



## **FIGURES**

**Figure 1: Groundwater Analytical Map (08/12/24)**

**Figure 2: Groundwater Elevation Map (08/12/24)**

# LEGEND

--- WATER VAULT 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)

B(a)P = Benzo(a)Pyrene

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:

GROUNDWATER SAMPLES WERE COLLECTED 08/12/24.

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

VALUES PRESENTED WITH AN ASTERISK SYMBOL (\*) INDICATE LABORATORY MINIMUM DETECTION LIMITS IN EXCESS OF ECMC TABLE 915-1 REGULATORY LIMITS

VALUES PRESENTED IN **BOLD** EXCEED THE ECMC TABLE 915-1 REGULATORY LIMITS FOR THAT COMPOUND

ECMC = ENERGY & CARBON MANAGEMENT COMMISSION

## GROUNDWATER ANALYTICAL MAP

(08/12/24)

LOUSTELET T5N-R64W-S15 L01 TANK BATTERY

HISTORICAL RELEASE

40.395146 / -104.536147

SE¼ SW¼ SEC.15 T5N R64W 6PM

WELD COUNTY, COLORADO

REMEDATION # 23570

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

MW-06  
08/12/24  
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  
B(a)P = <0.500\*  
C = 110  
S = 325  
TDS = 956

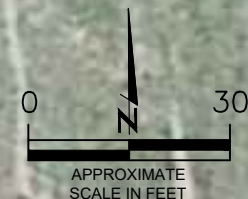
MW-02  
08/12/24  
B = <1.00  
T = <1.00  
E = <1.00  
X = <1.00  
N = <2.00  
1,2,4-TMB = <2.00  
1,3,5-TMB = <2.00  
B(a)P = <0.500\*  
C = 105  
S = 306  
TDS = 920

MW-01  
08/12/24  
B = 1.30  
T = <1.00  
E = <1.00  
X = 13.2  
N = <2.00  
1,2,4-TMB = 2.12  
1,3,5-TMB = <2.00  
B(a)P = <0.500\*  
C = 106  
S = 307  
TDS = 834

MW-03  
08/12/24  
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  
B(a)P = <0.500\*  
C = 105  
S = 305  
TDS = 904

MW-05  
08/12/24  
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  
B(a)P = <0.500\*  
C = 105  
S = 305  
TDS = 904

MW-04  
08/12/24  
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  
B(a)P = <0.500\*  
C = 99.5  
S = 281  
TDS = 834



APPROXIMATE  
SCALE IN FEET

LEGEND

---

WATER VAULT ASSESSMENT BOUNDARIES

MONITORING WELL LOCATIONS

(89.25)

RELATIVE GROUNDWATER ELEVATION (FT.)

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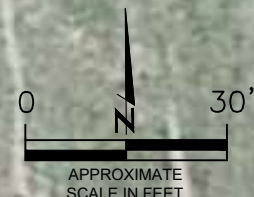
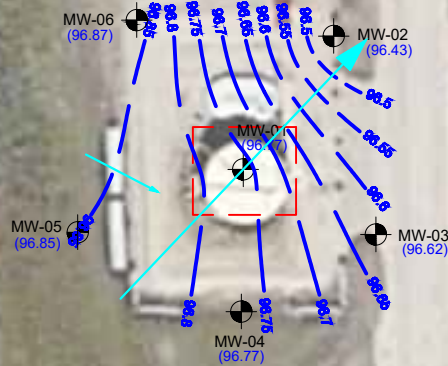
INFERRED GROUNDWATER ELEVATION CONTOUR (FT.)

APPROXIMATE GROUNDWATER FLOW DIRECTION

FT. = FEET

NOTE:  
GROUNDWATER ELEVATION DATA WAS COLLECTED ON 08/12/24.

BACKGROUND: GOOGLE EARTH AERIAL IMAGERY JUNE 2016



GROUNDWATER CONTOUR MAP  
(08/12/24)

LOUSTELET T5N-R64W-S15 L01 TANK BATTERY  
HISTORICAL RELEASE  
40.395146 / -104.536147  
SE¼ SW¼ SEC.15 T5N R64W 6PM  
WELD COUNTY, COLORADO  
REMEDIATION # 23570

FIGURE NO. 2	 <div> <div>EAGLE</div> <div>ENVIRONMENTAL CONSULTING, LLC</div> <div>8000 W 44th Ave, Wheat Ridge, CO 80033 Ph: 303-433-0479 • F: 303-325-5449</div> </div>
DRAWN BY: RS	



## **TABLES**

**Table 1: Summary of Groundwater Elevation Data and Organic Chemistry Data**

**Table 2: Summary of Inorganic Groundwater Chemistry Data**



TABLE 1  
SUMMARY OF GROUNDWATER ELEVATION DATA AND ORGANIC CHEMISTRY DATA  
LOUSTELET T5N-R64W-S15 L01 TANK BATTERY  
HISTORICAL RELEASE  
40.395041 / -104.536099  
SE¼ SW¼ S15 T5N R64W  
WELD COUNTY, COLORADO  
LOCATION ID 447669  
REM # 23570

Sample ID	Sample Date	Benzene (µg/L)	Toluene (µg/L)	Ethyl-Benzene (µg/L)	Xylenes (µg/L)	Naphthalene (µg/L)	1,2,4- Trimethyl- Benzene (µg/L)	1,3,5- Trimethyl- Benzene (µg/L)	Benzo(a)anthr acene (µg/L)	TOC Elevation (ft)	Depth to Groundwater Below TOC (ft)	Depth to Groundwater Below Ground Surface (ft)	Groundwater Elevation (ft)	LNAPL Thickness (ft)
ECMC Table 915-1 Limits		5.0	560	700	1400	140	67	67	0.011					
MW-01	05/02/24	8.62	1.82	54.4	375	8.61	168	76.1	NA	99.82	1.58	1.58	98.24	NP
	08/12/24	1.30	<1.00	<1.00	13.2	<2.00	2.12	<2.00	<0.500*		3.05	3.05	96.77	NP
MW-02	05/02/24	<1.00	<1.00	<1.00	<1.00	<2.00	<2.00	<2.00	NA	100	1.68	1.68	98.32	NP
	08/12/24	<1.00	<1.00	<1.00	<1.00	<2.00	<2.00	<2.00	<0.500*		3.57	3.57	96.43	NP
MW-03	05/02/24	<1.00	<1.00	<1.00	<1.00	<2.00	<2.00	<2.00	NA	99.83	1.66	1.66	98.17	NP
	08/12/24	<1.00	<1.00	<1.00	<1.00	<2.00	<2.00	<2.00	<0.500*		3.21	3.21	96.62	NP
MW-04	05/02/24	<1.00	<1.00	<1.00	<1.00	<2.00	<2.00	<2.00	NA	99.58	1.40	1.40	98.18	NP
	08/12/24	<1.00	<1.00	<1.00	<1.00	<2.00	<2.00	<2.00	<0.500*		2.81	2.81	96.77	NP
MW-05	05/02/24	<1.00	<1.00	<1.00	<1.00	<2.00	<2.00	<2.00	NA	99.37	1.08	1.08	98.29	NP
	08/12/24	<1.00	<1.00	<1.00	<1.00	<2.00	<2.00	<2.00	<0.500*		2.52	2.52	96.85	NP
MW-06	05/02/24	<1.00	<1.00	<1.00	<1.00	<2.00	<2.00	<2.00	NA	99.99	1.50	1.50	98.49	NP
	08/12/24	<1.00	<1.00	<1.00	<1.00	<2.00	<2.00	<2.00	<0.500*		3.12	3.12	96.87	NP

1. Bold values exceed the ECMC limit(s)

2. Red highlighted groundwater analytical values indicate a regulatory exceedance

\* Indicates laboratory minimum detection limit in excess of Table 915-1 Limits

NP - No measurable LNAPL, NA - Not Analyzed, INA - Inaccessible, IW - Insufficient Water, DES - Destroyed



**TABLE 2**  
**SUMMARY OF INORGANIC GROUNDWATER CHEMISTRY DATA**  
**LOUSTELET T5N-R64W-S15 L01 TANK BATTERY**  
**HISTORICAL RELEASE**  
**40.395041 / -104.536099**  
**SE¼ SW¼ S15 T5N R64W**  
**WELD COUNTY, COLORADO**  
**LOCATION ID 447669**  
**REM # 23570**

Sample ID	Sample Date	Total Dissolved Solids (mg/L)	Chloride Ion (mg/L)	Sulfate Ion (mg/L)
ECMC Table 915-1 Limits		<1.25 x local background	250 or <1.25 x local background	250 or <1.25 x local background
MW-1	5/2/24	894	140	402
	8/12/24	834	106	307
MW-02	5/2/24	948	144	445
	8/12/24	920	105	306
MW-03	5/2/24	844	129	372
	8/12/24	904	105	305
MW-04	5/2/24	868	131	384
	8/12/24	834	99.5	281
MW-05	5/2/24	900	130	378
	8/12/24	904	105	305
MW-06	5/2/24	876	134	379
	8/12/24	956	110	325
Background Concentration (Current)		1130	163	473

1. Bold values exceed the ECMC limit(s)

2. Blue highlighted groundwater analytical values indicate a regulatory exceedance

NP - No measurable LNAPL, NA - Not Analyzed, INA - Inaccessible, IW - Insufficient Water, DES - Destroyed





## **ATTACHMENT A**

### **Laboratory Analytical Reports**



August 26, 2024

Eagle Environmental Consulting, LLC

Grace Congdon

8000 W 44th Ave

Wheat Ridge CO 80033

**Project Name - Noble - Loustelet T5N-R64W-S15 L01 TB**      **Project Number - [none]**

Attached are your analytical results for Noble - Loustelet T5N-R64W-S15 L01 TB received by Origins Laboratory, Inc. August 12, 2024. This project is associated with Origins project number Y408279-01.

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 - Loustelet T5N-R64W-S15 L01 TB

### CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-01	Y408279-01	Water	August 12, 2024 11:05	08/12/2024 14:30
MW-02	Y408279-02	Water	August 12, 2024 11:20	08/12/2024 14:30
MW-03	Y408279-03	Water	August 12, 2024 11:35	08/12/2024 14:30
MW-04	Y408279-04	Water	August 12, 2024 11:50	08/12/2024 14:30
MW-05	Y408279-05	Water	August 12, 2024 12:05	08/12/2024 14:30
MW-06	Y408279-06	Water	August 12, 2024 12:20	08/12/2024 14:30

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 - Loustelet T5N-R64W-S15 L01 TB

ORIGINS LABORATORY, INC

Client: Eagle Environmental Consulting

Address: 8000 W 44th Ave

West Elkhart, CO 80033

Telephone Number: 303-433-2294

Email Address: grace@eagle-env.com

Project Manager: Grace Congdon

Project Name: Loustelet T5N-R64W-S15 L01 TB

Project Number: 1408279

Collected By: SL

Invoice/Billing Info: Noble Bill to Don

Key: W=Water  
GW=Groundwater  
SW=Surface Water  
WW=Waste Water  
L=Liquid

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

#	Sample ID	Date Sampled	Time Sampled	# of Containers	Matrix	Preservative	Analysis										Comments	
							1	2	3	4	5	6	7	8	9	10		
1	ML-01	8/10/14	1105	1	UNP	X	X	X										
2	ML-02	8/10/14	1105	1	UNP	X	X	X										
3	ML-03	8/10/14	1135	1	UNP	X	X	X										
4	ML-04	8/10/14	1150	1	UNP	X	X	X										
5	ML-05	8/10/14	1205	1	UNP	X	X	X										
6	ML-06	8/10/14	1200	1	UNP	X	X	X										
7																		
8																		
9																		
10																		

Relinquished By: [Signature] Date: 8/10/14 Time: 1430

Received By: [Signature] Date: 8/12/14 Time: 1430

Turnaround Time: ☐ SAME DAY ☐ 24 Hr ☐ 48 Hr ☐ 72 Hr

Temp Received: 8 Received On Ice? ☒ Yes ☐ No

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

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 - Loustelet T5N-R64W-S15 L01 TB

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

**Sample Receipt Checklist**

Origins Work Order: 4408279 Client: Eagle  
Client Project ID: Loustelet

Checklist Completed by: 410 Shipped Via: 410  
Date/time completed: 8/1/12 (UPS, FedEx, Hand Delivered, Pick-up, etc.)  
Airbill #: N/A

Matrix(s) Received: (Check all that apply): Soil/Solid Water Other: \_\_\_\_\_  
Cooler Number/Temperature: 1/8 °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 <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		<u>SD</u>
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
Were all samples received intact <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
Was adequate sample volume provided <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
Are short holding time analytes or samples with HTs due within 48 hours present <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
Is a chain-of-custody (COC) present and filled out completely <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
Does the COC agree with the number and type of sample bottles received <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
Do the sample IDs on the bottle labels match the COC <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
Is the COC properly relinquished by the client with date and time recorded <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input checked="" 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"/>		
Are samples preserved that require preservation and was it checked <sup>(1)</sup> ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)/(pH <2 for samples preserved with HNO <sub>3</sub> , HCl, H <sub>2</sub> SO <sub>4</sub> ) / (pH >10 for samples preserved with NaAsO <sub>2</sub> +NaOH, ZnAc+NaOH)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
Additional Comments (if any):				

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

Reviewed by (Project Manager) AR

8/14/12  
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 - Loustelet T5N-R64W-S15 L01 TB

**MW-01**

**8/12/2024 11:05:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y408279-01 (Water)**

**Anions by IC 300.0**

Chloride	106	31.2	mg/L	125	B4H1403	DLT	08/14/2024	08/15/2024	
Sulfate	307	31.2	"	"	"	DLT	"	"	

**Total Dissolved Solids by 2540C**

Total Dissolved Solids	834	5.00	"	1	B4H1405	EAL	08/14/2024	08/15/2024	
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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 - Loustelet T5N-R64W-S15 L01 TB

**MW-02**

**8/12/2024 11:20:00AM**

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

**Origins Laboratory, Inc.**  
**Y408279-02 (Water)**

**Anions by IC 300.0**

Chloride	105	31.2	mg/L	125	B4H1403	DLT	08/14/2024	08/15/2024	
Sulfate	306	31.2	"	"	"	DLT	"	"	

**Total Dissolved Solids by 2540C**

Total Dissolved Solids	920	5.00	"	1	B4H1405	EAL	08/14/2024	08/15/2024	
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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 - Loustelet T5N-R64W-S15 L01 TB

**MW-03**

**8/12/2024 11:35:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y408279-03 (Water)**

**Anions by IC 300.0**

Chloride	105	31.2	mg/L	125	B4H1403	DLT	08/14/2024	08/15/2024	
Sulfate	305	31.2	"	"	"	DLT	"	"	

**Total Dissolved Solids by 2540C**

Total Dissolved Solids	904	5.00	"	1	B4H1405	EAL	08/14/2024	08/15/2024	
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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 - Loustelet T5N-R64W-S15 L01 TB

**MW-04**

**8/12/2024 11:50:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y408279-04 (Water)**

**Anions by IC 300.0**

Chloride	99.5	31.2	mg/L	125	B4H1403	DLT	08/14/2024	08/15/2024	
Sulfate	281	31.2	"	"	"	DLT	"	"	

**Total Dissolved Solids by 2540C**

Total Dissolved Solids	834	5.00	"	1	B4H1405	EAL	08/14/2024	08/15/2024	
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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 - Loustelet T5N-R64W-S15 L01 TB

**MW-05**

**8/12/2024 12:05:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y408279-05 (Water)**

**Anions by IC 300.0**

Chloride	105	31.2	mg/L	125	B4H1403	DLT	08/14/2024	08/15/2024	
Sulfate	305	31.2	"	"	"	DLT	"	"	

**Total Dissolved Solids by 2540C**

Total Dissolved Solids	904	5.00	"	1	B4H1405	EAL	08/14/2024	08/15/2024	
------------------------	-----	------	---	---	---------	-----	------------	------------	--

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 - Loustelet T5N-R64W-S15 L01 TB

**MW-06**

**8/12/2024 12:20:00PM**

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

**Origins Laboratory, Inc.**  
**Y408279-06 (Water)**

**Anions by IC 300.0**

Chloride	110	31.2	mg/L	125	B4H1403	DLT	08/14/2024	08/15/2024	
Sulfate	325	31.2	"	"	"	DLT	"	"	

**Total Dissolved Solids by 2540C**

Total Dissolved Solids	956	5.00	"	1	B4H1405	EAL	08/14/2024	08/15/2024	
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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 - Loustelet T5N-R64W-S15 L01 TB

**Classical Chemistry Parameters - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B4H1403 - Filter .45um non acidified</b>										
<b>Blank (B4H1403-BLK1)</b>					Prepared: 08/14/2024 Analyzed: 08/15/2024					
Chloride	ND	0.250	mg/L							
Sulfate	ND	0.250	"							
<b>LCS (B4H1403-BS1)</b>					Prepared: 08/14/2024 Analyzed: 08/15/2024					
Chloride	3.73	0.250	mg/L	4.00		93.3	90-110			
Sulfate	3.83	0.250	"	4.00		95.8	90-110			
<b>Matrix Spike (B4H1403-MS1)</b>					<b>Source: Y408279-01</b>		Prepared: 08/14/2024 Analyzed: 08/15/2024			
Chloride	594		mg/L	500	106	97.6	90-110			
Sulfate	808		"	500	307	100	90-110			
<b>Matrix Spike Dup (B4H1403-MSD1)</b>					<b>Source: Y408279-01</b>		Prepared: 08/14/2024 Analyzed: 08/15/2024			
Chloride	595		mg/L	500	106	97.8	90-110	0.137	5	
Sulfate	809		"	500	307	101	90-110	0.176	5	
<b>Batch B4H1405 - NO PREP</b>										
<b>Blank (B4H1405-BLK1)</b>					Prepared: 08/14/2024 Analyzed: 08/15/2024					
Total Dissolved Solids	ND	5.00	mg/L							
<b>LCS (B4H1405-BS1)</b>					Prepared: 08/14/2024 Analyzed: 08/15/2024					
Total Dissolved Solids	1020	5.00	mg/L	1020		99.6	90-110			
<b>Duplicate (B4H1405-DUP1)</b>					<b>Source: Y408279-01</b>		Prepared: 08/14/2024 Analyzed: 08/15/2024			
Total Dissolved Solids	910	5.00	mg/L		834			8.72	10	

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 - Loustelet T5N-R64W-S15 L01 TB

### 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 26, 2024

Eagle Environmental Consulting, LLC

Grace Congdon

8000 W 44th Ave

Wheat Ridge CO 80033

**Project Name - Noble - Loustelet T5N-R64W-S15 L01 TB**      **Project Number - [none]**

Attached are your analytical results for Noble - Loustelet T5N-R64W-S15 L01 TB received by Origins Laboratory, Inc. August 12, 2024. This project is associated with Origins project number Y408280-01.

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 - Loustelet T5N-R64W-S15 L01 TB

### CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-01	Y408280-01	Water	August 12, 2024 11:05	08/12/2024 14:30
MW-02	Y408280-02	Water	August 12, 2024 11:20	08/12/2024 14:30
MW-03	Y408280-03	Water	August 12, 2024 11:35	08/12/2024 14:30
MW-04	Y408280-04	Water	August 12, 2024 11:50	08/12/2024 14:30
MW-05	Y408280-05	Water	August 12, 2024 12:05	08/12/2024 14:30
MW-06	Y408280-06	Water	August 12, 2024 12:20	08/12/2024 14:30

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 - Loustelet T5N-R64W-S15 L01 TB

## ORIGINS

UNIVERS WORK ORDER #

4408280

Page 1 of 1

LABORATORY INC

Client: Eagle Environmental Consulting

Address: 8000 W 44th Ave

Wheat Ridge, CO 80033

Telephone Number: 303-433-1322

Email Address: gcongron@eagleenv.com

Project Manager: Grace Congdon

Project Name: Loustelet T5N-R64W-S15 L01 TB

Project Number: 4408280

Collected By: SL

Invoice/Billing Info: Bill to Den

Key:

W=Water

GW=Groundwater

SW=Surface Water

WW=Waste Water

L=Liquid

S=Soil | SO=Solid | O=Oil | A=Air | G=Gas | UN=Impres | HCl=Hydrochloric | HNO3=Nitric | H2SO4=Sulfuric | NaOH=Sodium Hydroxide

#	Sample ID	Date Sampled	Time Sampled	# of Containers	Matrix	Preservative	Analysis				Comments
							As Received	As Preserved	As Analyzed	As Reported	
1	M1A-01	8/10/14	1105	6	GL	HCl	X	X			
2	M1A-02	8/10/14	1120	1							
3	M1A-03	8/10/14	1135	1							
4	M1A-04	8/10/14	1150	1							
5	M1A-05	8/10/14	1105	1							
6	M1A-06	8/10/14	1100	1							
7											
8											
9											
10											

Requisitioned By: [Signature] Date: 8/10/14 Time: 1100 Received By: [Signature] Date: 8/12/14 Time: 1100

For Lab Sample Receiving Only

Temp Received: 8 Received On Ice? ☒ Yes ☐ No

☒ Standard

☐ 48 Hr ☐ 72 Hr

☐ SAME DAY ☐ 24 Hr

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 - Loustelet T5N-R64W-S15 L01 TB

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

**Sample Receipt Checklist**

Origins Work Order: 4408280 Client: Eagle  
Client Project ID: Loustelet

Checklist Completed by: SHD Shipped Via: HO  
(UPS, FedEx, Hand Delivered, Pick-up, etc.)  
Date/Time completed: 8/13/12 Airbill #: N/A

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

Cooler Number/Temperature: 1 8 °C 1 °C 1 °C (Describe) °C

Thermometer ID: 7005

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input checked="" 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 <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are short holding time analytes or samples with HTs due within 48 hours present <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is a chain-of-custody (COC) present and filled out completely <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client with date and time recorded <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water — is there headspace (> ½ 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 <sup>(1)</sup> ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)/(pH <2 for samples preserved with HNO <sub>3</sub> , HCL, H <sub>2</sub> SO <sub>4</sub> ) / (pH >10 for samples preserved with NaAsO <sub>2</sub> +NaOH, ZnAc+NaOH)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<u>PC</u>
Additional Comments (if any):				

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

Reviewed by (Project Manager) AS

8/14/12  
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 - Loustelet T5N-R64W-S15 L01 TB

## MW-01

8/12/2024 11:05:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y408280-01 (Water)

### BTEX+N+TMBs by 8260D

1,2,4-Trimethylbenzene	2.12	2.00	ug/L	1	B4H1323	JSM	08/13/2024	08/13/2024	
1,3,5-Trimethylbenzene	ND	2.00	"	"	"	JSM	"	"	U
Benzene	1.30	1.00	"	"	"	JSM	"	"	
Ethylbenzene	ND	1.00	"	"	"	JSM	"	"	U
Naphthalene	ND	2.00	"	"	"	JSM	"	"	U
Toluene	ND	1.00	"	"	"	JSM	"	"	U
Xylenes, total	13.2	1.00	"	"	"	JSM	"	"	

Surrogate: 1,2-Dichloroethane-d4	99.4 %	70-130			"	"	"	
Surrogate: Toluene-d8	101 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	92.4 %	70-130			"	"	"	

### PAH by EPA 8270E

Benzo (a) anthracene	ND	0.500	ug/L	1	B4H1326	agile	08/13/2024	08/15/2024	U
Surrogate: Fluorene-d10	104 %	60-130			"		"	"	
Surrogate: Anthracene-d10	84.1 %	60-130			"		"	"	
Surrogate: Benzo (a) pyrene-d12	107 %	60-130			"		"	"	
Surrogate: Pyrene-d10	112 %	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 - Loustelet T5N-R64W-S15 L01 TB

## MW-02

8/12/2024 11:20:00AM

Analyte	Result	Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y408280-02 (Water)

### BTEX+N+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	2.00	ug/L	1	B4H1323	JSM	08/13/2024	08/13/2024	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	98.0 %	70-130	"	"	"
Surrogate: Toluene-d8	101 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	96.5 %	70-130	"	"	"

### PAH by EPA 8270E

Benzo (a) anthracene	ND	0.500	ug/L	1	B4H1326	agile	08/13/2024	08/15/2024	U
----------------------	----	-------	------	---	---------	-------	------------	------------	---

Surrogate: Fluorene-d10	107 %	60-130	"	"	"
Surrogate: Anthracene-d10	83.5 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	101 %	60-130	"	"	"
Surrogate: Pyrene-d10	112 %	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 - Loustelet T5N-R64W-S15 L01 TB

### MW-03

8/12/2024 11:35:00AM

Analyte	Result	Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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### Origins Laboratory, Inc. Y408280-03 (Water)

#### BTEX+N+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	2.00	ug/L	1	B4H1323	JSM	08/13/2024	08/13/2024	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	98.5 %	70-130	"	"	"
Surrogate: Toluene-d8	102 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	95.3 %	70-130	"	"	"

#### PAH by EPA 8270E

Benzo (a) anthracene	ND	0.500	ug/L	1	B4H1326	agile	08/13/2024	08/15/2024	U
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Surrogate: Fluorene-d10	105 %	60-130	"	"	"
Surrogate: Anthracene-d10	86.0 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	102 %	60-130	"	"	"
Surrogate: Pyrene-d10	109 %	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 - Loustelet T5N-R64W-S15 L01 TB

## MW-04

8/12/2024 11:50:00AM

Analyte	Result	Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y408280-04 (Water)

### BTEX+N+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	2.00	ug/L	1	B4H1323	JSM	08/13/2024	08/13/2024	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	97.9 %	70-130	"	"	"
Surrogate: Toluene-d8	101 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	95.6 %	70-130	"	"	"

### PAH by EPA 8270E

Benzo (a) anthracene	ND	0.500	ug/L	1	B4H1326	agile	08/13/2024	08/15/2024	U
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Surrogate: Fluorene-d10	107 %	60-130	"	"	"
Surrogate: Anthracene-d10	78.1 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	102 %	60-130	"	"	"
Surrogate: Pyrene-d10	112 %	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 - Loustelet T5N-R64W-S15 L01 TB

## MW-05

8/12/2024 12:05:00PM

Analyte	Result	Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y408280-05 (Water)

### BTEX+N+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	2.00	ug/L	1	B4H1323	JSM	08/13/2024	08/13/2024	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	97.8 %	70-130	"	"	"
Surrogate: Toluene-d8	101 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	93.6 %	70-130	"	"	"

### PAH by EPA 8270E

Benzo (a) anthracene	ND	0.500	ug/L	1	B4H1326	agile	08/13/2024	08/15/2024	U
----------------------	----	-------	------	---	---------	-------	------------	------------	---

Surrogate: Fluorene-d10	104 %	60-130	"	"	"
Surrogate: Anthracene-d10	84.0 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	100 %	60-130	"	"	"
Surrogate: Pyrene-d10	112 %	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 - Loustelet T5N-R64W-S15 L01 TB

## MW-06

8/12/2024 12:20:00PM

Analyte	Result	Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y408280-06 (Water)

### BTEX+N+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	2.00	ug/L	1	B4H1323	JSM	08/13/2024	08/13/2024	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	96.7 %	70-130	"	"	"
Surrogate: Toluene-d8	100 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	92.6 %	70-130	"	"	"

### PAH by EPA 8270E

Benzo (a) anthracene	ND	0.500	ug/L	1	B4H1326	agile	08/13/2024	08/15/2024	U
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Surrogate: Fluorene-d10	103 %	60-130	"	"	"
Surrogate: Anthracene-d10	81.8 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	98.9 %	60-130	"	"	"
Surrogate: Pyrene-d10	113 %	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 - Loustelet T5N-R64W-S15 L01 TB

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B4H1323 - EPA 5030B (Water)</b>										
<b>Blank (B4H1323-BLK1)</b>					Prepared: 08/13/2024 Analyzed: 08/13/2024					
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	62		"	62.5		99.1	70-130			
Surrogate: Toluene-d8	64		"	62.5		102	70-130			
Surrogate: 4-Bromofluorobenzene	60		"	62.5		95.7	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 - Loustelet T5N-R64W-S15 L01 TB

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B4H1323 - EPA 5030B (Water)</b>										
<b>LCS (B4H1323-BS1)</b>					Prepared: 08/13/2024 Analyzed: 08/13/2024					
1,2,4-Trimethylbenzene	45.6	2.00	ug/L	50.0		91.2	70-130			
1,3,5-Trimethylbenzene	47.2	2.00	"	50.0		94.4	70-130			
Benzene	43.6	1.00	"	50.0		87.3	70-130			
Ethylbenzene	44.7	1.00	"	50.0		89.3	70-130			
m,p-Xylene	88.0	2.00	"	100		88.0	70-130			
Naphthalene	58.7	2.00	"	50.0		117	70-130			
o-Xylene	43.1	1.00	"	50.0		86.3	70-130			
Toluene	43.3	1.00	"	50.0		86.5	70-130			
Surrogate: 1,2-Dichloroethane-d4	69		"	62.5		110	70-130			
Surrogate: Toluene-d8	60		"	62.5		96.0	70-130			
Surrogate: 4-Bromofluorobenzene	61		"	62.5		97.6	70-130			

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Project Number: [none]  
Project: Noble - Loustelet T5N-R64W-S15 L01 TB

**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 B4H1323 - EPA 5030B (Water)										
<b>Matrix Spike (B4H1323-MS1)</b>			<b>Source: Y408276-01</b>		Prepared: 08/13/2024 Analyzed: 08/13/2024					
1,2,4-Trimethylbenzene	40.6	2.00	ug/L	50.0	ND	81.1	70-130			
1,3,5-Trimethylbenzene	41.2	2.00	"	50.0	ND	82.5	70-130			
Benzene	33.5	1.00	"	50.0	ND	67.0	70-130			QM-07
Ethylbenzene	37.7	1.00	"	50.0	ND	75.5	70-130			
m,p-Xylene	74.4	2.00	"	100	ND	74.4	70-130			
Naphthalene	47.4	2.00	"	50.0	0.710	93.3	70-130			
o-Xylene	36.9	1.00	"	50.0	ND	73.7	70-130			
Toluene	35.2	1.00	"	50.0	ND	70.5	70-130			
Surrogate: 1,2-Dichloroethane-d4	64		"	62.5		102	70-130			
Surrogate: Toluene-d8	61		"	62.5		97.4	70-130			
Surrogate: 4-Bromofluorobenzene	61		"	62.5		97.7	70-130			

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Project: Noble - Loustelet T5N-R64W-S15 L01 TB

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B4H1323 - EPA 5030B (Water)</b>										
<b>Matrix Spike Dup (B4H1323-MSD1)</b>	<b>Source: Y408276-01</b>				Prepared: 08/13/2024 Analyzed: 08/13/2024					
1,2,4-Trimethylbenzene	58.3	2.00	ug/L	50.0	ND	117	70-130	35.9	20	QR-02
1,3,5-Trimethylbenzene	60.2	2.00	"	50.0	ND	120	70-130	37.3	20	QR-02
Benzene	56.3	1.00	"	50.0	ND	113	70-130	50.8	20	QR-02
Ethylbenzene	59.1	1.00	"	50.0	ND	118	70-130	44.1	20	QR-02
m,p-Xylene	116	2.00	"	100	ND	116	70-130	43.8	20	QR-02
Naphthalene	54.4	2.00	"	50.0	0.710	107	70-130	13.9	20	
o-Xylene	56.0	1.00	"	50.0	ND	112	70-130	41.3	20	QR-02
Toluene	55.6	1.00	"	50.0	ND	111	70-130	44.8	20	QR-02
Surrogate: 1,2-Dichloroethane-d4	62		"	62.5		99.7	70-130			
Surrogate: Toluene-d8	62		"	62.5		98.4	70-130			
Surrogate: 4-Bromofluorobenzene	65		"	62.5		104	70-130			

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Project Number: [none]  
Project: Noble - Loustelet T5N-R64W-S15 L01 TB

**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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**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 B4H1326 - EPA 3510C\_MS**

**Blank (B4H1326-BLK1)**

Prepared: 08/13/2024 Analyzed: 08/15/2024

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		101	60-130			
Surrogate: Anthracene-d10	170		"	200		85.2	60-130			
Surrogate: Benzo (a) pyrene-d12	190		"	200		95.1	60-130			
Surrogate: Pyrene-d10	220		"	200		109	60-130			

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Grace Congdon  
Project Number: [none]  
Project: Noble - Loustelet T5N-R64W-S15 L01 TB

**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 B4H1326 - EPA 3510C\_MS**

**LCS (B4H1326-BS1)**

Prepared: 08/13/2024 Analyzed: 08/15/2024

1-Methylnaphthalene	18.9	0.200	ug/L	20.0		94.7	70-130			
2-Methylnaphthalene	18.7	0.200	"	20.0		93.4	70-130			
Acenaphthene	20.8	2.00	"	20.0		104	70-130			
Anthracene	16.2	2.00	"	20.0		81.1	70-130			
Benzo (a) anthracene	17.5	0.500	"	20.0		87.7	70-130			
Benzo (a) pyrene	17.2	2.00	"	20.0		85.8	70-130			
Benzo (b) fluoranthene	23.5	2.00	"	20.0		117	70-130			
Benzo (g,h,i) perylene	19.1	2.00	"	20.0		95.5	70-130			
Benzo (k) fluoranthene	19.3	2.00	"	20.0		96.3	70-130			
Chrysene	18.5	2.00	"	20.0		92.7	70-130			
Dibenz (a,h) anthracene	21.6	2.00	"	20.0		108	70-130			
Fluoranthene	21.7	2.00	"	20.0		108	70-130			
Fluorene	20.2	2.00	"	20.0		101	70-130			
Indeno (1,2,3-cd) pyrene	23.7	2.00	"	20.0		119	70-130			
Naphthalene	20.1	0.200	"	20.0		100	70-130			
Phenanthrene	19.0	2.00	"	20.0		95.0	70-130			
Pyrene	20.9	2.00	"	20.0		105	70-130			

Surrogate: Fluorene-d10	210		"	200		106	60-130			
Surrogate: Anthracene-d10	170		"	200		86.4	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		99.8	60-130			
Surrogate: Pyrene-d10	220		"	200		109	60-130			

**LCS Dup (B4H1326-BSD1)**

Prepared: 08/13/2024 Analyzed: 08/15/2024

1-Methylnaphthalene	19.0	0.200	ug/L	20.0		95.1	70-130	0.374	20	
2-Methylnaphthalene	19.0	0.200	"	20.0		95.0	70-130	1.64	20	
Acenaphthene	20.0	2.00	"	20.0		100	70-130	3.97	20	
Anthracene	16.8	2.00	"	20.0		84.0	70-130	3.47	20	

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**EPA 8270E (SW846) - Semivolatile Organic Compounds - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B4H1326 - EPA 3510C\_MS**

**LCS Dup (B4H1326-BSD1)**

Prepared: 08/13/2024 Analyzed: 08/15/2024

Benzo (a) anthracene	17.7	0.500	ug/L	20.0		88.4	70-130	0.783	20	
Benzo (a) pyrene	16.9	2.00	"	20.0		84.3	70-130	1.71	20	
Benzo (b) fluoranthene	23.0	2.00	"	20.0		115	70-130	2.13	20	
Benzo (g,h,i) perylene	18.5	2.00	"	20.0		92.3	70-130	3.45	20	
Benzo (k) fluoranthene	19.5	2.00	"	20.0		97.4	70-130	1.12	20	
Chrysene	18.6	2.00	"	20.0		93.1	70-130	0.519	20	
Dibenz (a,h) anthracene	20.6	2.00	"	20.0		103	70-130	5.04	20	
Fluoranthene	21.7	2.00	"	20.0		108	70-130	0.0531	20	
Fluorene	19.5	2.00	"	20.0		97.3	70-130	3.60	20	
Indeno (1,2,3-cd) pyrene	18.8	2.00	"	20.0		93.8	70-130	23.4	20	QR-02
Naphthalene	20.3	0.200	"	20.0		101	70-130	1.00	20	
Phenanthrene	18.8	2.00	"	20.0		94.0	70-130	1.12	20	
Pyrene	21.1	2.00	"	20.0		106	70-130	0.947	20	
Surrogate: Fluorene-d10	210		"	200		103	60-130			
Surrogate: Anthracene-d10	170		"	200		86.1	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		100	60-130			
Surrogate: Pyrene-d10	220		"	200		110	60-130			

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Grace Congdon

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Project: Noble - Loustelet T5N-R64W-S15 L01 TB

### Notes and Definitions

U Sample is Non-Detect.

QR-02 The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported at a wet weight basis.

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