



June 06, 2023

Eagle Environmental Consulting, LLC

Martin C Eckert III

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - Noble - Gutttersen State CC 20-03 Project Number - [none]

Attached are your analytical results for Noble - Gutttersen State CC 20-03 received by Origins Laboratory, Inc. May 19, 2023. This project is associated with Origins project number Y305528-01.

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 20-03

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
WH-FS-01@6'	Y305528-01	Soil	May 19, 2023 9:03	05/19/2023 12:20
WH-SS-01@5'	Y305528-02	Soil	May 19, 2023 8:55	05/19/2023 12:20
WH-SS-02@5'	Y305528-03	Soil	May 19, 2023 8:57	05/19/2023 12:20
WH-SS-03@5'	Y305528-04	Soil	May 19, 2023 8:59	05/19/2023 12:20
WH-SS-04@5'	Y305528-05	Soil	May 19, 2023 9:01	05/19/2023 12:20

Chain of Custody Modification Request

On 5/30/2023, Grace Congdon from Eagle Environmental contacted Jennifer Pellegrini via email regarding Y305528 requesting that pH be rerun for the samples WH-FS-01@6', WH-SS-01@5', WH-SS-03@5', and WH-SS-04@5' and that 915 metals be added to sample WH-SS-03@5'.

Requested modifications to the chain of custody were made by Jennifer Pellegrini on 5/30/2023. No errors were found in the original pH data, all three results are reported for all reruns. JAB

Origins Laboratory, Inc.



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ORIGINS LABORATORY, INC

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

Martin C Eckert III
Project Number: [none]
Project: Noble - Gutteresen State CC 20-03

ORIGINS
LABORATORY, INC

875528

Client: Eagle Environmental Consulting
Address: 8000 W 44th Ave
Wheat Ridge CO 80033
Telephone Number: 303-433-0475
Email Address: info@originslab.com

Project Manager: Martin Eckert III
Project Name: Gutteresen State CC 20-03
Project Number:
Samples Collected By: GEP

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative	Matrix	Other	Date	Time	Relinquished By	Date	Time	Received By	Date	Time	Turnaround Time
WH-15-0105	5/11/23	09:03	3	X	Soil	X	5-19-23	12:10	GM	5-19-23	12:10	GM	5-19-23	12:10	Standard
WH-15-0105		08:55													
WH-15-0105		08:57													
WH-15-0105		08:59													
WH-15-0105		09:01													

Date Results Needed: 5/19/23
Temp received: 7.7°
Bill to Call

Origins Laboratory, Inc.
Bynon

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ORIGINS LABORATORY, INC

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

Martin C Eckert III
Project Number: [none]
Project: Noble - Gutterson State CC 20-03

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

Sample Receipt Checklist

Origins Work Order: Y 305528 Client: Eagle
Client Project ID: Gutterson State CC 20-03
Checklist Completed by: JG/ELS Shipped Via: HA
Date/time completed: 5/19/23 (UPS, FedEx, Hand Delivered, Pick-up, etc.)
Airbill #: N/A
Matrix(s) Received: (Check all that apply): Soil/Solid Water Other: _____
Cooler Number/Temperature: 1 / 7.7 °C / _____ °C / _____ °C (Describe)
Thermometer ID: 5004

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"/>	<u>SD</u>
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?	<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) ⁽¹⁾ = 2 for samples preserved with HNO3, HCL, H2SO4 / (pH > 10 for samples preserved with NaAsO2+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 in the additional comments (above) and the case narrative.

Reviewed by (Project Manager) [Signature]

Date/Time Reviewed 5/23/23

Origins Laboratory, Inc.

[Signature]

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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 20-03

WH-FS-01@6'
5/19/2023 9:03:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y305528-01 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.0995	mg/L	1	B3E2307	05/23/2023	05/24/2023		
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3E2201	05/22/2023	05/22/2023	U	
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U	

Surrogate: *o*-Terphenyl 95.9% 50-150 " " " "

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3E2232	05/22/2023	05/24/2023	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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Martin C Eckert III
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 5/19/2023 9:03:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y305528-01 (Soil)

GBTEX+TMBs by 8260D

Surrogate: 1,2-Dichloroethane-d4	93.4 %		70-130			B3E22 32	05/22/2023	05/24/2023	
Surrogate: Toluene-d8	86.6 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	110 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	0.973		0.499	meq/L	10	[CALC]	05/24/2023	05/25/2023	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	ND		0.435	"	"	"	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00109	0.00201	mg/Kg	1	L683854	05/24/2023	05/25/2023	
2-Methylnaphthalene	ND	0.00194	0.00201	"	"	"	"	"	
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"	
Anthracene	ND	0.000334	0.00067	"	"	"	"	"	
Benzo(a)anthracene	ND	0.000493	0.00067	"	"	"	"	"	
Benzo(a)pyrene	ND	0.000468	0.00067	"	"	"	"	"	
Benzo(b)fluoranthene	ND	0.000585	0.00067	"	"	"	"	"	
Benzo(k)fluoranthene	ND	0.000437	0.00067	"	"	"	"	"	
Chrysene	0.000803	0.000624	0.00067	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"	

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Martin C Eckert III
 Project Number: [none]
 Project: Noble - Gutterson State CC 20-03

WH-FS-01@6'
5/19/2023 9:03:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.
Y305528-01 (Soil)

PAH by 8270D SIM

Fluoranthene	ND	0.000394	0.00067	mg/Kg	1	L683854	05/24/2023	05/25/2023	
Fluorene	0.000994	0.000286	0.00067	"	"	"	"	"	"
Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	"	"	"	"	"	"
Pyrene	ND	0.000643	0.00067	"	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	57.3 %		33-115	"	"	"	"	"	"
Surrogate: 4-Terphenyl-d14	66.8 %		33-122	"	"	"	"	"	"
Surrogate: Nitrobenzene-d5	49.1 %		29-110	"	"	"	"	"	"

pH in Soil by 9045D


pH	8.48			pH Units	1	B3E2415	05/24/2023	05/25/2023	
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SAR by 20B Saturated Paste

SAR	0.176			SAR	1	B3E2409	05/24/2023	05/25/2023	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.257		0.00500	mmhos/cm	1	B3E2415	05/24/2023	05/25/2023	
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Wheat Ridge CO 80033

Martin C Eckert III
Project Number: [none]
Project: Noble - Gutterson State CC 20-03

WH-FS-01@6'
5/19/2023 9:03:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y305528-01RE1 (Soil)

pH in Soil by 9045D

pH	8.30			pH Units	1	B3E3111	05/24/2023	06/01/2023	
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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 20-03

WH-FS-01@6'

5/19/2023 9:03:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y305528-01RE2 (Soil)

pH in Soil by 9045D

pH	8.00			pH Units	1	B3E3111	05/24/2023	06/01/2023	
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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 20-03

WH-SS-01@5'
5/19/2023 8:55:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y305528-02 (Soil)

Boron (DTPA Sorbitol)

Boron	ND		0.0981	mg/L	1	B3E2307	05/23/2023	05/24/2023	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B3E2201	05/22/2023	05/22/2023	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	96.3 %		50-150	"	"	"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B3E2232	05/22/2023	05/24/2023	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 20-03

WH-SS-01@5'
 5/19/2023 8:55:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y305528-02 (Soil)

GBTEX+TMBs by 8260D

Surrogate: 1,2-Dichloroethane-d4	91.5 %		70-130			B3E22 32	05/22/2023	05/24/2023	
Surrogate: Toluene-d8	86.4 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	106 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	1.03		0.499	meq/L	10	[CALC]	05/24/2023	05/25/2023	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	ND		0.435	"	"	"	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00109	0.00201	mg/Kg	1	L683854	05/24/2023	05/25/2023	
2-Methylnaphthalene	ND	0.00194	0.00201	"	"	"	"	"	
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"	
Anthracene	ND	0.000334	0.00067	"	"	"	"	"	
Benzo(a)anthracene	ND	0.000493	0.00067	"	"	"	"	"	
Benzo(a)pyrene	ND	0.000468	0.00067	"	"	"	"	"	
Benzo(b)fluoranthene	ND	0.000585	0.00067	"	"	"	"	"	
Benzo(k)fluoranthene	ND	0.000437	0.00067	"	"	"	"	"	
Chrysene	ND	0.000624	0.00067	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"	

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 8000 W 44th Ave
 Wheat Ridge CO 80033

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Gutterson State CC 20-03

WH-SS-01@5'
5/19/2023 8:55:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.
Y305528-02 (Soil)

PAH by 8270D SIM

Fluoranthene	ND	0.000394	0.00067	mg/Kg	1	L683854	05/24/2023	05/25/2023	
Fluorene	ND	0.000286	0.00067	"	"	"	"	"	"
Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	"	"	"	"	"	"
Pyrene	ND	0.000643	0.00067	"	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	56.3%		33-115			"	"	"	"
Surrogate: 4-Terphenyl-d14	69.9%		33-122			"	"	"	"
Surrogate: Nitrobenzene-d5	47.3%		29-110			"	"	"	"

pH in Soil by 9045D

pH	8.42			pH Units	1	B3E2415	05/24/2023	05/25/2023	
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SAR by 20B Saturated Paste

SAR	0.102			SAR	1	B3E2409	05/24/2023	05/25/2023	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.329		0.00500	mmhos/cm	1	B3E2415	05/24/2023	05/25/2023	
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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 20-03

WH-SS-01@5'

5/19/2023 8:55:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y305528-02RE1 (Soil)

pH in Soil by 9045D

pH	8.29			pH Units	1	B3E3111	05/24/2023	06/01/2023	
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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 20-03

WH-SS-01@5'
5/19/2023 8:55:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y305528-02RE2 (Soil)

pH in Soil by 9045D

pH	8.24			pH Units	1	B3E3111	05/24/2023	06/01/2023	
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 8000 W 44th Ave
 Wheat Ridge CO 80033

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Gutterson State CC 20-03

WH-SS-02@5'
5/19/2023 8:57:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y305528-03 (Soil)

Boron (DTPA Sorbitol)

Boron	ND		0.100	mg/L	1	B3E2307	05/23/2023	05/24/2023	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B3E2201	05/22/2023	05/22/2023	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: *o*-Terphenyl 95.7% 50-150 " " " "

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B3E2232	05/22/2023	05/24/2023	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 20-03

WH-SS-02@5'
5/19/2023 8:57:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y305528-03 (Soil)

GBTEX+TMBs by 8260D

Surrogate: 1,2-Dichloroethane-d4	87.1 %		70-130			B3E22 32	05/22/2023	05/24/2023	
Surrogate: Toluene-d8	87.2 %		70-130			"	"	"	"
Surrogate: 4-Bromofluorobenzene	108 %		70-130			"	"	"	"

Metals by Saturated Paste by EPA 6010

Calcium	0.879		0.499	meq/L	10	[CALC]	05/24/2023	05/25/2023	
Magnesium	ND		0.823	"	"	"	"	"	"
Sodium	ND		0.435	"	"	"	"	"	"

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00109	0.00201	mg/Kg	1	L683854	05/24/2023	05/25/2023	
2-Methylnaphthalene	ND	0.00194	0.00201	"	"	"	"	"	"
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"	"
Anthracene	ND	0.000334	0.00067	"	"	"	"	"	"
Benzo(a)anthracene	ND	0.000493	0.00067	"	"	"	"	"	"
Benzo(a)pyrene	ND	0.000468	0.00067	"	"	"	"	"	"
Benzo(b)fluoranthene	ND	0.000585	0.00067	"	"	"	"	"	"
Benzo(k)fluoranthene	ND	0.000437	0.00067	"	"	"	"	"	"
Chrysene	ND	0.000624	0.00067	"	"	"	"	"	"
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"	"

Origins Laboratory, Inc.



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

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Gutterson State CC 20-03

WH-SS-02@5'
5/19/2023 8:57:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.
Y305528-03 (Soil)

PAH by 8270D SIM

Fluoranthene	ND	0.000394	0.00067	mg/Kg	1	L683854	05/24/2023	05/25/2023	
Fluorene	ND	0.000286	0.00067	"	"	"	"	"	"
Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	"	"	"	"	"	"
Pyrene	ND	0.000643	0.00067	"	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	52.4%		33-115			"	"	"	"
Surrogate: 4-Terphenyl-d14	60.2%		33-122			"	"	"	"
Surrogate: Nitrobenzene-d5	41.9%		29-110			"	"	"	"

pH in Soil by 9045D

pH	8.04			pH Units	1	B3E2415	05/24/2023	05/25/2023	
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SAR by 20B Saturated Paste

SAR	0.235			SAR	1	B3E2409	05/24/2023	05/25/2023	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.302		0.00500	mmhos/cm	1	B3E2415	05/24/2023	05/25/2023	
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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 20-03

WH-SS-03@5'
5/19/2023 8:59:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y305528-04 (Soil)

Boron (DTPA Sorbitol)

Boron	0.402		0.0992	mg/L	1	B3E2307	05/23/2023	05/24/2023	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	474		25.0	mg/kg	1	B3E2201	05/22/2023	05/22/2023	
Residual Range Organics (C28-C40)	137		100	"	"	"	"	"	

Surrogate: o-Terphenyl	86.0%		50-150	"	"	"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	0.0534		0.00200	mg/kg	1	B3E2232	05/22/2023	05/24/2023	
1,3,5-Trimethylbenzene	0.0660		0.00200	"	"	"	"	"	
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	0.00686		0.00200	"	"	"	"	"	
Naphthalene	ND		0.00380	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	0.0552		0.00200	"	"	"	"	"	
Gasoline Range Hydrocarbons	11.0		0.200	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	92.6%		70-130	"	"	"	"	"	
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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 20-03

WH-SS-03@5'
5/19/2023 8:59:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y305528-04 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	90.9 %		70-130			B3E22 32	05/22/2023	05/24/2023	
Surrogate: 4-Bromofluorobenzene	110 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	3.38		0.499	meq/L	10	[CALC]	05/24/2023	05/25/2023	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	0.871		0.435	"	"	"	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	0.0102	0.00109	0.00201	mg/Kg	1	L683854	05/24/2023	05/25/2023	
2-Methylnaphthalene	0.00603	0.00194	0.00201	"	"	"	"	"	
Acenaphthene	0.00317	0.000304	0.00067	"	"	"	"	"	
Anthracene	ND	0.000334	0.00067	"	"	"	"	"	
Benzo(a)anthracene	0.00134	0.000493	0.00067	"	"	"	"	"	
Benzo(a)pyrene	ND	0.000468	0.00067	"	"	"	"	"	
Benzo(b)fluoranthene	ND	0.000585	0.00067	"	"	"	"	"	
Benzo(k)fluoranthene	ND	0.000437	0.00067	"	"	"	"	"	
Chrysene	0.00335	0.000624	0.00067	"	"	"	"	"	
Dibenz(a,h)anthracene	0.00074	0.000614	0.00067	"	"	"	"	"	
Fluoranthene	0.000396	0.000394	0.00067	"	"	"	"	"	J
Fluorene	0.00836	0.000286	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.

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

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Gutterson State CC 20-03

WH-SS-03@5'
5/19/2023 8:59:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.
Y305528-04 (Soil)

PAH by 8270D SIM

Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	mg/Kg	1	L683854	05/24/2023	05/25/2023	
Pyrene	0.00159	0.000643	0.00067	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	54.1 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	59 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	43.2 %		29-110			"	"	"	

pH in Soil by 9045D

pH	12.0			pH Units	1	B3E2415	05/24/2023	05/25/2023	
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SAR by 20B Saturated Paste


SAR	0.670			SAR	1	B3E2409	05/24/2023	05/25/2023	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	1.40		0.00500	mmhos/cm	1	B3E2415	05/24/2023	05/25/2023	
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Table 915 metals by EPA 6020B

Arsenic	2.04		0.0885	mg/kg	10	B3E3032	05/30/2023	06/01/2023	
Barium	45.5		8.85	"	"	"	"	"	
Cadmium	0.0885		0.0885	"	"	"	"	"	

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 20-03

WH-SS-03@5'
5/19/2023 8:59:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y305528-04 (Soil)

Table 915 metals by EPA 6020B

Copper	ND		8.85	mg/kg	10	B3E3032	05/30/2023	06/01/2023	
Lead	41.7		8.85	"	"	"	"	"	"
Nickel	ND		8.85	"	"	"	"	"	"
Selenium	ND		0.0885	"	"	"	"	"	"
Silver	ND		0.0885	"	"	"	"	"	"
Zinc	ND		88.5	"	"	"	"	"	"

Total Metals by 7196A

Chromium, Hexavalent	ND	0.245	0.504	mg/Kg	1	L685498	05/19/2023	06/02/2023	
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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 20-03

WH-SS-03@5'

5/19/2023 8:59:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y305528-04RE1 (Soil)

pH in Soil by 9045D

pH	9.18			pH Units	1	B3E3111	05/24/2023	06/01/2023	
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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 20-03

WH-SS-03@5'

5/19/2023 8:59:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y305528-04RE2 (Soil)

pH in Soil by 9045D

pH	11.3			pH Units	1	B3E3111	05/24/2023	06/01/2023	
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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 20-03

WH-SS-04@5'
5/19/2023 9:01:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y305528-05 (Soil)

Boron (DTPA Sorbitol)

Boron	ND		0.0988	mg/L	1	B3E2411	05/24/2023	05/25/2023	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B3E2201	05/22/2023	05/22/2023	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	90.2 %		50-150	"	"	"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B3E2232	05/22/2023	05/24/2023	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 20-03

WH-SS-04@5'
5/19/2023 9:01:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y305528-05 (Soil)

GBTEX+TMBs by 8260D

Surrogate: 1,2-Dichloroethane-d4	92.7 %		70-130			B3E22 32	05/22/2023	05/24/2023	
Surrogate: Toluene-d8	85.9 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	109 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	1.29		0.499	meq/L	10	[CALC]	05/24/2023	05/25/2023	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	ND		0.435	"	"	"	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00109	0.00201	mg/Kg	1	L683854	05/24/2023	05/25/2023	
2-Methylnaphthalene	ND	0.00194	0.00201	"	"	"	"	"	
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"	
Anthracene	ND	0.000334	0.00067	"	"	"	"	"	
Benzo(a)anthracene	ND	0.000493	0.00067	"	"	"	"	"	
Benzo(a)pyrene	ND	0.000468	0.00067	"	"	"	"	"	
Benzo(b)fluoranthene	ND	0.000585	0.00067	"	"	"	"	"	
Benzo(k)fluoranthene	ND	0.000437	0.00067	"	"	"	"	"	
Chrysene	ND	0.000624	0.00067	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"	

Origins Laboratory, Inc.



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

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Gutterson State CC 20-03

WH-SS-04@5'
5/19/2023 9:01:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.
Y305528-05 (Soil)

PAH by 8270D SIM

Fluoranthene	ND	0.000394	0.00067	mg/Kg	1	L683854	05/24/2023	05/25/2023	
Fluorene	ND	0.000286	0.00067	"	"	"	"	"	"
Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	"	"	"	"	"	"
Pyrene	ND	0.000643	0.00067	"	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	53.7 %		33-115			"	"	"	"
Surrogate: 4-Terphenyl-d14	63.4 %		33-122			"	"	"	"
Surrogate: Nitrobenzene-d5	45.7 %		29-110			"	"	"	"

pH in Soil by 9045D

pH	8.74			pH Units	1	B3E2415	05/24/2023	05/25/2023	
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SAR by 20B Saturated Paste

SAR	0.231			SAR	1	B3E2409	05/24/2023	05/25/2023	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.358		0.00500	mmhos/cm	1	B3E2415	05/24/2023	05/25/2023	
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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 20-03

WH-SS-04@5'

5/19/2023 9:01:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y305528-05RE1 (Soil)

pH in Soil by 9045D

pH	8.44			pH Units	1	B3E3111	05/24/2023	06/01/2023	
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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 20-03

WH-SS-04@5'

5/19/2023 9:01:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y305528-05RE2 (Soil)

pH in Soil by 9045D

pH	8.36			pH Units	1	B3E3111	05/24/2023	06/01/2023	
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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 20-03

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 B3E2201 - EPA 3550B

Blank (B3E2201-BLK1)

Prepared: 05/22/2023 Analyzed: 05/22/2023

Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	23		"	24.9		93.0	50-150			

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 20-03

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 B3E2201 - EPA 3550B

LCS (B3E2201-BS1)

Prepared: 05/22/2023 Analyzed: 05/22/2023

Diesel (C10-C28)	832	50.0	mg/kg	1000		83.2	70-130			
Residual Range Organics (C28-C40)	919	200	"	1000		91.9	70-130			
Surrogate: o-Terphenyl	46		"	49.8		93.4	50-150			

Origins Laboratory, Inc.

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Jordan A. Bynon For Noelle Doyle Mathis, President



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

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Gutterson State CC 20-03

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 B3E2201 - EPA 3550B

Matrix Spike (B3E2201-MS1)

Source: Y305512-01

Prepared: 05/22/2023 Analyzed: 05/22/2023

Diesel (C10-C28)	813	50.0	mg/kg	1000	ND	81.3	70-130			
Residual Range Organics (C28-C40)	899	200	"	1000	ND	89.9	70-130			
Surrogate: o-Terphenyl	45		"	49.8		91.2	50-150			

Origins Laboratory, Inc.

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Jordan A. Bynon For Noelle Doyle Mathis, President



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

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Gutterson State CC 20-03

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 B3E2201 - EPA 3550B

Matrix Spike Dup (B3E2201-MSD1)

Source: Y305512-01

Prepared: 05/22/2023 Analyzed: 05/22/2023

Diesel (C10-C28)	822	50.0	mg/kg	1000	ND	82.2	70-130	1.13	35	
Residual Range Organics (C28-C40)	909	200	"	1000	ND	90.9	70-130	1.19	35	
Surrogate: o-Terphenyl	51		"	49.8		103	50-150			

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 20-03

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 B3E2232 - EPA 5030 (soil)

Prepared: 05/24/2023 Analyzed: 05/24/2023

Blank (B3E2232-BLK1)

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	0.11		"	0.125		90.2	70-130			
Surrogate: Toluene-d8	0.11		"	0.125		88.3	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		104	70-130			

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 Wheat Ridge CO 80033

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Gutterson State CC 20-03

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 B3E2232 - EPA 5030 (soil)

LCS (B3E2232-BS1)

Prepared: 05/24/2023 Analyzed: 05/24/2023

1,2,4-Trimethylbenzene	0.0942	0.00200	mg/kg	0.100		94.2	70-130			
1,3,5-Trimethylbenzene	0.0980	0.00200	"	0.100		98.0	70-130			
Benzene	0.100	0.00200	"	0.100		100	70-130			
Ethylbenzene	0.110	0.00200	"	0.100		110	70-130			
Naphthalene	0.0858	0.00380	"	0.100		85.8	70-130			
Toluene	0.103	0.00200	"	0.100		103	70-130			
o-Xylene	0.0975	0.00200	"	0.100		97.5	70-130			
m,p-Xylene	0.217	0.00400	"	0.200		109	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		93.0	70-130			
Surrogate: Toluene-d8	0.11		"	0.125		86.6	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		102	70-130			

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Jordan A. Bynon For Noelle Doyle Mathis, President



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Martin C Eckert III
 Project Number: [none]
 Project: Noble - Gutterson State CC 20-03

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 B3E2232 - EPA 5030 (soil)

Matrix Spike (B3E2232-MS1)

Source: Y305528-01

Prepared: 05/24/2023 Analyzed: 05/24/2023

1,2,4-Trimethylbenzene	0.0908	0.00200	mg/kg	0.100	ND	90.8	70-130			
1,3,5-Trimethylbenzene	0.0952	0.00200	"	0.100	ND	95.2	70-130			
Benzene	0.0991	0.00200	"	0.100	ND	99.1	70-130			
Ethylbenzene	0.0952	0.00200	"	0.100	ND	95.2	70-130			
Naphthalene	0.0856	0.00380	"	0.100	ND	85.6	70-130			
Toluene	0.0817	0.00200	"	0.100	ND	81.7	70-130			
o-Xylene	0.0926	0.00200	"	0.100	ND	92.6	70-130			
m,p-Xylene	0.189	0.00400	"	0.200	ND	94.6	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		95.4	70-130			
Surrogate: Toluene-d8	0.11		"	0.125		86.0	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		105	70-130			

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Martin C Eckert III
 Project Number: [none]
 Project: Noble - Gutterson State CC 20-03

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 B3E2232 - EPA 5030 (soil)

Matrix Spike Dup (B3E2232-MSD1)

Source: Y305528-01

Prepared: 05/24/2023 Analyzed: 05/24/2023

1,2,4-Trimethylbenzene	0.0910	0.00200	mg/kg	0.100	ND	91.0	70-130	0.198	20	
1,3,5-Trimethylbenzene	0.0945	0.00200	"	0.100	ND	94.5	70-130	0.696	20	
Benzene	0.0998	0.00200	"	0.100	ND	99.8	70-130	0.664	20	
Ethylbenzene	0.0928	0.00200	"	0.100	ND	92.8	70-130	2.60	20	
Naphthalene	0.0901	0.00380	"	0.100	ND	90.1	70-130	5.19	20	
Toluene	0.0814	0.00200	"	0.100	ND	81.4	70-130	0.417	20	
o-Xylene	0.0910	0.00200	"	0.100	ND	91.0	70-130	1.76	20	
m,p-Xylene	0.184	0.00400	"	0.200	ND	91.9	70-130	2.82	20	
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		95.8	70-130			
Surrogate: Toluene-d8	0.11		"	0.125		84.6	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		103	70-130			

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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 - Gutteresen State CC 20-03

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 B3E3032 - EPA 3050B

Blank (B3E3032-BLK1)

Prepared: 05/30/2023 Analyzed: 06/01/2023

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 (B3E3032-BS1)

Prepared: 05/30/2023 Analyzed: 06/01/2023

Arsenic	0.0421	0.000100	mg/kg	0.0500		84.2	80-120			
Barium	4.75	0.0100	"	5.00		95.0	80-120			
Cadmium	0.0504	0.000100	"	0.0500		101	80-120			
Copper	0.474	0.0100	"	0.500		94.9	80-120			
Lead	0.0520	0.0100	"	0.0500		104	80-120			
Nickel	0.0454	0.0100	"	0.0500		90.8	80-120			
Selenium	0.0444	0.000100	"	0.0500		88.9	80-120			
Silver	0.0497	0.000100	"	0.0500		99.5	80-120			
Zinc	0.435	0.100	"	0.500		86.9	80-120			

Matrix Spike (B3E3032-MS1)

Source: Y305528-04

Prepared: 05/30/2023 Analyzed: 06/01/2023

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Jordan A. Bynon For Noelle Doyle Mathis, President



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 Project Number: [none]
 Project: Noble - Gutterson State CC 20-03

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 B3E3032 - EPA 3050B

Matrix Spike (B3E3032-MS1)

Source: Y305528-04

Prepared: 05/30/2023 Analyzed: 06/01/2023

Arsenic	5.74	0.0922	mg/kg	4.61	2.04	80.3	75-125			
Barium	472	9.22	"	461	45.5	92.6	75-125			
Cadmium	4.84	0.0922	"	4.61	0.0885	103	75-125			
Copper	48.6	9.22	"	46.1	5.09	94.5	75-125			
Lead	21.3	9.22	"	4.61	41.7	NR	75-125			QM-07
Nickel	7.05	9.22	"	4.61	3.43	78.6	75-125			
Selenium	4.13	0.0922	"	4.61	0.0699	88.0	75-125			
Silver	4.15	0.0922	"	4.61	0.0221	89.6	75-125			
Zinc	55.7	92.2	"	46.1	17.9	81.9	75-125			

Matrix Spike Dup (B3E3032-MSD1)

Source: Y305528-04

Prepared: 05/30/2023 Analyzed: 06/01/2023

Arsenic	6.48	0.0879	mg/kg	4.39	2.04	101	75-125	12.0	20	
Barium	530	8.79	"	439	45.5	110	75-125	11.5	20	
Cadmium	4.90	0.0879	"	4.39	0.0885	109	75-125	1.11	20	
Copper	49.4	8.79	"	43.9	5.09	101	75-125	1.52	20	
Lead	124	8.79	"	4.39	41.7	NR	75-125	142	20	QM-07, QR-DUP
Nickel	8.47	8.79	"	4.39	3.43	115	75-125	18.3	20	
Selenium	3.99	0.0879	"	4.39	0.0699	89.3	75-125	3.32	20	
Silver	4.17	0.0879	"	4.39	0.0221	94.5	75-125	0.535	20	
Zinc	62.1	87.9	"	43.9	17.9	100	75-125	10.9	20	

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 Wheat Ridge CO 80033

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Gutterson State CC 20-03

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 B3E2307 - DTPA Sorbitol Preparation

Blank (B3E2307-BLK1)

Prepared: 05/23/2023 Analyzed: 05/24/2023

Boron ND 0.100 mg/L

Duplicate (B3E2307-DUP1)

Source: Y305512-01

Prepared: 05/23/2023 Analyzed: 05/24/2023

Boron 0.116 0.0985 mg/L

0.114 2.23 50

Batch B3E2409 - Saturated Paste Metals

Blank (B3E2409-BLK1)

Prepared: 05/24/2023 Analyzed: 05/25/2023

Calcium PPM ND 10.0 mg/L

SAR 0.00 SAR

Magnesium PPM ND 10.0 mg/L

Sodium PPM ND 10.0 "

Duplicate (B3E2409-DUP1)

Source: Y305512-10

Prepared: 05/24/2023 Analyzed: 05/25/2023

SAR 0.00 SAR

0.0985 200 200

Calcium PPM 28.0 10.0 mg/L

28.7 2.33 50

Magnesium PPM 6.88 10.0 "

7.00 1.73 50

Sodium PPM 2.20 10.0 "

2.27 3.13 50

Batch B3E2411 - DTPA Sorbitol Preparation

Blank (B3E2411-BLK1)

Prepared: 05/24/2023 Analyzed: 05/25/2023

Boron ND 0.100 mg/L

Duplicate (B3E2411-DUP1)

Source: Y305528-05

Prepared: 05/24/2023 Analyzed: 05/25/2023

Boron 0.0669 0.0996 mg/L

0.0565 16.9 50

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 20-03

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 B3E2415 - Saturated Paste pH/EC

Blank (B3E2415-BLK1)

Prepared: 05/24/2023 Analyzed: 05/25/2023

Specific Conductance (EC) ND 0.00500 mmhos/cm

Duplicate (B3E2415-DUP1)

Source: Y305512-10

Prepared: 05/24/2023 Analyzed: 05/25/2023

Specific Conductance (EC) 0.321 0.00500 mmhos/cm 0.279 14.2 25

pH 7.92 pH Units 8.32 4.93 25

Batch B3E3111 - Saturated Paste pH/EC

Duplicate (B3E3111-DUP1)

Source: Y305725-03

Prepared: 05/31/2023 Analyzed: 06/01/2023

pH 5.68 pH Units 5.53 2.68 25

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Martin C Eckert III
 Project Number: [none]
 Project: Noble - Gutterson State CC 20-03

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
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Batch L685498 -

DUP (L 81326-DUP)

Source: Y305528-04

Prepared: Analyzed: 06/02/2023

Chromium, Hexavalent	ND	0.5	mg/Kg		<0.500	-	0	20		
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MS (L 81326-MS)

Source: Y305528-04

Prepared: Analyzed: 06/02/2023

Chromium, Hexavalent	32.8	2.5	mg/Kg	39.6	<1.22	83	75-125			
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LCS (LCS)

Prepared: Analyzed: 06/02/2023

Chromium, Hexavalent	6.42	0.5	mg/Kg	8	80	75-125				
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LRB (LRB)

Prepared: Analyzed: 06/02/2023

Chromium, Hexavalent	ND	0.5	mg/Kg		-					
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 8000 W 44th Ave
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Martin C Eckert III
 Project Number: [none]
 Project: Noble - Gutterson State CC 20-03

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L683854 - 3550B

MSD (L 96781-MSD-L683854)

Source: 96781

Prepared: 05/24/2023 Analyzed: 05/25/2023

1-Methylnaphthalene	0.111	0.00201	mg/Kg	0.166	<0.00109	66.8	30-130	7.4	30	
2-Methylnaphthalene	0.097	0.00201	"	0.166	<0.00194	58.4	30-130	7.1	30	
Pyrene	0.127	0.00067	"	0.166	<0.000643	76.5	30-130	4	30	
Indeno(1,2,3-cd)pyrene	0.112	0.00067	"	0.166	<0.000627	67.4	30-130	26.7	30	
Fluorene	0.102	0.00067	"	0.166	0.00069	61	30-130	2.6	30	
Fluoranthene	0.129	0.00067	"	0.166	<0.000394	77.7	30-130	6.4	30	
Anthracene	0.111	0.00067	"	0.166	<0.000334	66.8	30-130	2.7	30	
Benzo(a)anthracene	0.114	0.00067	"	0.166	<0.000493	68.6	30-130	3.5	30	
Benzo(a)pyrene	0.118	0.00067	"	0.166	<0.000468	71	30-130	2.5	30	
Benzo(b)fluoranthene	0.0892	0.00067	"	0.166	<0.000585	53.7	30-130	8.7	30	
Benzo(k)fluoranthene	0.135	0.00067	"	0.166	<0.000437	81.3	30-130	30.8	30	*
Chrysene	0.13	0.00067	"	0.166	<0.000624	78.3	30-130	3.1	30	
Dibenz(a,h)anthracene	0.14	0.00067	"	0.166	<0.000614	84.3	30-130	21.3	30	
Acenaphthene	0.107	0.00067	"	0.166	0.000401	64.2	30-130	5.7	30	

Surrogate: Nitrobenzene-d5

54.5

"

0.332

155

54.5

29-110

Surrogate: 2-Fluorobiphenyl

59.6

"

0.332

180

59.6

33-115

Surrogate: 4-Terphenyl-d14

81.3

"

0.332

221

81.3

33-122

MS (L 96781-MS-L683854)

Source: 96781

Prepared: 05/24/2023 Analyzed: 05/25/2023

Benzo(a)anthracene	0.11	0.00067	mg/Kg	0.167	<0.000493	65.8	30-130			
Indeno(1,2,3-cd)pyrene	0.0856	0.00067	"	0.167	<0.000627	51.2	30-130			
Pyrene	0.122	0.00067	"	0.167	<0.000643	73	30-130			
Acenaphthene	0.101	0.00067	"	0.167	0.000401	60.2	30-130			
Fluorene	0.0993	0.00067	"	0.167	0.00069	59	30-130			
Benzo(b)fluoranthene	0.0817	0.00067	"	0.167	<0.000585	48.9	30-130			
Chrysene	0.126	0.00067	"	0.167	<0.000624	75.4	30-130			
Benzo(k)fluoranthene	0.0989	0.00067	"	0.167	<0.000437	59.2	30-130			

Origins Laboratory, Inc.



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 Wheat Ridge CO 80033

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Gutteresen State CC 20-03

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L683854 - 3550B

MS (L 96781-MS-L683854)

Source: 96781

Prepared: 05/24/2023 Analyzed: 05/25/2023

Anthracene	0.108	0.00067	mg/Kg	0.167	<0.000334	64.6	30-130			
2-Methylnaphthalene	0.0903	0.00201	"	0.167	<0.00194	54	30-130			
1-Methylnaphthalene	0.103	0.00201	"	0.167	<0.00109	61.6	30-130			
Dibenz(a,h)anthracene	0.113	0.00067	"	0.167	<0.000614	67.6	30-130			
Fluoranthene	0.121	0.00067	"	0.167	<0.000394	72.4	30-130			
Benzo(a)pyrene	0.121	0.00067	"	0.167	<0.000468	72.4	30-130			

Surrogate: Nitrobenzene-d5	50.7		"	0.333	155	50.7	29-110			
Surrogate: 4-Terphenyl-d14	75		"	0.333	221	75	33-122			
Surrogate: 2-Fluorobiphenyl	58.5		"	0.333	180	58.5	33-115			

LCS (LCS-L683854)

Prepared: 05/24/2023 Analyzed: 05/25/2023

Indeno(1,2,3-cd)pyrene	0.105	0.00067	mg/Kg	0.167		62.8	30-130			
Pyrene	0.111	0.00067	"	0.167		66.4	30-130			
Benzo(b)fluoranthene	0.0792	0.00067	"	0.167		47.4	30-130			
1-Methylnaphthalene	0.098	0.00201	"	0.167		58.6	30-130			
2-Methylnaphthalene	0.0872	0.00201	"	0.167		52.2	30-130			
Acenaphthene	0.0951	0.00067	"	0.167		56.9	30-130			
Anthracene	0.103	0.00067	"	0.167		61.6	30-130			
Benzo(a)pyrene	0.106	0.00067	"	0.167		63.4	30-130			
Fluorene	0.0913	0.00067	"	0.167		54.6	30-130			
Benzo(k)fluoranthene	0.112	0.00067	"	0.167		67	30-130			
Chrysene	0.11	0.00067	"	0.167		65.8	30-130			
Dibenz(a,h)anthracene	0.121	0.00067	"	0.167		72.4	30-130			
Fluoranthene	0.112	0.00067	"	0.167		67	30-130			
Benzo(a)anthracene	0.0992	0.00067	"	0.167		59.4	30-130			

Surrogate: Nitrobenzene-d5	52.2		"	0.333		52.2	29-110			
Surrogate: 2-Fluorobiphenyl	59.1		"	0.333		59.1	33-115			

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 20-03

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L683854 - 3550B

LCS (LCS-L683854)

Prepared: 05/24/2023 Analyzed: 05/25/2023

Surrogate: 4-Terphenyl-d14 75.3 mg/Kg 0.333 75.3 33-122

LRB (LRB-L683854)

Prepared: 05/24/2023 Analyzed: 05/25/2023

Fluoranthene	ND	0.00067	mg/Kg				-			
Fluorene	ND	0.00067	"				-			
Indeno(1,2,3-cd)pyrene	ND	0.00067	"				-			
Benzo(k)fluoranthene	ND	0.00067	"				-			
2-Methylnaphthalene	ND	0.00201	"				-			
Dibenz(a,h)anthracene	ND	0.00067	"				-			
Chrysene	ND	0.00067	"				-			
Benzo(b)fluoranthene	ND	0.00067	"				-			
Benzo(a)pyrene	ND	0.00067	"				-			
Benzo(a)anthracene	ND	0.00067	"				-			
Pyrene	ND	0.00067	"				-			
Anthracene	ND	0.00067	"				-			
1-Methylnaphthalene	ND	0.00201	"				-			
Acenaphthene	ND	0.00067	"				-			
Surrogate: Nitrobenzene-d5	48		"	0.333		48	29-110			
Surrogate: 4-Terphenyl-d14	73.2		"	0.333		73.2	33-122			
Surrogate: 2-Fluorobiphenyl	58.5		"	0.333		58.5	33-115			

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Notes and Definitions

- U Sample is Non-Detect.
 - QR-DUP RPD exceeds QC acceptance criteria, this indicates source sample is not homogenous.
 - QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
 - J Estimated Value. Analyte below reported quantitation limit.
 - * QC Failure
 - ND Analyte NOT DETECTED at or above the reporting limit
 - RPD Relative Percent Difference
- All soil results are reported on a wet weight basis.
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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