

# Wellhead Closure Checklist

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

Additional attachments (optional):		Pit Closure		Tank Battery Closure		Flowline Closure		Partially Buried Vault Closure	
Site Name & COGCC Facility Number:		Date:						Remediation Project #:	
Associated Wells:		Age of Site:						Number of Photos Attached:	
Location: (GPS coordinates of wellhead or southeastern most wellhead for multiple)							Estimated Facility Size (acres):		
General Condition of Site: (General observations regarding housekeeping, corrosion, waste management, etc.)									
USCS Soil Type:				Estimated Depth to Groundwater:					
Hydrocarbon Impacted Soils / Spills: (Note estimated size and if impact appears to be surficial or extends to an unknown depth)									
Salt Crusted Soils or Impacted Vegetation: (Note estimated size and if impact appears to be surficial or extends to an unknown depth)									
Wellhead(s)									
Well API									
Age									
Condition of surface around wellhead									
PID Readings									
Condition of subsurface (staining present)									
PID Readings									
Sample taken?									
Location/Sample ID#									
Photo Number(s)									
Other observations regarding wellheads:									
Summary									
Was impacted soil identified? <div style="display: flex; justify-content: space-around;"> <span>No</span> <span>Yes - less than 10 cubic yards</span> <span>Yes - more than 10 cubic yards</span> </div>									
Total number of samples field screened:				Total number of samples collected:					
Highest PID Reading:				Total number of samples submitted to lab for analysis:					
If more than 10 cubic yards of impacted soil were observed:									
Vertical extent:				Estimated spill volume:					
Lateral extent:				Volume of soil removed:					
Is additional investigation required?									
Was groundwater encountered during the investigation? <div style="display: flex; justify-content: space-around;"> <span>No</span> <span>Yes - not impacted or in contact with impacted soils</span> <span>Yes - groundwater impacted and/or in contact with impacted soils</span> </div>									
Measured depth to groundwater:				Was remedial groundwater removal conducted?    Yes    No					
Date Groundwater was encountered:				Commencement date of removal:					
Sheen on groundwater?                      Yes              No				Volume of groundwater removed prior to sampling:					
Free product observed?                      Yes              No				Volume of groundwater removed post sampling:					
Total number of samples collected:				Total Volume of groundwater removed:					
Total number of samples submitted to lab for analysis:									



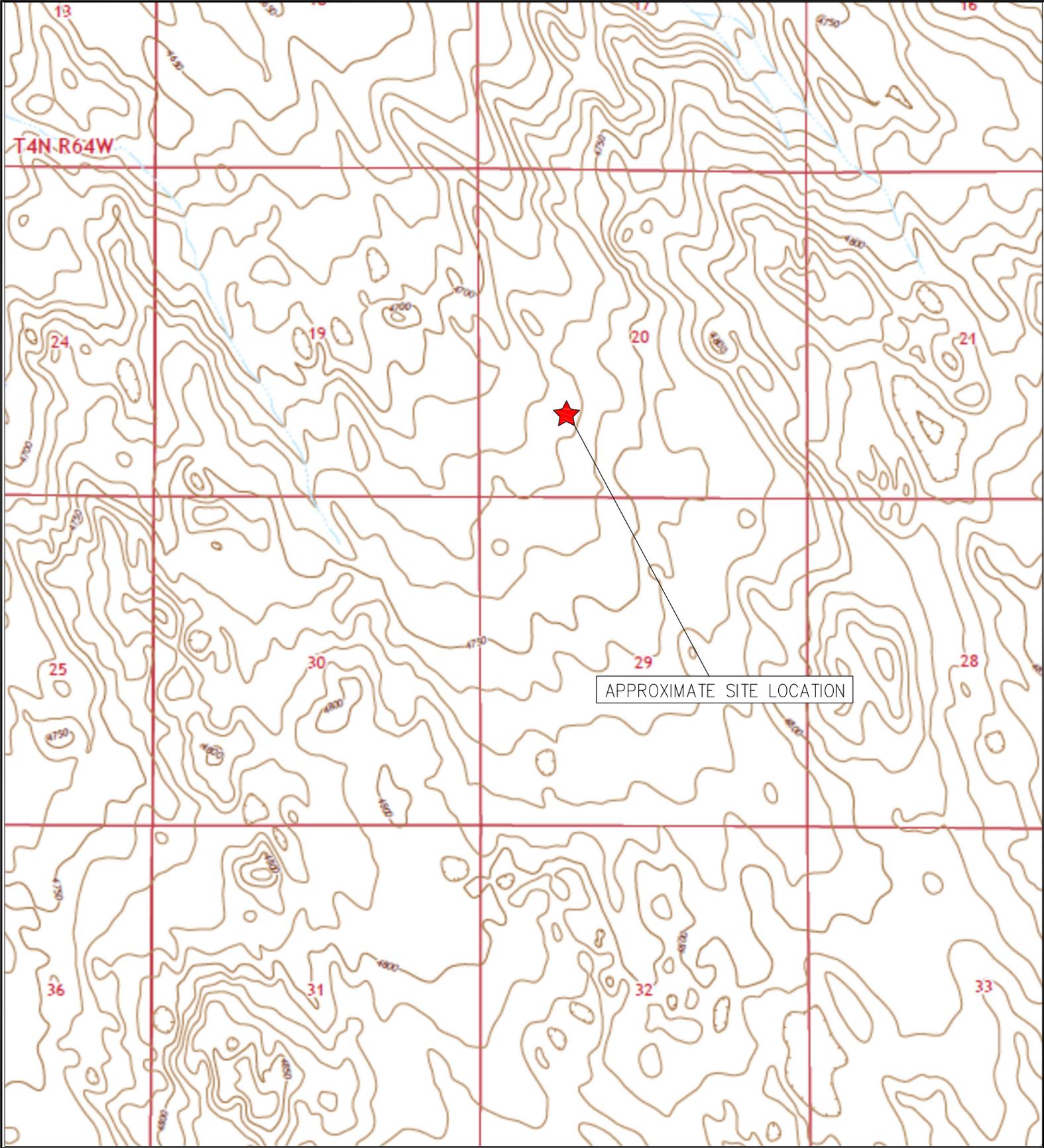
## **FIGURES**

**Figure 1: Topographic Site Location Map**

**Figure 2: Aerial Site Location Map**

**Figure 3: Soil Analytical Map**

**Figure 4: Metals in Soil Map**



TOPOGRAPHIC SITE LOCATION MAP  
 GUTTERSEN STATE CC #20-12  
 CLOSURE ASSESSMENT  
 40.296050 / -104.469090  
 NW¼ SW¼ SEC.20 T4N R63W 6PM  
 WELD COUNTY, COLORADO  
 API # 05-123-22283  
 REMEDIATION # 31548



**EAGLE**  
 ENVIRONMENTAL  
 CONSULTING, LLC

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

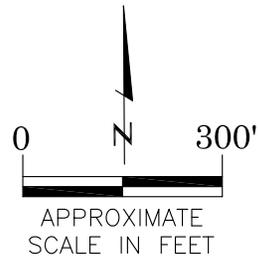
SOURCE: USGS 7.5 MINUTE TOPOGRAPHIC MAP,  
 HARDIN, CO QUADRANGLE 2022

FIGURE NO. 1



**LEGEND**

- FORMER GUTTERSEN STATE CC #20-12 WELLHEAD (PLUGGED AND ABANDONED)
- ASSOCIATED SEPARATOR
- APPROXIMATE FLOWLINE LOCATION



AERIAL SITE LOCATION MAP  
 GUTTERSEN STATE CC #20-12  
 CLOSURE ASSESSMENT  
 40.296050 / -104.469090  
 NW¼ SW¼ SEC.20 T4N R63W 6PM  
 WELD COUNTY, COLORADO  
 API # 05-123-22283  
 REMEDIATION # 31548

FIGURE NO.  
2

DRAWN BY:  
BB



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**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)
N	= NAPHTHALENE (mg/kg)
G	= TPH-GRO (mg/kg)
D	= TPH-DRO (mg/kg)
R	= TPH-RRO (mg/kg)
1,2,4-TMB	= 1,2,4 TRIMETHYLBENZENE (mg/kg)
1,3,5-TMB	= 1,3,5 TRIMETHYLBENZENE (mg/kg)
Brn	= BORON (mg/L)
EC	= SPECIFIC CONDUCTANCE (mmhos/cm)
SAR	= SODIUM ADSORPTION RATIO
pH	= pH (pH UNITS)
POLYCYCLIC AROMATIC HYDROCARBONS (PAHs) (mg/kg)	

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

(BRL) = ALL VALUES BELOW REGULATORY LIMITS

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

NOTES:  
 VALUES PRESENTED IN **BOLD** EXCEED ECMC TABLE 915-1 REGULATORY LIMITS.

ECMC = ENERGY & CARBON MANAGEMENT COMMISSION

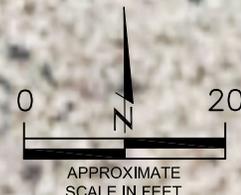
SOIL ANALYTICAL MAP  
 GUTTERSEN STATE CC #20-12  
 CLOSURE ASSESSMENT  
 40.296050 / -104.469090  
 NW¼ SW¼ SEC.20 T4N R63W 6PM  
 WELD COUNTY, COLORADO  
 API # 05-123-22283  
 REMEDIATION # 31548

FIGURE NO.  
4

DRAWN BY:  
BB



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WH-FS-01@6'  
10/03/23  
6'

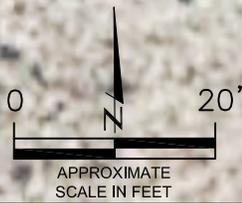
Arsenic = 0.735  
Barium = 67  
Cadmium = 0.0858  
Chromium (VI) = <0.244\*\*  
Copper = 3.27  
Lead = 7.55  
Nickel = 3.11  
Selenium = 0.299\*  
Silver = 0.0158  
Zinc = 17.4

BACKGROUND-01@3'  
10/03/23  
3'

Arsenic = 1.50  
Barium = NA  
Cadmium = NA  
Chromium (VI) = NA  
Copper = NA  
Lead = NA  
Nickel = NA  
Selenium = 0.325\*  
Silver = NA  
Zinc = NA

WH-SS-01  
WH-SS-02  
WH-SS-03  
WH-SS-04  
WH-FS-01

BACKGROUND-01



**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  
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

NA = NOT ANALYZED

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 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  
GUTTERSEN STATE CC #20-12  
CLOSURE ASSESSMENT  
40.296050 / -104.469090  
NW¼ SW¼ SEC.20 T4N R63W 6PM  
WELD COUNTY, COLORADO  
API # 05-123-22283  
REMIEDIATION # 31548

FIGURE NO.  
4

DRAWN BY:  
BB

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## **TABLES**

**Table 1: Photoionization Detector Reading Summary**

**Table 2: Soil Analytical Results Summary**

**TABLE 1**  
**PHOTOIONIZATION DETECTOR READING SUMMARY**  
**GUTTERSEN STATE CC #20-12**  
**CLOSURE ASSESSMENT**  
**40.296050 / -104.469090**  
**NW¼ SW¼ SEC.20 T4N R63W 6PM**  
**WELD COUNTY, COLORADO**  
**API # 05-123-22283**  
**REMEDIAION # 31548**

Sample Location (Latitude/Longitude)	Date	Approximate Depth (feet)	PID Reading (ppm-v)	Lab Submission (Y/N)
WH-FS-01 @ 6' (40.296051 / -104.469105)	10/03/23	6	5.2	Y
WH-SS-01 @ 5' (40.296068 / -104.469102)	10/03/23	5	3.7	N
WH-SS-02 @ 5' (40.296044 / -104.469091)	10/03/23	5	4.0	N
WH-SS-03 @ 5' (40.296036 / -104.469114)	10/03/23	5	2.4	N
WH-SS-04 @ 5' (40.296054 / -104.469130)	10/03/23	5	2.9	N
Background-01 @ 3' (40.296019 / -104.469041)	10/03/23	3	1.0	Y
(Y/N) = Yes or No ppm-v = parts per million by volume PID = Photoionization Detector				

TABLE 2  
SOIL ANALYTICAL RESULTS SUMMARY  
GUTTERSEN STATE CC #20-12  
CLOSURE ASSESSMENT  
40.296050 / -104.469090  
NW¼ SW¼ SEC.20 T4N R63W 6PM  
WELD COUNTY, COLORADO  
API # 05-123-22283  
REMEDIATION # 31548

Sample Location		WH-FS-01 @ 6'		Background-01 @ 3'		
(Latitude / Longitude)		(40.296051 / -104.469105)		(40.296019 / -104.469041)		
Sample Date		10/3/2023		10/3/2023		
Sample Depth		6		3		
PID Reading (ppm-v)		5.2		1.0		
Regulatory Limits						
Chemical of Concern	Units	ECMC Table 915-1 RSSLs	ECMC Table 915-1 GSSLs	Local Clean-Up Level		
<b>VOLATILE ORGANIC COMPOUNDS</b>						
Benzene	mg/kg	1.2	0.0026	--	<0.00200	NA
Toluene	mg/kg	490	0.69	--	<0.00200	NA
Ethylbenzene	mg/kg	5.8	0.78	--	<0.00200	NA
Total Xylenes	mg/kg	58	9.9	--	<0.00200	NA
Naphthalene	mg/kg	2	0.0038	--	<0.00380	NA
1,2,4-Trimethylbenzene	mg/kg	30	0.0081	--	<0.00200	NA
1,3,5-Trimethylbenzene	mg/kg	27	0.0087	--	<0.00200	NA
<b>TOTAL PETROLEUM HYDROCARBONS</b>						
TPH-GRO	mg/kg	500	--	--	<0.200	NA
TPH-DRO	mg/kg	500	--	--	<25.0	NA
TPH-RRO	mg/kg	500	--	--	<100	NA
<b>POLYCYCLIC AROMATIC HYDROCARBONS</b>						
1-Methyl-naphthalene	mg/kg	18	0.006	--	<0.002	NA
2-Methyl-naphthalene	mg/kg	24	0.019	--	<0.002	NA
Acenaphthene	mg/kg	360	0.55	--	<0.020	NA
Anthracene	mg/kg	1800	5.8	--	<0.020	NA
Benzo(a)-anthracene	mg/kg	1.1	0.011	--	<0.005	NA
Benzo(a)-pyrene	mg/kg	0.11	0.24	--	<0.020	NA
Benzo(b)-fluoranthene	mg/kg	1.1	0.3	--	<0.020	NA
Benzo(k)-fluoranthene	mg/kg	11	2.9	--	<0.020	NA
Chrysene	mg/kg	110	9	--	<0.020	NA
Dibenzo(a,h)-anthracene	mg/kg	0.11	0.096	--	<0.020	NA
Fluoranthene	mg/kg	240	8.9	--	<0.020	NA
Fluorene	mg/kg	240	0.54	--	<0.020	NA
Indeno(1,2,3-cd)-pyrene	mg/kg	1.1	0.98	--	<0.020	NA
Pyrene	mg/kg	180	1.3	--	<0.020	NA
<b>SOIL SUITABILITY (Inorganics)</b>						
Boron	mg/L	2	--	--	<0.0990	NA
pH	standard unit	6-8.3	--	--	8.29	NA
Sodium Adsorption Ratio (SAR)	--	<6	--	--	0.130	NA
Specific Conductance (EC)	mmhos/cm	<4	--	--	0.230	NA
<b>METALS</b>						
Arsenic	mg/kg	0.68	0.29	1.88	0.735	1.50
Barium	mg/kg	15000	82	--	67	NA
Cadmium	mg/kg	71	0.38	--	0.0858	NA
Copper	mg/kg	3100	46	--	3.27	NA
Lead	mg/kg	400	14	--	7.55	NA
Nickel	mg/kg	1500	26	--	3.11	NA
Selenium	mg/kg	390	0.26	0.406	0.299*	0.325*
Silver	mg/kg	390	0.8	--	0.0158	NA
Zinc	mg/kg	23000	370	--	17.4	NA
Hexavalent Chromium	mg/kg	0.3**	0.00067**	0.1 to 1.0**	<0.244**	NA
ECMC = Energy & Carbon Management Commission mg/kg = milligrams per kilogram mmhos/cm = millimhos per centimeter PID = Photoionization Detector ppm-v = parts per million by volume mg/L = milligrams per liter NA - Not Analyzed RSSLs = Residential Soil Screening Levels GSSLs = Protection of Groundwater Soil Screening Levels TPH-GRO = Total Petroleum Hydrocarbons - Gasoline Range Organics TPH-DRO = Total Petroleum Hydrocarbons - Diesel Range Organics TPH-RRO = Total Petroleum Hydrocarbons - Residual Range Organics						
Notes: Values presented with a less than symbol (<) did not contain concentrations at or above the laboratory reporting limit and/or minimum detection limit. Elevated metals are naturally occurring in Colorado. Local Clean-up Levels are 1.25*Background concentrations where applicable. Values presented in <b>BOLD</b> exceed ECMC Table 915-1 Regulatory Limits and applicable Local Clean-up Levels. Values presented with asterisk (*) exceed ECMC Table 915-1 GSSLs, only. **Achievable practical quantitative limits for Hexavalent Chromium in soils is in the range of 0.1 to 1 mg/kg.						



## **ATTACHMENT A**

### **Photo Log**

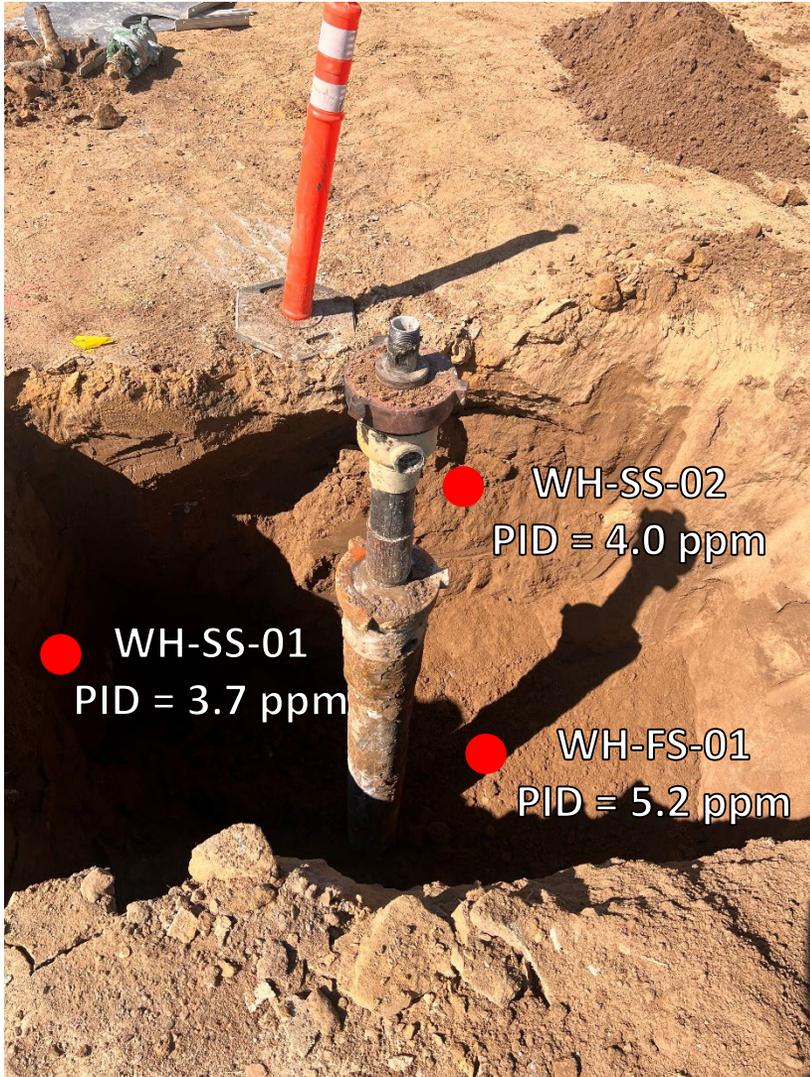
Guttersen State CC #20-12  
API # 05-123-22283  
Remediation # 31548

Closure Assessment

October 2023

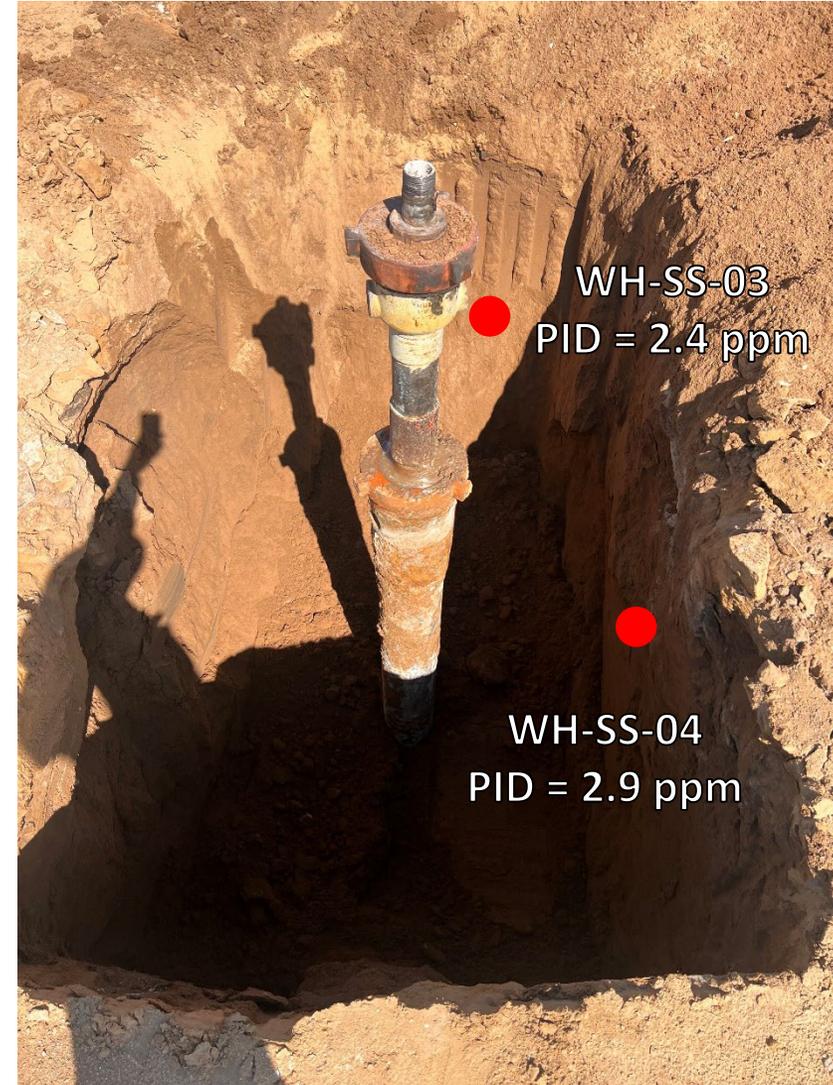


# Wellhead Excavation – 10/03/23



Looking East

No petroleum hydrocarbon staining or odor observed



Looking South

No petroleum hydrocarbon staining or odor observed



## **ATTACHMENT B**

### **Laboratory Analytical Report**



October 24, 2023

Eagle Environmental Consulting, LLC

Martin C Eckert III

8000 W 44th Ave

Wheat Ridge CO 80033

**Project Name - Noble - Guttersen State CC #20-12 Project Number - [none]**

Attached are your analytical results for Noble - Guttersen State CC #20-12 received by Origins Laboratory, Inc. October 03, 2023. This project is associated with Origins project number Y310102-01.

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 - Gutterson State CC #20-12

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
WH-FS-01@6'	Y310102-01	Soil	October 3, 2023 11:52	10/03/2023 16:15

Origins Laboratory, Inc.



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



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

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - Gutteresen State CC #20-12

Origins Laboratory

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

**Sample Receipt Checklist**

Origins Work Order: 4310102

Client: Eagle

Client Project ID: Gutteresen State CC #20-12

Checklist Completed by: EHS

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

Date/time completed: 10/4/23

Airbill #: N/A

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

Cooler Number/Temperature: 1/4 °C / \_\_\_\_\_ °C / \_\_\_\_\_ °C / \_\_\_\_\_ °C (Describe)

Thermometer ID: T004

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
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 analytes in order to insure sample integrity)/(pH <2 for samples preserved with HNO <sub>3</sub> , HCL, H <sub>2</sub> SO <sub>4</sub> ) / (pH >10 for samples preserved with NaAsO <sub>2</sub> +NaOH, ZnAc+NaOH)			<input 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 10/5/23

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

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - Gutterson State CC #20-12

**WH-FS-01@6'**

**10/3/2023 11:52:00AM**

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

**Origins Laboratory, Inc.**  
**Y310102-01 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	ND		0.0990	mg/L	1	B3J0916	10/09/2023	10/11/2023	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND		25.0	mg/kg	1	B3J0601	10/06/2023	10/09/2023	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	91.5 %		50-150			"	"	"	
------------------------	--------	--	--------	--	--	---	---	---	--

**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B3J0436	10/05/2023	10/11/2023	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Naphthalene	ND		0.00380	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U

Origins Laboratory, Inc.



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

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - Gutterson State CC #20-12

**WH-FS-01@6'**

**10/3/2023 11:52:00AM**

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

**Origins Laboratory, Inc.**  
**Y310102-01 (Soil)**

**GBTEX+TMBs by 8260D**

Surrogate: 1,2-Dichloroethane-d4	134 %		70-130			B3J04 36	10/05/2023	10/11/2023	GC
Surrogate: Toluene-d8	100 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	94.0 %		70-130			"	"	"	

**Metals by Saturated Paste by EPA 6010**

Calcium	1.28		0.499	meq/L	10	[CALC]	10/06/2023	10/09/2023	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	ND		0.435	"	"	"	"	"	

**PAH by EPA 8270E**

1-Methylnaphthalene	ND		0.002	mg/kg	1	B3J0630	10/06/2023	10/11/2023	U
2-Methylnaphthalene	ND		0.002	"	"	"	"	"	U
Acenaphthene	ND		0.020	"	"	"	"	"	U
Anthracene	ND		0.020	"	"	"	"	"	U
Benzo (a) anthracene	ND		0.005	"	"	"	"	"	U
Benzo (a) pyrene	ND		0.020	"	"	"	"	"	U
Benzo (b) fluoranthene	ND		0.020	"	"	"	"	"	U
Benzo (k) fluoranthene	ND		0.020	"	"	"	"	"	U
Chrysene	ND		0.020	"	"	"	"	"	U
Dibenz (a,h) anthracene	ND		0.020	"	"	"	"	"	U

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

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - Gutterson State CC #20-12

**WH-FS-01@6'**

**10/3/2023 11:52:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y310102-01 (Soil)**

**PAH by EPA 8270E**

Fluoranthene	ND		0.020	mg/kg	1	B3J0630	10/06/2023	10/11/2023	U
Fluorene	ND		0.020	"	"	"	"	"	U
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	U
Pyrene	ND		0.020	"	"	"	"	"	U

Surrogate: Fluorene-d10	95.4 %		60-130			"	"	"	
Surrogate: Anthracene-d10	112 %		60-130			"	"	"	
Surrogate: Pyrene-d10	126 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	101 %		60-130			"	"	"	

**pH in Soil by 9045D**

pH	8.29			pH Units	1	B3J0623	10/06/2023	10/07/2023	
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**SAR by 20B Saturated Paste**

SAR	0.130		0.0100	SAR	1	B3J0615	10/06/2023	10/09/2023	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.230		0.00500	mmhos/cm	1	B3J0623	10/06/2023	10/07/2023	
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**Total Metals by 6020B**

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 Wheat Ridge CO 80033

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - Gutterson State CC #20-12

**WH-FS-01@6'**

**10/3/2023 11:52:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Waypoint Analytical, LLC.**  
**Y310102-01 (Soil)**

**Total Metals by 6020B**

Arsenic	0.735	0.0855	0.25	mg/Kg	5	L709127	10/06/2023	10/17/2023	
Barium	67	0.042	0.25	"	"	"	"	"	
Cadmium	0.0858	0.026	0.25	"	"	"	"	"	J
Copper	3.27	0.0805	0.25	"	"	"	"	"	
Lead	7.55	0.031	0.25	"	"	"	"	"	
Nickel	3.11	0.0635	0.25	"	"	"	"	"	
Selenium	0.299	0.103	0.25	"	"	"	"	"	
Silver	0.0158	0.0067	0.25	"	"	"	"	"	J
Zinc	17.4	0.535	2.5	"	"	"	"	"	

**Total Metals by 7196A**

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L711650	10/03/2023	10/18/2023	
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Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - Gutterson State CC #20-12

**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 B3J0436 - EPA 5030 (soil)

Blank (B3J0436-BLK1)

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

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							U
1,3,5-Trimethylbenzene	ND	0.00200	"							U
Benzene	ND	0.00200	"							U
Ethylbenzene	ND	0.00200	"							U
Naphthalene	ND	0.00380	"							U
Toluene	ND	0.00200	"							U
Xylenes, total	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125	111		70-130			
Surrogate: Toluene-d8	0.13		"	0.125	100		70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125	93.3		70-130			

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Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - Gutterson State CC #20-12

**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 B3J0436 - EPA 5030 (soil)

**LCS (B3J0436-BS1)**

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

1,2,4-Trimethylbenzene	0.0997	0.00200	mg/kg	0.100		99.7	70-130			
1,3,5-Trimethylbenzene	0.0985	0.00200	"	0.100		98.5	70-130			
Benzene	0.0899	0.00200	"	0.100		89.9	70-130			
Ethylbenzene	0.0953	0.00200	"	0.100		95.3	70-130			
Naphthalene	0.0950	0.00380	"	0.100		95.0	70-130			
Toluene	0.0947	0.00200	"	0.100		94.7	70-130			
o-Xylene	0.101	0.00200	"	0.100		101	70-130			
m,p-Xylene	0.199	0.00400	"	0.200		99.3	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		109	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		101	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		95.1	70-130			

Origins Laboratory, Inc.



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 Project Number: [none]  
 Project: Noble - Gutterson State CC #20-12

**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 B3J0436 - EPA 5030 (soil)

Matrix Spike (B3J0436-MS1)	Source: Y310064-01			Prepared: 10/05/2023 Analyzed: 10/10/2023						
1,2,4-Trimethylbenzene	0.0791	0.00200	mg/kg	0.100	ND	79.1	70-130			
1,3,5-Trimethylbenzene	0.0785	0.00200	"	0.100	ND	78.5	70-130			
Benzene	0.0738	0.00200	"	0.100	ND	73.8	70-130			
Ethylbenzene	0.0759	0.00200	"	0.100	ND	75.9	70-130			
Naphthalene	0.0731	0.00380	"	0.100	ND	73.1	70-130			
Toluene	0.0776	0.00200	"	0.100	ND	77.6	70-130			
o-Xylene	0.0836	0.00200	"	0.100	ND	83.6	70-130			
m,p-Xylene	0.161	0.00400	"	0.200	ND	80.5	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.15		"	0.125		116	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		101	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		96.6	70-130			

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Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - Gutterson State CC #20-12

**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 B3J0436 - EPA 5030 (soil)

Matrix Spike Dup (B3J0436-MSD1)	Source: Y310064-01		Prepared: 10/05/2023 Analyzed: 10/10/2023							
1,2,4-Trimethylbenzene	0.0739	0.00200	mg/kg	0.100	ND	73.9	70-130	6.75	20	
1,3,5-Trimethylbenzene	0.0731	0.00200	"	0.100	ND	73.1	70-130	7.13	20	
Benzene	0.0694	0.00200	"	0.100	ND	69.4	70-130	6.15	20	QM-07
Ethylbenzene	0.0731	0.00200	"	0.100	ND	73.1	70-130	3.87	20	
Naphthalene	0.0645	0.00380	"	0.100	ND	64.5	70-130	12.5	20	QM-07
Toluene	0.0720	0.00200	"	0.100	ND	72.0	70-130	7.41	20	
o-Xylene	0.0795	0.00200	"	0.100	ND	79.5	70-130	5.08	20	
m,p-Xylene	0.153	0.00400	"	0.200	ND	76.7	70-130	4.81	20	
Surrogate: 1,2-Dichloroethane-d4	0.15		"	0.125		116	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		99.8	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		98.5	70-130			

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Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - Gutterson State CC #20-12

**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 B3J0601 - EPA 3550B</b>										
<b>Blank (B3J0601-BLK1)</b>										
					Prepared: 10/06/2023 Analyzed: 10/07/2023					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	20		"	24.9		80.8	50-150			

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 Project Number: [none]  
 Project: Noble - Guttersen State CC #20-12

**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 B3J0601 - EPA 3550B**

**LCS (B3J0601-BS1)**

Prepared: 10/06/2023 Analyzed: 10/07/2023

Diesel (C10-C28)	1000	50.0	mg/kg	1000		100	70-130			
Residual Range Organics (C28-C40)	1030	200	"	1000		103	70-130			
Surrogate: o-Terphenyl	44		"	49.8		87.5	50-150			

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Eagle Environmental Consulting, LLC  
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 Wheat Ridge CO 80033

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - Gutterson State CC #20-12

**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 B3J0601 - EPA 3550B**

<b>Matrix Spike (B3J0601-MS1)</b>	<b>Source: Y310094-01</b>			Prepared: 10/06/2023 Analyzed: 10/07/2023						
Diesel (C10-C28)	978	50.0	mg/kg	1000	81.1	89.6	70-130			
Residual Range Organics (C28-C40)	1780	200	"	1000	686	109	70-130			
Surrogate: o-Terphenyl	36		"	49.8		71.9	50-150			

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 Wheat Ridge CO 80033

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - Guttersen State CC #20-12

**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 B3J0601 - EPA 3550B</b>										
<b>Matrix Spike Dup (B3J0601-MSD1)</b>					<b>Source: Y310094-01</b>					Prepared: 10/06/2023 Analyzed: 10/07/2023
Diesel (C10-C28)	943	50.0	mg/kg	1000	81.1	86.2	70-130	3.56	35	
Residual Range Organics (C28-C40)	1540	200	"	1000	686	85.5	70-130	14.2	35	
Surrogate: o-Terphenyl	37		"	49.8		74.8	50-150			

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Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - Guttersen State CC #20-12

**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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**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 B3J0630 - EPA 3580**

**Blank (B3J0630-BLK1)**

Prepared: 10/06/2023 Analyzed: 10/11/2023

1-Methylnaphthalene	ND	0.002	mg/kg							U
2-Methylnaphthalene	ND	0.002	"							U
Acenaphthene	ND	0.020	"							U
Anthracene	ND	0.020	"							U
Benzo (a) anthracene	ND	0.005	"							U
Benzo (a) pyrene	ND	0.020	"							U
Benzo (b) fluoranthene	ND	0.020	"							U
Benzo (g,h,i) perylene	ND	0.020	"							U
Benzo (k) fluoranthene	ND	0.020	"							U
Chrysene	ND	0.020	"							U
Dibenz (a,h) anthracene	ND	0.020	"							U
Fluoranthene	ND	0.020	"							U
Fluorene	ND	0.020	"							U
Indeno (1,2,3-cd) pyrene	ND	0.020	"							U
Naphthalene	ND	0.002	"							U
Phenanthrene	ND	0.020	"							U
Pyrene	ND	0.020	"							U
Surrogate: Fluorene-d10	200		ug/kg	200		99.9	60-130			
Surrogate: Anthracene-d10	210		"	200		106	60-130			
Surrogate: Pyrene-d10	250		"	200		124	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		98.9	60-130			

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 Wheat Ridge CO 80033

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - Gutterson State CC #20-12

**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 B3J0630 - EPA 3580**

**LCS (B3J0630-BS1)**

Prepared: 10/06/2023 Analyzed: 10/11/2023

1-Methylnaphthalene	0.188	0.002	mg/kg	0.200		94.0	70-130			
2-Methylnaphthalene	0.185	0.002	"	0.200		92.7	70-130			
Acenaphthene	0.183	0.020	"	0.200		91.5	70-130			
Anthracene	0.192	0.020	"	0.200		96.1	70-130			
Benzo (a) anthracene	0.176	0.005	"	0.200		87.9	70-130			
Benzo (a) pyrene	0.191	0.020	"	0.200		95.7	70-130			
Benzo (b) fluoranthene	0.177	0.020	"	0.200		88.6	70-130			
Benzo (g,h,i) perylene	0.180	0.020	"	0.200		90.0	70-130			
Benzo (k) fluoranthene	0.175	0.020	"	0.200		87.6	70-130			
Chrysene	0.180	0.020	"	0.200		90.1	70-130			
Dibenz (a,h) anthracene	0.167	0.020	"	0.200		83.5	70-130			
Fluoranthene	0.178	0.020	"	0.200		89.2	70-130			
Fluorene	0.181	0.020	"	0.200		90.4	70-130			
Indeno (1,2,3-cd) pyrene	0.176	0.020	"	0.200		88.0	70-130			
Naphthalene	0.185	0.002	"	0.200		92.6	70-130			
Phenanthrene	0.184	0.020	"	0.200		91.9	70-130			
Pyrene	0.206	0.020	"	0.200		103	70-130			
Surrogate: Fluorene-d10	200		ug/kg	200		98.9	60-130			
Surrogate: Anthracene-d10	200		"	200		100	60-130			
Surrogate: Pyrene-d10	220		"	200		111	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		101	60-130			

**Matrix Spike (B3J0630-MS1)**

**Source: Y310095-01**

Prepared: 10/06/2023 Analyzed: 10/11/2023

1-Methylnaphthalene	0.198	0.002	mg/kg	0.200	ND	99.0	70-130			
2-Methylnaphthalene	0.190	0.002	"	0.200	ND	94.8	70-130			
Acenaphthene	0.186	0.020	"	0.200	ND	93.2	70-130			
Anthracene	0.191	0.020	"	0.200	0.004	93.5	70-130			

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 Wheat Ridge CO 80033

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - Gutterson State CC #20-12

**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 B3J0630 - EPA 3580**

<b>Matrix Spike (B3J0630-MS1)</b>		<b>Source: Y310095-01</b>			Prepared: 10/06/2023 Analyzed: 10/11/2023					
Benzo (a) anthracene	0.175	0.005	mg/kg	0.200	0.001	86.7	70-130			
Benzo (a) pyrene	0.192	0.020	"	0.200	ND	95.9	70-130			
Benzo (b) fluoranthene	0.185	0.020	"	0.200	0.005	90.3	70-130			
Benzo (g,h,i) perylene	0.179	0.020	"	0.200	ND	89.3	70-130			
Benzo (k) fluoranthene	0.179	0.020	"	0.200	0.001	88.7	70-130			
Chrysene	0.178	0.020	"	0.200	0.003	87.5	70-130			
Dibenz (a,h) anthracene	0.176	0.020	"	0.200	ND	87.8	70-130			
Fluoranthene	0.180	0.020	"	0.200	0.003	88.2	70-130			
Fluorene	0.184	0.020	"	0.200	ND	92.2	70-130			
Indeno (1,2,3-cd) pyrene	0.223	0.020	"	0.200	ND	112	70-130			
Naphthalene	0.194	0.002	"	0.200	ND	97.1	70-130			
Phenanthrene	0.186	0.020	"	0.200	0.002	92.3	70-130			
Pyrene	0.213	0.020	"	0.200	0.004	104	70-130			
Surrogate: Fluorene-d10	200		ug/kg	200		99.6	60-130			
Surrogate: Anthracene-d10	210		"	200		106	60-130			
Surrogate: Pyrene-d10	230		"	200		115	60-130			
Surrogate: Benzo (a) pyrene-d12	210		"	200		103	60-130			

<b>Matrix Spike Dup (B3J0630-MSD1)</b>		<b>Source: Y310095-01</b>			Prepared: 10/06/2023 Analyzed: 10/11/2023					
1-Methylnaphthalene	0.196	0.002	mg/kg	0.200	ND	97.9	70-130	1.03	20	
2-Methylnaphthalene	0.186	0.002	"	0.200	ND	93.2	70-130	1.77	20	
Acenaphthene	0.182	0.020	"	0.200	ND	91.0	70-130	2.42	20	
Anthracene	0.184	0.020	"	0.200	0.004	90.4	70-130	3.33	20	
Benzo (a) anthracene	0.193	0.005	"	0.200	0.001	95.9	70-130	10.1	20	
Benzo (a) pyrene	0.197	0.020	"	0.200	ND	98.4	70-130	2.57	20	
Benzo (b) fluoranthene	0.186	0.020	"	0.200	0.005	90.6	70-130	0.402	20	
Benzo (g,h,i) perylene	0.177	0.020	"	0.200	ND	88.7	70-130	0.716	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

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - Gutterson State CC #20-12

**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 B3J0630 - EPA 3580**

<b>Matrix Spike Dup (B3J0630-MSD1)</b>	<b>Source: Y310095-01</b>			<b>Prepared: 10/06/2023 Analyzed: 10/11/2023</b>						
Benzo (k) fluoranthene	0.193	0.020	mg/kg	0.200	0.001	96.1	70-130	7.90	20	
Chrysene	0.178	0.020	"	0.200	0.003	87.4	70-130	0.0229	20	
Dibenz (a,h) anthracene	0.172	0.020	"	0.200	ND	86.1	70-130	1.99	20	
Fluoranthene	0.179	0.020	"	0.200	0.003	88.0	70-130	0.185	20	
Fluorene	0.180	0.020	"	0.200	ND	90.1	70-130	2.31	20	
Indeno (1,2,3-cd) pyrene	0.182	0.020	"	0.200	ND	91.2	70-130	20.1	20	QR-02
Naphthalene	0.187	0.002	"	0.200	ND	93.3	70-130	3.98	20	
Phenanthrene	0.187	0.020	"	0.200	0.002	93.0	70-130	0.682	20	
Pyrene	0.210	0.020	"	0.200	0.004	103	70-130	1.53	20	
Surrogate: Fluorene-d10	200		ug/kg	200		99.7	60-130			
Surrogate: Anthracene-d10	210		"	200		106	60-130			
Surrogate: Pyrene-d10	220		"	200		112	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		101	60-130			

Origins Laboratory, Inc.



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 Wheat Ridge CO 80033

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - Gutterson State CC #20-12

**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 B3J0615 - Saturated Paste Metals**

**Blank (B3J0615-BLK1)**

Prepared: 10/06/2023 Analyzed: 10/09/2023

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 (B3J0615-DUP1)**

Source: Y310056-01

Prepared: 10/06/2023 Analyzed: 10/09/2023

SAR	ND	0.0100	SAR		17.1				200	
Calcium PPM	52.8	10.0	mg/L		57.1			7.75	50	
Magnesium PPM	118	10.0	"		121			2.05	50	
Sodium PPM	995	10.0	"		996			0.0633	50	

**Batch B3J0916 - DTPA Sorbitol Preparation**

**Blank (B3J0916-BLK1)**

Prepared: 10/09/2023 Analyzed: 10/11/2023

Boron	ND	0.100	mg/L							
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**Duplicate (B3J0916-DUP1)**

Source: Y310099-01

Prepared: 10/09/2023 Analyzed: 10/11/2023

Boron	ND	0.0992	mg/L		ND				50	
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 Wheat Ridge CO 80033

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - Gutterson State CC #20-12

**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 B3J0623 - Saturated Paste pH/EC</b>										
<b>Blank (B3J0623-BLK1)</b>					Prepared: 10/06/2023 Analyzed: 10/07/2023					
Specific Conductance (EC)	ND	0.00500	mmhos/cm							
<b>Duplicate (B3J0623-DUP1)</b>					<b>Source: Y310056-01</b> Prepared: 10/06/2023 Analyzed: 10/07/2023					
Specific Conductance (EC)	5.70	0.00500	mmhos/cm		5.29		7.37		25	
pH	8.30		pH Units		8.44		1.67		25	

Origins Laboratory, Inc.



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 8000 W 44th Ave  
 Wheat Ridge CO 80033

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - Gutterson State CC #20-12

**Total Metals by 6020B - Quality Control**  
**Waypoint Analytical, LLC.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch L709127 - 3050B**

<b>MSD (L 98817-MSD-L709127)</b>		<b>Source: 98817</b>			Prepared: 10/06/2023 Analyzed: 10/17/2023					
Selenium	4.76	0.25	mg/Kg	4.93	1.41	68	75-125	9.9	80	*
Copper	13.3	0.25	"	2.47	16.6	0	75-125	6.5	80	*
Silver	0.441	0.25	"	0.493	0.0366	82	75-125	8.8	80	
Nickel	14.6	0.25	"	2.47	18.7	0	75-125	3.3	80	*
Lead	11.2	0.25	"	2.47	12.4	0	75-125	0	80	I*
Barium	112	0.25	"	4.93	176	0	75-125	84.5	80	I*
Arsenic	5.5	0.25	"	2.47	4.84	27	75-125	10	80	*
Cadmium	0.68	0.25	"	0.493	0.214	95	75-125	3.2	80	
Zinc	67.8	2.5	"	24.7	68.3	0	75-125	5.8	80	*

<b>MS (L 98817-MS-L709127)</b>		<b>Source: 98817</b>			Prepared: 10/06/2023 Analyzed: 10/17/2023					
Cadmium	0.658	0.25	mg/Kg	0.478	0.214	93	75-125			
Zinc	71.9	2.5	"	23.9	68.3	15	75-125			*
Silver	0.482	0.25	"	0.478	0.0366	93	75-125			
Selenium	5.26	0.25	"	4.78	1.41	81	75-125			
Nickel	15.1	0.25	"	2.39	18.7	0	75-125			*
Copper	14.2	0.25	"	2.39	16.6	0	75-125			*
Barium	276	0.25	"	4.78	176	NR	75-125			I*
Arsenic	6.08	0.25	"	2.39	4.84	52	75-125			*
Lead	11.2	0.25	"	2.39	12.4	0	75-125			I*

<b>LCS (LCS-L709127)</b>		Prepared: 10/06/2023 Analyzed: 10/17/2023								
Arsenic	2.31	0.25	mg/Kg	2.5		92	80-120			
Selenium	4.6	0.25	"	5		92	80-120			
Silver	0.45	0.25	"	0.5		90	80-120			
Nickel	2.41	0.25	"	2.5		96	80-120			
Zinc	24.5	2.5	"	25		98	80-120			

Origins Laboratory, Inc.



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

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - Gutterson State CC #20-12

**Total Metals by 6020B - Quality Control**  
**Waypoint Analytical, LLC.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch L709127 - 3050B**

**LCS (LCS-L709127)**

Prepared: 10/06/2023 Analyzed: 10/17/2023

Lead	2.43	0.25	mg/Kg	2.5		97	80-120			
Barium	4.71	0.25	"	5		94	80-120			
Copper	2.38	0.25	"	2.5		95	80-120			
Cadmium	0.473	0.25	"	0.5		95	80-120			

**LRB (LRB-L709127)**

Prepared: 10/06/2023 Analyzed: 10/17/2023

Arsenic	ND	0.25	mg/Kg				-			
Silver	ND	0.25	"				-			
Selenium	ND	0.25	"				-			
Nickel	ND	0.25	"				-			
Lead	0.0373	0.25	"				-			J
Copper	ND	0.25	"				-			
Barium	ND	0.25	"				-			
Zinc	ND	2.5	"				-			
Cadmium	ND	0.25	"				-			

Origins Laboratory, Inc.



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 8000 W 44th Ave  
 Wheat Ridge CO 80033

Martin C Eckert III  
 Project Number: [none]  
 Project: Noble - Gutterson State CC #20-12

**Total Metals by 7196A - Quality Control  
 Waypoint Analytical, LLC.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch L711650 -</b>										
<b>DUP (L 98814-DUP)</b>		<b>Source: 98814</b>			Prepared: Analyzed: 10/18/2023					
Chromium, Hexavalent	ND	0.509	mg/Kg		98814		-	0	20	
<b>MS (L 98814-MS)</b>		<b>Source: 98814</b>			Prepared: Analyzed: 10/18/2023					
Chromium, Hexavalent	35.4	2.53	mg/Kg	40.4	98814	88	75-125			
<b>LCS (LCS)</b>		Prepared: Analyzed: 10/18/2023								
Chromium, Hexavalent	6.49	0.5	mg/Kg	8		81	75-125			
<b>LRB (LRB)</b>		Prepared: Analyzed: 10/18/2023								
Chromium, Hexavalent	ND	0.5	mg/Kg				-			

Origins Laboratory, Inc.



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

Martin C Eckert III  
Project Number: [none]  
Project: Noble - Gutterson State CC #20-12

### Notes and Definitions

- U Sample is Non-Detect.
- S-GC Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogate.
- QR-02 The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
- QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
- J Estimated Value. Analyte below reported quantitation limit.
- I\* [Undefined]
- \* QC Failure
- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference

All soil results are reported on a wet weight basis.

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

Origins Laboratory, Inc.



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

November 08, 2023

Eagle Environmental Consulting, LLC

Andrew Newberry

8000 W 44th Ave

Wheat Ridge CO 80033

**Project Name - Noble - Guttersen State CC #20-12 Project Number - [none]**

Attached are your analytical results for Noble - Guttersen State CC #20-12 received by Origins Laboratory, Inc. October 26, 2023. This project is associated with Origins project number Y310708-01.

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 - Guttersen State CC #20-12

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Background-01@3'	Y310708-01	Soil	October 3, 2023 11:40	10/26/2023 10:10

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 - Gutttersen State CC #20-12

Origins Laboratory

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

**Sample Receipt Checklist**

Origins Work Order: 4310708

Client: Eagle

Client Project ID: Gutttersen State CC #20-12

Checklist Completed by: EHS

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

Date/time completed: 10/26/23

Airbill #: N/A

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

Cooler Number/Temperature: 1 / 1.0 °C / \_\_\_\_\_ °C / \_\_\_\_\_ °C / \_\_\_\_\_ °C

Thermometer ID: T004

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C <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 10/27/23

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 - Guttersen State CC #20-12

**Background-01@3'**  
**10/3/2023 11:40:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y310708-01 (Soil)**

**Table 915 metals by EPA 6020B**

Arsenic	1.50	0.0938	mg/kg	10	B3J2628	CIH	10/26/2023	10/27/2023	
Selenium	0.325	0.0938	"	"	"	CIH	"	"	

Origins Laboratory, Inc.



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 8000 W 44th Ave  
 Wheat Ridge CO 80033

Andrew Newberry  
 Project Number: [none]  
 Project: Noble - Guttersen State CC #20-12

**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 B3J2628 - EPA 3050B**

**Blank (B3J2628-BLK1)**

Prepared: 10/26/2023 Analyzed: 10/30/2023

Arsenic	ND	0.000100	mg/kg							
Barium	ND	0.0100	"							
Cadmium	ND	0.000100	"							
Copper	ND	0.0100	"							
Lead	ND	0.0100	"							
Nickel	ND	0.0100	"							
Selenium	ND	0.000100	"							
Silver	ND	0.000100	"							
Zinc	ND	0.100	"							

**LCS (B3J2628-BS1)**

Prepared: 10/26/2023 Analyzed: 10/27/2023

Arsenic	0.0545	0.000100	mg/kg	0.0500		109	80-120			
Barium	5.07	0.0100	"	5.00		101	80-120			
Cadmium	0.0530	0.000100	"	0.0500		106	80-120			
Copper	0.503	0.0100	"	0.500		101	80-120			
Lead	0.0514	0.0100	"	0.0500		103	80-120			
Nickel	0.0491	0.0100	"	0.0500		98.2	80-120			
Selenium	0.0451	0.000100	"	0.0500		90.2	80-120			
Silver	0.0540	0.000100	"	0.0500		108	80-120			
Zinc	0.474	0.100	"	0.500		94.8	80-120			

**Matrix Spike (B3J2628-MS1)**

**Source: Y310698-01**

Prepared: 10/26/2023 Analyzed: 10/27/2023

Arsenic	10.4	0.0887	mg/kg	4.44	5.97	101	75-125			
Barium	673	8.87	"	444	263	92.3	75-125			
Cadmium	4.84	0.0887	"	4.44	0.251	103	75-125			
Copper	57.5	8.87	"	44.4	12.8	101	75-125			
Lead	16.0	8.87	"	4.44	11.7	96.5	75-125			

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 - Guttersen State CC #20-12

**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 B3J2628 - EPA 3050B**

**Matrix Spike (B3J2628-MS1)**

**Source: Y310698-01**

Prepared: 10/26/2023 Analyzed: 10/27/2023

Nickel	19.8	8.87	mg/kg	4.44	15.3	102	75-125			
Selenium	3.90	0.0887	"	4.44	0.150	84.4	75-125			
Silver	4.65	0.0887	"	4.44	0.0518	104	75-125			
Zinc	97.8	88.7	"	44.4	54.7	96.9	75-125			

**Matrix Spike Dup (B3J2628-MSD1)**

**Source: Y310698-01**

Prepared: 10/26/2023 Analyzed: 10/27/2023

Arsenic	10.6	0.0908	mg/kg	4.54	5.97	101	75-125	1.23	20	
Barium	674	9.08	"	454	263	90.5	75-125	0.227	20	
Cadmium	4.95	0.0908	"	4.54	0.251	104	75-125	2.33	20	
Copper	59.5	9.08	"	45.4	12.8	103	75-125	3.45	20	
Lead	16.5	9.08	"	4.54	11.7	106	75-125	3.39	20	
Nickel	20.5	9.08	"	4.54	15.3	113	75-125	3.12	20	
Selenium	3.95	0.0908	"	4.54	0.150	83.6	75-125	1.28	20	
Silver	4.76	0.0908	"	4.54	0.0518	104	75-125	2.30	20	
Zinc	102	90.8	"	45.4	54.7	104	75-125	4.32	20	

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

Andrew Newberry  
Project Number: [none]  
Project: Noble - Guttersen State CC #20-12

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### Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported at a wet weight basis.

Origins Laboratory, Inc.



*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.*

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Jordan A. Bynon, Project Manager