



FIGURES

Figure 1: Groundwater Analytical Map (08/06/24)

Figure 2: Groundwater Elevation Map (08/06/24)

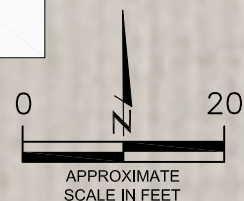
MW-02
08/06/24
B = <1.00
T = <1.00
E = <1.00
X = <1.00
N = <2.00
1,2,4-TMB = <2.00
1,3,5-TMB = <2.00
1-METHYLNAPHTHALENE = <0.200
C = 279
S = 535
T = 1830

MW-03
08/06/24
B = <1.00
T = <1.00
E = <1.00
X = <1.00
N = <2.00
1,2,4-TMB = <2.00
1,3,5-TMB = <2.00
1-METHYLNAPHTHALENE = <0.200
C = 308
S = 536
T = 1980

MW-05
08/06/24
B = <1.00
T = <1.00
E = <1.00
X = <1.00
N = <2.00
1,2,4-TMB = <2.00
1,3,5-TMB = <2.00
1-METHYLNAPHTHALENE = <0.200
C = 279
S = 527
T = 1930

MW-01
08/06/24
B = <1.00
T = <1.00
E = <1.00
X = <1.00
N = <2.00
1,2,4-TMB = <2.00
1,3,5-TMB = <2.00
1-METHYLNAPHTHALENE = <0.200
C = 266
S = 543
T = 1850

MW-04
08/06/24
B = <1.00
T = <1.00
E = <1.00
X = <1.00
N = <2.00
1,2,4-TMB = <2.00
1,3,5-TMB = <2.00
1-METHYLNAPHTHALENE = <0.200
C = 272
S = 541
T = 1900



LEGEND

--- INITIAL WELLHEAD ASSESSMENT BOUNDARIES

MONITORING WELL LOCATIONS

PARAMETERS

GROUNDWATER SAMPLE LOCATION
DATE
B = BENZENE (µg/L)
T = TOLUENE (µg/L)
E = ETHYLBENZENE (µg/L)
X = TOTAL XYLENES (µg/L)
N = NAPHTHALENE (µg/L)
1,2,4-TMB = 1,2,4-TRIMETHYLBENZENE (µg/L)
1,3,5-TMB = 1,3,5-TRIMETHYLBENZENE (µg/L)
1-METHYLNAPHTHALENE (µg/L)
2-METHYLNAPHTHALENE (µg/L)
C = CHLORIDE (mg/L)
S = SULFATE (mg/L)
TDS = TOTAL DISSOLVED SOLIDS (mg/L)

µg/L = MICROGRAMS PER LITER
mg/L = MILLIGRAMS PER LITER

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

VALUES PRESENTED IN **BOLD** EXCEED THE ECMC TABLE 915-1 REGULATORY LIMITS AND/OR ECMC NARRATIVE GROUNDWATER QUALITY STANDARDS*.

*ECMC REGULATORY LIMITS IN GROUNDWATER HAVE NOT BEEN ESTABLISHED FOR 1-METHYLNAPHTHALENE AND 2-METHYLNAPHTHALENE. ECMC IMPLEMENTS A NARRATIVE GROUNDWATER QUALITY STANDARD TAKEN FROM THE ENVIRONMENTAL PROTECTION AGENCY (EPA) REGIONAL SCREENING LEVELS (RSLs) FOR TAPWATER, AS INCORPORATED BY REFERENCE IN RULE 901.B, TABLES FOR TARGET RISK ("TR")=1x10⁻⁶ AND TARGET HAZARD QUOTIENT ("THQ")=0.1. THE EPA RSL FOR TAPWATER, AND RESULTANT NARRATIVE GROUNDWATER QUALITY STANDARDS ARE 1.1 µg/L FOR 1-METHYLNAPHTHALENE AND 3.6 µg/L FOR 2-METHYLNAPHTHALENE.

ECMC = ENERGY & CARBON MANAGEMENT COMMISSION

GROUNDWATER ANALYTICAL MAP

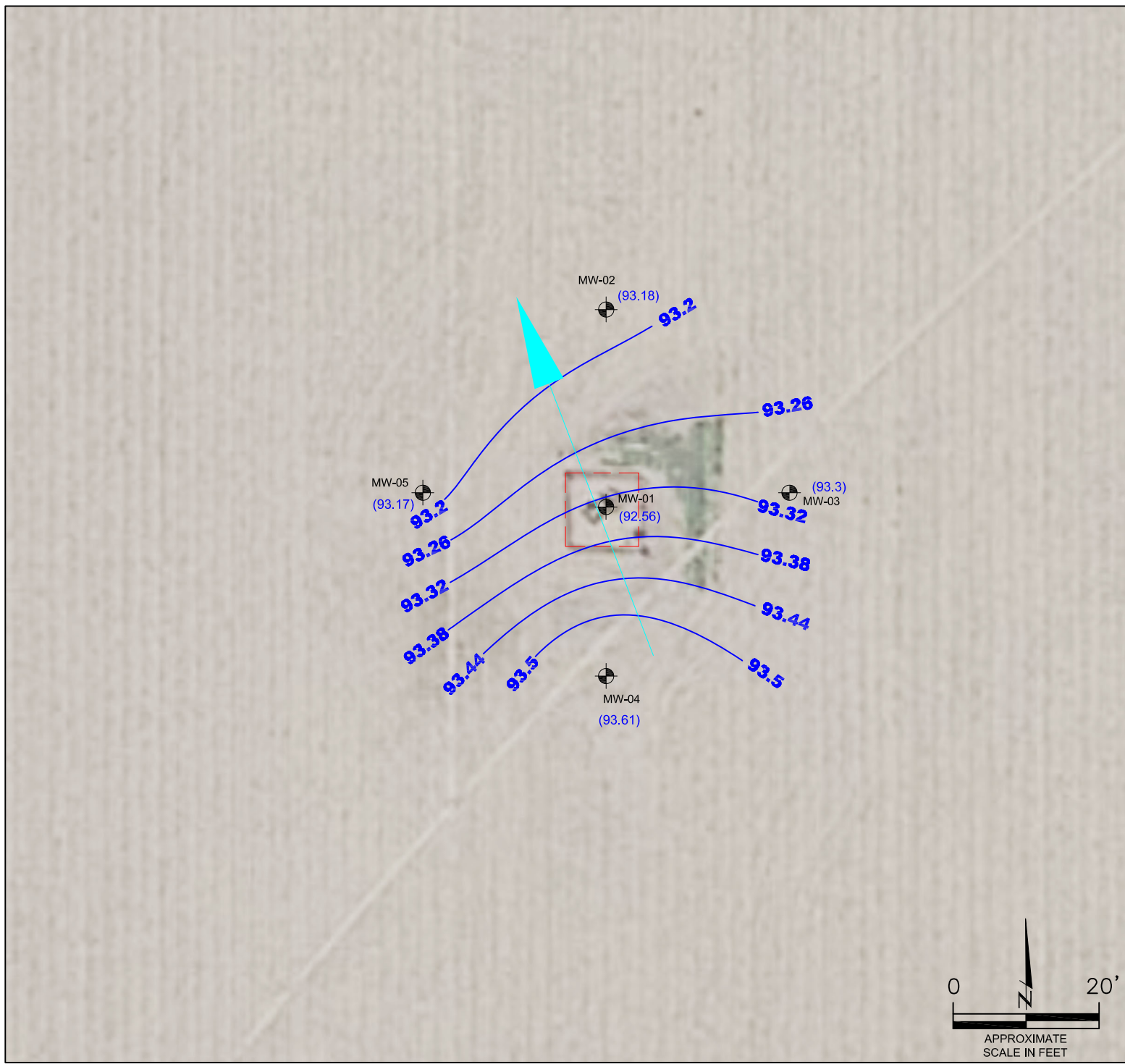
(08/06/24)
SANDAU #34-12F
HISTORICAL RELEASE
40.266780 / -104.770970
NW¼ SW¼ SEC.34 T4N R66W 6PM
WELD COUNTY, COLORADO
API # 05-123-15521
REMEDATION # 22548

FIGURE NO.
1

DRAWN BY:
RS



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



LEGEND

- INITIAL WELLHEAD ASSESSMENT BOUNDARIES
- ⊕ MONITORING WELL LOCATIONS
- (91.45) RELATIVE GROUNDWATER ELEVATION (FT.)
- - - INFERRED GROUNDWATER ELEVATION CONTOUR (FT.)
- APPROXIMATE GROUNDWATER FLOW DIRECTION

FT. = FEET

NOTES:
GROUNDWATER ELEVATION DATA WERE COLLECTED ON 08/06/24.
GROUNDWATER ELEVATION DATA COLLECTED FROM MONITORING WELL MW-01 WERE NOT USED IN THE CREATION OF INFERRED GROUNDWATER ELEVATION CONTOURS.

HYDRAULIC GRADIENT = 0.014

GROUNDWATER ELEVATION MAP
(08/06/24)
SANDAU #34-12F
HISTORICAL RELEASE
40.266780 / -104.770970
NW¼ SW¼ SEC.34 T4N R66W 6PM
WELD COUNTY, COLORADO
API # 05-123-15521
REMEDATION # 22548

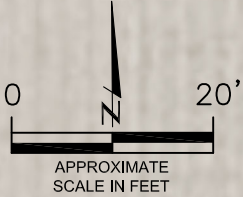


FIGURE NO.
2
DRAWN BY:
RS



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



TABLES

Table 1: Groundwater Analytical Results Summary

Table 2: Inorganics Groundwater Parameters Summary

Table 3: Groundwater Elevation Summary

TABLE 1
GROUNDWATER ANALYTICAL RESULTS SUMMARY
SANDAU #34-12F
HISTORICAL RELEASE
40.266780 / -104.770970
NW1/4 SW1/4 SEC.34 T4N R66W 6PM
WELD COUNTY, COLORADO
API # 05-123-15521
REMEDATION # 22548

Sample Location (Latitude/Longitude)	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	Naphthalene (µg/L)	1,2,4- Trimethyl benzene (µg/L)	1,3,5 - Trimethyl benzene (µg/L)	1-Methyl- naphthal ene (µg/L)
ECMC Table 915-1 Regulatory Limits (µg/L)		5	560	700	1400	140	67	67	--
ECMC Narrative Groundwater Quality Standards* (µg/L)		--	--	--	--	--	--	--	1.1*
MW-01 (40.26679647 / -104.77097881)	2/7/2024	<1.00	<1.00	<1.00	<1.00	<2.00	<2.00	<2.00	<0.200
	05/13/24	<1.00	<1.00	<1.00	<1.00	<2.00	<2.00	<2.00	<0.200
	08/06/24	<1.00	<1.00	<1.00	<1.00	<2.00	<2.00	<2.00	<0.200
MW-02 (40.26683862 / -104.77097607)	2/7/2024	<1.00	<1.00	<1.00	<1.00	<2.00	<2.00	<2.00	<0.200
	05/13/24	<1.00	<1.00	<1.00	<1.00	<2.00	<2.00	<2.00	<0.200
	08/06/24	<1.00	<1.00	<1.00	<1.00	<2.00	<2.00	<2.00	<0.200
MW-03 (40.26676505 / -104.77090967)	2/7/2024	<1.00	<1.00	<1.00	<1.00	<2.00	<2.00	<2.00	<0.200
	05/13/24	<1.00	<1.00	<1.00	<1.00	<2.00	<2.00	<2.00	<0.200
	08/06/24	<1.00	<1.00	<1.00	<1.00	<2.00	<2.00	<2.00	<0.200
MW-04 (40.26672124 / -104.77098677)	2/7/2024	<1.00	<1.00	<1.00	<1.00	<2.00	<2.00	<2.00	<0.200
	05/13/24	<1.00	<1.00	<1.00	<1.00	<2.00	<2.00	<2.00	<0.200
	08/06/24	<1.00	<1.00	<1.00	<1.00	<2.00	<2.00	<2.00	<0.200
MW-05 (40.26678158 / -104.77105181)	2/7/2024	<1.00	<1.00	<1.00	<1.00	<2.00	<2.00	<2.00	<0.200
	05/13/24	<1.00	<1.00	<1.00	<1.00	<2.00	<2.00	<2.00	<0.200
	08/06/24	<1.00	<1.00	<1.00	<1.00	<2.00	<2.00	<2.00	<0.200
Notes: ECMC = Energy & Carbon Management Commission NA = Not Analyzed INA = Inaccessible µg/L = micrograms per liter DES = Destroyed NOP = Not on plan Values presented with a less than symbol (<) indicate concentrations were not observed at or above the laboratory reporting limit. Values presented in bold typeface exceed their respective ECMC - Regulatory Limits (Table 915-1).									

TABLE 2
 INORGANIC GROUNDWATER PARAMETERS SUMMARY
 SANDAU #34-12F
 HISTORICAL RELEASE
 40.266780 / -104.770970
 NW1/4 SW1/4 SEC.34 T4N R66W 6PM
 WELD COUNTY, COLORADO
 API # 05-123-15521
 REMEDIATION # 22548

Sample Location (Latitude/Longitude)	Date	Chlorides (mg/L)	Sulfates (mg/L)	Total Dissolved Solids (mg/L)
ECMC Table 915-1 Regulatory Limits (mg/L)		1.25 x Local Background (350 to 386)	1.25 x Local Background (670 to 676)	1.25 x Local Background (2375 to 2475)
MW-01 (40.26679647 / -104.77097881)	02/07/24	243	552	1780
	05/13/24	288	530	1830
	08/06/24	266	543	1850
MW-02 (40.26683862 / -104.77097607)	02/07/24	252	513	1760
	05/13/24	302	516	1820
	08/06/24	279	535	1830
MW-03 (40.26676505 / -104.77090967)	02/07/24	262	525	1710
	05/13/24	309	516	1830
	08/06/24	308	536	1980
MW-04 (40.26672124 / -104.77098677)	02/07/24	244	522	1760
	05/13/24	280	521	1870
	08/06/24	272	541	1900
MW-05 (40.26678158 / -104.77105181)	02/07/24	248	542	1710
	05/13/24	307	528	1760
	08/06/24	279	527	1930
mg/L - milligrams per liter NA - Not Analyzed Note: The Groundwater Inorganic Parameters in up-gradient monitoring well MW-04 and cross-gradient MW-03 were used in the determination of "local background" levels at the site. Local "regulatory limit" (1.25*local background) presented (in parentheses). Values presented in bold typeface exceed their respective ECMC - Regulatory Limits (Table 915-1).				

TABLE 2
GROUNDWATER ELEVATION SUMMARY
SANDAU #34-12F
HISTORICAL RELEASE
40.266780 / -104.770970
NW1/4 SW1/4 SEC.34 T4N R66W 6PM
WELD COUNTY, COLORADO
API # 05-123-15521
REMEDIAION # 22548

Sample Location (Latitude/Longitude)	Date	TOC Elevation (feet)	Depth to Groundwater from TOC (feet)	Relative Groundwater Elevation (feet)
MW-01 (40.26679647 / -104.77097881)	02/07/24	98.93	7.06	91.87
	05/13/24		6.78	92.15
	08/06/24		6.37	92.56
MW-02 (40.26683862 / -104.77097607)	02/07/24	99.61	7.11	92.50
	05/13/24		6.81	92.80
	08/06/24		6.43	93.18
MW-03 (40.26676505 / -104.77090967)	02/07/24	99.72	7.11	92.61
	05/13/24		6.77	92.95
	08/06/24		6.42	93.30
MW-04 (40.26672124 / -104.77098677)	02/07/24	100.00	7.09	92.91
	05/13/24		6.78	93.22
	08/06/24		6.39	93.61
MW-05 (40.26678158 / -104.77105181)	02/07/24	99.99	7.53	92.46
	05/13/24		7.30	92.69
	08/06/24		6.82	93.17
NOTES: bgs = below ground surface TOC = Top of Casing INA = Inaccessible NA = Not Applicable DES = Destroyed				



ATTACHMENT A

Laboratory Analytical Reports



August 21, 2024

Eagle Environmental Consulting, LLC

Grace Congdon

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - Noble - Sandau #34-12F

Project Number - [none]

Attached are your analytical results for Noble - Sandau #34-12F received by Origins Laboratory, Inc. August 06, 2024. This project is associated with Origins project number Y408163-01.

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

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

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-01	Y408163-01	Water	August 6, 2024 14:30	08/06/2024 16:15
MW-02	Y408163-02	Water	August 6, 2024 14:05	08/06/2024 16:15
MW-03	Y408163-03	Water	August 6, 2024 14:13	08/06/2024 16:15
MW-04	Y408163-04	Water	August 6, 2024 14:21	08/06/2024 16:15
MW-05	Y408163-05	Water	August 6, 2024 13:55	08/06/2024 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

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

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

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix		Analysis		Sample Instructions
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	Air	Summa Container #	
MU-01	8/6/24	1430	1	X								
MU-02		1405	1									
MU-03		1413	1									
MU-04		1421	1									
MU-05		1355	1									

Relinquished By:	Date:	Time:	Received By:	Date:	Time:	Turnaround Time:
<i>[Signature]</i>	8/6/24	1615	<i>[Signature]</i>	8/6/24	1615	<input checked="" type="checkbox"/> Standard <input type="checkbox"/> 48 Hr <input type="checkbox"/> 72 Hr <input type="checkbox"/> Some Day <input type="checkbox"/> 24 Hr

Temp Received: 9.1

Date Results Needed

Client: Eagle Environmental Consulting
Address: 8000 W 44th Ave
Wheat Ridge, CO 80033
Telephone Number: 303-433-0479
Email Address: gcongron@eagle-env.com

Project Manager: Grace Congdon
Project Name: Sandau #34-12F
Project Number: [none]
Samples Collected By: AH

ORIGINS
LABORATORY, INC

4408163

page 1 of 1

www.originslaboratory.com

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

Grace Congdon
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: 4408163

Client: Eagle

Client Project ID: Sandau #34-12F

Checklist Completed by: TJH/124

Shipped Via: TJD

(UPS, FedEx, Hand Delivered, Pick-up, etc.)

Date/time completed: 8/7/12

Airbill #: N/A

Matrix(s) Received: (Check all that apply): ☐ Soil/Solid ☒ Water ☐ Other: _____

Cooler Number/Temperature: 1/51 °C / _____ °C / _____ °C (Describe) _____ °C

Thermometer ID: 1005

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 type="checkbox"/>	<input checked="" 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 type="checkbox"/>	<input checked="" 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 type="checkbox"/>	<input checked="" 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 type="checkbox"/>	<input type="checkbox"/>	<input checked="" 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 type="checkbox"/>	<input type="checkbox"/>	<input checked="" 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) AS

8/7/12
Date/Time Reviewed

Origins Laboratory, Inc.

J. Bynon

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

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

MW-01

8/6/2024 2:30:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y408163-01 (Water)

Anions by IC 300.0

Chloride	266	31.2	mg/L	125	B4H0715	DLT	08/07/2024	08/08/2024	
Sulfate	543	31.2	"	"	"	DLT	"	"	

Total Dissolved Solids by 2540C

Total Dissolved Solids	1850	5.00	"	1	B4H0818	KRM	08/08/2024	08/13/2024	
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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

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

MW-02

8/6/2024 2:05:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
---------	--------	-----------------	-------	----------	-------	---------	----------	----------	-------

Origins Laboratory, Inc. Y408163-02 (Water)

Anions by IC 300.0

Chloride	279	31.2	mg/L	125	B4H0715	DLT	08/07/2024	08/08/2024	
Sulfate	535	31.2	"	"	"	DLT	"	"	

Total Dissolved Solids by 2540C

Total Dissolved Solids	1830	5.00	"	1	B4H0818	KRM	08/08/2024	08/13/2024	
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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

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

MW-03

8/6/2024 2:13:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y408163-03 (Water)

Anions by IC 300.0

Chloride	308	31.2	mg/L	125	B4H0715	DLT	08/07/2024	08/08/2024	
Sulfate	536	31.2	"	"	"	DLT	"	"	

Total Dissolved Solids by 2540C

Total Dissolved Solids	1980	5.00	"	1	B4H0818	KRM	08/08/2024	08/13/2024	
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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

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

MW-04

8/6/2024 2:21:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y408163-04 (Water)

Anions by IC 300.0

Chloride	272	31.2	mg/L	125	B4H0715	DLT	08/07/2024	08/08/2024	
Sulfate	541	31.2	"	"	"	DLT	"	"	

Total Dissolved Solids by 2540C

Total Dissolved Solids	1900	5.00	"	1	B4H0818	KRM	08/08/2024	08/13/2024	
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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

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

MW-05

8/6/2024 1:55:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y408163-05 (Water)

Anions by IC 300.0

Chloride	279	31.2	mg/L	125	B4H0715	DLT	08/07/2024	08/08/2024	
Sulfate	527	31.2	"	"	"	DLT	"	"	

Total Dissolved Solids by 2540C

Total Dissolved Solids	1930	5.00	"	1	B4H0818	KRM	08/08/2024	08/13/2024	
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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

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

Classical Chemistry Parameters - Quality Control Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B4H0715 - Filter .45um non acidified										
Blank (B4H0715-BLK1)					Prepared: 08/07/2024 Analyzed: 08/08/2024					
Chloride	ND	0.250	mg/L							
Sulfate	ND	0.250	"							
LCS (B4H0715-BS1)					Prepared: 08/07/2024 Analyzed: 08/08/2024					
Chloride	3.85	0.250	mg/L	4.00		96.3	90-110			
Sulfate	3.86	0.250	"	4.00		96.6	90-110			
Matrix Spike (B4H0715-MS1)					Source: Y408151-01		Prepared: 08/07/2024 Analyzed: 08/08/2024			
Chloride	746		mg/L	500	248	99.8	90-110			
Sulfate	1190		"	500	669	103	90-110			
Matrix Spike Dup (B4H0715-MSD1)					Source: Y408151-01		Prepared: 08/07/2024 Analyzed: 08/08/2024			
Chloride	749		mg/L	500	248	100	90-110	0.316	5	
Sulfate	1170		"	500	669	100	90-110	1.44	5	
Batch B4H0818 - NO PREP										
Blank (B4H0818-BLK1)					Prepared: 08/08/2024 Analyzed: 08/13/2024					
Total Dissolved Solids	ND	5.00	mg/L							
LCS (B4H0818-BS1)					Prepared: 08/08/2024 Analyzed: 08/13/2024					
Total Dissolved Solids	998	5.00	mg/L	1020		97.8	90-110			
Duplicate (B4H0818-DUP1)					Source: Y408151-02		Prepared: 08/08/2024 Analyzed: 08/13/2024			
Total Dissolved Solids	492	5.00	mg/L		498			1.21	10	

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

Grace Congdon

Project Number: [none]

Project: Noble - Sandau #34-12F

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.



August 21, 2024

Eagle Environmental Consulting, LLC

Grace Congdon

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - Noble - Sandau #34-12F

Project Number - [none]

Attached are your analytical results for Noble - Sandau #34-12F received by Origins Laboratory, Inc. August 06, 2024. This project is associated with Origins project number Y408164-01.

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

Grace Congdon

Project Number: [none]

Project: Noble - Sandau #34-12F

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-01	Y408164-01	Water	August 6, 2024 14:30	08/06/2024 16:15
MW-02	Y408164-02	Water	August 6, 2024 14:05	08/06/2024 16:15
MW-03	Y408164-03	Water	August 6, 2024 14:13	08/06/2024 16:15
MW-04	Y408164-04	Water	August 6, 2024 14:21	08/06/2024 16:15
MW-05	Y408164-05	Water	August 6, 2024 13:55	08/06/2024 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

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

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

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis	Sample Instructions
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	Air Summa Canister #		
ML-01	8/6/21	1430	3	X								
ML-02		1405										
ML-03		1413										
ML-04		1421										
ML-05		1355										

Requisitioned By:	Date:	Time:	Received By:	Date:	Time:	Turnaround Time:
<i>[Signature]</i>	8/6/21	1615	<i>[Signature]</i>	8/6/21	1615	<input type="checkbox"/> 48 Hr <input type="checkbox"/> 72 Hr <input checked="" type="checkbox"/> Standard

Temp Received: 5.1

Date Results Needed

Client: Eagle Environmental Consulting
Address: 8000 W 44th Ave
Wheat Ridge, CO 80033
Telephone Number: 303-433-0479
Email Address: g.congdon@eagle-enviro.com

Project Manager: Grace Congdon
Project Name: Sandau #34-12F
Project Number: [none]
Samples Collected By: *[Signature]*

ORIGINS
LABORATORY, INC

4408164

www.originslaboratory.com

page 1 of 1

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

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

Origins Laboratory

Sample Receipt Checklist

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

Origins Work Order: 4408164

Client: Eagle

Client Project ID: Sandau #34-12F

Checklist Completed by: JH / JAD

Shipped Via: JAD

(UPS, FedEx, Hand Delivered, Pick-up, etc.)

Date/time completed: 8/7/12

Airbill #: N/A

Matrix(s) Received: (Check all that apply): Soil/Solid ☒ Water ☐ Other: ☐

Cooler Number/Temperature: 1/S.1 °C 1 °C 1 °C (Describe) °C

Thermometer ID: 71005

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 checked="" 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 checked="" 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 checked="" 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 checked="" 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) AS

8/7/12
Date/Time Reviewed

Origins Laboratory, Inc.

J. Bynon

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

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

MW-01

8/6/2024 2:30:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y408164-01 (Water)

BTEX+N+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	2.00	ug/L	1	B4H0637	JSM	08/06/2024	08/07/2024	U
1,3,5-Trimethylbenzene	ND	2.00	"	"	"	JSM	"	"	U
Benzene	ND	1.00	"	"	"	JSM	"	"	U
Ethylbenzene	ND	1.00	"	"	"	JSM	"	"	U
Naphthalene	ND	2.00	"	"	"	JSM	"	"	U
Toluene	ND	1.00	"	"	"	JSM	"	"	U
Xylenes, total	ND	1.00	"	"	"	JSM	"	"	U

Surrogate: 1,2-Dichloroethane-d4	114 %	70-130	"	"	"
Surrogate: Toluene-d8	102 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	105 %	70-130	"	"	"

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

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

MW-02

8/6/2024 2:05:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y408164-02 (Water)

BTEX+N+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	2.00	ug/L	1	B4H0637	JSM	08/06/2024	08/07/2024	U
1,3,5-Trimethylbenzene	ND	2.00	"	"	"	JSM	"	"	U
Benzene	ND	1.00	"	"	"	JSM	"	"	U
Ethylbenzene	ND	1.00	"	"	"	JSM	"	"	U
Naphthalene	ND	2.00	"	"	"	JSM	"	"	U
Toluene	ND	1.00	"	"	"	JSM	"	"	U
Xylenes, total	ND	1.00	"	"	"	JSM	"	"	U

Surrogate: 1,2-Dichloroethane-d4	115 %	70-130	"	"	"
Surrogate: Toluene-d8	99.9 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	105 %	70-130	"	"	"

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

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

MW-03

8/6/2024 2:13:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y408164-03 (Water)

BTEX+N+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	2.00	ug/L	1	B4H0637	JSM	08/06/2024	08/07/2024	U
1,3,5-Trimethylbenzene	ND	2.00	"	"	"	JSM	"	"	U
Benzene	ND	1.00	"	"	"	JSM	"	"	U
Ethylbenzene	ND	1.00	"	"	"	JSM	"	"	U
Naphthalene	ND	2.00	"	"	"	JSM	"	"	U
Toluene	ND	1.00	"	"	"	JSM	"	"	U
Xylenes, total	ND	1.00	"	"	"	JSM	"	"	U

Surrogate: 1,2-Dichloroethane-d4	113 %	70-130	"	"	"
Surrogate: Toluene-d8	99.8 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	105 %	70-130	"	"	"

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

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

MW-04

8/6/2024 2:21:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y408164-04 (Water)

BTEX+N+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	2.00	ug/L	1	B4H0637	JSM	08/06/2024	08/07/2024	U
1,3,5-Trimethylbenzene	ND	2.00	"	"	"	JSM	"	"	U
Benzene	ND	1.00	"	"	"	JSM	"	"	U
Ethylbenzene	ND	1.00	"	"	"	JSM	"	"	U
Naphthalene	ND	2.00	"	"	"	JSM	"	"	U
Toluene	ND	1.00	"	"	"	JSM	"	"	U
Xylenes, total	ND	1.00	"	"	"	JSM	"	"	U

Surrogate: 1,2-Dichloroethane-d4	118 %	70-130	"	"	"
Surrogate: Toluene-d8	101 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	113 %	70-130	"	"	"

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

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

MW-05

8/6/2024 1:55:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y408164-05 (Water)

BTEX+N+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	2.00	ug/L	1	B4H0637	JSM	08/06/2024	08/07/2024	U
1,3,5-Trimethylbenzene	ND	2.00	"	"	"	JSM	"	"	U
Benzene	ND	1.00	"	"	"	JSM	"	"	U
Ethylbenzene	ND	1.00	"	"	"	JSM	"	"	U
Naphthalene	ND	2.00	"	"	"	JSM	"	"	U
Toluene	ND	1.00	"	"	"	JSM	"	"	U
Xylenes, total	ND	1.00	"	"	"	JSM	"	"	U

Surrogate: 1,2-Dichloroethane-d4	112 %	70-130	"	"	"
Surrogate: Toluene-d8	102 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	106 %	70-130	"	"	"

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

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

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B4H0637 - EPA 5030B (Water)										
Blank (B4H0637-BLK1)					Prepared: 08/06/2024 Analyzed: 08/07/2024					
1,2,4-Trimethylbenzene	ND	2.00	ug/L							U
1,3,5-Trimethylbenzene	ND	2.00	"							U
Benzene	ND	1.00	"							U
Ethylbenzene	ND	1.00	"							U
Naphthalene	ND	2.00	"							U
Toluene	ND	1.00	"							U
Xylenes, total	ND	1.00	"							U
Surrogate: 1,2-Dichloroethane-d4	69		"	62.5		110	70-130			
Surrogate: Toluene-d8	63		"	62.5		101	70-130			
Surrogate: 4-Bromofluorobenzene	65		"	62.5		104	70-130			

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

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

Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control

Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B4H0637 - EPA 5030B (Water)										
LCS (B4H0637-BS1)					Prepared: 08/06/2024 Analyzed: 08/07/2024					
1,2,4-Trimethylbenzene	48.7	2.00	ug/L	50.0		97.3	70-130			
1,3,5-Trimethylbenzene	49.8	2.00	"	50.0		99.5	70-130			
Benzene	46.6	1.00	"	50.0		93.1	70-130			
Ethylbenzene	58.1	1.00	"	50.0		116	70-130			
m,p-Xylene	105	2.00	"	100		105	70-130			
Naphthalene	42.0	2.00	"	50.0		84.1	70-130			
o-Xylene	48.6	1.00	"	50.0		97.2	70-130			
Toluene	49.7	1.00	"	50.0		99.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	74		"	62.5		119	70-130			
Surrogate: Toluene-d8	62		"	62.5		99.9	70-130			
Surrogate: 4-Bromofluorobenzene	68		"	62.5		110	70-130			

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

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

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 B4H0637 - EPA 5030B (Water)

Matrix Spike (B4H0637-MS1)		Source: Y408151-08			Prepared: 08/06/2024 Analyzed: 08/07/2024					
1,2,4-Trimethylbenzene	54.6	2.00	ug/L	50.0	0.250	109	70-130			
1,3,5-Trimethylbenzene	55.5	2.00	"	50.0	0.220	111	70-130			
Benzene	49.7	1.00	"	50.0	ND	99.4	70-130			
Ethylbenzene	64.0	1.00	"	50.0	ND	128	70-130			
m,p-Xylene	118	2.00	"	100	0.350	117	70-130			
Naphthalene	41.3	2.00	"	50.0	ND	82.7	70-130			
o-Xylene	55.0	1.00	"	50.0	ND	110	70-130			
Toluene	54.4	1.00	"	50.0	ND	109	70-130			
Surrogate: 1,2-Dichloroethane-d4	69		"	62.5		111	70-130			
Surrogate: Toluene-d8	64		"	62.5		102	70-130			
Surrogate: 4-Bromofluorobenzene	71		"	62.5		113	70-130			

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

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

Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control

Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B4H0637 - EPA 5030B (Water)										
Matrix Spike Dup (B4H0637-MSD1)			Source: Y408151-08		Prepared: 08/06/2024 Analyzed: 08/07/2024					
1,2,4-Trimethylbenzene	54.2	2.00	ug/L	50.0	0.250	108	70-130	0.808	20	
1,3,5-Trimethylbenzene	55.1	2.00	"	50.0	0.220	110	70-130	0.814	20	
Benzene	48.6	1.00	"	50.0	ND	97.2	70-130	2.26	20	
Ethylbenzene	64.1	1.00	"	50.0	ND	128	70-130	0.281	20	
m,p-Xylene	117	2.00	"	100	0.350	116	70-130	0.837	20	
Naphthalene	45.0	2.00	"	50.0	ND	90.0	70-130	8.48	20	
o-Xylene	54.7	1.00	"	50.0	ND	109	70-130	0.565	20	
Toluene	53.2	1.00	"	50.0	ND	106	70-130	2.25	20	
Surrogate: 1,2-Dichloroethane-d4	70		"	62.5		113	70-130			
Surrogate: Toluene-d8	62		"	62.5		99.6	70-130			
Surrogate: 4-Bromofluorobenzene	71		"	62.5		114	70-130			

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

Grace Congdon

Project Number: [none]

Project: Noble - Sandau #34-12F

Notes and Definitions

U Sample is Non-Detect.

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.



August 21, 2024

Eagle Environmental Consulting, LLC

Grace Congdon

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - Noble - Sandau #34-12F

Project Number - [none]

Attached are your analytical results for Noble - Sandau #34-12F received by Origins Laboratory, Inc. August 06, 2024. This project is associated with Origins project number Y408165-01.

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

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

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-01	Y408165-01	Water	August 6, 2024 14:30	08/06/2024 16:15
MW-02	Y408165-02	Water	August 6, 2024 14:05	08/06/2024 16:15
MW-03	Y408165-03	Water	August 6, 2024 14:13	08/06/2024 16:15
MW-04	Y408165-04	Water	August 6, 2024 14:21	08/06/2024 16:15
MW-05	Y408165-05	Water	August 6, 2024 13:55	08/06/2024 16:15

Origins Laboratory, Inc.



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

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

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

ORIGINS
LABORATORY, INC

www.originslaboratory.com

page 1 of 1

4408165

Client: Eagle Environmental Consulting
Address: 8000 W 44th Ave
Wheat Ridge CO 80033
Telephone Number: 303-433-0479
Email Address: gcongron@eagle-env.com

Project Manager: Grace Congdon
Project Name: Sandau #34-12F
Project Number: 111
Samples Collected By: 111

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis	Sample Instructions	
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	Air Summa Canister #			
MW-01	8/6/24	1430	3	X									1
MW-02		1405	1										2
MW-03		1413	1										3
MW-04		1421	1										4
MW-05		1355	1										5

Requisitioned By: [Signature] Date: 8/6/24 Time: 1615
Received By: [Signature] Date: 8/6/24 Time: 1615
Turnaround Time: ☐ 48 Hr ☐ 24 Hr ☒ Standard

Temp Received: 5.1 Date Results Needed

Origins Laboratory, Inc.

J. Bynon

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

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

Origins Laboratory

Sample Receipt Checklist

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

Origins Work Order: 4408165

Client: Eagle

Client Project ID: Sandau #34-12F

Checklist Completed by: WJ/124

Shipped Via: HL

Date/time completed: 8/7/12

(UPS, FedEx, Hand Delivered, Pick-up, etc.)

Airbill #: N/A

Matrix(s) Received: (Check all that apply): Soil/Solid

X Water Other: _____

Cooler Number/Temperature: 15-1 °C / _____ °C / _____ °C (Describe) _____ °C

Thermometer ID: 1005

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 type="checkbox"/>	<input checked="" 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 type="checkbox"/>	<input checked="" 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 type="checkbox"/>	<input checked="" 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 type="checkbox"/>	<input checked="" 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) ASG

8/7/12
Date/Time Reviewed

Origins Laboratory, Inc.

J. Bynon

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

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

MW-01

8/6/2024 2:30:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y408165-01 (Water)

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.200	ug/L	1	B4H1223	agile	08/12/2024	08/13/2024	U
Surrogate: Fluorene-d10	102 %	60-130			"	"		"	
Surrogate: Anthracene-d10	95.3 %	60-130			"	"		"	
Surrogate: Benzo (a) pyrene-d12	93.8 %	60-130			"	"		"	
Surrogate: Pyrene-d10	108 %	60-130			"	"		"	

Origins Laboratory, Inc.



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

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

MW-02

8/6/2024 2:05:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y408165-02 (Water)

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.200	ug/L	1	B4H1223	agile	08/12/2024	08/13/2024	U
Surrogate: Fluorene-d10	104 %	60-130			"	"		"	
Surrogate: Anthracene-d10	89.6 %	60-130			"	"		"	
Surrogate: Benzo (a) pyrene-d12	99.2 %	60-130			"	"		"	
Surrogate: Pyrene-d10	102 %	60-130			"	"		"	

Origins Laboratory, Inc.



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

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

MW-03

8/6/2024 2:13:00PM

Analyte	Result	Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y408165-03 (Water)

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.200	ug/L	1	B4H1223	agile	08/12/2024	08/13/2024	U
Surrogate: Fluorene-d10	102 %	60-130			"	"		"	
Surrogate: Anthracene-d10	96.1 %	60-130			"	"		"	
Surrogate: Benzo (a) pyrene-d12	96.4 %	60-130			"	"		"	
Surrogate: Pyrene-d10	106 %	60-130			"	"		"	

Origins Laboratory, Inc.



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

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

MW-04

8/6/2024 2:21:00PM

Analyte	Result	Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y408165-04 (Water)

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.200	ug/L	1	B4H1223	agile	08/12/2024	08/13/2024	U
Surrogate: Fluorene-d10	103 %	60-130			"	"		"	
Surrogate: Anthracene-d10	95.6 %	60-130			"	"		"	
Surrogate: Benzo (a) pyrene-d12	99.0 %	60-130			"	"		"	
Surrogate: Pyrene-d10	108 %	60-130			"	"		"	

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

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

MW-05

8/6/2024 1:55:00PM

Analyte	Result	Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y408165-05 (Water)

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.200	ug/L	1	B4H1223	agile	08/12/2024	08/13/2024	U
Surrogate: Fluorene-d10	103 %	60-130			"	"		"	
Surrogate: Anthracene-d10	95.7 %	60-130			"	"		"	
Surrogate: Benzo (a) pyrene-d12	99.6 %	60-130			"	"		"	
Surrogate: Pyrene-d10	108 %	60-130			"	"		"	

Origins Laboratory, Inc.



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

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

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 B4H1223 - EPA 3510C_MS

Blank (B4H1223-BLK1)

Prepared: 08/12/2024 Analyzed: 08/13/2024

1-Methylnaphthalene	ND	0.200	ug/L							U
2-Methylnaphthalene	ND	0.200	"							U
Acenaphthene	ND	2.00	"							U
Anthracene	ND	2.00	"							U
Benzo (a) anthracene	ND	0.500	"							U
Benzo (a) pyrene	ND	2.00	"							U
Benzo (b) fluoranthene	ND	2.00	"							U
Benzo (g,h,i) perylene	ND	2.00	"							U
Benzo (k) fluoranthene	ND	2.00	"							U
Chrysene	ND	2.00	"							U
Dibenz (a,h) anthracene	ND	2.00	"							U
Fluoranthene	ND	2.00	"							U
Fluorene	ND	2.00	"							U
Indeno (1,2,3-cd) pyrene	ND	2.00	"							U
Naphthalene	ND	0.200	"							U
Phenanthrene	ND	2.00	"							U
Pyrene	ND	2.00	"							U
Surrogate: Fluorene-d10	200		"	200		97.7	60-130			
Surrogate: Anthracene-d10	190		"	200		97.3	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		101	60-130			
Surrogate: Pyrene-d10	210		"	200		106	60-130			

LCS (B4H1223-BS1)

Prepared: 08/12/2024 Analyzed: 08/13/2024

1-Methylnaphthalene	19.1	0.200	ug/L	20.0		95.5	70-130			
2-Methylnaphthalene	18.8	0.200	"	20.0		94.1	70-130			
Acenaphthene	19.6	2.00	"	20.0		98.1	70-130			
Anthracene	18.4	2.00	"	20.0		91.9	70-130			

Origins Laboratory, Inc.



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

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

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
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch B4H1223 - EPA 3510C_MS

LCS (B4H1223-BS1)

Prepared: 08/12/2024 Analyzed: 08/13/2024

Benzo (a) anthracene	18.9	0.500	ug/L	20.0		94.5	70-130			
Benzo (a) pyrene	18.5	2.00	"	20.0		92.5	70-130			
Benzo (b) fluoranthene	20.5	2.00	"	20.0		102	70-130			
Benzo (g,h,i) perylene	18.6	2.00	"	20.0		93.1	70-130			
Benzo (k) fluoranthene	19.6	2.00	"	20.0		98.1	70-130			
Chrysene	19.1	2.00	"	20.0		95.6	70-130			
Dibenz (a,h) anthracene	18.4	2.00	"	20.0		92.1	70-130			
Fluoranthene	20.3	2.00	"	20.0		102	70-130			
Fluorene	19.5	2.00	"	20.0		97.3	70-130			
Indeno (1,2,3-cd) pyrene	21.9	2.00	"	20.0		109	70-130			
Naphthalene	21.6	0.200	"	20.0		108	70-130			
Phenanthrene	19.7	2.00	"	20.0		98.3	70-130			
Pyrene	20.2	2.00	"	20.0		101	70-130			
Surrogate: Fluorene-d10	200		"	200		101	60-130			
Surrogate: Anthracene-d10	200		"	200		98.9	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		102	60-130			
Surrogate: Pyrene-d10	210		"	200		104	60-130			

LCS Dup (B4H1223-BSD1)

Prepared: 08/12/2024 Analyzed: 08/13/2024

1-Methylnaphthalene	19.2	0.200	ug/L	20.0		95.9	70-130	0.438	20	
2-Methylnaphthalene	19.0	0.200	"	20.0		95.2	70-130	1.22	20	
Acenaphthene	19.9	2.00	"	20.0		99.7	70-130	1.61	20	
Anthracene	18.5	2.00	"	20.0		92.4	70-130	0.512	20	
Benzo (a) anthracene	18.7	0.500	"	20.0		93.7	70-130	0.796	20	
Benzo (a) pyrene	18.5	2.00	"	20.0		92.7	70-130	0.194	20	
Benzo (b) fluoranthene	21.1	2.00	"	20.0		106	70-130	3.18	20	
Benzo (g,h,i) perylene	19.3	2.00	"	20.0		96.5	70-130	3.52	20	

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

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

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
Batch B4H1223 - EPA 3510C_MS										
LCS Dup (B4H1223-BSD1)					Prepared: 08/12/2024 Analyzed: 08/13/2024					
Benzo (k) fluoranthene	19.9	2.00	ug/L	20.0		99.7	70-130	1.60	20	
Chrysene	18.8	2.00	"	20.0		94.2	70-130	1.47	20	
Dibenz (a,h) anthracene	19.8	2.00	"	20.0		99.2	70-130	7.45	20	
Fluoranthene	20.8	2.00	"	20.0		104	70-130	2.59	20	
Fluorene	20.0	2.00	"	20.0		99.8	70-130	2.59	20	
Indeno (1,2,3-cd) pyrene	20.3	2.00	"	20.0		101	70-130	7.68	20	
Naphthalene	19.7	0.200	"	20.0		98.7	70-130	9.02	20	
Phenanthrene	19.6	2.00	"	20.0		97.8	70-130	0.442	20	
Pyrene	20.7	2.00	"	20.0		104	70-130	2.44	20	
Surrogate: Fluorene-d10	200		"	200		102	60-130			
Surrogate: Anthracene-d10	200		"	200		98.1	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		100	60-130			
Surrogate: Pyrene-d10	210		"	200		106	60-130			

Origins Laboratory, Inc.



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Eagle Environmental Consulting, LLC

8000 W 44th Ave

Wheat Ridge CO 80033

Grace Congdon

Project Number: [none]

Project: Noble - Sandau #34-12F

Notes and Definitions

U Sample is Non-Detect.

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.



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