



FIGURES

Figure 1: Groundwater Analytical Map (04/01/24)

Figure 2: Inorganic Groundwater Parameters Map (04/01/24)

Figure 3: Dissolved Metals Analytical Map (04/01/24)



LEGEND

- INITIAL ASSESSMENT BOUNDARIES
- DESTROYED MONITORING WELL LOCATIONS
- 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 AND/OR ECMC NARRATIVE GROUNDWATER QUALITY STANDARDS*.

ECMC = ENERGY & CARBON MANAGEMENT COMMISSION

DES = DESTROYED

GROUNDWATER ANALYTICAL MAP

(04/01/24)
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.
1

DRAWN BY:
IM



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



LEGEND

- INITIAL ASSESSMENT BOUNDARIES
- ⊕ DESTROYED MONITORING WELL LOCATIONS
- ⊙ 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

DES = DESTROYED

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

(04/01/24)
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.
2

DRAWN BY:
IM



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Ph: 303-433-0479 • F: 303-325-5449



LEGEND

- INITIAL ASSESSMENT BOUNDARIES
- DESTROYED MONITORING WELL LOCATIONS
- APPROXIMATE MONITORING WELL LOCATIONS

PARAMETERS

SAMPLE LOCATION
DATE SAMPLE COLLECTED

Ar - Arsenic (mg/L)
Ba - Barium (mg/L)
Pb - Lead (mg/L)
Se - Selenium (mg/L)

mg/L = MILLIGRAMS PER LITER

DES = DESTROYED

NOTES:

Values presented in **BOLD** exceed the CDPHE WGCC 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

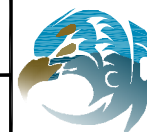
CDPHE WQCC = COLORADO DEPARTMENT OF PUBLIC HEALTH AND ENVIRONMENT, WATER QUALITY CONTROL COMMISSION

DISSOLVED METALS ANALYTICAL MAP

(04/01/24)
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



EAGLE
ENVIRONMENTAL
CONSULTING, LLC
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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 1
GROUNDWATER 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	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)
ECMC Table 915-1 Regulatory Limits (µg/L)		5	560	700	1,400	140	67	67
MW-01	10/20/23	<1.00	<1.00	<1.00	<1.00	<2.00	<2.00	<2.00
	01/05/24	<1.00	<1.00	<1.00	<1.00	<2.00	<2.00	<2.00
	04/01/24	<1.00	<1.00	<1.00	<1.00	<2.00	<2.00	<2.00
MW-02	10/20/23	<1.00	<1.00	<1.00	<1.00	<2.00	<2.00	<2.00
	01/05/24	<1.00	<1.00	<1.00	<1.00	<2.00	<2.00	<2.00
	04/01/24	DES						
MW-03	10/20/23	<1.00	<1.00	<1.00	<1.00	<2.00	<2.00	<2.00
	01/05/24	<1.00	<1.00	<1.00	<1.00	<2.00	<2.00	<2.00
	04/01/24	<1.00	<1.00	<1.00	<1.00	<2.00	<2.00	<2.00
MW-04	10/20/23	<1.00	<1.00	<1.00	<1.00	<2.00	<2.00	<2.00
	01/05/24	<1.00	<1.00	<1.00	<1.00	<2.00	<2.00	<2.00
	04/01/24	<1.00	<1.00	<1.00	<1.00	<2.00	<2.00	<2.00
MW-05	10/20/23	<1.00	<1.00	<1.00	<1.00	<2.00	<2.00	<2.00
	01/05/24	<1.00	<1.00	<1.00	<1.00	<2.00	<2.00	<2.00
	04/01/24	<1.00	<1.00	<1.00	<1.00	<2.00	<2.00	<2.00
NOTES: ECMC = Energy & Carbon Management Commission µg/L = micrograms per liter Values presented with a less than symbol (<) indicate concentrations were not observed at or above the laboratory reporting limit. Values presented in bold typeface exceed their respective ECMC - Regulatory Limits (Table 915-1).								
			NOP = Not on Plan INA = Inaccessible			DES = Destroyed		

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
REMEDATION # 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>		250	1.25 x Local Background	1.25 x Local Background
MW-01	10/20/23	70.2	340	784
	01/05/24	33.8	254	838
	04/01/24	52.9	317	860
MW-02	10/20/23	67.8	329	728
	01/05/24	37.5	281	1040
	04/01/24	DES		
MW-03	10/20/23	88.6	399	964
	01/05/24	33.0	254	940
	04/01/24	52.1	319	880
MW-04	10/20/23	63.9	329	804
	01/05/24	34.2	257	980
	04/01/24	51.4	315	780
MW-05	10/20/23	85.6	365	840
	01/05/24	33.1	252	730
	04/01/24	51.6	314	840
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 bold 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)
ECMC Table 915-1 Regulatory Limits		--	--	--		--	--	--	--	--	--
CDPHE WQCC Regulation 41 Standards		0.01	2.0	0.005	0.1	1	0.05	0.1	0.05	0.05	5
MW-01	10/31/23	0.0137	0.0423	NA	NA	NA	<0.00011	NA	0.00437	NA	NA
	01/05/24	0.282	4.120	NA	NA	NA	NA	NA	.00381	NA	NA
	04/01/24	0.0108	0.0514	NA	NA	NA	0.00116	NA	0.00276	NA	NA
MW-02	10/31/23	0.00664	0.0485	NA	NA	NA	<0.00011	NA	0.00227	NA	NA
	01/05/24	0.579	12.800	NA	NA	NA	NA	NA	0.00592	NA	NA
	04/01/24	DES									
MW-03	10/31/23	0.0176	0.0307	NA	NA	NA	<0.00011	NA	0.00246	NA	NA
	01/05/24	0.161	4.180	NA	NA	NA	NA	NA	0.00303	NA	NA
	04/01/24	0.0147	0.0518	NA	NA	NA	0.000847	NA	0.00268	NA	NA
MW-04	10/31/23	0.0165	0.0454	NA	NA	NA	<0.00011	NA	0.00245	NA	NA
	01/05/24	1.070	13.400	NA	NA	NA	NA	NA	0.00534	NA	NA
	04/01/24	0.0179	0.097	NA	NA	NA	0.00588	NA	0.00294	NA	NA
MW-05	10/31/23	0.00565	0.0854	NA	NA	NA	<0.00011	NA	0.00266	NA	NA
	01/05/24	0.464	7.340	NA	NA	NA	NA	NA	0.00412	NA	NA
	04/01/24	0.0160	0.0851	NA	NA	NA	0.00948	NA	0.00286	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
	04/01/24	24.64
MW-02	10/20/23	21.69
	10/31/23	22.49
	04/01/24	DES
MW-03	10/20/23	21.47
	10/31/23	22.61
	04/01/24	24.28
MW-04	10/20/23	21.98
	10/31/23	22.80
	04/01/24	24.73
MW-05	10/20/23	21.84
	10/31/23	22.68
	04/01/24	24.62
NOTES: DES = Destroyed NM = Not Measured		
NOP = Not on Plan INA = Inaccessible		



ATTACHMENT A

Laboratory Analytical Reports



April 09, 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. April 01, 2024. This project is associated with Origins project number Y404005-01.

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	Y404005-01	Water	April 1, 2024 11:00	04/01/2024 13:12
MW-03	Y404005-02	Water	April 1, 2024 11:15	04/01/2024 13:12
MW-04	Y404005-03	Water	April 1, 2024 11:30	04/01/2024 13:12
MW-05	Y404005-04	Water	April 1, 2024 11:45	04/01/2024 13:12

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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

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

ORIGINS
LABORATORY, INC

Client: Eagle Environmental Consulting
Address: 8000 W 44th Ave
Telephone Number: 303-433-0494
Email Address: anewberry@eagle-env.com

Project Manager: Andrew Newberry
Project Name: Roth #12-30
Project Number: SL
Samples Collected By: SL

Temp Received: 9 Date Results Needed: Noble

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix		Analysis	Sample Instructions
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil		
M1-01	4/11/24	1100	1	X						X	
M1-05		1115	1							X	
M1-04		1130	1							X	
M1-05		1145	1							X	

Relinquished By: John Stiles Date: 4/11/24 Time: 1310
Received By: [Signature] Date: 4/11/24 Time: 1612

Turnaround Time: ☐ Same Day ☐ 24 Hr ☐ 48 Hr ☒ 72 Hr ☐ Standard

Origins Laboratory, Inc.

Jefe Pellegrini

Jen Pellegrini, Project Manager

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: 1404005 Client: Eagle
Client Project ID: Noble - Roth # 12-30

Checklist Completed by: SPIGUA Shipped Via: HD
Date/time completed: 4/11/24 (UPS, FedEx, Hand Delivered, Pick-up, etc.)
Airbill #: N/A

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

Cooler Number/Temperature: 1, 9 °C 1 °C 1 °C (Describe) 1 °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 ⁽¹⁾ ?		<u>/</u>		<u>SD</u>
Is there ice present (document if blue ice is used)	<u>/</u>			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		<u>/</u>		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)		<u>/</u>		
Were all samples received intact ⁽¹⁾ ?	<u>/</u>			
Was adequate sample volume provided ⁽¹⁾ ?	<u>/</u>			
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?		<u>/</u>		
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	<u>/</u>			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<u>/</u>			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<u>/</u>			
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	<u>/</u>			
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.			<u>/</u>	
Are samples preserved that require preservation and was it checked ⁽¹⁾ ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)/(pH <2 for samples preserved with HNO ₃ , HCL, H ₂ SO ₄) / (pH >10 for samples preserved with NaAsO ₂ +NaOH, ZnAc+NaOH)			<u>/</u>	
Additional Comments (if any):				

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

Reviewed by (Project Manager) [Signature] Date/Time Reviewed 4/12/24

Origins Laboratory, Inc.

Jefe Pellegrini

Jen Pellegrini, Project Manager

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

4/1/2024 11:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
---------	--------	------------------------	--------------------	-------	----------	-------	----------	----------	-------

GEL Laboratories, LLC

Y404005-01 (Water)

Dissolved Metals by EPA 200.8

Arsenic	10.8	2.00	5.00	ug/L	1	2592163	04/05/2024	04/08/2024	
Barium	51.4	0.670	4.00	"	"	"	"	"	
Lead	1.16	0.500	2.00	"	"	"	"	"	J
Selenium	2.76	1.50	5.00	"	"	"	"	"	J

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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

4/1/2024 11:15:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
---------	--------	------------------------	--------------------	-------	----------	-------	----------	----------	-------

GEL Laboratories, LLC
Y404005-02 (Water)

Dissolved Metals by EPA 200.8

Arsenic	14.7	2.00	5.00	ug/L	1	2592163	04/05/2024	04/08/2024	
Barium	51.8	0.670	4.00	"	"	"	"	"	
Lead	0.847	0.500	2.00	"	"	"	"	"	J
Selenium	2.68	1.50	5.00	"	"	"	"	"	J

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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

4/1/2024 11:30:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
---------	--------	---------------------	-----------------	-------	----------	-------	----------	----------	-------

GEL Laboratories, LLC

Y404005-03 (Water)

Dissolved Metals by EPA 200.8

Arsenic	17.9	2.00	5.00	ug/L	1	2592163	04/05/2024	04/08/2024	
Barium	97.0	0.670	4.00	"	"	"	"	"	
Lead	5.88	0.500	2.00	"	"	"	"	"	
Selenium	2.94	1.50	5.00	"	"	"	"	"	J

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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

4/1/2024 11:45:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
---------	--------	---------------------	-----------------	-------	----------	-------	----------	----------	-------

GEL Laboratories, LLC

Y404005-04 (Water)

Dissolved Metals by EPA 200.8

Arsenic	16.0	2.00	5.00	ug/L	1	2592163	04/05/2024	04/08/2024	
Barium	85.1	0.670	4.00	"	"	"	"	"	
Lead	3.48	0.500	2.00	"	"	"	"	"	
Selenium	2.86	1.50	5.00	"	"	"	"	"	J

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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

Dissolved Metals by EPA 200.8 - Quality Control GEL Laboratories, LLC

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2592163 -										
FLTB (1205694319-BLK)					Prepared: 04/05/2024 Analyzed: 04/08/2024					
Barium	ND	4.00	ug/L				-			U
Lead	ND	2.00	"				-			U
Selenium	ND	5.00	"				-			U
Arsenic	ND	5.00	"				-			U
BLANK (1205694459-BLK)					Prepared: 04/05/2024 Analyzed: 04/08/2024					
Arsenic	ND	5.00	ug/L				-			U
Barium	ND	4.00	"				-			U
Lead	ND	2.00	"				-			U
Selenium	ND	5.00	"				-			U
LCS (1205694460-BKS)					Prepared: 04/05/2024 Analyzed: 04/08/2024					
Lead	52.4	2.00	ug/L	50.0		105	85-115			
Barium	49.0	4.00	"	50.0		98	85-115			
Selenium	52.4	5.00	"	50.0		105	85-115			
Arsenic	50.8	5.00	"	50.0		102	85-115			
DUP (1205694461 D)					Source: Y404005-01		Prepared: 04/05/2024 Analyzed: 04/08/2024			
Arsenic	10.6	5.00	ug/L		10.8		0-20	2.29	20	
Barium	50.0	4.00	"		51.4		0-20	2.78	20	
Lead	1.13	2.00	"		1.16		0-20	2.36	20	J
Selenium	2.80	5.00	"		2.76		0-20	1.33	20	J
MS (1205694462 S)					Source: Y404005-01		Prepared: 04/05/2024 Analyzed: 04/08/2024			
Selenium	48.8	5.00	ug/L	50.0	2.76	92.1	75-125			
Arsenic	58.3	5.00	"	50.0	10.8	95	75-125			
Barium	95.6	4.00	"	50.0	51.4	88.4	75-125			
Lead	46.2	2.00	"	50.0	1.16	90	75-125			

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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

Dissolved Metals by EPA 200.8 - Quality Control
GEL Laboratories, LLC

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2592163 - EPA 200.2

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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

Notes and Definitions

U Result not detected above the detection limit

J Greater than the detection limit but less than the reporting limit

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported on a wet weight basis.

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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.



April 09, 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. April 01, 2024. This project is associated with Origins project number Y404007-01.

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	Y404007-01	Water	April 1, 2024 11:00	04/01/2024 13:12
MW-03	Y404007-02	Water	April 1, 2024 11:15	04/01/2024 13:12
MW-04	Y404007-03	Water	April 1, 2024 11:30	04/01/2024 13:12
MW-05	Y404007-04	Water	April 1, 2024 11:45	04/01/2024 13:12

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

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

ORIGINS
LABORATORY, INC

www.originslaboratory.com

Client: Eagle Environmental Consulting
Address: 8000 W 44th Ave
Telephone Number: 303.433.0444
Email Address: Andrew@Eagle-Enviro.com

Project Manager: Andrew Newberry
Project Name: Roth #12-30
Project Number: [none]
Samples Collected By: SL

Temp Received: 9 Date Results Needed: Noble

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis	Sample Instructions	
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	Air Summa Canister #			
MA-01	4/1/24	1100	3		X						X		1
MA-03		1115											2
MA-04		1130											3
MA-05		1145											4
													5
													6
													7
													8
													9
													10

Relinquished By: Ben Stine Date: 4/1/24 Time: 1312
Received By: COF Date: 4/1/24 Time: 1312

Turnaround Time:
Same Day ☐ 24 Hr ☐
48 Hr ☐ 72 Hr ☐
Standard ☒

Origins Laboratory, Inc.

J. Bynon

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

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

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: Y404007

Client: Eagle

Client Project ID: N061C-ROTH #12-30

Checklist Completed by: SC/KW

Shipped Via: HO

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

Date/time completed: 4/11/12

Airbill #: N/A

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

Cooler Number/Temperature: 1 9 °C 1 °C 1 °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 ⁽¹⁾ ?		<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 ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?		<input checked="" type="checkbox"/>		
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	<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 ⁽¹⁾ ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)/(pH <2 for samples preserved with HNO ₃ , HCL, H ₂ SO ₄) / (pH >10 for samples preserved with NaAsO ₂ +NaOH, ZnAc+NaOH)	<input checked="" type="checkbox"/>			<u>NC</u>
Additional Comments (if any):				

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

Reviewed by (Project Manager) COH

Date/Time Reviewed 4/12/12

Origins Laboratory, Inc.

J. Bynon

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

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

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

MW-01

4/1/2024 11:00:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y404007-01 (Water)

BTEX+N+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	2.00	ug/L	1	B4D0458	JSM	04/04/2024	04/05/2024	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	111 %	70-130	"	"	"
Surrogate: Toluene-d8	101 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	87.2 %	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

4/1/2024 11:15:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y404007-02 (Water)

BTEX+N+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	2.00	ug/L	1	B4D0458	JSM	04/04/2024	04/05/2024	U
1,3,5-Trimethylbenzene	ND	2.00	"	"	"	JSM	"	"	U
Benzene	ND	1.00	"	"	"	JSM	"	"	U
Ethylbenzene	ND	1.00	"	"	"	JSM	"	"	U
Naphthalene	ND	2.00	"	"	"	JSM	"	"	U
Toluene	ND	1.00	"	"	"	JSM	"	"	U
Xylenes, total	ND	1.00	"	"	"	JSM	"	"	U

Surrogate: 1,2-Dichloroethane-d4	112 %	70-130	"	"	"
Surrogate: Toluene-d8	100 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	82.5 %	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

4/1/2024 11:30:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y404007-03 (Water)

BTEX+N+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	2.00	ug/L	1	B4D0458	JSM	04/04/2024	04/05/2024	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	111 %	70-130	"	"	"
Surrogate: Toluene-d8	101 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	84.9 %	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 - Roth #12-30

MW-05

4/1/2024 11:45:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y404007-04 (Water)

BTEX+N+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	2.00	ug/L	1	B4D0458	JSM	04/04/2024	04/05/2024	U
1,3,5-Trimethylbenzene	ND	2.00	"	"	"	JSM	"	"	U
Benzene	ND	1.00	"	"	"	JSM	"	"	U
Ethylbenzene	ND	1.00	"	"	"	JSM	"	"	U
Naphthalene	ND	2.00	"	"	"	JSM	"	"	U
Toluene	ND	1.00	"	"	"	JSM	"	"	U
Xylenes, total	ND	1.00	"	"	"	JSM	"	"	U

Surrogate: 1,2-Dichloroethane-d4	112 %	70-130	"	"	"
Surrogate: Toluene-d8	98.6 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	84.5 %	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

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 B4D0458 - EPA 5030B (Water)										
Blank (B4D0458-BLK1)					Prepared: 04/04/2024 Analyzed: 04/04/2024					
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	72		"	62.5		115	70-130			
Surrogate: Toluene-d8	64		"	62.5		103	70-130			
Surrogate: 4-Bromofluorobenzene	54		"	62.5		86.6	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

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 B4D0458 - EPA 5030B (Water)										
LCS (B4D0458-BS1)					Prepared: 04/04/2024 Analyzed: 04/04/2024					
1,2,4-Trimethylbenzene	47.6	2.00	ug/L	50.0		95.2	70-130			
1,3,5-Trimethylbenzene	46.1	2.00	"	50.0		92.2	70-130			
Benzene	43.8	1.00	"	50.0		87.6	70-130			
Ethylbenzene	54.1	1.00	"	50.0		108	70-130			
m,p-Xylene	112	2.00	"	100		112	70-130			
Naphthalene	53.7	2.00	"	50.0		107	70-130			
o-Xylene	57.3	1.00	"	50.0		115	70-130			
Toluene	47.7	1.00	"	50.0		95.3	70-130			
Surrogate: 1,2-Dichloroethane-d4	71		"	62.5		113	70-130			
Surrogate: Toluene-d8	62		"	62.5		98.6	70-130			
Surrogate: 4-Bromofluorobenzene	52		"	62.5		82.5	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

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 B4D0458 - EPA 5030B (Water)

Matrix Spike (B4D0458-MS1)		Source: Y404007-01			Prepared: 04/04/2024 Analyzed: 04/04/2024					
1,2,4-Trimethylbenzene	42.2	2.00	ug/L	50.0	ND	84.4	70-130			
1,3,5-Trimethylbenzene	42.6	2.00	"	50.0	ND	85.3	70-130			
Benzene	41.9	1.00	"	50.0	ND	83.8	70-130			
Ethylbenzene	46.7	1.00	"	50.0	ND	93.4	70-130			
m,p-Xylene	94.4	2.00	"	100	ND	94.4	70-130			
Naphthalene	47.1	2.00	"	50.0	ND	94.2	70-130			
o-Xylene	45.6	1.00	"	50.0	ND	91.3	70-130			
Toluene	43.1	1.00	"	50.0	ND	86.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	68		"	62.5		109	70-130			
Surrogate: Toluene-d8	62		"	62.5		98.9	70-130			
Surrogate: 4-Bromofluorobenzene	52		"	62.5		83.7	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

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 B4D0458 - EPA 5030B (Water)										
Matrix Spike Dup (B4D0458-MSD1)			Source: Y404007-01		Prepared: 04/04/2024 Analyzed: 04/05/2024					
1,2,4-Trimethylbenzene	40.0	2.00	ug/L	50.0	ND	80.1	70-130	5.30	20	
1,3,5-Trimethylbenzene	39.7	2.00	"	50.0	ND	79.4	70-130	7.12	20	
Benzene	40.3	1.00	"	50.0	ND	80.6	70-130	3.84	20	
Ethylbenzene	44.5	1.00	"	50.0	ND	88.9	70-130	4.85	20	
m,p-Xylene	88.2	2.00	"	100	ND	88.2	70-130	6.82	20	
Naphthalene	47.6	2.00	"	50.0	ND	95.2	70-130	1.10	20	
o-Xylene	44.0	1.00	"	50.0	ND	87.9	70-130	3.71	20	
Toluene	41.1	1.00	"	50.0	ND	82.1	70-130	4.89	20	
Surrogate: 1,2-Dichloroethane-d4	68		"	62.5		109	70-130			
Surrogate: Toluene-d8	61		"	62.5		97.5	70-130			
Surrogate: 4-Bromofluorobenzene	51		"	62.5		81.0	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

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.



April 15, 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. April 01, 2024. This project is associated with Origins project number Y404011-01.

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	Y404011-01	Water	April 1, 2024 11:00	04/01/2024 13:12
MW-03	Y404011-02	Water	April 1, 2024 11:15	04/01/2024 13:12
MW-04	Y404011-03	Water	April 1, 2024 11:30	04/01/2024 13:12
MW-05	Y404011-04	Water	April 1, 2024 11:45	04/01/2024 13:12

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

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

ORIGINS
LABORATORY, INC

Client: Eagle Environmental Consulting
Address: 8000 W 44th Ave
Telephone Number: 303-433-0499
Email Address: anewberry@eagle-env.com

Project Manager: Andrew Newberry
Project Name: Roth #12-30
Project Number: Wheat Ridge, CO, 80033
Samples Collected By: SL

Temp Received: 9 Date Results Needed: 4/12/12

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix		Analysis	Sample Instructions
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil		
ML-01	4/1/12	1100	1		X					X	TDS, 2540C
ML-03		1115	1							X	Chloride - EPA 300.0
ML-04		1130	1							X	Sulphate - EPA 300.0
ML-05	4/1/12	1145	1							X	

Relinquished By: Bill A. Dan Date: 4/1/12 Time: 1312
Received By: Bill A. Dan Date: 4/12/12 Time: 1612

Turnaround Time:
☐ Same Day
☐ 48 Hr
☐ 72 Hr
☒ Standard

Origins Laboratory, Inc.

Bynon

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

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

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: Y404011

Client: Eagle

Client Project ID: NOBLE - Roth # 12-30

Checklist Completed by: SAL 90

Shipped Via: HQ
(UPS, FedEx, Hand Delivered, Pick-up, etc.)

Date/time completed: 4/11/24

Airbill #: N/A

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

Cooler Number/Temperature: 1, 9 °C 1 °C 1 °C (Describe) 1 °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 ⁽¹⁾ ?		<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 ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	<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 ⁽¹⁾ ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)/(pH <2 for samples preserved with HNO ₃ , HCL, H ₂ SO ₄) / (pH >10 for samples preserved with NaAsO ₂ +NaOH, ZnAc+NaOH)			<input checked="" type="checkbox"/>	
Additional Comments (if any):				

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

Reviewed by (Project Manager): [Signature]

Date/Time Reviewed: 4/12/24

Origins Laboratory, Inc.

J. Bynon

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

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

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

MW-01

4/1/2024 11:00:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y404011-01 (Water)

Anions by IC 300.0

Chloride	52.9	31.2	mg/L	125	B4D0117	DLT	04/01/2024	04/05/2024	
Sulfate	317	31.2	"	"	"	DLT	"	"	

Total Dissolved Solids by 2540C

Total Dissolved Solids	860	5.00	"	1	B4D0236	VK	04/02/2024	04/04/2024	
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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-03

4/1/2024 11:15:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y404011-02 (Water)

Anions by IC 300.0

Chloride	52.1	31.2	mg/L	125	B4D0117	DLT	04/01/2024	04/05/2024	
Sulfate	319	31.2	"	"	"	DLT	"	"	

Total Dissolved Solids by 2540C

Total Dissolved Solids	880	5.00	"	1	B4D0236	VK	04/02/2024	04/04/2024	
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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

4/1/2024 11:30:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y404011-03 (Water)

Anions by IC 300.0

Chloride	51.4	31.2	mg/L	125	B4D0117	DLT	04/01/2024	04/05/2024	
Sulfate	315	31.2	"	"	"	DLT	"	"	

Total Dissolved Solids by 2540C

Total Dissolved Solids	780	5.00	"	1	B4D0236	VK	04/02/2024	04/04/2024	
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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

4/1/2024 11:45:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y404011-04 (Water)

Anions by IC 300.0

Chloride	51.6	31.2	mg/L	125	B4D0117	DLT	04/01/2024	04/05/2024	
Sulfate	314	31.2	"	"	"	DLT	"	"	

Total Dissolved Solids by 2540C

Total Dissolved Solids	840	5.00	"	1	B4D0236	VK	04/02/2024	04/04/2024	
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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

Classical Chemistry Parameters - Quality Control Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B4D0117 - Filter .45um non acidified										
Blank (B4D0117-BLK1)					Prepared: 04/01/2024 Analyzed: 04/05/2024					
Chloride	ND	0.250	mg/L							
Sulfate	ND	0.250	"							
LCS (B4D0117-BS1)					Prepared: 04/01/2024 Analyzed: 04/05/2024					
Chloride	3.94	0.250	mg/L	4.00		98.6	90-110			
Sulfate	4.14	0.250	"	4.00		103	90-110			
Matrix Spike (B4D0117-MS1)					Source: Y403840-01		Prepared: 04/01/2024 Analyzed: 04/05/2024			
Chloride	598		mg/L	500	137	92.1	90-110			
Sulfate	2890		"	500	2480	82.1	90-110			QM-07
Matrix Spike Dup (B4D0117-MSD1)					Source: Y403840-01		Prepared: 04/01/2024 Analyzed: 04/05/2024			
Chloride	605		mg/L	500	137	93.6	90-110	1.27	5	
Sulfate	2950		"	500	2480	93.4	90-110	1.94	5	
Batch B4D0236 - NO PREP										
Blank (B4D0236-BLK1)					Prepared: 04/02/2024 Analyzed: 04/04/2024					
Total Dissolved Solids	ND	5.00	mg/L							
LCS (B4D0236-BS1)					Prepared: 04/02/2024 Analyzed: 04/04/2024					
Total Dissolved Solids	1000	5.00	mg/L	1040		96.3	90-110			
Duplicate (B4D0236-DUP1)					Source: Y404011-01		Prepared: 04/02/2024 Analyzed: 04/04/2024			
Total Dissolved Solids	840	5.00	mg/L		860			2.35	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 - Roth #12-30

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.



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