



## **FIGURES**

**Figure 1: Groundwater Analytical Map (01/05/24)**

**Figure 2: Inorganic Groundwater Parameters Map (01/05/24)**

**Figure 3: Dissolved Metals Analytical Map (01/05/24)**



MW-02  
01/05/24  
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

MW-01  
01/05/24  
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

MW-03  
01/05/24  
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

MW-05  
01/05/24  
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

MW-04  
01/05/24  
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

**LEGEND**

- INITIAL ASSESSMENT BOUNDARIES
- APPROXIMATE 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)

µg/L = MICROGRAMS PER LITER

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

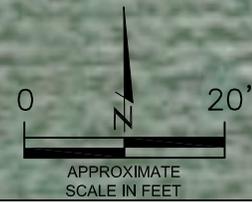
VALUES PRESENTED IN **BOLD** EXCEED THE ECMC TABLE 915-1 REGULATORY LIMITS.

ECMC = ENERGY & CARBON MANAGEMENT COMMISSION

**GROUNDWATER ANALYTICAL MAP**  
(01/05/24)  
ROTH #12-30  
CLOSURE ASSESSMENT  
40.455025 / -104.599906  
NW¼ SW¼ SEC.30 T6N R64W 6PM  
WELD COUNTY, COLORADO  
API # 05-123-13046  
REMEDATION # 22292

FIGURE NO.  
1  
DRAWN BY:  
IM

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





MW-02  
01/05/24  
C = 37.5  
S = 281  
TDS= 1040

MW-01  
01/05/24  
C = 33.8  
S = 254  
TDS= 838

MW-03  
01/05/24  
C = 33.0  
S = 254  
TDS= 940

MW-05  
01/05/24  
C = 33.1  
S = 252  
TDS= 730

MW-04  
01/05/24  
C = 34.2  
S = 257  
TDS= 980

**LEGEND**

- INITIAL ASSESSMENT BOUNDARIES
- APPROXIMATE MONITORING WELL LOCATIONS

PARAMETERS

SAMPLE LOCATION  
DATE  
C = CHLORIDE (mg/L)  
S = SULFATE (mg/L)  
TDS = TOTAL DISSOLVED SOLIDS (mg/L)

mg/L = MILLIGRAMS PER LITER

NOTE:

LOCAL BACKGROUND LIMITS HAVE NOT BEEN ESTABLISHED FOR INORGANIC PARAMETERS IN GROUNDWATER AT THIS SITE. THE LOCAL BACKGROUND LIMIT WILL BE 1.25\*BACKGROUND CONCENTRATIONS.

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

ECMC = ENERGY & CARBON MANAGEMENT COMMISSION

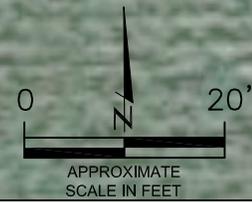
INORGANIC GROUNDWATER PARAMETERS MAP  
(01/05/24)  
ROTH #12-30  
CLOSURE ASSESSMENT  
40.455025 / -104.599906  
NW¼ SW¼ SEC.30 T6N R64W 6PM  
WELD COUNTY, COLORADO  
API # 05-123-13046  
REMEDATION # 22292

FIGURE NO.  
2

DRAWN BY:  
IM



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MW-02  
01/05/24  
Ar = **0.579**  
Ba = **12.8**  
Se = 0.00592

MW-01  
01/05/24  
Ar = **0.282**  
Ba = **4.120**  
Se = 0.00381

MW-03  
01/05/24  
Ar = **0.161**  
Ba = **4.180**  
Se = 0.00303

MW-05  
01/05/24  
Ar = **0.464**  
Ba = **7.340**  
Se = 0.00412

MW-04  
01/05/24  
Ar = **1.070**  
Ba = **13.400**  
Se = 0.00534

**LEGEND**

- INITIAL ASSESSMENT BOUNDARIES
- APPROXIMATE MONITORING WELL LOCATIONS

PARAMETERS

SAMPLE LOCATION  
DATE SAMPLE COLLECTED  
Ar - Arsenic = (mg/L)  
Ba - Barium = (mg/L)  
Se - Selenium = (mg/L)

mg/L = MILLIGRAMS PER LITER

NOTES:  
Values presented in **BOLD** exceed the CDPHE WQCC Regulation 41 Domestic Water Supply - Human Health Standards

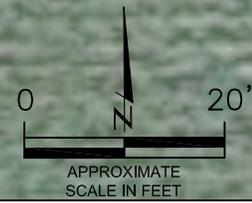
Values presented with a less than symbol (<) did not contain concentrations at or above the laboratory reporting limit or minimum detection levels

CDPHE WQCC = COLORADO DEPARTMENT OF PUBLIC HEALTH AND ENVIRONMENT, WATER QUALITY CONTROL COMMISSION

DISSOLVED METALS ANALYTICAL MAP  
(01/05/24)  
ROTH #12-30  
HISTORICAL RELEASE  
40.455025 / -104.599906  
NW¼ SW¼ SEC.30 T6N R64W 6PM  
WELD COUNTY, COLORADO  
API # 05-123-13046  
REMEDATION # 22292

FIGURE NO.  
3  
DRAWN BY:  
IM

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## **TABLES**

**Table 1: Groundwater Analytical Results Summary**

**Table 2: Inorganic Groundwater Parameters Summary**

**Table 3: Dissolved Metals Analytical Results Summary**

**Table 4: Groundwater Elevation Summary**



**TABLE 2**  
**INORGANIC GROUNDWATER PARAMETERS SUMMARY**  
**ROTH #12-30**  
**HISTORICAL RELEASE**  
**40.455025 / -104.599906**  
**NW1/4 SW1/4 SEC.30 T6N R64W 6PM**  
**WELD COUNTY, COLORADO**  
**API # 05-123-13046**  
**REMEDIATION # 22292**

Sample Location	Date	Chlorides (mg/L)	Sulfates (mg/L)	Total Dissolved Solids (mg/L)
<i>ECMC Table 915-1 Regulatory Limits (mg/L)</i>		<b>250</b>	<b>1.25 x Local Background</b>	<b>1.25 x Local Background</b>
MW-01	10/20/23	70.2	340	784
	01/05/24	33.8	254	838
MW-02	10/20/23	67.8	329	728
	01/05/24	37.5	281	1040
MW-03	10/20/23	88.6	399	964
	01/05/24	33.0	254	940
MW-04	10/20/23	63.9	329	804
	01/05/24	34.2	257	980
MW-05	10/20/23	85.6	365	840
	01/05/24	33.1	252	730
Notes: mg/L - milligrams per liter  Local background limits have not been established for inorganic parameters in groundwater at this site. Upgradient well(s) will be used in the determination of a local background level. The local background limit will be 1.25*background concentrations. Values presented in <b>bold</b> typeface exceed their respective ECMC - Regulatory Limits (Table 915-1).				

TABLE 3  
DISSOLVED METALS ANALYTICAL RESULTS SUMMARY  
ROTH #12-30  
HISTORICAL RELEASE  
40.455025 / -104.599906  
NW1/4 SW1/4 SEC.30 T6N R64W 6PM  
WELD COUNTY, COLORADO  
API # 05-123-13046  
REMEDATION # 22292

Sample Location	Date	Arsenic (mg/L)	Barium (mg/L)	Cadmium (mg/L)	Chromium (Hexavalent) (mg/L)	Copper (mg/L)	Lead (mg/L)	Nickel (mg/L)	Selenium (mg/L)	Silver (mg/L)	Zinc (mg/L)
<b>ECMC Table 915-1 Regulatory Limits</b>		--	--	--		--	--	--	--	--	--
<b>CDPHE WQCC Regulation 41 Standards</b>		<b>0.01</b>	<b>2.0</b>	<b>0.005</b>	<b>0.1</b>	<b>1</b>	<b>0.05</b>	<b>0.1</b>	<b>0.05</b>	<b>0.05</b>	<b>5</b>
MW-01	10/31/23	<b>0.0137</b>	0.0423	NA	NA	NA	<0.00011	NA	<b>0.00437</b>	NA	NA
	01/05/24	<b>0.282</b>	<b>4.120</b>	NA	NA	NA	NA	NA	0.00381	NA	NA
MW-02	10/31/23	0.00664	0.0485	NA	NA	NA	<0.00011	NA	<b>0.00227</b>	NA	NA
	01/05/24	<b>0.579</b>	<b>12.800</b>	NA	NA	NA	NA	NA	0.00592	NA	NA
MW-03	10/31/23	<b>0.0176</b>	0.0307	NA	NA	NA	<0.00011	NA	<b>0.00246</b>	NA	NA
	01/05/24	<b>0.161</b>	<b>4.180</b>	NA	NA	NA	NA	NA	0.00303	NA	NA
MW-04	10/31/23	<b>0.0165</b>	0.0454	NA	NA	NA	<0.00011	NA	<b>0.00245</b>	NA	NA
	01/05/24	<b>1.070</b>	<b>13.400</b>	NA	NA	NA	NA	NA	0.00534	NA	NA
MW-05	10/31/23	0.00565	0.0854	NA	NA	NA	<0.00011	NA	<b>0.00266</b>	NA	NA
	01/05/24	<b>0.464</b>	<b>7.340</b>	NA	NA	NA	NA	NA	0.00412	NA	NA

ECMC = Energy & Carbon Management Commission

CDPHE WQCC = Colorado Department of Public Health and Environment, Water Quality Control Commission

mg/L = milligrams per liter

NA = Not Analyzed

Notes: Values presented with a less than symbol (<) did not contain concentrations at or above the laboratory reporting limit or minimum detection levels.

Notes: Values presented in **BOLD** exceed the CDPHE WQCC Regulation 41 Domestic Water Supply - Human Health Standards



**TABLE 4**  
**GROUNDWATER ELEVATION SUMMARY**  
**ROTH #12-30**  
**HISTORICAL RELEASE**  
**40.455025 / -104.599906**  
**NW1/4 SW1/4 SEC.30 T6N R64W 6PM**  
**WELD COUNTY, COLORADO**  
**API # 05-123-13046**  
**REMEDATION # 22292**

Sample Location	Date	Depth to Groundwater from Top of Casing (feet)
MW-01	10/20/23	21.87
	10/31/23	22.69
	01/05/24	24.00
MW-02	10/20/23	21.69
	10/31/23	22.49
	01/05/24	23.24
MW-03	10/20/23	21.47
	10/31/23	22.61
	01/05/24	23.66
MW-04	10/20/23	21.98
	10/31/23	22.80
	01/05/24	24.10
MW-05	10/20/23	21.84
	10/31/23	22.68
	01/05/24	23.98
NOTES: DES = Destroyed                      NOP = Not on Plan NM = Not Measured                  INA = Inaccessible		





## **ATTACHMENT A**

### **Laboratory Analytical Reports**



January 17, 2024

**Eagle Environmental Consulting, LLC**

**Andrew Newberry**

**8000 W 44th Ave**

**Wheat Ridge CO 80033**

**Project Name - Noble - Roth #12-30**

**Project Number - [none]**

Attached are your analytical results for Noble - Roth #12-30 received by Origins Laboratory, Inc. January 05, 2024. This project is associated with Origins project number Y401119-01.

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 - Roth #12-30

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-01	Y401119-01	Water	January 5, 2024 12:00	01/05/2024 15:42
MW-02	Y401119-02	Water	January 5, 2024 12:15	01/05/2024 15:42
MW-03	Y401119-03	Water	January 5, 2024 12:30	01/05/2024 15:42
MW-04	Y401119-04	Water	January 5, 2024 12:45	01/05/2024 15:42
MW-05	Y401119-05	Water	January 5, 2024 13:00	01/05/2024 15:42

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 - Roth #12-30

Origins Laboratory

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

**Sample Receipt Checklist**

Origins Work Order: 4401119

Client: Eagle

Client Project ID: ROTH #12-30

Checklist Completed by: TSM/ENS

Shipped Via: HD

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

Date/time completed: 1/8/14

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: T004

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> ?	/	/		SD
Is there ice present (document if blue ice is used)	/	/		
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)	/	/		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)	/	/		
Were all samples received intact <sup>(1)</sup> ?	/	/		
Was adequate sample volume provided <sup>(1)</sup> ?	/	/		
Are short holding time analytes or samples with HTs due within 48 hours present <sup>(1)</sup> ?	/	/		
Is a chain-of-custody (COC) present and filled out completely <sup>(1)</sup> ?	/	/		
Does the COC agree with the number and type of sample bottles received <sup>(1)</sup> ?	/	/		
Do the sample IDs on the bottle labels match the COC <sup>(1)</sup> ?	/	/		
Is the COC properly relinquished by the client with date and time recorded <sup>(1)</sup> ?	/	/		
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.	/	/	/	
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)	/	/	/	
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) [Signature]

Date/Time Reviewed 1/8/14

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

Andrew Newberry  
 Project Number: [none]  
 Project: Noble - Roth #12-30

**MW-01**

**1/5/2024 12:00:00PM**

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

**Origins Laboratory, Inc.**  
**Y401119-01 (Water)**

**Anions by IC 300.0**

Chloride	33.8	31.2	mg/L	125	B4A0905	STW	01/09/2024	01/10/2024	
Sulfate	254	31.2	"	"	"	STW	"	"	

**Total Dissolved Solids by 2540C**

Total Dissolved Solids	838	5.00	"	1	B4A0817	KRM	01/08/2024	01/09/2024	
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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 - Roth #12-30

**MW-02**  
**1/5/2024 12:15:00PM**

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

**Origins Laboratory, Inc.**  
**Y401119-02 (Water)**

**Anions by IC 300.0**

Chloride	37.5	31.2	mg/L	125	B4A0905	STW	01/09/2024	01/10/2024	
Sulfate	281	31.2	"	"	"	STW	"	"	

**Total Dissolved Solids by 2540C**

Total Dissolved Solids	1040	5.00	"	1	B4A0817	KRM	01/08/2024	01/09/2024	
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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

Andrew Newberry  
 Project Number: [none]  
 Project: Noble - Roth #12-30

**MW-03**

**1/5/2024 12:30:00PM**

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

**Origins Laboratory, Inc.**  
**Y401119-03 (Water)**

**Anions by IC 300.0**

Chloride	33.0	31.2	mg/L	125	B4A0905	STW	01/09/2024	01/10/2024	
Sulfate	254	31.2	"	"	"	STW	"	"	

**Total Dissolved Solids by 2540C**

Total Dissolved Solids	940	5.00	"	1	B4A0817	KRM	01/08/2024	01/09/2024	
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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 - Roth #12-30

**MW-04**

**1/5/2024 12:45:00PM**

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

**Origins Laboratory, Inc.  
 Y401119-04 (Water)**

**Anions by IC 300.0**

Chloride	34.2	31.2	mg/L	125	B4A0905	STW	01/09/2024	01/10/2024	
Sulfate	257	31.2	"	"	"	STW	"	"	

**Total Dissolved Solids by 2540C**

Total Dissolved Solids	980	5.00	"	1	B4A0817	KRM	01/08/2024	01/09/2024	
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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 - Roth #12-30

**MW-05**

**1/5/2024 1:00:00PM**

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

**Origins Laboratory, Inc.**  
**Y401119-05 (Water)**

**Anions by IC 300.0**

Chloride	33.1	31.2	mg/L	125	B4A0905	STW	01/09/2024	01/10/2024	
Sulfate	252	31.2	"	"	"	STW	"	"	

**Total Dissolved Solids by 2540C**

Total Dissolved Solids	730	5.00	"	1	B4A0817	KRM	01/08/2024	01/09/2024	
------------------------	-----	------	---	---	---------	-----	------------	------------	--

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 - Roth #12-30

**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 B4A0817 - NO PREP</b>										
<b>Blank (B4A0817-BLK1)</b>					Prepared: 01/08/2024 Analyzed: 01/09/2024					
Total Dissolved Solids	ND	5.00	mg/L							
<b>LCS (B4A0817-BS1)</b>					Prepared: 01/08/2024 Analyzed: 01/09/2024					
Total Dissolved Solids	988	5.00	mg/L	1030		95.9	90-110			
<b>Duplicate (B4A0817-DUP1)</b>		<b>Source: Y401110-05</b>			Prepared: 01/08/2024 Analyzed: 01/09/2024					
Total Dissolved Solids	2530	5.00	mg/L		2590			2.58	10	
<b>Batch B4A0905 - Filter .45um non acidified</b>										
<b>Blank (B4A0905-BLK1)</b>					Prepared: 01/09/2024 Analyzed: 01/10/2024					
Chloride	ND	0.250	mg/L							U
Sulfate	ND	0.250	"							U
<b>LCS (B4A0905-BS1)</b>					Prepared: 01/09/2024 Analyzed: 01/10/2024					
Chloride	3.74	0.250	mg/L	4.00		93.6	90-110			
Sulfate	3.83	0.250	"	4.00		95.8	90-110			
<b>Matrix Spike (B4A0905-MS1)</b>		<b>Source: Y401111-01</b>			Prepared: 01/09/2024 Analyzed: 01/10/2024					
Chloride	1510		mg/L	500	1010	100	90-110			
Sulfate	125000000		"	500	11700	NR	90-110			QM-4X
<b>Matrix Spike Dup (B4A0905-MSD1)</b>		<b>Source: Y401111-01</b>			Prepared: 01/09/2024 Analyzed: 01/10/2024					
Chloride	1500		mg/L	500	1010	98.8	90-110	0.564	5	
Sulfate	125000000		"	500	11700	NR	90-110	0.00	5	QM-4X

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 - Roth #12-30

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### Notes and Definitions

U Sample is Non-Detect.

QM-4X The spike recovery was outside of QC acceptance limits for the MS and/or MSD due to analyte concentration at 4 times or greater the spike concentration. The QC batch was accepted based on LCS and/or LCSD recoveries within the acceptance limits.

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.*



January 17, 2024

Eagle Environmental Consulting, LLC

Andrew Newberry

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - Noble - Roth #12-30

Project Number - [none]

Attached are your analytical results for Noble - Roth #12-30 received by Origins Laboratory, Inc. January 05, 2024. This project is associated with Origins project number Y401120-01.

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 - Roth #12-30

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-01	Y401120-01	Water	January 5, 2024 12:00	01/05/2024 15:42
MW-02	Y401120-02	Water	January 5, 2024 12:15	01/05/2024 15:42
MW-03	Y401120-03	Water	January 5, 2024 12:30	01/05/2024 15:42
MW-04	Y401120-04	Water	January 5, 2024 12:45	01/05/2024 15:42
MW-05	Y401120-05	Water	January 5, 2024 13:00	01/05/2024 15:42

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 - Roth #12-30

Origins Laboratory

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

**Sample Receipt Checklist**

Origins Work Order: 4401120

Client: Eagle

Client Project ID: Roth #12-30

Checklist Completed by: TJH/ENS

Shipped Via: HD

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

Date/time completed: 1/5/24

Airbill #: N/A

Matrix(s) Received: (Check all that apply):  Soil/Solid  Water  Other: \_\_\_\_\_ (Describe)

Cooler Number/Temperature: 1 / 8 °C / \_\_\_\_\_ °C / \_\_\_\_\_ °C / \_\_\_\_\_ °C

Thermometer ID: T004

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 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 (> ¼ inch bubble) present? <b>If yes, contact client and note in narrative.</b>	<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"/>	
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 be taken in the additional comments (above) and the case narrative.

Reviewed by (Project Manager) [Signature]

Date/Time Reviewed 1/8/24

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

Andrew Newberry  
 Project Number: [none]  
 Project: Noble - Roth #12-30

**MW-01**

**1/5/2024 12:00:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y401120-01 (Water)**

**Dissolved Metals by EPA 200.8**

Arsenic	<b>282</b>	1.00	ug/L	10	B4A0238	HJD	01/05/2024	01/12/2024	
Barium	<b>4120</b>	10.0	"	"	"	HJD	"	"	
Selenium	<b>3.81</b>	1.00	"	"	"	HJD	"	"	

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 - Roth #12-30

**MW-02**

**1/5/2024 12:15:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
Y401120-02 (Water)

**Dissolved Metals by EPA 200.8**

Arsenic	579	1.00	ug/L	10	B4A0238	HJD	01/05/2024	01/12/2024	
Barium	12800	10.0	"	"	"	HJD	"	"	
Selenium	5.92	1.00	"	"	"	HJD	"	"	

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 - Roth #12-30

**MW-03**

**1/5/2024 12:30:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
Y401120-03 (Water)

**Dissolved Metals by EPA 200.8**

Arsenic	161	1.00	ug/L	10	B4A0238	HJD	01/05/2024	01/12/2024	
Barium	4180	10.0	"	"	"	HJD	"	"	
Selenium	3.03	1.00	"	"	"	HJD	"	"	

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 - Roth #12-30

**MW-04**

**1/5/2024 12:45:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y401120-04 (Water)**

**Dissolved Metals by EPA 200.8**

Arsenic	1070	1.00	ug/L	10	B4A0238	HJD	01/05/2024	01/12/2024	
Barium	13400	10.0	"	"	"	HJD	"	"	
Selenium	5.34	1.00	"	"	"	HJD	"	"	

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 - Roth #12-30

**MW-05**

**1/5/2024 1:00:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y401120-05 (Water)**

**Dissolved Metals by EPA 200.8**

Arsenic	464	1.00	ug/L	10	B4A0238	HJD	01/05/2024	01/12/2024	
Barium	7340	10.0	"	"	"	HJD	"	"	
Selenium	4.12	1.00	"	"	"	HJD	"	"	

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 - Roth #12-30

**Metals by EPA 200 Series Methods - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B4A0238 - EPA 200.8 Preparation</b>										
<b>Blank (B4A0238-BLK1)</b>					Prepared: 01/02/2024 Analyzed: 01/12/2024					
Arsenic	ND	0.100	ug/L							
Barium	ND	1.00	"							
Selenium	ND	0.100	"							
<b>LCS (B4A0238-BS1)</b>					Prepared: 01/02/2024 Analyzed: 01/12/2024					
Arsenic	59.9	0.100	ug/L	55.6		108	85-115			
Barium	5330	1.00	"	5560		96.0	85-115			
Selenium	59.3	0.100	"	55.6		107	85-115			
<b>Matrix Spike (B4A0238-MS1)</b>		<b>Source: Y401007-03</b>			Prepared: 01/02/2024 Analyzed: 01/15/2024					
Arsenic	109	2.00	ug/L	55.6	80.0	53.0	70-130			QM-07
Barium	11800	20.0	"	5560	7270	80.6	70-130			QM-07
Selenium	12.9	2.00	"	55.6	2.67	18.4	70-130			QM-07
<b>Matrix Spike Dup (B4A0238-MSD1)</b>		<b>Source: Y401007-03</b>			Prepared: 01/02/2024 Analyzed: 01/15/2024					
Arsenic	108	2.00	ug/L	55.6	80.0	50.0	70-130	1.49	25	QM-07
Barium	11800	20.0	"	5560	7270	81.7	70-130	0.518	25	QM-07
Selenium	13.1	2.00	"	55.6	2.67	18.8	70-130	1.88	25	QM-07

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 - Roth #12-30

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### Notes and Definitions

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.*

---

Jordan A. Bynon, Project Manager



January 17, 2024

**Eagle Environmental Consulting, LLC**

**Andrew Newberry**

**8000 W 44th Ave**

**Wheat Ridge CO 80033**

**Project Name - Noble - Roth #12-30**

**Project Number - [none]**

Attached are your analytical results for Noble - Roth #12-30 received by Origins Laboratory, Inc. January 05, 2024. This project is associated with Origins project number Y401121-01.

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 - Roth #12-30

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-01	Y401121-01	Water	January 5, 2024 12:00	01/05/2024 15:42
MW-02	Y401121-02	Water	January 5, 2024 12:15	01/05/2024 15:42
MW-03	Y401121-03	Water	January 5, 2024 12:30	01/05/2024 15:42
MW-04	Y401121-04	Water	January 5, 2024 12:45	01/05/2024 15:42
MW-05	Y401121-05	Water	January 5, 2024 13:00	01/05/2024 15:42

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 - Roth #12-30

Origins Laboratory

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

**Sample Receipt Checklist**

Origins Work Order: 4401121

Client: Eagle

Client Project ID: Roth #12-30

Checklist Completed by: TJH/ENS

Shipped Via: TLD

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

Date/time completed: 1/5/24

Airbill #: N/A

Matrix(s) Received: (Check all that apply):  Soil/Solid  Water  Other: \_\_\_\_\_

Cooler Number/Temperature: 118 °C / \_\_\_\_\_ °C / \_\_\_\_\_ °C (Describe) \_\_\_\_\_ °C

Thermometer ID: T004

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? <b>If yes, contact client and note in narrative.</b>		<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 HNO3, HCL, H2SO4) / (pH >10 for samples preserved with NaAsO2+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) [Signature]

Date/Time Reviewed 1/8/24

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

Andrew Newberry  
 Project Number: [none]  
 Project: Noble - Roth #12-30

**MW-01**  
**1/5/2024 12:00:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y401121-01 (Water)**

**BTEX+N+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND	2.00	ug/L	1	B4A0816	JSM	01/08/2024	01/08/2024	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	102 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	108 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	84.8 %	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 - Roth #12-30

**MW-02**

**1/5/2024 12:15:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y401121-02 (Water)**

**BTEX+N+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND	2.00	ug/L	1	B4A0816	JSM	01/08/2024	01/08/2024	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	102 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	108 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	85.1 %	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 - Roth #12-30

**MW-03**

**1/5/2024 12:30:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y401121-03 (Water)**

**BTEX+N+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND	2.00	ug/L	1	B4A0816	JSM	01/08/2024	01/08/2024	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	104 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	108 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	84.4 %	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 - Roth #12-30

**MW-04**  
**1/5/2024 12:45:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y401121-04 (Water)**

**BTEX+N+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND	2.00	ug/L	1	B4A0816	JSM	01/08/2024	01/08/2024	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	102 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	109 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	84.0 %	70-130			"	"	"	"	

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 8000 W 44th Ave  
 Wheat Ridge CO 80033

Andrew Newberry  
 Project Number: [none]  
 Project: Noble - Roth #12-30

**MW-05**

**1/5/2024 1:00:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y401121-05 (Water)**

**BTEX+N+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND	2.00	ug/L	1	B4A0816	JSM	01/08/2024	01/08/2024	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	102 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	107 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	83.1 %	70-130			"	"	"	"	

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B4A0816 - EPA 5030B (Water)**

**Blank (B4A0816-BLK1)**

Prepared: 01/08/2024 Analyzed: 01/08/2024

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	65		"	62.5		103	70-130			
Surrogate: Toluene-d8	68		"	62.5		109	70-130			
Surrogate: 4-Bromofluorobenzene	52		"	62.5		83.4	70-130			

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B4A0816 - EPA 5030B (Water)**

**LCS (B4A0816-BS1)**

Prepared: 01/08/2024 Analyzed: 01/08/2024

1,2,4-Trimethylbenzene	43.5	2.00	ug/L	50.0		87.0	70-130			
1,3,5-Trimethylbenzene	43.6	2.00	"	50.0		87.2	70-130			
Benzene	47.4	1.00	"	50.0		94.8	70-130			
Ethylbenzene	46.6	1.00	"	50.0		93.2	70-130			
m,p-Xylene	92.5	2.00	"	100		92.5	70-130			
Naphthalene	46.1	2.00	"	50.0		92.3	70-130			
o-Xylene	46.4	1.00	"	50.0		92.8	70-130			
Toluene	44.5	1.00	"	50.0		89.0	70-130			
Surrogate: 1,2-Dichloroethane-d4	62		"	62.5		100	70-130			
Surrogate: Toluene-d8	65		"	62.5		104	70-130			
Surrogate: 4-Bromofluorobenzene	58		"	62.5		92.2	70-130			

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B4A0816 - EPA 5030B (Water)**

Matrix Spike (B4A0816-MS1)	Source: Y401121-01			Prepared: 01/08/2024 Analyzed: 01/08/2024						
1,2,4-Trimethylbenzene	45.9	2.00	ug/L	50.0	ND	91.8	70-130			
1,3,5-Trimethylbenzene	46.0	2.00	"	50.0	ND	92.0	70-130			
Benzene	47.4	1.00	"	50.0	ND	94.7	70-130			
Ethylbenzene	48.3	1.00	"	50.0	ND	96.6	70-130			
m,p-Xylene	95.6	2.00	"	100	ND	95.6	70-130			
Naphthalene	46.9	2.00	"	50.0	ND	93.8	70-130			
o-Xylene	48.0	1.00	"	50.0	ND	95.9	70-130			
Toluene	45.5	1.00	"	50.0	ND	91.0	70-130			
Surrogate: 1,2-Dichloroethane-d4	60		"	62.5		95.8	70-130			
Surrogate: Toluene-d8	66		"	62.5		105	70-130			
Surrogate: 4-Bromofluorobenzene	58		"	62.5		92.5	70-130			

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B4A0816 - EPA 5030B (Water)**

Matrix Spike Dup (B4A0816-MSD1)	Source: Y401121-01			Prepared: 01/08/2024 Analyzed: 01/08/2024						
1,2,4-Trimethylbenzene	51.6	2.00	ug/L	50.0	ND	103	70-130	11.6	20	
1,3,5-Trimethylbenzene	51.5	2.00	"	50.0	ND	103	70-130	11.2	20	
Benzene	55.0	1.00	"	50.0	ND	110	70-130	14.9	20	
Ethylbenzene	53.2	1.00	"	50.0	ND	106	70-130	9.77	20	
m,p-Xylene	106	2.00	"	100	ND	106	70-130	10.3	20	
Naphthalene	55.3	2.00	"	50.0	ND	111	70-130	16.5	20	
o-Xylene	53.2	1.00	"	50.0	ND	106	70-130	10.4	20	
Toluene	51.7	1.00	"	50.0	ND	103	70-130	12.8	20	
Surrogate: 1,2-Dichloroethane-d4	61		"	62.5		97.6	70-130			
Surrogate: Toluene-d8	65		"	62.5		104	70-130			
Surrogate: 4-Bromofluorobenzene	57		"	62.5		91.1	70-130			

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**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.

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