



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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 8000 W 44th Ave  
 Wheat Ridge CO 80033

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

**ORIGINS**  
 LABORATORY, INC

ORIGINS WORK ORDER #

**440819**

Page 1 of 2

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

Collected By: [blank]

Invoice/Billing Info: None - Bill to Dan

SW=Surface Water

Email Address: grace@eagle-environment.com

Waste=Waste Water

L=Liquid

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

#	Sample ID	Date Sampled	Time Sampled	# of Containers	Matrix Preservative	Analysis				Comments
1	POLYGENAL-02E15-10	8/6/24	13:00	2	UNP	X	X			Asone 2020 1000 2020
2	POLYGENAL-02E10-10.5		13:15							
3	POLYGENAL-02E15-11.5		13:25							
4	POLYGENAL-02E15-10		13:35							
5	POLYGENAL-05E10-0.5		13:40							
6	POLYGENAL-03E15-11.5		13:50							
7	POLYGENAL-04E15-10		14:05							
8	POLYGENAL-04E10-10.5		14:10							
9	POLYGENAL-04E15-11.5		14:20							
10	POLYGENAL-05E15-10.5		14:30							

Requisitioned By: [Signature] Date: 8/6/24 Time: 17:46

Received By: [Signature] Date: 7/10/24 Time: 17:40

Temp Received: 1.8 Received On Ice?  Yes  No

Turnaround Time:  48 Hr  72 Hr  Standard

For Lab Sample Receiving Only:

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

# 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: Wheat Ridge CO 80033

Project Number: [none]

GW=Groundwater

Telephone Number: 303-433-0479

Collected By: RS

SW=Surface Water

Email Address: grace@eagle-env.com

Invoice/Billing Info: None - Bill to Don

WW=Waste Water

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

#	Sample ID	Date Sampled	Time Sampled	# of Containers	Matrix	Preservative	Analysis		Comments
1	Background - SEC D-RT5'	8/16/24	1435	2	S	WUP			
2	Background - SEC 15-17.5'		1445						
3	Background - SEC 7.5-10'		1515						
4	Background - SEC 10-17.5'		1570						
5	Background - SEC 15-17.5'		1570						
6									
7									
8									
9									
10									

Requisitioned By: <u>[Signature]</u>	Date: <u>8/16/24</u>	Time: <u>1746</u>	Received By: <u>[Signature]</u>	Date: <u>8/16/24</u>	Time: <u>1746</u>
Requisitioned By: <u>[Signature]</u>	Date: <u>8/16/24</u>	Time: <u>1746</u>	Received By: <u>[Signature]</u>	Date: <u>8/16/24</u>	Time: <u>1746</u>

1725 Elk Place Denver, Co. 80221 | # 303.433.1322 | originslab.com | Temp. Received - 18 Received On Ice?  Yes  No

For Lab Sample Receiving Only:  Standard  48 Hr  72 Hr  SAME DAY  24 Hr

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

Origins Laboratory

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

**Sample Receipt Checklist**

Origins Work Order: 14071029 Client: Eagle  
 Client Project ID: Wells Ranch  
 Checklist Completed by: [Signature] Shipped Via: tuw  
 Date/time completed: 8/17/12 (UPS, FedEx, Hand Delivered, Pick-up, etc.)  
 Airbill #: N/A  
 Matrix(s) Received: (Check all that apply):  Soil/Solid  Water  Other: \_\_\_\_\_  
 Cooler Number/Temperature: 1 / 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 <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
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 HNO <sub>3</sub> , HCL, H <sub>2</sub> SO <sub>4</sub> ) / (pH >10 for samples preserved with NaAsO <sub>2</sub> +NaOH, ZnAc+NaOH)			<input checked="" type="checkbox"/>	
Additional Comments (if any):				

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

Reviewed by: AS Date/Time Reviewed: 8/18/12

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@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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 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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 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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 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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 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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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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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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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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 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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 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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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	"	"	

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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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 8000 W 44th Ave  
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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
<b>Batch B4H0729 - EPA 3050B</b>										
<b>Blank (B4H0729-BLK1)</b>										
					Prepared: 08/07/2024 Analyzed: 08/09/2024					
Arsenic	ND	0.290	mg/kg							
Barium	ND	10.0	"							
<b>LCS (B4H0729-BS1)</b>										
					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			
<b>Matrix Spike (B4H0729-MS1)</b>										
		<b>Source: Y408168-01</b>			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
<b>Matrix Spike Dup (B4H0729-MSD1)</b>										
		<b>Source: Y408168-01</b>			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

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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.



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Jordan A. Bynon, Project Manager