



Eagle Environmental Consulting, LLC

Alfred Garraffa

8000 W 44th Ave

Wheat Ridge CO 80033

December 11, 2024

Project Name - Noble - Sandau #34-12F

Project Number - [none]

Attached are your analytical results for Noble - Sandau #34-12F received by Origins Laboratory November 07, 2024. This project is associated with Origins project number E4K0239-01.

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
303.433.1322
projectmanager@originslab.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

Alfred Garraffa
Project Number: [none]
Project: Noble - Sandau #34-12F

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-01	E4K0239-01	Water	November 7, 2024 11:45	11/07/2024 17:12
MW-02	E4K0239-02	Water	November 7, 2024 12:00	11/07/2024 17:12
MW-03	E4K0239-03	Water	November 7, 2024 12:15	11/07/2024 17:12
MW-04	E4K0239-04	Water	November 7, 2024 12:30	11/07/2024 17:12
MW-05	E4K0239-05	Water	November 7, 2024 12:45	11/07/2024 17:12

Origins Laboratory



Jen Pellegrini, Project Manager

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8000 W 44th Ave
Wheat Ridge CO 80033

Alfred Garraffa
Project Number: [none]
Project: Noble - Sandau #34-12F

ORIGINS

LABORATORY INC

ORIGINS WORK ORDER #

4400239

Page 1 of 1

Client: Eagle Environmental Consulting

Project Manager: Alfred Garraffa

Key:

Address: 8000 W 44th Ave

Project Name: Sandau #34-12F

W= Water

Telephone Number: 303-433-2479

Project Number: 34-12F

GW=Groundwater

Email Address: agarraffa@eagle-enviro.com

Collected By: JMA

SW=Surface Water

Invoice/Billing Info: Noble / Bill to DAD

WW=Waste Water

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

L=Liquid

#	Sample ID	Date Sampled	Time Sampled	# of Containers	Matrix	Preservative	Analysis												Comments
							1	2	3	4	5	6	7	8	9	10	11	12	
1	MW-01	11/7/24	1145	3	GWL	HCL	X												
2	MW-02		1200	1															
3	MW-03		1215	1															
4	MW-04		1230	1															
5	MW-05		1245	1															
6																			
7																			
8																			
9																			
10																			

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

Temp Received - 54

Received On Ice? ☒ Yes ☐ No

For Lab Sample Receiving Only:

Standard

48 Hr ☐ 72 Hr ☐

Turnaround Time

48 Hr ☐ 72 Hr ☐

DAY ☐ SAME ☐ 24 Hr ☐

Requisitioned By: [Signature]

Date: 11/7/24

Time: 1712

Received By: [Signature]

Date: 11/7/24

Time: 1712

Origins Laboratory

Jefe Pellegrini

Jen Pellegrini, Project Manager

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8000 W 44th Ave
Wheat Ridge CO 80033

Alfred Garraffa
Project Number: [none]
Project: Noble - Sandau #34-12F

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: F4K0239

Client: Eagle

Client Project ID: Sandau

Checklist Completed by: JHDIAN

Date/time completed: 11/17/24

Shipped Via: HD
(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 5.4 °C 1 °C 1 °C (Describe) °C

Thermometer ID: 1007

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"/>	NC
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) JHDIAN

11/11/24
Date/Time Reviewed

Origins Laboratory

Jen Pellegrini

Jen Pellegrini, Project Manager

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

Alfred Garraffa
Project Number: [none]
Project: Noble - Sandau #34-12F

MW-01

11/7/2024 11:45:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC. E4K0239-01 (Water)

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.0073	0.02	µg/L	1	L784220	11/14/2024	11/17/2024	M
---------------------	----	--------	------	------	---	---------	------------	------------	---

Surrogate: 2-Fluorobiphenyl	79.2 %	70-130	"	"	"
Surrogate: 4-Terphenyl-d14	71.3 %	70-130	"	"	"

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Project Number: [none]
Project: Noble - Sandau #34-12F

MW-02

11/7/2024 12:00:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC. E4K0239-02 (Water)

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.0073	0.02	µg/L	1	L784220	11/14/2024	11/17/2024	M
---------------------	----	--------	------	------	---	---------	------------	------------	---

Surrogate: 2-Fluorobiphenyl	87.1 %		70-130			"	"	"
Surrogate: 4-Terphenyl-d14	71.3 %		70-130			"	"	"

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Alfred Garraffa
Project Number: [none]
Project: Noble - Sandau #34-12F

MW-03

11/7/2024 12:15:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC. E4K0239-03 (Water)

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.0073	0.02	µg/L	1	L784220	11/14/2024	11/17/2024	M
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Surrogate: 2-Fluorobiphenyl	87.1 %		70-130			"	"	"	
Surrogate: 4-Terphenyl-d14	73.9 %		70-130			"	"	"	

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Alfred Garraffa
Project Number: [none]
Project: Noble - Sandau #34-12F

MW-04

11/7/2024 12:30:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC. E4K0239-04 (Water)

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.0073	0.02	µg/L	1	L784220	11/14/2024	11/17/2024	M
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Surrogate: 2-Fluorobiphenyl	77.2 %		70-130			"	"	"	
Surrogate: 4-Terphenyl-d14	65 %		70-130			"	"	"	*

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Project: Noble - Sandau #34-12F

MW-05

11/7/2024 12:45:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC. E4K0239-05 (Water)

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.0073	0.02	µg/L	1	L784220	11/14/2024	11/17/2024	M
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Surrogate: 2-Fluorobiphenyl	92.7 %		70-130			"	"	"
Surrogate: 4-Terphenyl-d14	71 %		70-130			"	"	"

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch L784220 - 3511										
LCSD (LCSD-L784220)					Prepared: 11/14/2024 Analyzed: 11/17/2024					
1-Methylnaphthalene	1.71	0.02	µg/L	3.03		56.4	60-140	0	20	*
Surrogate: 4-Terphenyl-d14	86.4		"	3.03		86.4	70-130			
Surrogate: 2-Fluorobiphenyl	73.2		"	3.03		73.2	70-130			
LCS (LCS-L784220)					Prepared: 11/14/2024 Analyzed: 11/17/2024					
1-Methylnaphthalene	1.71	0.02	µg/L	3.03		56.4	60-140			*
Surrogate: 4-Terphenyl-d14	79.8		"	3.03		79.8	70-130			
Surrogate: 2-Fluorobiphenyl	75.9		"	3.03		75.9	70-130			
LRB (LRB-L784220)					Prepared: 11/14/2024 Analyzed: 11/17/2024					
1-Methylnaphthalene	ND	0.02	µg/L				-			
Surrogate: 4-Terphenyl-d14	84.1		"	3.03		84.1	70-130			
Surrogate: 2-Fluorobiphenyl	89.4		"	3.03		89.4	70-130			

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Notes and Definitions

M Result reported represents a minimum value. Refer to Case Narrative.

* 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.

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