



August 22, 2024

Eagle Environmental Consulting, LLC

Grace Congdon

8000 W 44th Ave

Wheat Ridge CO 80033

**Project Name - Noble - Wells Ranch
#AA35-62-1AHNC**

Project Number - [none]

Attached are your analytical results for Noble - Wells Ranch #AA35-62-1AHNC received by Origins Laboratory, Inc. August 06, 2024. This project is associated with Origins project number Y408169-01.

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

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

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

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

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

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



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

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

Grace Congdon
Project Number: [none]
Project: Noble - Wells Ranch #AA35-62-1AHNC

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Background-02@7.5-10'	Y408169-01	Soil	August 6, 2024 13:10	08/06/2024 17:46
Background-02@10-12.5'	Y408169-02	Soil	August 6, 2024 13:15	08/06/2024 17:46
Background-02@15-17.5'	Y408169-03	Soil	August 6, 2024 13:25	08/06/2024 17:46
Background-03@7.5-10'	Y408169-04	Soil	August 6, 2024 13:35	08/06/2024 17:46
Background-03@10-12.5'	Y408169-05	Soil	August 6, 2024 13:40	08/06/2024 17:46
Background-03@15-17.5'	Y408169-06	Soil	August 6, 2024 13:50	08/06/2024 17:46
Background-04@7.5-10'	Y408169-07	Soil	August 6, 2024 14:05	08/06/2024 17:46
Background-04@10-12.5'	Y408169-08	Soil	August 6, 2024 14:10	08/06/2024 17:46
Background-04@15-17.5'	Y408169-09	Soil	August 6, 2024 14:20	08/06/2024 17:46
Background-05@7.5-10'	Y408169-10	Soil	August 6, 2024 14:30	08/06/2024 17:46
Background-05@10-12.5'	Y408169-11	Soil	August 6, 2024 14:35	08/06/2024 17:46
Background-05@15-17.5'	Y408169-12	Soil	August 6, 2024 14:45	08/06/2024 17:46
Background-06@7.5-10'	Y408169-13	Soil	August 6, 2024 15:15	08/06/2024 17:46
Background-06@10-12.5'	Y408169-14	Soil	August 6, 2024 15:20	08/06/2024 17:46

Origins Laboratory, Inc.



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

Grace Congdon
Project Number: [none]
Project: Noble - Wells Ranch #AA35-62-1AHNC

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Background-06@15-17.5'	Y408169-15	Soil	August 6, 2024 15:30	08/06/2024 17:46

Origins Laboratory, Inc.



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

Grace Congdon
Project Number: [none]
Project: Noble - Wells Ranch #AA35-62-1AHNC

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

Temp Received - 1.8

Received On Ice? ☒ Yes ☐ No

For Lab Sample Receiving Only:

Requisitioned By:	Date:	Time:	Received By:	Date:	Time:
<i>[Signature]</i>	8/6/24	1746	<i>[Signature]</i>	9/10/24	1740
Requisitioned By:	Date:	Time:	Received By:	Date:	Time:

☒ Standard

☐ 48 Hr ☐ 72 Hr

Turnaround Time
☐ SAME DAY ☐ 24 Hr

Analysis										Comments
#	Sample ID	Date	Time	# of Containers	Matrix	Preservative				
1	Requisitioned 02E-15-10	8/6/24	1310	2	5	UNP	X	X		
2	Requisitioned 02E-10-12.5		1315							
3	Requisitioned 02E-15-11.5		1325							
4	Requisitioned 02E-15-10		1335							
5	Requisitioned 02E-15-10		1340							
6	Requisitioned 02E-15-11.5		1350							
7	Requisitioned 02E-15-10		1405							
8	Requisitioned 02E-10-12.5		1410							
9	Requisitioned 02E-15-11.5		1420							
10	Requisitioned 02E-15-10		1430							

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

Address:	8000 W 44th Ave	Project Manager:	Grace Congdon
Client:	Eagle Environmental Consulting	Project Name:	Wells Ranch # AA35-62-1AHNC
Telephone Number:	303-433-0419	Collected By:	RS
Email Address:	grace@eagle-env.com	Invoice/Billing Info:	Age - Bill to Dan
		W=Water	
		SW=Surface Water	
		WW=Waste Water	
		L=Liquid	

ORIGINS WORK ORDER # 4408169

Page 1 of 1

Origins Laboratory, Inc.

[Signature]

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

Grace Congdon
Project Number: [none]
Project: Noble - Wells Ranch #AA35-62-1AHNC

ORIGINS

ORIGINS WORK ORDER #

Page 6 of 6

LABORATORY INC

Client: Eagle Environmental Consulting

Project Manager: Grace Congdon

Key:

Address: 8000 W 44th Ave

Project Name: Wells Ranch #AA35-62-1AHNC

W=Water

Telephone Number: 303-433-0479

Project Number: [blank]

GW=Groundwater

Email Address: grace@eagle-env.com

Collected By: RS

SW=Surface Water

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

Invoice/Billing Info: Noble - Bill to Don

WW=Waste Water

L=Liquid

#	Sample ID	Date	Time	# of Containers	Matrix	Preservative	Analysis										Comments
							1	2	3	4	5	6	7	8	9	10	
1	Background SOE D-15-115	8/6/24	1435	2	S	UNP											
2	Background SOE D-15-115		1445														
3	Background SOE D-15-115		1515														
4	Background SOE D-15-115		1520														
5	Background SOE D-15-115		1530														
6																	
7																	
8																	
9																	
10																	

Relinquished By:	Date:	Time:	Received By:	Date:	Time:
[Signature]	8/6/24	1746	[Signature]	8/6/24	1746
Relinquished By:	Date:	Time:	Received By:	Date:	Time:

For Lab Sample Receiving Only:

1725 Elk Place Denver, Co. 80221 | # 303.433.1322 | originslab.com

Temp Received: 18

Received On Ice? [X] Yes [] No

Standard [X] 48 Hr [] 72 Hr

Turnaround Time [] SAME DAY [] 24 Hr

Origins Laboratory, Inc.

[Signature]

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

Grace Congdon
Project Number: [none]
Project: Noble - Wells Ranch #AA35-62-1AHNC

Origins Laboratory

Sample Receipt Checklist

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

Origins Work Order: 1403169

Client: Eagle

Client Project ID: Wells Ranch

Checklist Completed by: JM/EA

Shipped Via: tw

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

Date/time completed: 8/17/12

Airbill #: N/A

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

Cooler Number/Temperature: 1 / 1.8 °C _____ / _____ °C _____ / _____ °C (Describe)

Thermometer ID: 7005

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are samples preserved that require preservation and was it checked ⁽¹⁾ ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)/(pH <2 for samples preserved with HNO ₃ , HCL, H ₂ SO ₄) / (pH >10 for samples preserved with NaAsO ₂ +NaOH, ZnAc+NaOH)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Additional Comments (if any):				

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

Reviewed by (Project Manager) AS

8/18/12
Date/Time Reviewed

Origins Laboratory, Inc.

J. Bynon

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

Grace Congdon
Project Number: [none]
Project: Noble - Wells Ranch #AA35-62-1AHNC

Background-02@7.5-10'

8/6/2024 1:10:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y408169-01 (Soil)

Table 915 metals by EPA 6020B

Arsenic	10.8	0.242	mg/kg	10	B4H0729	HJD	08/07/2024	08/09/2024
Barium	64.6	8.35	"	"	"	HJD	"	"

Origins Laboratory, Inc.



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

Grace Congdon
Project Number: [none]
Project: Noble - Wells Ranch #AA35-62-1AHNC

Background-02@10-12.5'

8/6/2024 1:15:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y408169-02 (Soil)

Table 915 metals by EPA 6020B

Arsenic	13.9	0.272	mg/kg	10	B4H0729	HJD	08/07/2024	08/09/2024
Barium	79.2	9.38	"	"	"	HJD	"	"

Origins Laboratory, Inc.



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

Grace Congdon
Project Number: [none]
Project: Noble - Wells Ranch #AA35-62-1AHNC

Background-02@15-17.5'

8/6/2024 1:25:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y408169-03 (Soil)

Table 915 metals by EPA 6020B

Arsenic	3.21	0.284	mg/kg	10	B4H0729	HJD	08/07/2024	08/09/2024
Barium	111	9.79	"	"	"	HJD	"	"

Origins Laboratory, Inc.



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

Grace Congdon
Project Number: [none]
Project: Noble - Wells Ranch #AA35-62-1AHNC

Background-03@7.5-10'

8/6/2024 1:35:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y408169-04 (Soil)

Table 915 metals by EPA 6020B

Arsenic	4.62	0.246	mg/kg	10	B4H0729	HJD	08/07/2024	08/09/2024
Barium	54.9	8.47	"	"	"	HJD	"	"

Origins Laboratory, Inc.



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

Grace Congdon
Project Number: [none]
Project: Noble - Wells Ranch #AA35-62-1AHNC

Background-03@10-12.5'

8/6/2024 1:40:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y408169-05 (Soil)

Table 915 metals by EPA 6020B

Arsenic	3.09	0.260	mg/kg	10	B4H0729	HJD	08/07/2024	08/09/2024
Barium	43.4	8.95	"	"	"	HJD	"	"

Origins Laboratory, Inc.



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

Grace Congdon
Project Number: [none]
Project: Noble - Wells Ranch #AA35-62-1AHNC

Background-03@15-17.5'

8/6/2024 1:50:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y408169-06 (Soil)

Table 915 metals by EPA 6020B

Arsenic	7.38	0.252	mg/kg	10	B4H0729	HJD	08/07/2024	08/09/2024
Barium	47.3	8.69	"	"	"	HJD	"	"

Origins Laboratory, Inc.



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

Grace Congdon
Project Number: [none]
Project: Noble - Wells Ranch #AA35-62-1AHNC

Background-04@7.5-10'

8/6/2024 2:05:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y408169-07 (Soil)

Table 915 metals by EPA 6020B

Arsenic	4.92	0.277	mg/kg	10	B4H0729	HJD	08/07/2024	08/09/2024
Barium	63.5	9.57	"	"	"	HJD	"	"

Origins Laboratory, Inc.



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

Grace Congdon
Project Number: [none]
Project: Noble - Wells Ranch #AA35-62-1AHNC

Background-04@10-12.5'

8/6/2024 2:10:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y408169-08 (Soil)

Table 915 metals by EPA 6020B

Arsenic	2.06	0.261	mg/kg	10	B4H0729	HJD	08/07/2024	08/09/2024
Barium	24.6	8.99	"	"	"	HJD	"	"

Origins Laboratory, Inc.



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

Grace Congdon
Project Number: [none]
Project: Noble - Wells Ranch #AA35-62-1AHNC

Background-04@15-17.5'

8/6/2024 2:20:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y408169-09 (Soil)

Table 915 metals by EPA 6020B

Arsenic	18.8	0.266	mg/kg	10	B4H0729	HJD	08/07/2024	08/09/2024
Barium	35.2	9.16	"	"	"	HJD	"	"

Origins Laboratory, Inc.



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

Grace Congdon
Project Number: [none]
Project: Noble - Wells Ranch #AA35-62-1AHNC

Background-05@7.5-10'

8/6/2024 2:30:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y408169-10 (Soil)

Table 915 metals by EPA 6020B

Arsenic	6.15	0.256	mg/kg	10	B4H0729	HJD	08/07/2024	08/09/2024
Barium	48.6	8.83	"	"	"	HJD	"	"

Origins Laboratory, Inc.



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

Grace Congdon
Project Number: [none]
Project: Noble - Wells Ranch #AA35-62-1AHNC

Background-05@10-12.5'

8/6/2024 2:35:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y408169-11 (Soil)

Table 915 metals by EPA 6020B

Arsenic	11.5	0.280	mg/kg	10	B4H0729	HJD	08/07/2024	08/09/2024
Barium	826	9.67	"	"	"	HJD	"	"

Origins Laboratory, Inc.



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

Grace Congdon
Project Number: [none]
Project: Noble - Wells Ranch #AA35-62-1AHNC

Background-05@15-17.5'

8/6/2024 2:45:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y408169-12 (Soil)

Table 915 metals by EPA 6020B

Arsenic	3.54	0.255	mg/kg	10	B4H0729	HJD	08/07/2024	08/09/2024
Barium	70.7	8.78	"	"	"	HJD	"	"

Origins Laboratory, Inc.



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8000 W 44th Ave
Wheat Ridge CO 80033

Grace Congdon
Project Number: [none]
Project: Noble - Wells Ranch #AA35-62-1AHNC

Background-06@7.5-10'

8/6/2024 3:15:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y408169-13 (Soil)

Table 915 metals by EPA 6020B

Arsenic	2.72	0.259	mg/kg	10	B4H0729	HJD	08/07/2024	08/09/2024
Barium	51.5	8.92	"	"	"	HJD	"	"

Origins Laboratory, Inc.



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8000 W 44th Ave
Wheat Ridge CO 80033

Grace Congdon
Project Number: [none]
Project: Noble - Wells Ranch #AA35-62-1AHNC

Background-06@10-12.5'

8/6/2024 3:20:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y408169-14 (Soil)

Table 915 metals by EPA 6020B

Arsenic	2.14	0.248	mg/kg	10	B4H0729	HJD	08/07/2024	08/09/2024
Barium	30.4	8.56	"	"	"	HJD	"	"

Origins Laboratory, Inc.



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

Grace Congdon
Project Number: [none]
Project: Noble - Wells Ranch #AA35-62-1AHNC

Background-06@15-17.5'

8/6/2024 3:30:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y408169-15 (Soil)

Table 915 metals by EPA 6020B

Arsenic	18.5	0.261	mg/kg	10	B4H0729	HJD	08/07/2024	08/09/2024
Barium	31.9	8.99	"	"	"	HJD	"	"

Origins Laboratory, Inc.



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

Grace Congdon
Project Number: [none]
Project: Noble - Wells Ranch #AA35-62-1AHNC

Metals by EPA 6000/7000 Series Methods - Quality Control Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B4H0729 - EPA 3050B										
Blank (B4H0729-BLK1)					Prepared: 08/07/2024 Analyzed: 08/09/2024					
Arsenic	ND	0.290	mg/kg							
Barium	ND	10.0	"							
LCS (B4H0729-BS1)					Prepared: 08/07/2024 Analyzed: 08/09/2024					
Arsenic	4.89	0.290	mg/kg	5.00		97.8	80-120			
Barium	517	10.0	"	500		103	80-120			
Matrix Spike (B4H0729-MS1)					Source: Y408168-01		Prepared: 08/07/2024 Analyzed: 08/09/2024			
Arsenic	11.1	0.272	mg/kg	4.70	5.86	112	75-125			
Barium	632	9.39	"	470	380	53.7	75-125			QM-07
Matrix Spike Dup (B4H0729-MSD1)					Source: Y408168-01		Prepared: 08/07/2024 Analyzed: 08/09/2024			
Arsenic	13.5	0.272	mg/kg	4.69	5.86	163	75-125	19.3	20	QM-07
Barium	603	9.39	"	469	380	47.6	75-125	4.73	20	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

Grace Congdon

Project Number: [none]

Project: Noble - Wells Ranch #AA35-62-1AHNC

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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