



January 10, 2024

Eagle Environmental Consulting, LLC

Andrew Newberry

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. December 11, 2023. This project is associated with Origins project number Y312319-01.

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.

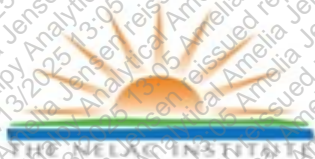
The analytical results apply specifically to the samples and analyses specified per the attached Chain of Custody. As such, this report shall not be reproduced except in full, without the written approval of Origin's laboratory.

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

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

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Background-02@5-7.5'	Y312319-01	Soil	December 11, 2023 11:05	12/11/2023 15:53
Background-02@7.5-10'	Y312319-02	Soil	December 11, 2023 11:08	12/11/2023 15:53
Background-03@5-7.5'	Y312319-03	Soil	December 11, 2023 11:20	12/11/2023 15:53
Background-03@7.5-10'	Y312319-04	Soil	December 11, 2023 11:23	12/11/2023 15:53
Background-04@5-7.5'	Y312319-05	Soil	December 11, 2023 11:35	12/11/2023 15:53
Background-04@7.5-10'	Y312319-06	Soil	December 11, 2023 11:37	12/11/2023 15:53
Background-05@5-7.5'	Y312319-07	Soil	December 11, 2023 11:50	12/11/2023 15:53
Background-05@7.5-10'	Y312319-08	Soil	December 11, 2023 11:53	12/11/2023 15:53
Background-06@5-7.5'	Y312319-09	Soil	December 11, 2023 12:05	12/11/2023 15:53
Background-06@7.5-10'	Y312319-10	Soil	December 11, 2023 12:08	12/11/2023 15:53

Origins Laboratory, Inc.



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ORIGINS LABORATORY, INC

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

Andrew Newberry
 Project Number: [none]
 Project: Noble - Gutteresen State CC 20-03

ORIGINS LABORATORY, INC

4312319

www.originslaboratory.com

page 1 of 1

Client: Eagle Environmental Consulting
 Address: 8000 W 44th Ave
 Telephone Number: 303-433-0419
 Email Address: amen@eagle-environment.com

Project Manager: Andrew Newberry
 Project Name: Gutteresen State CC #10-03
 Project Number: [blank]
 Samples Collected By: KJ TEL

sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservatives			Matrix			Analysis			Sample Instructions
				HCl Unpreserved	HNO ₃	Other	Groundwater	Soil	Air Canister #	Other	As-COL-20	PM-10-2.5	
Background-010 5-75'	12/11/23	1105	2	X			X						As-saturated pack prep
Background-010 7.5-10'		1106	1										
Background-030 5-7.5'		1170	1										MPOs needed
Background-030 7.5-10'		1123	1										
Background-040 5-7.5'		1135	1										
Background-040 7.5-10'		1137	1										
Background-050 5-7.5'		1150	1										
Background-050 7.5-10'		1153	1										
Background-010 5-7.5'		1205	1										
Background-010 7.5-10'		1206	1										
Relinquished By: [Signature]	Date: 12/11/23	Time: 1507	Time: 1507	Received By: [Signature]	Date: 2/11/23	Time: 815	Received By: [Signature]	Date: 2/11/23	Time: 853	Turnaround Time: Same Day <input type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input type="checkbox"/> Standard <input checked="" type="checkbox"/>			

Temp Received: 3, 3
 Date Results Needed: [Signature]
 Noble

Origins Laboratory, Inc.

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ORIGINS LABORATORY, INC

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

Andrew Newberry
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: 4312319 Client: Eagle
Client Project ID: Gutterson St CC # 20-03
Checklist Completed by: JAY CHS Shipped Via: H/D
Date/time completed: 2/12/23 (UPS, FedEx, Hand Delivered, Pick-up, etc.)
Airbill #: N/A
Matrix(s) Received: (Check all that apply): Soil/Solid Water Other: _____
Cooler Number/Temperature: L133 °C _____ °C _____ °C (Describe) _____ °C
Thermometer ID: 1004

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is there ice present (document if blue ice is used)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are custody seals present on cooler? (If so, document in comments if they are signed and dated, broken or intact)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are custody seals present on each sample container? (If so, document in comments if they are signed and dated, broken or intact)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water - is there headspace (≥ ¼ inch bubble) present? If yes, contact client and note in narrative.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are samples preserved that require preservation and was it checked ⁽¹⁾ ? (note ID of confirmation instrument used in comments) (preservation is not confirmed for subcontracted analyses in order to insure sample integrity) (pH < 2 for samples preserved with HNO ₃ , HCL, H ₂ SO ₄) / (pH > 10 for samples preserved with NaAsO ₂ +NaOH, ZnAc+NaOH)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Additional Comments (if any):				

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

Reviewed by (Project Manager) [Signature]

Date/Time Reviewed 12/13/23

Origins Laboratory, Inc.

[Signature]

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Jordan A. Bynon For Noelle Doyle Mathis, President

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

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

Background-02@5-7.5'
12/11/2023 11:05:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y312319-01 (Soil)

pH in Soil by 9045D

pH	8.02			pH Units	1	B3L1417	12/14/2023	12/15/2023	
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Total Metals by 6020B

Arsenic	0.817	0.0855	0.25	mg/Kg	5	L723528	12/19/2023	01/10/2024	
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Origins Laboratory, Inc.



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

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

Background-02@7.5-10'
12/11/2023 11:08:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y312319-02 (Soil)

pH in Soil by 9045D

pH	7.84			pH Units	1	B3L1417	12/14/2023	12/15/2023	
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Total Metals by 6020B

Arsenic	0.899	0.0855	0.25	mg/Kg	5	L723528	12/19/2023	01/10/2024	
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Eagle Environmental Consulting, LLC
8000 W 44th Ave
Wheat Ridge CO 80033

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

Background-03@5-7.5'
12/11/2023 11:20:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y312319-03 (Soil)

pH in Soil by 9045D

pH	8.16			pH Units	1	B3L1417	12/14/2023	12/15/2023	
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Total Metals by 6020B

Arsenic	0.848	0.0855	0.25	mg/Kg	5	L723528	12/19/2023	01/10/2024	
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Eagle Environmental Consulting, LLC
 8000 W 44th Ave
 Wheat Ridge CO 80033

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

Background-03@7.5-10'
12/11/2023 11:23:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y312319-04 (Soil)

pH in Soil by 9045D

pH	7.80			pH Units	1	B3L1417	12/14/2023	12/15/2023	
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Total Metals by 6020B

Arsenic	0.664	0.0855	0.25	mg/Kg	5	L723528	12/19/2023	01/10/2024	
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Eagle Environmental Consulting, LLC
 8000 W 44th Ave
 Wheat Ridge CO 80033

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

Background-04@5-7.5'
12/11/2023 11:35:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y312319-05 (Soil)

pH in Soil by 9045D

pH	6.99			pH Units	1	B3L1417	12/14/2023	12/15/2023	
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Total Metals by 6020B

Arsenic	0.687	0.0855	0.25	mg/Kg	5	L723528	12/19/2023	01/10/2024	
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 8000 W 44th Ave
 Wheat Ridge CO 80033

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

Background-04@7.5-10'
12/11/2023 11:37:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y312319-06 (Soil)

pH in Soil by 9045D

pH	6.91			pH Units	1	B3L1417	12/14/2023	12/15/2023	
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Total Metals by 6020B

Arsenic	0.665	0.0855	0.25	mg/Kg	5	L723528	12/19/2023	01/10/2024	
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8000 W 44th Ave
Wheat Ridge CO 80033

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

Background-05@5-7.5'
12/11/2023 11:50:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y312319-07 (Soil)

pH in Soil by 9045D

pH	6.94			pH Units	1	B3L1417	12/14/2023	12/15/2023	
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Total Metals by 6020B

Arsenic	1.01	0.0855	0.25	mg/Kg	5	L723529	12/19/2023	01/06/2024	
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Eagle Environmental Consulting, LLC
8000 W 44th Ave
Wheat Ridge CO 80033

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

Background-05@7.5-10'
12/11/2023 11:53:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y312319-08 (Soil)

pH in Soil by 9045D

pH	6.88			pH Units	1	B3L1417	12/14/2023	12/15/2023	
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Total Metals by 6020B

Arsenic	0.557	0.0855	0.25	mg/Kg	5	L723529	12/19/2023	01/06/2024	B
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Eagle Environmental Consulting, LLC
8000 W 44th Ave
Wheat Ridge CO 80033

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

Background-06@5-7.5'
12/11/2023 12:05:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y312319-09 (Soil)

pH in Soil by 9045D

pH	6.93			pH Units	1	B3L1417	12/14/2023	12/15/2023	
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Total Metals by 6020B

Arsenic	0.613	0.0855	0.25	mg/Kg	5	L723529	12/19/2023	01/06/2024	B
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Eagle Environmental Consulting, LLC
 8000 W 44th Ave
 Wheat Ridge CO 80033

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

Background-06@7.5-10'
12/11/2023 12:08:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y312319-10 (Soil)

pH in Soil by 9045D

pH	6.92			pH Units	1	B3L1417	12/14/2023	12/15/2023	
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Total Metals by 6020B

Arsenic	0.735	0.0855	0.25	mg/Kg	5	L723529	12/19/2023	01/06/2024	B
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Wheat Ridge CO 80033

Andrew Newberry
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 B3L1417 - Saturated Paste pH/EC

Duplicate (B3L1417-DUP1)

Source: Y312319-01

Prepared: 12/14/2023 Analyzed: 12/15/2023

pH	8.12		pH Units		8.02			1.24	25	
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Jordan A. Bynon For Noelle Doyle Mathis, President



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

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

**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 L723529 - 3050B

MSD (L 88038-MSD-L723529)

Source: 88038

Prepared: 12/19/2023 Analyzed: 01/09/2024

Arsenic	3.61	0.25	mg/Kg dry	2.38	1.78	77	75-125	3.2	80	
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MS (L 88038-MS-L723529)

Source: 88038

Prepared: 12/19/2023 Analyzed: 01/09/2024

Arsenic	3.73	0.25	mg/Kg dry	2.38	1.78	82	75-125			
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LCS (LCS-L723529)

Prepared: 12/19/2023 Analyzed: 01/06/2024

Arsenic	2.19	0.25	mg/Kg	2.5		88	80-120			
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LRB (LRB-L723529)

Prepared: 12/19/2023 Analyzed: 01/06/2024

Arsenic	0.0879	0.25	mg/Kg							J
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Eagle Environmental Consulting, LLC
 8000 W 44th Ave
 Wheat Ridge CO 80033

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

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 L723528 - 3050B

MSD (L 86855-MSD-L723528)

Source: Y312319-06

Prepared: 12/19/2023 Analyzed: 01/10/2024

Arsenic	2.99	0.25	mg/Kg	2.43	0.665	96	75-125	11.9	80	
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MS (L 86855-MS-L723528)

Source: Y312319-06

Prepared: 12/19/2023 Analyzed: 01/10/2024

Arsenic	3.37	0.25	mg/Kg	2.47	0.665	109	75-125			
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LCS (LCS-L723528)

Prepared: 12/19/2023 Analyzed: 01/10/2024

Arsenic	2.56	0.25	mg/Kg	2.5		102	80-120			
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LRB (LRB-L723528)

Prepared: 12/19/2023 Analyzed: 01/10/2024

Arsenic	ND	0.25	mg/Kg							
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Eagle Environmental Consulting, LLC
8000 W 44th Ave
Wheat Ridge CO 80033

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

Notes and Definitions

- J Estimated Value. Analyte below reported quantitation limit.
 - B Analyte detected in associated method blank.
 - 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.



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