



## **FIGURES**

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

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

# LEGEND

- 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-MN = 1-METHYLNAPHTHALENE  
 2-MN = 2-METHYLNAPHTHALENE  
 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 (<) INDICATE CONCENTRATIONS WERE NOT OBSERVED AT OR ABOVE THE LABORATORY REPORTING LIMIT.

VALUES PRESENTED IN **BOLD** EXCEED THE ECMC TABLE 915-1 REGULATORY LIMITS.

GROUNDWATER INORGANIC PARAMETERS IN MW-04 WERE USED IN THE DETERMINATION OF LOCAL BACKGROUND LEVELS AT THE SITE.

ECMC = ENERGY AND CARBON MANAGEMENT COMMISSION

## GROUNDWATER ANALYTICAL MAP (06/24/24)

McBAIN (BAINBRIDGE) #1  
 HISTORICAL RELEASE  
 40.361784 / -104.680276  
 NE¼ NE¼ SEC.32 T5N R65W 6PM  
 WELD COUNTY, COLORADO  
 API # 05-123-12032  
 REMEDIATION # 27419

FIGURE NO.  
1

DRAWN BY:  
ZM



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

MW-02  
 06/24/24  
 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-MN = <0.02  
 2-MN = <0.02  
 C = 147  
 S = 292  
 TDS= 1020

MW-02

MW-01  
 06/24/24  
 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-MN = <0.02  
 2-MN = <0.02  
 C = 150  
 S = 300  
 TDS= 1080

MW-01

MW-03

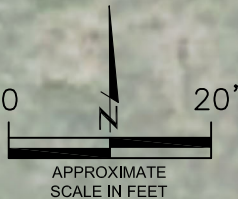
MW-03  
 06/24/24  
 B = <1.00  
 T = <1.00  
 E = <1.00  
 X = <1.00  
 N = <2.00  
 1,2,4-TMB = <2.00  
 1,3,5-TMB = <2.00  
 1-MN = <0.02  
 2-MN = <0.02  
 C = 150  
 S = 296  
 TDS= 1010

MW-04



MW-04  
 06/24/24  
 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-MN = <0.02  
 2-MN = <0.02  
 C = 145  
 S = 301  
 TDS= 1020

MW-05

MW-05  
 06/24/24  
 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-MN = <0.02  
 2-MN = <0.02  
 C = 150  
 S = 333  
 TDS= 1030



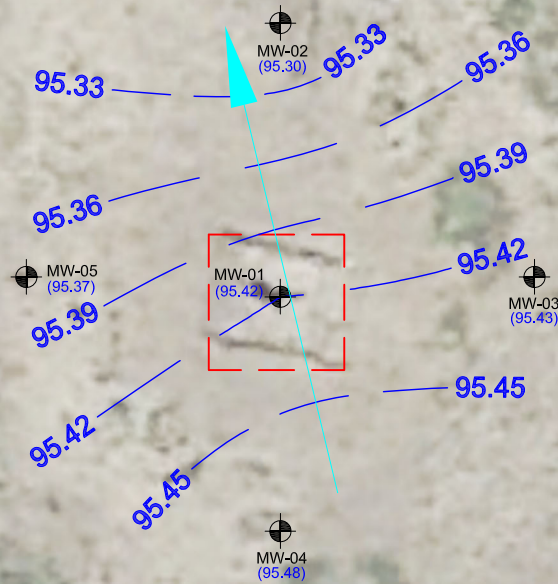
**LEGEND**

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

FT. = FEET

NOTE:  
GROUNDWATER ELEVATION DATA WAS COLLECTED FROM ALL  
MONITORING WELLS ON 06/24/24.

HYDRAULIC GRADIENT (MW-04 TO MW-02): 0.004 FT./FT.



GROUNDWATER ELEVATION MAP  
(06/24/24)  
McBAIN (BAINBRIDGE) #1  
HISTORICAL RELEASE  
40.361784 / -104.680276  
NE¼ NE¼ SEC.32 T5N R65W 6PM  
WELD COUNTY, COLORADO  
API # 05-123-12032  
REMEDATION # 27419

FIGURE NO.  
2

DRAWN BY:  
ZM



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## **TABLES**

**Table 1: Groundwater Analytical Results Summary**

**Table 2: Inorganic Groundwater Parameters Summary**

**Table 2: Groundwater Elevation Summary**



TABLE 1  
GROUNDWATER ANALYTICAL RESULTS SUMMARY  
McBAIN (BAINBRIDGE) #1  
HISTORICAL RELEASE  
40.361784 / -104.680276  
NE¼ NE¼ SEC.32 T5N R65W 6PM  
WELD COUNTY, COLORADO  
API # 05-123-12032  
REMEDIAL ACTION # 27419

Sample Location (Latitude/Longitude)	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	Naphthalene (µg/L)	1,2,4- trimethylbenzene (µg/L)	1,3,5- trimethylbenzene (µg/L)	1-Methyl- naphthalene (µg/L)	2-Methyl- naphthalene (µg/L)
<b>ECMC Table 915-1 Regulatory Limits (µg/L)</b>		<b>5</b>	<b>560</b>	<b>700</b>	<b>1400</b>	<b>140</b>	<b>67</b>	<b>67</b>	--	--
<b>ECMC Narrative Groundwater Quality Standards* (µg/L)</b>		--	--	--	--	--	--	--	<b>1.1*</b>	<b>3.6*</b>
GW-01 (40.361788 / -104.680269)	04/25/23	<b>31.4</b>	166	27.1	429	3.76	<b>78.8</b>	49.7	NA	NA
MW-01 (40.361781 / -104.680281)	09/19/23	<1.00	<1.00	<1.00	<1.00	<2.00	<2.00	<2.00	<0.020	<0.020
	12/29/23	<1.00	<1.00	<1.00	<1.00	<2.00	<2.00	<2.00	<0.200	<0.200
	03/27/24	<1.00	<1.00	<1.00	<1.00	<2.00	<2.00	<2.00	<0.200	<0.200
	06/24/24	<1.00	<1.00	<1.00	<1.00	<2.00	<2.00	<2.00	<0.200	<0.200
MW-02 (40.361868 / -104.680268)	09/19/23	<1.00	<1.00	<1.00	<1.00	<2.00	<2.00	<2.00	<0.020	<0.020
	12/29/23	<1.00	<1.00	<1.00	<1.00	<2.00	<2.00	<2.00	<0.200	<0.200
	03/27/24	<1.00	<1.00	<1.00	<1.00	<2.00	<2.00	<2.00	<0.200	<0.200
	06/24/24	<1.00	<1.00	<1.00	<1.00	<2.00	<2.00	<2.00	<0.200	<0.200
MW-03 (40.361787 / -104.680164)	09/19/23	<1.00	<1.00	<1.00	<1.00	<2.00	<2.00	<2.00	<0.020	<0.020
	12/29/23	<1.00	<1.00	<1.00	<1.00	<2.00	<2.00	<2.00	<0.200	<0.200
	03/27/24	<1.00	<1.00	<1.00	<1.00	<2.00	<2.00	<2.00	<0.200	<0.200
	06/24/24	<1.00	<1.00	<1.00	<1.00	<2.00	<2.00	<2.00	<0.200	<0.200
MW-04 (40.361710 / -104.680258)	09/19/23	<1.00	<1.00	<1.00	<1.00	<2.00	<2.00	<2.00	<0.020	<0.020
	12/29/23	<1.00	<1.00	<1.00	<1.00	<2.00	<2.00	<2.00	<0.200	<0.200
	03/27/24	<1.00	<1.00	<1.00	<1.00	<2.00	<2.00	<2.00	<0.200	<0.200
	06/24/24	<1.00	<1.00	<1.00	<1.00	<2.00	<2.00	<2.00	<0.200	<0.200
MW-05 (40.6361785 / -104.680369)	09/19/23	<1.00	<1.00	<1.00	<1.00	<2.00	<2.00	<2.00	<0.020	<0.020
	12/29/23	<1.00	<1.00	<1.00	<1.00	<2.00	<2.00	<2.00	<0.200	<0.200
	03/27/24	<1.00	<1.00	<1.00	<1.00	<2.00	<2.00	<2.00	<0.200	<0.200
	06/24/24	<1.00	<1.00	<1.00	<1.00	<2.00	<2.00	<2.00	<0.200	<0.200

ECMC = Energy and Carbon Management Commission

µg/L - micrograms per liter

\*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<sup>-6</sup> and Target Hazard Quotient ("THQ")=0.1. The EPA RSL for Tapwater, and resultant narrative groundwater quality standard is 1.1 µg/L for 1-methylnaphthalene and 3.6 µg/L for 2-methylnaphthalene.

Note: Values presented with a less than symbol (<) indicate concentrations were not observed at or above the laboratory reporting limit.

Values presented in **BOLD** exceed ECMC Table 915-1 Regulatory Limits.

**TABLE 2**  
**INORGANIC GROUNDWATER PARAMETERS SUMMARY**  
**McBAIN (BAINBRIDGE) #1**  
**HISTORICAL RELEASE**  
**40.361784 / -104.680276**  
**NE¼ NE¼ SEC.32 T5N R65W 6PM**  
**WELD COUNTY, COLORADO**  
**API # 05-123-12032**  
**REMEDATION # 27419**

Sample Location (Latitude/Longitude)	Date	Chloride (mg/L)	Sulfate (mg/L)	Total Dissolved Solids (mg/L)
<i>ECMC Table 91-1 Regulatory Limits (mg/L)</i>		<1.25xLocal Background (180)	<1.25xLocal Background (523)	<1.25xLocal Background (1312)
MW-01 (40.361781 / -104.680281)	09/19/23	130	302	1070
	12/29/23	114	241	786
	03/27/24	158	456	988
	06/24/24	150	300	1080
MW-02 (40.361868 / -104.680268)	09/19/23	125	303	1130
	12/29/23	115	233	792
	03/27/24	140	463	928
	06/24/24	147	292	1020
MW-03 (40.361787 / -104.680164)	09/19/23	125	273	990
	12/29/23	123	243	778
	03/27/24	134	492	924
	06/24/24	150	296	1010
MW-04 (40.361710 / -104.680258)	09/19/23	127	286	1050
	12/29/23	113	245	774
	03/27/24	144	419	912
	06/24/24	145	301	1020
MW-05 (40.6361785 / -104.680369)	09/19/23	123	299	1180
	12/29/23	113	238	752
	03/27/24	126	416	942
	06/24/24	150	333	1030

ECMC - Energy and Carbon Management Commission

mg/L - milligrams per liter

Note: The Groundwater Inorganic Parameters in monitoring well, MW-04, in September 2023 and March 2024 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 3**  
**GROUNDWATER ELEVATION SUMMARY**  
**McBAIN (BAINBRIDGE) #1**  
**HISTORICAL RELEASE**  
**40.361784 / -104.680276**  
**NE¼ NE¼ SEC.32 T5N R65W 6PM**  
**WELD COUNTY, COLORADO**  
**API # 05-123-12032**  
**REMEDATION # 27419**

Sample Location (Latitude/Longitude)	Date	Top of Casing Elevation (feet)	Depth to Groundwater from TOC (feet)	Relative Groundwater Elevation** (feet)	Stickup Height (feet)	Depth to Groundwater (feet) (bgs)
MW-01 (40.361781 / -104.680281)	09/19/23	99.57	4.54	95.03	2.72	1.82
	12/29/23		5.99	93.58		3.27
	03/27/24		6.11	93.46		3.39
	06/24/24		4.15	95.42		1.43
MW-02 (40.361868 / -104.680268)	09/19/23	99.90	4.99	94.91	3.13	1.86
	12/29/23		6.41	93.49		3.28
	03/27/24		6.57	93.33		3.44
	06/24/24		4.60	95.30		1.47
MW-03 (40.361787 / -104.680164)	09/19/23	99.95	4.92	95.03	2.88	2.04
	12/29/23		6.34	93.61		3.46
	03/27/24		6.47	93.48		3.59
	06/24/24		4.52	95.43		1.64
MW-04 (40.361710 / -104.680258)	09/19/23	99.64	4.55	95.09	2.93	1.62
	12/29/23		5.98	93.66		3.05
	03/27/24		6.12	93.52		3.19
	06/24/24		4.16	95.48		1.23
MW-05 (40.6361785 / -104.680369)	09/19/23	100.00	5.02	94.98	3.06	1.96
	12/29/23		6.47	93.53		3.41
	03/27/24		6.62	93.38		3.56
	06/24/24		4.63	95.37		1.57
NOTES: TOC = top of casing NA = Not Applicable NM = Not Measured						
bgs = below ground surface DES = Destroyed INA - Inaccessible						



## **ATTACHMENT A**

### **Laboratory Analytical Reports (2Q24)**





July 03, 2024

Eagle Environmental Consulting, LLC

Andrew Newberry

8000 W 44th Ave

Wheat Ridge CO 80033

**Project Name - Noble - Macbain (Bainbridge) #1      Project Number - [none]**

Attached are your analytical results for Noble - Macbain (Bainbridge) #1 received by Origins Laboratory, Inc. June 24, 2024. This project is associated with Origins project number Y406676-01.

The analytical results in the following report were analyzed under the guidelines of EPA Methods. These methods are identified as follows; "SW" are defined in SW-846, "EPA" are defined in 40CFR part 136 and "SM" are defined in the most current revision of Standard Methods For the Examination of Water and Wastewater.

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

Unless otherwise noted, the analytical results for all soil samples are reported on a wet weight basis. All analytical analyses were performed under NELAP guidelines unless noted by a data qualifier.

Any holding time exceedances, deviations from the method specifications or deviations from Origins Laboratory's Standard Operating Procedures are outlined in the case narrative.

Thank you for selecting Origins for your analytical needs. Please contact us with any questions concerning this report, or if we can help with anything at all.

Origins Laboratory, Inc.  
303.433.1322  
o-squad@oelabinc.com



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

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

Andrew Newberry  
Project Number: [none]  
Project: Noble - Macbain (Bainbridge) #1

## CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-01	Y406676-01	Water	June 24, 2024 10:50	06/24/2024 13:52
MW-02	Y406676-02	Water	June 24, 2024 11:00	06/24/2024 13:52
MW-03	Y406676-03	Water	June 24, 2024 11:10	06/24/2024 13:52
MW-04	Y406676-04	Water	June 24, 2024 11:20	06/24/2024 13:52
MW-05	Y406676-05	Water	June 24, 2024 11:30	06/24/2024 13:52

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

Andrew Newberry  
Project Number: [none]  
Project: Noble - Macbain (Bainbridge) #1

Origins Laboratory

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

### Sample Receipt Checklist

Origins Work Order: 440006710

Client: Eagle

Client Project ID: McBain (Bainbridge) #1

Checklist Completed by: WJ / JMD

Shipped Via: HL

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

Date/time completed: 6/24/24

Airbill #: N/A

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

Cooler Number/Temperature: 1 / 8 °C 1 / 1 °C 1 / 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"/>		<u>SO</u>
Is there ice present (document if blue ice is used)	<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"/>		
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"/>		
Were all samples received intact <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Was adequate sample volume provided <sup>(1)</sup> ?	<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"/>		
Is a chain-of-custody (COC) present and filled out completely <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Does the COC agree with the number and type of sample bottles received <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Do the sample IDs on the bottle labels match the COC <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client with date and time recorded <sup>(1)</sup> ?	<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"/>	
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"/>		
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) JS

6/26/24  
Date/Time Reviewed

Origins Laboratory, Inc.

*Jefe Pellegrini*

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

Andrew Newberry  
Project Number: [none]  
Project: Noble - Macbain (Bainbridge) #1

## MW-01

6/24/2024 10:50:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y406676-01 (Water)

### Anions by IC 300.0

Chloride	150	31.2	mg/L	125	B4F2502	STW	06/25/2024	06/25/2024	
Sulfate	300	31.2	"	"	"	STW	"	"	

### Total Dissolved Solids by 2540C

Total Dissolved Solids	1080	5.00	"	1	B4F2522	KRM	06/25/2024	06/26/2024	
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Origins Laboratory, Inc.



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

Andrew Newberry  
Project Number: [none]  
Project: Noble - Macbain (Bainbridge) #1

## MW-02

6/24/2024 11:00:00AM

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

## Origins Laboratory, Inc. Y406676-02 (Water)

### Anions by IC 300.0

Chloride	147	31.2	mg/L	125	B4F2502	STW	06/25/2024	06/25/2024	
Sulfate	292	31.2	"	"	"	STW	"	"	

### Total Dissolved Solids by 2540C

Total Dissolved Solids	1020	5.00	"	1	B4F2522	KRM	06/25/2024	06/26/2024	
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Origins Laboratory, Inc.



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

Andrew Newberry  
Project Number: [none]  
Project: Noble - Macbain (Bainbridge) #1

## MW-03

6/24/2024 11:10:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y406676-03 (Water)

### Anions by IC 300.0

Chloride	150	31.2	mg/L	125	B4F2502	STW	06/25/2024	06/25/2024	
Sulfate	296	31.2	"	"	"	STW	"	"	

### Total Dissolved Solids by 2540C

Total Dissolved Solids	1010	5.00	"	1	B4F2522	KRM	06/25/2024	06/26/2024	
------------------------	------	------	---	---	---------	-----	------------	------------	--

Origins Laboratory, Inc.



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

Andrew Newberry  
Project Number: [none]  
Project: Noble - Macbain (Bainbridge) #1

## MW-04

6/24/2024 11:20:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y406676-04 (Water)

### Anions by IC 300.0

Chloride	145	31.2	mg/L	125	B4F2502	STW	06/25/2024	06/25/2024	
Sulfate	301	31.2	"	"	"	STW	"	"	

### Total Dissolved Solids by 2540C

Total Dissolved Solids	1020	5.00	"	1	B4F2522	KRM	06/25/2024	06/26/2024	
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Origins Laboratory, Inc.



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

Andrew Newberry  
Project Number: [none]  
Project: Noble - Macbain (Bainbridge) #1

## MW-05

6/24/2024 11:30:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y406676-05 (Water)

### Anions by IC 300.0

Chloride	150	31.2	mg/L	125	B4F2502	STW	06/25/2024	06/25/2024	
Sulfate	333	31.2	"	"	"	STW	"	"	

### Total Dissolved Solids by 2540C

Total Dissolved Solids	1030	5.00	"	1	B4F2522	KRM	06/25/2024	06/26/2024	
------------------------	------	------	---	---	---------	-----	------------	------------	--

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

Andrew Newberry  
Project Number: [none]  
Project: Noble - Macbain (Bainbridge) #1

## 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 B4F2502 - Filter .45um non acidified</b>										
<b>Blank (B4F2502-BLK1)</b>					Prepared: 06/25/2024 Analyzed: 06/25/2024					
Chloride	ND	0.250	mg/L							U
Sulfate	ND	0.250	"							U
<b>LCS (B4F2502-BS1)</b>					Prepared: 06/25/2024 Analyzed: 06/25/2024					
Chloride	3.95	0.250	mg/L	4.00		98.6	90-110			
Sulfate	4.02	0.250	"	4.00		100	90-110			
<b>Matrix Spike (B4F2502-MS1)</b>					<b>Source: Y406683-04</b>		Prepared: 06/25/2024 Analyzed: 06/25/2024			
Chloride	727		mg/L	500	257	94.1	90-110			
Sulfate	958		"	500	456	100	90-110			
<b>Matrix Spike Dup (B4F2502-MSD1)</b>					<b>Source: Y406683-04</b>		Prepared: 06/25/2024 Analyzed: 06/25/2024			
Chloride	776		mg/L	500	257	104	90-110	6.47	5	QM-07
Sulfate	958		"	500	456	100	90-110	0.0522	5	
<b>Batch B4F2522 - NO PREP</b>										
<b>Blank (B4F2522-BLK1)</b>					Prepared: 06/25/2024 Analyzed: 06/26/2024					
Total Dissolved Solids	ND	5.00	mg/L							U
<b>LCS (B4F2522-BS1)</b>					Prepared: 06/25/2024 Analyzed: 06/26/2024					
Total Dissolved Solids	1030	5.00	mg/L	1040		99.2	90-110			
<b>Duplicate (B4F2522-DUP1)</b>					<b>Source: Y406655-09</b>		Prepared: 06/25/2024 Analyzed: 06/26/2024			
Total Dissolved Solids	1190	5.00	mg/L		1200			1.17	10	

Origins Laboratory, Inc.



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

Andrew Newberry  
Project Number: [none]  
Project: Noble - Macbain (Bainbridge) #1

### Notes and Definitions

U Sample is Non-Detect.

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.

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.*



July 03, 2024

Eagle Environmental Consulting, LLC

Andrew Newberry

8000 W 44th Ave

Wheat Ridge CO 80033

**Project Name - Noble - Macbain (Bainbridge) #1      Project Number - [none]**

Attached are your analytical results for Noble - Macbain (Bainbridge) #1 received by Origins Laboratory, Inc. June 24, 2024. This project is associated with Origins project number Y406677-01.

The analytical results in the following report were analyzed under the guidelines of EPA Methods. These methods are identified as follows; "SW" are defined in SW-846, "EPA" are defined in 40CFR part 136 and "SM" are defined in the most current revision of Standard Methods For the Examination of Water and Wastewater.

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

Unless otherwise noted, the analytical results for all soil samples are reported on a wet weight basis. All analytical analyses were performed under NELAP guidelines unless noted by a data qualifier.

Any holding time exceedances, deviations from the method specifications or deviations from Origins Laboratory's Standard Operating Procedures are outlined in the case narrative.

Thank you for selecting Origins for your analytical needs. Please contact us with any questions concerning this report, or if we can help with anything at all.

Origins Laboratory, Inc.  
303.433.1322  
o-squad@oelabinc.com



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



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

Andrew Newberry  
Project Number: [none]  
Project: Noble - Macbain (Bainbridge) #1

### CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-01	Y406677-01	Water	June 24, 2024 10:50	06/24/2024 13:52
MW-02	Y406677-02	Water	June 24, 2024 11:00	06/24/2024 13:52
MW-03	Y406677-03	Water	June 24, 2024 11:10	06/24/2024 13:52
MW-04	Y406677-04	Water	June 24, 2024 11:20	06/24/2024 13:52
MW-05	Y406677-05	Water	June 24, 2024 11:30	06/24/2024 13:52

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.*

Jen Pellegrini For Jordan A. Bynon, Project Manager

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

Andrew Newberry  
Project Number: [none]  
Project: Noble - Macbain (Bainbridge) #1

ORIGINS

LABORATORY INC

ORIGINS WORK ORDER #

440077

Page 1 of 1

Client: Eagle Environmental Consulting

Project Manager: Andrew Newberry

Key:

Address: 8000 W 44th Ave

Project Name: Macbain (Bainbridge) #1

W= Water

Telephone Number: 303-433-0479

Project Number: ---

GW=Groundwater

Email Address: andrew@eagle-env.com

Collected By: CB/SL

SW=Surface Water

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

Invoice Billing Info: Noble / Bill to Man

WW=Waste Water

Analysis

#	Sample ID	Date	Time	Sampled	# of Containers	Matrix	Preservative	Analysis	Comments
1	MW-01	6/24/24	1050	3	64	HCL	X	Index, TMS, 52600	MDs Needed
2	MW-02		1100						
3	MW-03		1110						
4	MW-04		1120						
5	MW-05		1130						
6									
7									
8									
9									
10									

Relinquished By:	Date:	Time:	Received By:	Date:	Time:
<u>[Signature]</u>	6/24/24	1052	<u>[Signature]</u>	6/24/24	1052

1725 Elk Place Denver, Co. 80211 | # 303.433.1322 | originslab.com | Temp Received- 7 Received On Ice? ☒ Yes ☐ No

For Lab Sample Receiving Only:

Standard

48 Hr ☐ 72 Hr ☐

SAME DAY ☐ 24 Hr ☐

Turnaround Time

Origins Laboratory, Inc.

Jen Pellegrini

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

Andrew Newberry  
Project Number: [none]  
Project: Noble - Macbain (Bainbridge) #1

Origins Laboratory

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

### Sample Receipt Checklist

Origins Work Order: 44066077

Client: Eagle

Client Project ID: MacBain (Bainbridge)

Checklist Completed by: TD / JHO

Shipped Via: TD

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

Date/time completed: 6/24/24

Airbill #: N/A

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

Cooler Number/Temperature: 1, 2 °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"/>		<u>SD</u>
Is there ice present (document if blue ice is used)	<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"/>		
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"/>		
Were all samples received intact <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Was adequate sample volume provided <sup>(1)</sup> ?	<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"/>		
Is a chain-of-custody (COC) present and filled out completely <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Does the COC agree with the number and type of sample bottles received <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Do the sample IDs on the bottle labels match the COC <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client with date and time recorded <sup>(1)</sup> ?	<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"/>		
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"/>			<u>NC</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

Date/Time Reviewed 6/20/24

Origins Laboratory, Inc.

*Jefe Pellegrini*

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

Andrew Newberry  
Project Number: [none]  
Project: Noble - Macbain (Bainbridge) #1

## MW-01

6/24/2024 10:50:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y406677-01 (Water)

### BTEX+N+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	2.00	ug/L	1	B4F2540	JSM	06/25/2024	06/26/2024	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	107 %	70-130	"	"	"
Surrogate: Toluene-d8	101 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	90.7 %	70-130	"	"	"

Origins Laboratory, Inc.



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

Andrew Newberry  
Project Number: [none]  
Project: Noble - Macbain (Bainbridge) #1

## MW-02

6/24/2024 11:00:00AM

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

## Origins Laboratory, Inc. Y406677-02 (Water)

### BTEX+N+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	2.00	ug/L	1	B4F2540	JSM	06/25/2024	06/26/2024	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	108 %	70-130	"	"	"
Surrogate: Toluene-d8	102 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	90.3 %	70-130	"	"	"

Origins Laboratory, Inc.



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

Andrew Newberry  
Project Number: [none]  
Project: Noble - Macbain (Bainbridge) #1

## MW-03

6/24/2024 11:10:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y406677-03 (Water)

### BTEX+N+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	2.00	ug/L	1	B4F2540	JSM	06/25/2024	06/26/2024	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	106 %	70-130	"	"	"
Surrogate: Toluene-d8	102 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	89.8 %	70-130	"	"	"

Origins Laboratory, Inc.



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

Andrew Newberry  
Project Number: [none]  
Project: Noble - Macbain (Bainbridge) #1

## MW-04

6/24/2024 11:20:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y406677-04 (Water)

### BTEX+N+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	2.00	ug/L	1	B4F2540	JSM	06/25/2024	06/26/2024	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	108 %	70-130	"	"	"
Surrogate: Toluene-d8	99.5 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	90.4 %	70-130	"	"	"

Origins Laboratory, Inc.



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

Andrew Newberry  
Project Number: [none]  
Project: Noble - Macbain (Bainbridge) #1

## MW-05

6/24/2024 11:30:00AM

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

## Origins Laboratory, Inc. Y406677-05 (Water)

### BTEX+N+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	2.00	ug/L	1	B4F2540	JSM	06/25/2024	06/26/2024	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	106 %	70-130	"	"	"
Surrogate: Toluene-d8	101 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	88.5 %	70-130	"	"	"

Origins Laboratory, Inc.



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

Andrew Newberry  
Project Number: [none]  
Project: Noble - Macbain (Bainbridge) #1

## 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 B4F2540 - EPA 5030B (Water)										
Blank (B4F2540-BLK1)					Prepared: 06/25/2024 Analyzed: 06/25/2024					
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	66		"	62.5		106	70-130			
Surrogate: Toluene-d8	63		"	62.5		101	70-130			
Surrogate: 4-Bromofluorobenzene	56		"	62.5		90.4	70-130			

Origins Laboratory, Inc.



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

Andrew Newberry  
Project Number: [none]  
Project: Noble - Macbain (Bainbridge) #1

## 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 B4F2540 - EPA 5030B (Water)										
LCS (B4F2540-BS1)					Prepared: 06/25/2024 Analyzed: 06/25/2024					
1,2,4-Trimethylbenzene	51.6	2.00	ug/L	50.0		103	70-130			
1,3,5-Trimethylbenzene	52.6	2.00	"	50.0		105	70-130			
Benzene	51.7	1.00	"	50.0		103	70-130			
Ethylbenzene	56.2	1.00	"	50.0		112	70-130			
m,p-Xylene	112	2.00	"	100		112	70-130			
Naphthalene	44.5	2.00	"	50.0		88.9	70-130			
o-Xylene	54.8	1.00	"	50.0		110	70-130			
Toluene	54.2	1.00	"	50.0		108	70-130			
Surrogate: 1,2-Dichloroethane-d4	64		"	62.5		103	70-130			
Surrogate: Toluene-d8	62		"	62.5		99.7	70-130			
Surrogate: 4-Bromofluorobenzene	57		"	62.5		91.1	70-130			

Origins Laboratory, Inc.



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

Andrew Newberry  
Project Number: [none]  
Project: Noble - Macbain (Bainbridge) #1

## 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 B4F2540 - EPA 5030B (Water)										
<b>Matrix Spike (B4F2540-MS1)</b>			<b>Source: Y406673-21</b>		Prepared: 06/25/2024 Analyzed: 06/25/2024					
1,2,4-Trimethylbenzene	59.4	2.00	ug/L	50.0	ND	119	70-130			
1,3,5-Trimethylbenzene	61.1	2.00	"	50.0	ND	122	70-130			
Benzene	59.7	1.00	"	50.0	ND	119	70-130			
Ethylbenzene	65.1	1.00	"	50.0	ND	130	70-130			
m,p-Xylene	130	2.00	"	100	ND	130	70-130			
Naphthalene	48.2	2.00	"	50.0	ND	96.3	70-130			
o-Xylene	62.0	1.00	"	50.0	ND	124	70-130			
Toluene	62.1	1.00	"	50.0	ND	124	70-130			
Surrogate: 1,2-Dichloroethane-d4	65		"	62.5		104	70-130			
Surrogate: Toluene-d8	63		"	62.5		101	70-130			
Surrogate: 4-Bromofluorobenzene	58		"	62.5		92.9	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

Andrew Newberry  
Project Number: [none]  
Project: Noble - Macbain (Bainbridge) #1

## 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 B4F2540 - EPA 5030B (Water)										
Matrix Spike Dup (B4F2540-MSD1)			Source: Y406673-21		Prepared: 06/25/2024 Analyzed: 06/25/2024					
1,2,4-Trimethylbenzene	58.3	2.00	ug/L	50.0	ND	117	70-130	1.95	20	
1,3,5-Trimethylbenzene	59.7	2.00	"	50.0	ND	119	70-130	2.37	20	
Benzene	57.4	1.00	"	50.0	ND	115	70-130	3.82	20	
Ethylbenzene	63.5	1.00	"	50.0	ND	127	70-130	2.61	20	
m,p-Xylene	126	2.00	"	100	ND	126	70-130	3.22	20	
Naphthalene	52.2	2.00	"	50.0	ND	104	70-130	8.09	20	
o-Xylene	60.4	1.00	"	50.0	ND	121	70-130	2.60	20	
Toluene	59.4	1.00	"	50.0	ND	119	70-130	4.51	20	
Surrogate: 1,2-Dichloroethane-d4	65		"	62.5		104	70-130			
Surrogate: Toluene-d8	62		"	62.5		99.3	70-130			
Surrogate: 4-Bromofluorobenzene	58		"	62.5		93.4	70-130			

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

Andrew Newberry  
Project Number: [none]  
Project: Noble - Macbain (Bainbridge) #1

### 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.*



July 03, 2024

Eagle Environmental Consulting, LLC

Andrew Newberry

8000 W 44th Ave

Wheat Ridge CO 80033

**Project Name - Noble - Macbain (Bainbridge) #1      Project Number - [none]**

Attached are your analytical results for Noble - Macbain (Bainbridge) #1 received by Origins Laboratory, Inc. June 24, 2024. This project is associated with Origins project number Y406678-01.

The analytical results in the following report were analyzed under the guidelines of EPA Methods. These methods are identified as follows; "SW" are defined in SW-846, "EPA" are defined in 40CFR part 136 and "SM" are defined in the most current revision of Standard Methods For the Examination of Water and Wastewater.

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

Unless otherwise noted, the analytical results for all soil samples are reported on a wet weight basis. All analytical analyses were performed under NELAP guidelines unless noted by a data qualifier.

Any holding time exceedances, deviations from the method specifications or deviations from Origins Laboratory's Standard Operating Procedures are outlined in the case narrative.

Thank you for selecting Origins for your analytical needs. Please contact us with any questions concerning this report, or if we can help with anything at all.

Origins Laboratory, Inc.  
303.433.1322  
o-squad@oelabinc.com



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

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

Andrew Newberry  
Project Number: [none]  
Project: Noble - Macbain (Bainbridge) #1

## CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-01	Y406678-01	Water	June 24, 2024 10:50	06/24/2024 13:53
MW-02	Y406678-02	Water	June 24, 2024 11:00	06/24/2024 13:53
MW-03	Y406678-03	Water	June 24, 2024 11:10	06/24/2024 13:53
MW-04	Y406678-04	Water	June 24, 2024 11:20	06/24/2024 13:53
MW-05	Y406678-05	Water	June 24, 2024 11:30	06/24/2024 13:53

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

Andrew Newberry  
Project Number: [none]  
Project: Noble - Macbain (Bainbridge) #1

ORIGINS

LABORATORY INC

ORIGINS WORK ORDER #  
41000478

Page 1 of 1

Client: Eagle Environmental Consulting  
Address: 8000 W 44th Ave  
Wheat Ridge, CO, 80033

Telephone Number: 303-433-0999  
Email Address: amc@eagleenv.com

Project Manager: Andrew Newberry  
Project Name: Macbain (Bainbridge)  
Project Number: [blank]  
Collected By: SL/SL  
Invoice Billing Info: [blank]

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

L=Liquid

#	Sample ID	Date	Time	Sampled	# of Containers	Matrix	Preservative	Analysis	Comments
1	MA-01	6/14/14	1050	3	GL	UNP	X		
2	MA-02		1100				X		
3	MA-03		1110				X		
4	MA-04		1120				X		
5	MA-05		1130				X		
6									
7									
8									
9									
10									

Relinquished By: [Signature]	Date: 6/14/14	Time: 1353	Received By: [Signature]	Date: 6/24/14	Time: 1553
Relinquished By:	Date:	Time:	Received By:	Date:	Time:

1725 Elk Place Denver, Co. 80211 | # 303.433.1322 | originslab.com | Temp Received- 8 Received On Ice? ☒ Yes ☐ No

Turnaround Time  
☐ SAME DAY ☐ 24 Hr ☐ 48 Hr ☐ 72 Hr  
☒ Standard

Origins Laboratory, Inc.

Jefe Pellegrini

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

Andrew Newberry  
Project Number: [none]  
Project: Noble - Macbain (Bainbridge) #1

Origins Laboratory

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

## Sample Receipt Checklist

Origins Work Order: 44000078

Client: Eagle

Client Project ID: Macbain (Bainbridge)

Checklist Completed by: JTP / EAD

Shipped Via: HL

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

Date/time completed: 6/24/24

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 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 <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 checked="" 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 (> 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 <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>NC</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) AG

Date/Time Reviewed 6/26/24

Origins Laboratory, Inc.

*Jen Pellegrini*

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

Andrew Newberry  
Project Number: [none]  
Project: Noble - Macbain (Bainbridge) #1

## MW-01

6/24/2024 10:50:00AM

Analyte	Result	Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y406678-01 (Water)

### PAH by EPA 8270E

1-Methylnaphthalene	ND	0.200	ug/L	1	B4F2639	agile	06/26/2024	06/28/2024	U
2-Methylnaphthalene	ND	0.200	"	"	"	agile	"	"	U

Surrogate: Fluorene-d10	105 %	60-130			"	"	"
Surrogate: Anthracene-d10	84.5 %	60-130			"	"	"
Surrogate: Benzo (a) pyrene-d12	94.5 %	60-130			"	"	"
Surrogate: Pyrene-d10	111 %	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

Andrew Newberry  
Project Number: [none]  
Project: Noble - Macbain (Bainbridge) #1

## MW-02

6/24/2024 11:00:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y406678-02 (Water)

### PAH by EPA 8270E

1-Methylnaphthalene	ND	0.200	ug/L	1	B4F2639	agile	06/26/2024	06/28/2024	U
2-Methylnaphthalene	ND	0.200	"	"	"	agile	"	"	U

Surrogate: Fluorene-d10	98.2 %	60-130			"	"	"
Surrogate: Anthracene-d10	90.5 %	60-130			"	"	"
Surrogate: Benzo (a) pyrene-d12	90.2 %	60-130			"	"	"
Surrogate: Pyrene-d10	113 %	60-130			"	"	"

Origins Laboratory, Inc.



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

Andrew Newberry  
Project Number: [none]  
Project: Noble - Macbain (Bainbridge) #1

## MW-03

6/24/2024 11:10:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y406678-03 (Water)

### PAH by EPA 8270E

1-Methylnaphthalene	ND	0.200	ug/L	1	B4F2639	agile	06/26/2024	06/28/2024	U
2-Methylnaphthalene	ND	0.200	"	"	"	agile	"	"	U

Surrogate: Fluorene-d10	106 %	60-130			"	"	"
Surrogate: Anthracene-d10	92.7 %	60-130			"	"	"
Surrogate: Benzo (a) pyrene-d12	89.8 %	60-130			"	"	"
Surrogate: Pyrene-d10	101 %	60-130			"	"	"

Origins Laboratory, Inc.



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

Andrew Newberry  
Project Number: [none]  
Project: Noble - Macbain (Bainbridge) #1

## MW-04

6/24/2024 11:20:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y406678-04 (Water)

### PAH by EPA 8270E

1-Methylnaphthalene	ND	0.200	ug/L	1	B4F2639	agile	06/26/2024	06/28/2024	U
2-Methylnaphthalene	ND	0.200	"	"	"	agile	"	"	U

Surrogate: Fluorene-d10	116 %	60-130			"	"	"
Surrogate: Anthracene-d10	92.9 %	60-130			"	"	"
Surrogate: Benzo (a) pyrene-d12	90.3 %	60-130			"	"	"
Surrogate: Pyrene-d10	104 %	60-130			"	"	"

Origins Laboratory, Inc.



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

Andrew Newberry  
Project Number: [none]  
Project: Noble - Macbain (Bainbridge) #1

## MW-05

6/24/2024 11:30:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y406678-05 (Water)

### PAH by EPA 8270E

1-Methylnaphthalene	ND	0.200	ug/L	1	B4F2639	agile	06/26/2024	06/28/2024	U
2-Methylnaphthalene	ND	0.200	"	"	"	agile	"	"	U

Surrogate: Fluorene-d10	97.8 %	60-130			"	"	"
Surrogate: Anthracene-d10	93.5 %	60-130			"	"	"
Surrogate: Benzo (a) pyrene-d12	91.7 %	60-130			"	"	"
Surrogate: Pyrene-d10	116 %	60-130			"	"	"

Origins Laboratory, Inc.



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

Andrew Newberry  
Project Number: [none]  
Project: Noble - Macbain (Bainbridge) #1

**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 B4F2639 - EPA 3510C\_MS**

**Blank (B4F2639-BLK1)**

Prepared: 06/26/2024 Analyzed: 06/28/2024

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		99.0	60-130			
Surrogate: Anthracene-d10	180		"	200		89.8	60-130			
Surrogate: Benzo (a) pyrene-d12	190		"	200		94.8	60-130			
Surrogate: Pyrene-d10	220		"	200		112	60-130			

**LCS (B4F2639-BS1)**

Prepared: 06/26/2024 Analyzed: 06/28/2024

1-Methylnaphthalene	19.4	0.200	ug/L	20.0		96.8	70-130
2-Methylnaphthalene	19.8	0.200	"	20.0		99.1	70-130
Acenaphthene	18.1	2.00	"	20.0		90.6	70-130
Anthracene	16.5	2.00	"	20.0		82.3	70-130

Origins Laboratory, Inc.



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

Andrew Newberry  
Project Number: [none]  
Project: Noble - Macbain (Bainbridge) #1

**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 B4F2639 - EPA 3510C\_MS**

**LCS (B4F2639-BS1)**

Prepared: 06/26/2024 Analyzed: 06/28/2024

Benzo (a) anthracene	21.5	0.500	ug/L	20.0		107	70-130			
Benzo (a) pyrene	18.5	2.00	"	20.0		92.3	70-130			
Benzo (b) fluoranthene	23.4	2.00	"	20.0		117	70-130			
Benzo (g,h,i) perylene	20.7	2.00	"	20.0		103	70-130			
Benzo (k) fluoranthene	20.3	2.00	"	20.0		101	70-130			
Chrysene	19.7	2.00	"	20.0		98.7	70-130			
Dibenz (a,h) anthracene	19.0	2.00	"	20.0		94.8	70-130			
Fluoranthene	21.2	2.00	"	20.0		106	70-130			
Fluorene	18.1	2.00	"	20.0		90.4	70-130			
Indeno (1,2,3-cd) pyrene	18.6	2.00	"	20.0		92.9	70-130			
Naphthalene	19.5	0.200	"	20.0		97.4	70-130			
Phenanthrene	19.2	2.00	"	20.0		96.0	70-130			
Pyrene	20.2	2.00	"	20.0		101	70-130			
Surrogate: Fluorene-d10	190		"	200		96.1	60-130			
Surrogate: Anthracene-d10	170		"	200		87.4	60-130			
Surrogate: Benzo (a) pyrene-d12	190		"	200		94.5	60-130			
Surrogate: Pyrene-d10	210		"	200		106	60-130			

**LCS Dup (B4F2639-BSD1)**

Prepared: 06/26/2024 Analyzed: 06/28/2024

1-Methylnaphthalene	19.1	0.200	ug/L	20.0		95.6	70-130	1.31	20	
2-Methylnaphthalene	18.7	0.200	"	20.0		93.4	70-130	5.89	20	
Acenaphthene	18.5	2.00	"	20.0		92.6	70-130	2.10	20	
Anthracene	17.0	2.00	"	20.0		85.2	70-130	3.38	20	
Benzo (a) anthracene	20.1	0.500	"	20.0		101	70-130	6.51	20	
Benzo (a) pyrene	19.6	2.00	"	20.0		97.8	70-130	5.78	20	
Benzo (b) fluoranthene	23.6	2.00	"	20.0		118	70-130	1.06	20	
Benzo (g,h,i) perylene	18.7	2.00	"	20.0		93.4	70-130	10.1	20	

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

Andrew Newberry  
Project Number: [none]  
Project: Noble - Macbain (Bainbridge) #1

**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
<b>Batch B4F2639 - EPA 3510C_MS</b>										
<b>LCS Dup (B4F2639-BSD1)</b>					Prepared: 06/26/2024 Analyzed: 06/28/2024					
Benzo (k) fluoranthene	20.9	2.00	ug/L	20.0		105	70-130	3.08	20	
Chrysene	19.9	2.00	"	20.0		99.3	70-130	0.594	20	
Dibenz (a,h) anthracene	18.1	2.00	"	20.0		90.5	70-130	4.61	20	
Fluoranthene	19.1	2.00	"	20.0		95.5	70-130	10.5	20	
Fluorene	21.1	2.00	"	20.0		106	70-130	15.6	20	
Indeno (1,2,3-cd) pyrene	17.1	2.00	"	20.0		85.3	70-130	8.46	20	
Naphthalene	19.5	0.200	"	20.0		97.4	70-130	0.0432	20	
Phenanthrene	19.6	2.00	"	20.0		97.8	70-130	1.81	20	
Pyrene	19.7	2.00	"	20.0		98.5	70-130	2.37	20	
Surrogate: Fluorene-d10	220		"	200		110	60-130			
Surrogate: Anthracene-d10	190		"	200		95.6	60-130			
Surrogate: Benzo (a) pyrene-d12	190		"	200		93.0	60-130			
Surrogate: Pyrene-d10	200		"	200		101	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

Andrew Newberry

Project Number: [none]

Project: Noble - Macbain (Bainbridge) #1

### 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.*

Jen Pellegrini For Jordan A. Bynon, Project Manager