGRAM

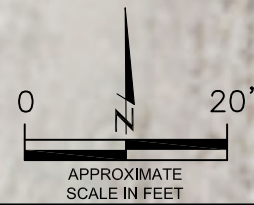
**NOTES:**  
 VALUES PRESENTED WITH A LESS THAN SYMBOL (<) DID NOT CONTAIN CONCENTRATIONS AT OR ABOVE LABORATORY DETECTION LIMITS.

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

VALUES PRESENTED WITH AN ASTERISK (\*) EXCEED COGCC TABLE 915-1 GROUNDWATER SOIL SCREENING LEVELS, ONLY.

(1) NAPHTHALENE WAS REPORTED BY EPA METHOD 8260D AND EPA METHOD 8270D SIM. BOTH ANALYTICAL RESULTS ARE DISPLAYED.

COGCC = COLORADO OIL AND GAS CONSERVATION COMMISSION



POLYCYCLIC AROMATIC HYDROCARBONS MAP  
 SENECA E #15-72-1HN  
 CLOSURE ASSESSMENT  
 40.479745 / -104.638188  
 SW¼ SW¼ SEC.14 T6N R65W 6PM  
 WELD COUNTY, COLORADO  
 API # 05-123-38864  
 REMEDIATION # 26967

FIGURE NO.  
 4  
 DRAWN BY:  
 CT

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



## **ATTACHMENT A**

### **Photolog**

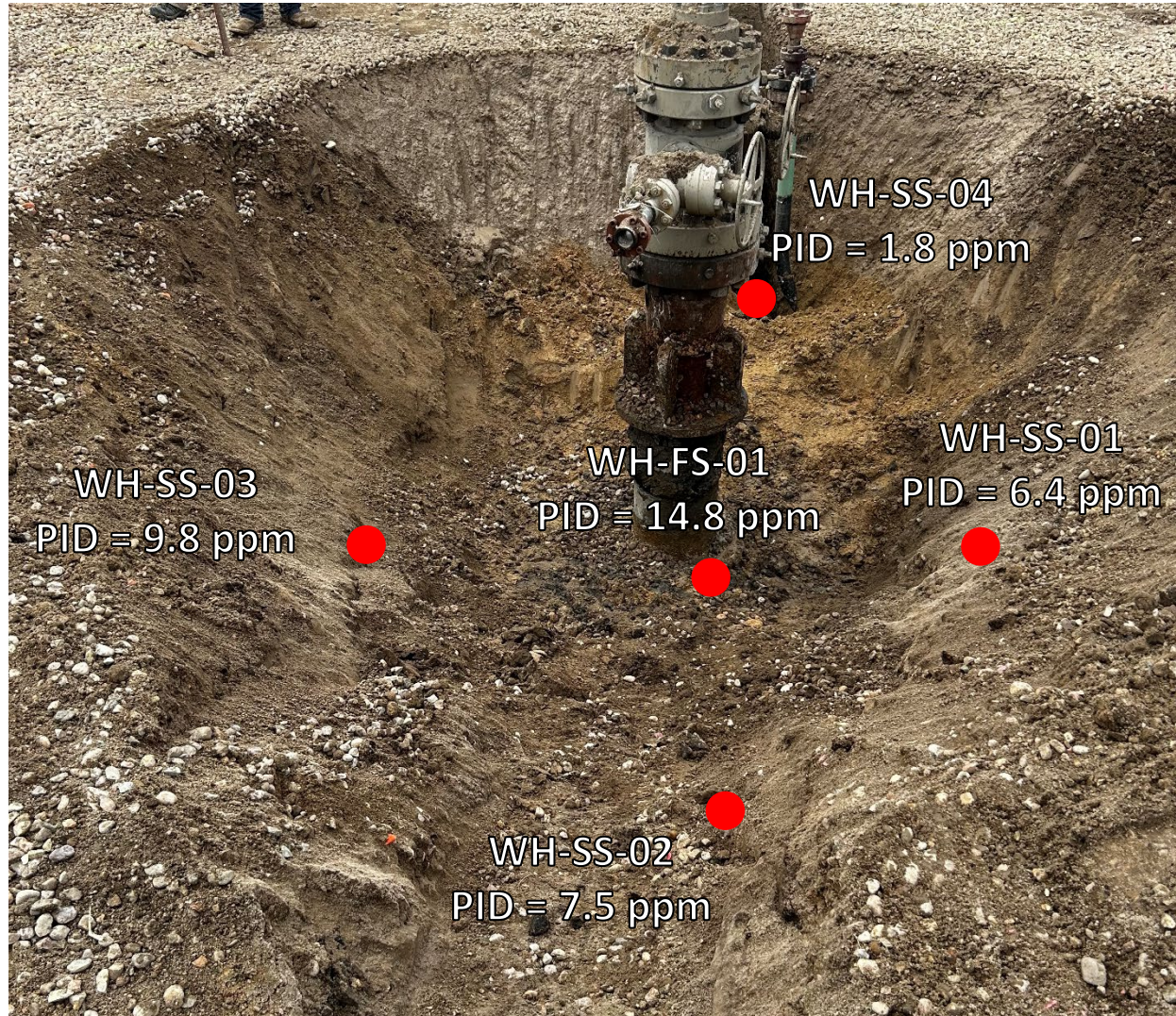
Seneca E #15-72-1HN  
API # 05-123-38864  
Remediation # 26967

Closure Assessment

April 2023



# Wellhead Excavation – 04/27/23



Looking west

Very slight petroleum hydrocarbon odor observed on base of excavation; no staining observed



## **ATTACHMENT B**

### **Laboratory Analytical Report**



May 15, 2023

Eagle Environmental Consulting, LLC

Martin C Eckert III

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - Noble - Seneca E #15-72-1HN

Project Number - [none]

Attached are your analytical results for Noble - Seneca E #15-72-1HN received by Origins Laboratory, Inc. April 27, 2023. This project is associated with Origins project number Y304666-01.

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

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

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

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

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

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



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

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

Martin C Eckert III  
Project Number: [none]  
Project: Noble - Seneca E #15-72-1HN

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
WH-FS-01@6'	Y304666-01	Soil	April 27, 2023 13:58	04/27/2023 16:18

Origins Laboratory, Inc.



Jen Pellegrini For Jordan A. Bynon, Project Manager

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



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

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - Seneca E #15-72-1HN

Origins Laboratory

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

**Sample Receipt Checklist**

Origins Work Order: YB0440000

Client: Eagle Environ

Client Project ID: Seneca E #15-72-1HN

Checklist Completed by: JH / DE

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

Date/time completed: 4/28/23

Airbill #: na

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

Cooler Number/Temperature: 15.0 °c / \_\_\_\_\_ °c / \_\_\_\_\_ °c (Describe) \_\_\_\_\_ °c

Thermometer ID: W03

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
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 <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Was adequate sample volume provided <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Are short holding time analytes or samples with HTs due within 48 hours present <sup>(1)</sup> ?		<input checked="" type="checkbox"/>		
Is a chain-of-custody (COC) present and filled out completely <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Does the COC agree with the number and type of sample bottles received <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Do the sample IDs on the bottle labels match the COC <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client with date and time recorded <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
For volatiles in water – is there headspace (> ¼ inch bubble) present? <b>if yes, contact client and note in narrative.</b>			<input checked="" type="checkbox"/>	
Are samples preserved that require preservation and was it checked <sup>(1)</sup> ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)/(pH <2 for samples preserved with HNO3, HCL, H2SO4) / (pH >10 for samples preserved with NaAsO2+NaOH, ZnAc+NaOH)			<input checked="" type="checkbox"/>	
Additional Comments (if any):				

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

Reviewed by (Project Manager) [Signature]

Date/Time Reviewed 5/1/23

Origins Laboratory, Inc.

Jefe Pellegrini

Jen Pellegrini For Jordan A. Bynon, Project Manager

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

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

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - Seneca E #15-72-1HN

**WH-FS-01@6'**  
**4/27/2023 1:58:00PM**

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

**Origins Laboratory, Inc.**  
**Y304666-01 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	0.303		0.100	mg/L	1	B3E0206	05/02/2023	05/03/2023	
-------	-------	--	-------	------	---	---------	------------	------------	--

**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND		25.0	mg/kg	1	B3D2840	04/28/2023	05/01/2023	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	88.3 %		50-150			"	"	"	
------------------------	--------	--	--------	--	--	---	---	---	--

**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B3D2826	04/28/2023	04/30/2023	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Naphthalene	ND		0.00380	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U

Origins Laboratory, Inc.



Jen Pellegrini For Jordan A. Bynon, Project Manager

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

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

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - Seneca E #15-72-1HN

**WH-FS-01@6'**  
**4/27/2023 1:58:00PM**

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

**Origins Laboratory, Inc.**  
**Y304666-01 (Soil)**

**GBTEX+TMBs by 8260D**

Surrogate: 1,2-Dichloroethane-d4	111 %		70-130			B3D28 26	04/28/2023	04/30/2023	
Surrogate: Toluene-d8	95.5 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	102 %		70-130			"	"	"	

**Metals by Saturated Paste by EPA 6010**

Calcium	0.791		0.499	meq/L	10	[CALC]	05/01/2023	05/04/2023	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	8.34		0.435	"	"	"	"	"	

**PAH by 8270D SIM**

1-Methylnaphthalene	0.005	0.00109	0.00201	mg/Kg	1	L679650	05/03/2023	05/04/2023	
2-Methylnaphthalene	0.00768	0.00194	0.00201	"	"	"	"	"	
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"	
Anthracene	ND	0.000334	0.00067	"	"	"	"	"	
Benzo(a)anthracene	0.00186	0.000493	0.00067	"	"	"	"	"	
Benzo(a)pyrene	ND	0.000468	0.00067	"	"	"	"	"	
Benzo(b)fluoranthene	0.00165	0.000585	0.00067	"	"	"	"	"	
Benzo(k)fluoranthene	0.00102	0.000437	0.00067	"	"	"	"	"	
Chrysene	0.00681	0.000624	0.00067	"	"	"	"	"	
Dibenz(a,h)anthracene	0.00209	0.000614	0.00067	"	"	"	"	"	
Fluoranthene	ND	0.000394	0.00067	"	"	"	"	"	

Origins Laboratory, Inc.



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

Jen Pellegrini For Jordan A. Bynon, Project Manager

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

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - Seneca E #15-72-1HN

**WH-FS-01@6'**  
**4/27/2023 1:58:00PM**

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

**Waypoint Analytical, LLC.**  
**Y304666-01 (Soil)**

**PAH by 8270D SIM**

Fluorene	0.00111	0.000286	0.00067	mg/Kg	1	L679650	05/03/2023	05/04/2023	
Indeno(1,2,3-cd)pyrene	0.0018	0.000627	0.00067	"	"	"	"	"	
Naphthalene	0.00584	0.00145	0.00201	"	"	"	"	"	
Pyrene	0.00194	0.000643	0.00067	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	55.8 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	43.3 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	52.1 %		29-110			"	"	"	

**pH in Soil by 9045D**

pH	9.23			pH Units	1	B3E0116	05/01/2023	05/02/2023	
----	------	--	--	----------	---	---------	------------	------------	--

**SAR by 20B Saturated Paste**

SAR	11.5			SAR	1	B3E0108	05/01/2023	05/04/2023	
-----	------	--	--	-----	---	---------	------------	------------	--

**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	1.07		0.00500	mmhos/cm	1	B3E0116	05/01/2023	05/02/2023	
---------------------------	------	--	---------	----------	---	---------	------------	------------	--

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.

Jen Pellegrini For Jordan A. Bynon, Project Manager

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

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - Seneca E #15-72-1HN

**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 B3D2826 - EPA 5030 (soil)**

**Blank (B3D2826-BLK1)**

Prepared: 04/28/2023 Analyzed: 04/29/2023

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							U
1,3,5-Trimethylbenzene	ND	0.00200	"							U
Benzene	ND	0.00200	"							U
Ethylbenzene	ND	0.00200	"							U
Naphthalene	ND	0.00380	"							U
Toluene	ND	0.00200	"							U
Xylenes, total	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		97.6	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		102	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		94.9	70-130			

Origins Laboratory, Inc.



Jen Pellegrini For Jordan A. Bynon, Project Manager

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

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

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - Seneca E #15-72-1HN

**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 B3D2826 - EPA 5030 (soil)

**LCS (B3D2826-BS1)**

Prepared: 04/28/2023 Analyzed: 04/29/2023

1,2,4-Trimethylbenzene	0.0935	0.00200	mg/kg	0.100		93.5	70-130			
1,3,5-Trimethylbenzene	0.0923	0.00200	"	0.100		92.3	70-130			
Benzene	0.104	0.00200	"	0.100		104	70-130			
Ethylbenzene	0.0966	0.00200	"	0.100		96.6	70-130			
Naphthalene	0.0886	0.00380	"	0.100		88.6	70-130			
Toluene	0.105	0.00200	"	0.100		105	70-130			
o-Xylene	0.0940	0.00200	"	0.100		94.0	70-130			
m,p-Xylene	0.200	0.00400	"	0.200		99.9	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		94.4	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		101	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		105	70-130			

Origins Laboratory, Inc.



Jen Pellegrini For Jordan A. Bynon, Project Manager

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

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

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - Seneca E #15-72-1HN

**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 B3D2826 - EPA 5030 (soil)

Matrix Spike (B3D2826-MS1)	Source: Y304636-02		Prepared: 04/28/2023 Analyzed: 04/29/2023							
1,2,4-Trimethylbenzene	0.587	0.00200	mg/kg	0.100	0.212	375	70-130			QR-02
1,3,5-Trimethylbenzene	0.257	0.00200	"	0.100	0.0546	202	70-130			QR-02
Benzene	0.0817	0.00200	"	0.100	ND	81.7	70-130			
Ethylbenzene	0.126	0.00200	"	0.100	0.00906	117	70-130			
Naphthalene	0.168	0.00380	"	0.100	0.0478	120	70-130			
Toluene	0.0967	0.00200	"	0.100	0.00378	92.9	70-130			
o-Xylene	0.203	0.00200	"	0.100	0.0324	170	70-130			QR-02
m,p-Xylene	0.537	0.00400	"	0.200	0.0735	232	70-130			QR-02
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		115	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		94.2	70-130			
Surrogate: 4-Bromofluorobenzene	0.14		"	0.125		111	70-130			

Origins Laboratory, Inc.



Jen Pellegrini For Jordan A. Bynon, Project Manager

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

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

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - Seneca E #15-72-1HN

**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 B3D2826 - EPA 5030 (soil)

Matrix Spike Dup (B3D2826-MSD1)	Source: Y304636-02		Prepared: 04/28/2023 Analyzed: 04/29/2023							
1,2,4-Trimethylbenzene	0.501	0.00200	mg/kg	0.100	0.212	289	70-130	15.8	20	QR-02
1,3,5-Trimethylbenzene	0.207	0.00200	"	0.100	0.0546	152	70-130	21.6	20	QR-02
Benzene	0.0819	0.00200	"	0.100	ND	81.9	70-130	0.244	20	
Ethylbenzene	0.0948	0.00200	"	0.100	0.00906	85.7	70-130	28.2	20	QR-02
Naphthalene	0.163	0.00380	"	0.100	0.0478	115	70-130	2.97	20	
Toluene	0.0854	0.00200	"	0.100	0.00378	81.6	70-130	12.4	20	
o-Xylene	0.142	0.00200	"	0.100	0.0324	110	70-130	34.9	20	QR-02
m,p-Xylene	0.351	0.00400	"	0.200	0.0735	139	70-130	41.9	20	QR-02
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		112	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		94.9	70-130			
Surrogate: 4-Bromofluorobenzene	0.14		"	0.125		110	70-130			

Origins Laboratory, Inc.



Jen Pellegrini For Jordan A. Bynon, Project Manager

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

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

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - Seneca E #15-72-1HN

**Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B3D2840 - EPA 3550B</b>										
<b>Blank (B3D2840-BLK1)</b>										
					Prepared: 04/28/2023 Analyzed: 05/01/2023					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	23		"	24.9		93.7	50-150			

Origins Laboratory, Inc.



Jen Pellegrini For Jordan A. Bynon, Project Manager

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

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

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - Seneca E #15-72-1HN

**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 B3D2840 - EPA 3550B**

**LCS (B3D2840-BS1)**

Prepared: 04/28/2023 Analyzed: 05/01/2023

Diesel (C10-C28)	843	50.0	mg/kg	1000		84.3	70-130			
Residual Range Organics (C28-C40)	835	200	"	1000		83.5	70-130			
Surrogate: o-Terphenyl	45		"	49.8		90.8	50-150			

Origins Laboratory, Inc.



Jen Pellegrini For Jordan A. Bynon, Project Manager

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

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

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - Seneca E #15-72-1HN

**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 B3D2840 - EPA 3550B**

<b>Matrix Spike (B3D2840-MS1)</b>	<b>Source: Y304638-06</b>			<b>Prepared: 04/28/2023 Analyzed: 05/01/2023</b>						
Diesel (C10-C28)	825	50.0	mg/kg	1000	ND	82.5	70-130			
Residual Range Organics (C28-C40)	844	200	"	1000	52.1	79.2	70-130			
Surrogate: o-Terphenyl	50		"	49.8		101	50-150			

Origins Laboratory, Inc.



Jen Pellegrini For Jordan A. Bynon, Project Manager

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

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

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - Seneca E #15-72-1HN

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B3D2840 - EPA 3550B</b>										
<b>Matrix Spike Dup (B3D2840-MSD1)</b>		<b>Source: Y304638-06</b>			Prepared: 04/28/2023 Analyzed: 05/01/2023					
Diesel (C10-C28)	807	50.0	mg/kg	1000	ND	80.7	70-130	2.27	35	
Residual Range Organics (C28-C40)	835	200	"	1000	52.1	78.3	70-130	1.07	35	
Surrogate: o-Terphenyl	43		"	49.8		86.1	50-150			

Origins Laboratory, Inc.



Jen Pellegrini For Jordan A. Bynon, Project Manager

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

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

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - Seneca E #15-72-1HN

**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
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

**Classical Chemistry Parameters - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

**Batch B3E0108 - Saturated Paste Metals**

**Blank (B3E0108-BLK1)**

Prepared: 05/01/2023 Analyzed: 05/04/2023

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

**Duplicate (B3E0108-DUP1)**

Source: Y304666-01

Prepared: 05/01/2023 Analyzed: 05/04/2023

SAR	0.00		SAR		11.5			200	200	U
Calcium PPM	15.6	10.0	mg/L		15.9			1.97	50	
Magnesium PPM	2.56	10.0	"		3.08			18.4	50	U
Sodium PPM	174	10.0	"		192			9.40	50	

**Batch B3E0206 - DTPA Sorbitol Preparation**

**Blank (B3E0206-BLK1)**

Prepared: 05/02/2023 Analyzed: 05/03/2023

Boron	ND	0.100	mg/L							U
-------	----	-------	------	--	--	--	--	--	--	---

**Duplicate (B3E0206-DUP1)**

Source: Y304640-01

Prepared: 05/02/2023 Analyzed: 05/03/2023

Boron	ND	0.998	mg/L		ND				50	U
-------	----	-------	------	--	----	--	--	--	----	---

Origins Laboratory, Inc.



Jen Pellegrini For Jordan A. Bynon, Project Manager

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

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

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - Seneca E #15-72-1HN

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B3E0116 - Saturated Paste pH/EC</b>										
<b>Blank (B3E0116-BLK1)</b>					Prepared: 05/01/2023 Analyzed: 05/02/2023					
Specific Conductance (EC)	ND	0.00500	mmhos/cm							U
<b>Duplicate (B3E0116-DUP1)</b>					<b>Source: Y304666-01</b> Prepared: 05/01/2023 Analyzed: 05/02/2023					
pH	9.56		pH Units		9.23			3.51	25	
Specific Conductance (EC)	1.20	0.00500	mmhos/cm		1.07			11.1	25	

Origins Laboratory, Inc.



Jen Pellegrini For Jordan A. Bynon, Project Manager

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

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

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - Seneca E #15-72-1HN

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

**Batch L679650 - 3550B**

<b>MSD (L 85889-MSD-L679650)</b>		<b>Source: 85889</b>			Prepared: 05/03/2023 Analyzed: 05/04/2023					
2-Methylnaphthalene	0.112	0.00201	mg/Kg	0.166	<0.00194	67.4	30-130	20.1	30	
Fluorene	0.125	0.00067	"	0.166	<0.000286	75.3	30-130	20.2	30	
Pyrene	0.118	0.00067	"	0.166	<0.000643	71	30-130	19.8	30	
Indeno(1,2,3-cd)pyrene	0.139	0.00067	"	0.166	<0.000627	83.7	30-130	21.5	30	
Fluoranthene	0.123	0.00067	"	0.166	<0.000394	74	30-130	17.6	30	
Dibenz(a,h)anthracene	0.163	0.00067	"	0.166	0.000891	97.6	30-130	21	30	
Chrysene	0.131	0.00067	"	0.166	0.00125	78.1	30-130	23.9	30	
Naphthalene	0.103	0.00201	"	0.166	<0.00145	62	30-130	20.2	30	
1-Methylnaphthalene	0.117	0.00201	"	0.166	<0.00109	70.4	30-130	18.8	30	
Benzo(k)fluoranthene	0.0694	0.00067	"	0.166	<0.000437	41.8	30-130	22	30	
Acenaphthene	0.122	0.00067	"	0.166	<0.000304	73.4	30-130	18.8	30	
Anthracene	0.127	0.00067	"	0.166	<0.000334	76.5	30-130	19.9	30	
Benzo(a)anthracene	0.125	0.00067	"	0.166	<0.000493	75.3	30-130	10.9	30	
Benzo(a)pyrene	0.126	0.00067	"	0.166	<0.000468	75.9	30-130	15.3	30	
Benzo(b)fluoranthene	0.0761	0.00067	"	0.166	<0.000585	45.8	30-130	21.7	30	
Surrogate: 2-Fluorobiphenyl	65.3		"	0.332	189	65.3	33-115			
Surrogate: Nitrobenzene-d5	60.8		"	0.332	171	60.8	29-110			
Surrogate: 4-Terphenyl-d14	65		"	0.332	196	65	33-122			

<b>MS (L 85889-MS-L679650)</b>		<b>Source: 85889</b>			Prepared: 05/03/2023 Analyzed: 05/04/2023					
Benzo(k)fluoranthene	0.0556	0.00067	mg/Kg	0.166	<0.000437	33.4	30-130			
Acenaphthene	0.101	0.00067	"	0.166	<0.000304	60.8	30-130			
Naphthalene	0.0841	0.00201	"	0.166	<0.00145	50.6	30-130			
Indeno(1,2,3-cd)pyrene	0.112	0.00067	"	0.166	<0.000627	67.4	30-130			
Fluorene	0.102	0.00067	"	0.166	<0.000286	61.4	30-130			
Fluoranthene	0.103	0.00067	"	0.166	<0.000394	62	30-130			
Dibenz(a,h)anthracene	0.132	0.00067	"	0.166	0.000891	78.9	30-130			

Origins Laboratory, Inc.



Jen Pellegrini For Jordan A. Bynon, Project Manager

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

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

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - Seneca E #15-72-1HN

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

**Batch L679650 - 3550B**

<b>MS (L 85889-MS-L679650)</b>		<b>Source: 85889</b>			Prepared: 05/03/2023 Analyzed: 05/04/2023					
Chrysene	0.103	0.00067	mg/Kg	0.166	0.00125	61.2	30-130			
1-Methylnaphthalene	0.0968	0.00201	"	0.166	<0.00109	58.3	30-130			
Benzo(a)pyrene	0.108	0.00067	"	0.166	<0.000468	65	30-130			
Anthracene	0.104	0.00067	"	0.166	<0.000334	62.6	30-130			
Pyrene	0.0967	0.00067	"	0.166	<0.000643	58.2	30-130			
2-Methylnaphthalene	0.0915	0.00201	"	0.166	<0.00194	55.1	30-130			
Benzo(b)fluoranthene	0.0612	0.00067	"	0.166	<0.000585	36.8	30-130			
Benzo(a)anthracene	0.112	0.00067	"	0.166	<0.000493	67.4	30-130			
Surrogate: Nitrobenzene-d5	52.5		"	0.331	171	52.5	29-110			
Surrogate: 4-Terphenyl-d14	54		"	0.331	196	54	33-122			
Surrogate: 2-Fluorobiphenyl	54.6		"	0.331	189	54.6	33-115			

<b>LCS (LCS-L679650)</b>		Prepared: 05/03/2023 Analyzed: 05/04/2023								
Chrysene	0.128	0.00067	mg/Kg	0.167		76.6	30-130			
Dibenz(a,h)anthracene	0.136	0.00067	"	0.167		81.4	30-130			
Fluoranthene	0.128	0.00067	"	0.167		76.6	30-130			
Fluorene	0.127	0.00067	"	0.167		76	30-130			
Indeno(1,2,3-cd)pyrene	0.114	0.00067	"	0.167		68.2	30-130			
Naphthalene	0.101	0.00201	"	0.167		60.4	30-130			
Benzo(k)fluoranthene	0.12	0.00067	"	0.167		71.8	30-130			
Pyrene	0.127	0.00067	"	0.167		76	30-130			
Benzo(a)pyrene	0.131	0.00067	"	0.167		78.4	30-130			
Benzo(a)anthracene	0.126	0.00067	"	0.167		75.4	30-130			
Anthracene	0.132	0.00067	"	0.167		79	30-130			
Acenaphthene	0.12	0.00067	"	0.167		71.8	30-130			
2-Methylnaphthalene	0.105	0.00201	"	0.167		62.8	30-130			
1-Methylnaphthalene	0.113	0.00201	"	0.167		67.6	30-130			

Origins Laboratory, Inc.



Jen Pellegrini For Jordan A. Bynon, Project Manager

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

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

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - Seneca E #15-72-1HN

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

**Batch L679650 - 3550B**

**LCS (LCS-L679650)**

Prepared: 05/03/2023 Analyzed: 05/04/2023

Benzo(b)fluoranthene	0.082	0.00067	mg/Kg	0.167		49.1	30-130			
Surrogate: Nitrobenzene-d5	61.5		"	0.333		61.5	29-110			
Surrogate: 4-Terphenyl-d14	74.7		"	0.333		74.7	33-122			
Surrogate: 2-Fluorobiphenyl	66.3		"	0.333		66.3	33-115			

**LRB (LRB-L679650)**

Prepared: 05/03/2023 Analyzed: 05/04/2023

Chrysene	ND	0.00067	mg/Kg				-			
Dibenz(a,h)anthracene	ND	0.00067	"				-			
Fluoranthene	ND	0.00067	"				-			
Fluorene	ND	0.00067	"				-			
Benzo(k)fluoranthene	ND	0.00067	"				-			
Naphthalene	ND	0.00201	"				-			
Indeno(1,2,3-cd)pyrene	ND	0.00067	"				-			
Benzo(b)fluoranthene	ND	0.00067	"				-			
Benzo(a)pyrene	ND	0.00067	"				-			
Benzo(a)anthracene	ND	0.00067	"				-			
Acenaphthene	ND	0.00067	"				-			
2-Methylnaphthalene	ND	0.00201	"				-			
1-Methylnaphthalene	ND	0.00201	"				-			
Pyrene	ND	0.00067	"				-			
Anthracene	ND	0.00067	"				-			
Surrogate: Nitrobenzene-d5	54		"	0.333		54	29-110			
Surrogate: 4-Terphenyl-d14	60.6		"	0.333		60.6	33-122			
Surrogate: 2-Fluorobiphenyl	57.6		"	0.333		57.6	33-115			

Origins Laboratory, Inc.



Jen Pellegrini For Jordan A. Bynon, Project Manager

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

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

Martin C Eckert III  
Project Number: [none]  
Project: Noble - Seneca E #15-72-1HN

### Notes and Definitions

U Sample is Non-Detect.

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

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.



Jen Pellegrini For Jordan A. Bynon, Project Manager

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