



**Fremont Environmental**

**Ethan Black**

**8305 6th St, PO Box 1289**

**Wellington**

**CO**

**80549**

**September 11, 2025**

**Project Name - Noble - Furrow USX AB 15-99HZ**

**Project Number - 30076**

Attached are your analytical results for Noble - Furrow USX AB 15-99HZ received by Origins Laboratory August 27, 2025. This project is associated with Origins project number E5H0619-01.

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  
303.433.1322  
projectmanager@originslab.com



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



Fremont Environmental  
8305 6th St, PO Box 1289  
Wellington CO 80549

Ethan Black  
Project Number: 30076  
Project: Noble - Furrow USX AB 15-99HZ

### CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
99FL03 3Ft	E5H0619-01	Soil	August 27, 2025 11:00	08/27/2025 17:39
99FL04 3Ft	E5H0619-02	Soil	August 27, 2025 11:15	08/27/2025 17:39
99FL05 3Ft	E5H0619-03	Soil	August 27, 2025 11:30	08/27/2025 17:39
BKG6 3Ft	E5H0619-04	Soil	August 27, 2025 11:45	08/27/2025 17:39
BKG6 6Ft	E5H0619-05	Soil	August 27, 2025 12:00	08/27/2025 17:39
BKG7 3Ft	E5H0619-06	Soil	August 27, 2025 12:15	08/27/2025 17:39
BKG7 6Ft	E5H0619-07	Soil	August 27, 2025 12:30	08/27/2025 17:39
BKG8 3Ft	E5H0619-08	Soil	August 27, 2025 12:45	08/27/2025 17:39
BKG8 6Ft	E5H0619-09	Soil	August 27, 2025 13:00	08/27/2025 17:39
BKG9 3Ft	E5H0619-10	Soil	August 27, 2025 13:15	08/27/2025 17:39
BKG9 6Ft	E5H0619-11	Soil	August 27, 2025 13:30	08/27/2025 17:39
BKG10 3Ft	E5H0619-12	Soil	August 27, 2025 13:45	08/27/2025 17:39
BKG10 6Ft	E5H0619-13	Soil	August 27, 2025 14:00	08/27/2025 17:39

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# ORIGINS LABORATORY

Fremont Environmental  
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 Wellington CO 80549

Ethan Black  
 Project Number: 30076  
 Project: Noble - Furrow USX AB 15-99HZ



ESTD 2019

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Sample ID	Date	Time	# of Containers	Matrix	Preservative	Analysis	Comments
99FLOS 3FT	8/27/25	11:00	3 Soil	None	X		
99FLOS 3FT	8/27/25	11:15	1		X		
99FLOS 3FT	8/27/25	11:30	1		X		
99FLOS 3FT	8/27/25	11:45	1		X		
99FLOS 3FT	8/27/25	12:00	1		X		
99FLOS 3FT	8/27/25	12:15	1		X		
99FLOS 3FT	8/27/25	12:30	1		X		
99FLOS 3FT	8/27/25	12:45	1		X		
99FLOS 3FT	8/27/25	13:00	1		X		
99FLOS 3FT	8/27/25	13:15	1		X		

Requisitioned By: John Sutter Date: 8/27/25 Time: 6:30 Received By: TEB Date: 8/27/25 Time: 15:20  
 Requisitioned By: TEB Date: 8/27/25 Time: 17:39 Received By: NKH Date: 08/27/25 Time: 17:39

Turnaround Time  
 24 Hr  
 48 Hr  
 72  
 Standard

Temp Received: 4.2°C Received On Ice?  Yes  No

Client: Fremont Env Project Manager: Ethan Black Key:  
 Address: \_\_\_\_\_ Project Name: Noble - Furrow USX AB 15-99HZ W=Water  
 Telephone Number: 970-488-2088 Project Number: 30076 GH=Groundwater  
 Email Address: Emma@originslab.com Collected By: John Sutter SW=Surface Water  
 Invoice Billing Info: Local/Foreign Client W=Waste Water  
 S=Soil SO=Solid O=Oil A=Air G=Gas U=Ungases HCl=Hydrochloric HNO3=Nitric H2SO4=Sulfuric NaOH=Sodium Hydroxide  
 L=Liquid

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Wellington CO 80549

Ethan Black  
Project Number: 30076  
Project: Noble - Furrow USX AB 15-99HZ



#	Sample ID	Date	Time	# of Containers	Matrix Preservative	Analysis	Comments
1	RK6-9-6F1	8/27/15	13:30	3	Soil	Water	
2	RK6-10-3F1		13:45				
3	RK6-10-6F1		14:00				
4							
5							
6							
7							
8							
9							
10							

Requisitioned By: [Signature] Date: 8/27/15 Time: 15:30  
 Received By: [Signature] Date: 8/27/15 Time: 17:38  
 Requisitioned By: TE1 Date: 8/27/15 Time: 17:38  
 Received By: NKL-1 Date: 08/27/15 Time: 17:38

Temp Received: 4.2°C Received On Ice?  Yes  No

Turnaround Time  
 SAME DAY  
 48 Hr  
 72  
 24 Hr

Client: Fremont Env  
 Project Manager: Ethan Black  
 Project Name: Noble - Furrow USX AB 15-99HZ  
 Project Number: 30076  
 Telephone Number: 804-423-2068  
 Email Address: lucy@emmalabs.com  
 Invoice Billing Info: Local/Residential  
 Collected By: Jordan Suttis  
 WWS=Isolate Water  
 SW=Surface Water  
 GM=Coincubator  
 W=Water  
 Key: [Symbol]

S-Soil S0=Solid L=Oil A=Air G=Gas U=NP=Impres HCl=Hydrochloric HNO3=Nitric H2SO4=Sulfuric NaOH=Sodium Hydroxide L=Liquid

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[Signature]

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 Wellington CO 80549

Ethan Black  
 Project Number: 30076  
 Project: Noble - Furrow USX AB 15-99HZ

Origins Laboratory

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

### Sample Receipt Checklist

Origins Work Order: EST10619

Client: Fremont / Noble

Client Project ID: Furrow USX AB 15-99 HZ

Checklist Completed by: NB / Jmc

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

Date/time completed: 8/28/25

Airbill #: N/A

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

Cooler Number/Temperature: 1 / 4.2 °C (Describe)

Thermometer ID: T007

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? If yes, contact client and note in narrative.			<input checked="" type="checkbox"/>	
Are samples preserved that require preservation and was it checked <sup>(1)</sup> ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)(pH <2 for samples preserved with HNO <sub>3</sub> , HCL, H <sub>2</sub> SO <sub>4</sub> ) / (pH >10 for samples preserved with NaAsO <sub>2</sub> +NaOH, ZnAc+NaOH)			<input checked="" type="checkbox"/>	
Additional Comments (if any):				

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

Reviewed by (Project Manager) [Signature]

9/12/25  
 Date/Time Reviewed

Origins Laboratory

[Signature]

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Fremont Environmental  
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Ethan Black  
 Project Number: 30076  
 Project: Noble - Furrow USX AB 15-99HZ

**99FL03 3Ft**  
**8/27/2025 11:00:00AM**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
<b>E5H0619-01 (Soil)</b>									
<b>Enthalpy Orange</b>									
<b>Total Metals by 7199</b>									
Hexavalent Chromium	ND	0.16	0.30	mg/Kg dry	1	381108	09/04/2025	09/08/2025	ND
<b>Origins Laboratory</b>									
<b>Boron (DTPA Sorbitol)</b>									
(DTPA Sorbitol) Boron	0.132		0.104	mg/L dry	1	B5H2819	08/28/2025	09/03/2025	
<b>DRO/ORO by EPA 8015D</b>									
Diesel (C10-C28)	ND		26.0	mg/kg dry	1	B5H2832	08/28/2025	08/29/2025	U
Residual Range Organics (C28-C36)	ND		104	"	"	"	"	"	U
Surrogate: o-Terphenyl	95.2 %			50-150		"	"	"	
<b>GBTEX+TMBs by 8260D</b>									
1,2,4-Trimethylbenzene	ND		0.002	mg/kg dry	1	B5H2912	08/29/2025	08/31/2025	U
1,3,5-Trimethylbenzene	ND		0.002	"	"	"	"	"	U
Benzene	ND		0.002	"	"	"	"	"	U
Ethylbenzene	ND		0.002	"	"	"	"	"	U
Toluene	ND		0.002	"	"	"	"	"	U
Xylenes, total	ND		0.002	"	"	"	"	"	U

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**99FL03 3Ft**

**8/27/2025 11:00:00AM**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**E5H0619-01 (Soil)  
 Origins Laboratory**

**GBTEX+TMBs by 8260D**

Gasoline Range Hydrocarbons	ND		0.208	mg/kg dry	1	B5H2912	08/29/2025	08/31/2025	U
Surrogate: 1,2-Dichloroethane-d4	93.8 %			70-130		"	"	"	
Surrogate: Toluene-d8	92.4 %			70-130		"	"	"	
Surrogate: 4-Bromofluorobenzene	92.4 %			70-130		"	"	"	

**Metals by Saturated Paste by EPA 6010**

Calcium	1.44		0.499	meq/L	10	[CALC]	08/28/2025	09/02/2025	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	ND		0.435	"	"	"	"	"	

**PAH by EPA 8270E extracted via 3580A**

1-Methylnaphthalene	ND		0.002	mg/kg dry	1	B5H2924	08/29/2025	08/29/2025	U
2-Methylnaphthalene	ND		0.002	"	"	"	"	"	U
Acenaphthene	ND		0.021	"	"	"	"	"	U
Anthracene	ND		0.021	"	"	"	"	"	U
Benzo (a) anthracene	ND		0.005	"	"	"	"	"	U
Benzo (a) pyrene	ND		0.021	"	"	"	"	"	U
Benzo (b) fluoranthene	ND		0.021	"	"	"	"	"	U
Benzo (k) fluoranthene	ND		0.021	"	"	"	"	"	U

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**99FL03 3Ft**

**8/27/2025 11:00:00AM**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**E5H0619-01 (Soil)  
 Origins Laboratory**

**PAH by EPA 8270E extracted via 3580A**

Chrysene	ND		0.021	mg/kg dry	1	B5H2924	08/29/2025	08/29/2025	U
Dibenz (a,h) anthracene	ND		0.021	"	"	"	"	"	U
Fluoranthene	ND		0.021	"	"	"	"	"	U
Fluorene	ND		0.021	"	"	"	"	"	U
Indeno (1,2,3-cd) pyrene	ND		0.021	"	"	"	"	"	U
Naphthalene	ND		0.002	"	"	"	"	"	U
Pyrene	ND		0.021	"	"	"	"	"	U

Surrogate: Fluorene-d10	103 %			60-130		"	"	"	
Surrogate: Anthracene-d10	100 %			60-130		"	"	"	
Surrogate: Pyrene-d10	99.1 %			60-130		"	"	"	
Surrogate: Benzo (a) pyrene-d12	97.2 %			60-130		"	"	"	

**Percent Solids**

Total Solids, Percent	96.2			mass percent	1	B5H2939	08/29/2025	09/02/2025	
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**pH in Soil by 9045D**

pH	7.82			pH Units	1	B5H2822	08/28/2025	08/30/2025	
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**SAR by 20B Saturated Paste**

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**99FL03 3Ft**

**8/27/2025 11:00:00AM**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
<b>E5H0619-01 (Soil)</b>									
<b>Origins Laboratory</b>									
<b>SAR by 20B Saturated Paste</b>									
SAR	0.192		0.0100	SAR	1	B5H2821	08/28/2025	09/02/2025	
<b>Specific Conductance Mod. 9050A</b>									
Specific Conductance (EC)	0.178		0.00500	mmhos/cm	1	B5H2822	08/28/2025	08/30/2025	
<b>Table 915 metals by EPA 6020B</b>									
Arsenic	5.09		0.201	mg/kg dry	10	B5I0223	09/02/2025	09/05/2025	
Barium	85.3		56.6	"	"	"	"	"	
Cadmium	ND		0.262	"	"	"	"	"	U
Copper	ND		31.8	"	"	"	"	"	U
Lead	ND		9.67	"	"	"	"	"	U
Nickel	ND		18.0	"	"	"	"	"	U
Selenium	ND		0.170	"	"	"	"	"	U
Silver	ND		0.552	"	"	"	"	"	U
Zinc	ND		255	"	"	"	"	"	U

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Ethan Black  
 Project Number: 30076  
 Project: Noble - Furrow USX AB 15-99HZ

**99FL04 3Ft**

**8/27/2025 11:15:00AM**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**E5H0619-02 (Soil)  
 Enthalpy Orange**

**Total Metals by 7199**

Hexavalent Chromium	ND	0.17	0.32	mg/Kg dry	1	381108	09/04/2025	09/08/2025	ND
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**Origins Laboratory**

**Boron (DTPA Sorbitol)**

(DTPA Sorbitol) Boron	0.703		0.107	mg/L dry	1	B5H2819	08/28/2025	09/03/2025	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND		26.6	mg/kg dry	1	B5H2832	08/28/2025	08/29/2025	U
Residual Range Organics (C28-C36)	ND		106	"	"	"	"	"	U

Surrogate: o-Terphenyl	66.4 %			50-150		"	"	"	
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND		0.002	mg/kg dry	1	B5H2912	08/29/2025	08/31/2025	U
1,3,5-Trimethylbenzene	ND		0.002	"	"	"	"	"	U
Benzene	ND		0.002	"	"	"	"	"	U
Ethylbenzene	ND		0.002	"	"	"	"	"	U
Toluene	ND		0.002	"	"	"	"	"	U
Xylenes, total	ND		0.002	"	"	"	"	"	U

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 Project: Noble - Furrow USX AB 15-99HZ

**99FL04 3Ft**

**8/27/2025 11:15:00AM**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**E5H0619-02 (Soil)  
 Origins Laboratory**

**GBTEX+TMBs by 8260D**

Gasoline Range Hydrocarbons	ND		0.213	mg/kg dry	1	B5H2912	08/29/2025	08/31/2025	U
Surrogate: 1,2-Dichloroethane-d4	95.9 %			70-130		"	"	"	
Surrogate: Toluene-d8	92.9 %			70-130		"	"	"	
Surrogate: 4-Bromofluorobenzene	90.8 %			70-130		"	"	"	

**Metals by Saturated Paste by EPA 6010**

Calcium	0.541		0.499	meq/L	10	[CALC]	08/28/2025	09/02/2025	
Magnesium	0.936		0.823	"	"	"	"	"	
Sodium	9.28		0.435	"	"	"	"	"	

**PAH by EPA 8270E extracted via 3580A**

1-Methylnaphthalene	ND		0.002	mg/kg dry	1	B5H2924	08/29/2025	08/29/2025	U
2-Methylnaphthalene	ND		0.002	"	"	"	"	"	U
Acenaphthene	ND		0.021	"	"	"	"	"	U
Anthracene	ND		0.021	"	"	"	"	"	U
Benzo (a) anthracene	ND		0.005	"	"	"	"	"	U
Benzo (a) pyrene	ND		0.021	"	"	"	"	"	U
Benzo (b) fluoranthene	ND		0.021	"	"	"	"	"	U
Benzo (k) fluoranthene	ND		0.021	"	"	"	"	"	U

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 Project Number: 30076  
 Project: Noble - Furrow USX AB 15-99HZ

**99FL04 3Ft**

**8/27/2025 11:15:00AM**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**E5H0619-02 (Soil)  
 Origins Laboratory**

**PAH by EPA 8270E extracted via 3580A**

Chrysene	ND		0.021	mg/kg dry	1	B5H2924	08/29/2025	08/29/2025	U
Dibenz (a,h) anthracene	ND		0.021	"	"	"	"	"	U
Fluoranthene	ND		0.021	"	"	"	"	"	U
Fluorene	ND		0.021	"	"	"	"	"	U
Indeno (1,2,3-cd) pyrene	ND		0.021	"	"	"	"	"	U
Naphthalene	ND		0.002	"	"	"	"	"	U
Pyrene	ND		0.021	"	"	"	"	"	U

Surrogate: Fluorene-d10	104 %			60-130		"	"	"	
Surrogate: Anthracene-d10	99.3 %			60-130		"	"	"	
Surrogate: Pyrene-d10	101 %			60-130		"	"	"	
Surrogate: Benzo (a) pyrene-d12	97.5 %			60-130		"	"	"	

**Percent Solids**

Total Solids, Percent	93.9			mass percent	1	B5H2939	08/29/2025	09/02/2025	
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**pH in Soil by 9045D**

pH	8.60			pH Units	1	B5H2822	08/28/2025	08/30/2025	
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**SAR by 20B Saturated Paste**

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 Project: Noble - Furrow USX AB 15-99HZ

**99FL04 3Ft**

**8/27/2025 11:15:00AM**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
<b>E5H0619-02 (Soil)</b>									
<b>Origins Laboratory</b>									
<b>SAR by 20B Saturated Paste</b>									
SAR	10.8		0.0100	SAR	1	B5H2821	08/28/2025	09/02/2025	
<b>Specific Conductance Mod. 9050A</b>									
Specific Conductance (EC)	1.01		0.00500	mmhos/cm	1	B5H2822	08/28/2025	08/30/2025	
<b>Table 915 metals by EPA 6020B</b>									
Arsenic	4.75		0.208	mg/kg dry	10	B5I0223	09/02/2025	09/05/2025	
Barium	163		58.6	"	"	"	"	"	
Cadmium	0.293		0.272	"	"	"	"	"	
Copper	ND		32.9	"	"	"	"	"	U
Lead	11.6		10.0	"	"	"	"	"	
Nickel	ND		18.6	"	"	"	"	"	U
Selenium	0.458		0.176	"	"	"	"	"	
Silver	ND		0.572	"	"	"	"	"	U
Zinc	ND		264	"	"	"	"	"	U

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Ethan Black  
 Project Number: 30076  
 Project: Noble - Furrow USX AB 15-99HZ

**99FL05 3Ft**

**8/27/2025 11:30:00AM**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**E5H0619-03 (Soil)  
 Enthalpy Orange**

**Total Metals by 7199**

Hexavalent Chromium	ND	0.18	0.35	mg/Kg dry	1	381108	09/04/2025	09/08/2025	ND
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**Origins Laboratory**

**Boron (DTPA Sorbitol)**

(DTPA Sorbitol) Boron	0.259		0.116	mg/L dry	1	B5H2819	08/28/2025	09/03/2025	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND		29.0	mg/kg dry	1	B5H2832	08/28/2025	08/29/2025	U
Residual Range Organics (C28-C36)	ND		116	"	"	"	"	"	U

Surrogate: o-Terphenyl	68.0 %				50-150	"	"	"	
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND		0.002	mg/kg dry	1	B5H2912	08/29/2025	08/31/2025	U
1,3,5-Trimethylbenzene	ND		0.002	"	"	"	"	"	U
Benzene	0.004		0.002	"	"	"	"	"	
Ethylbenzene	ND		0.002	"	"	"	"	"	U
Toluene	ND		0.002	"	"	"	"	"	U
Xylenes, total	ND		0.002	"	"	"	"	"	U

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**99FL05 3Ft**

**8/27/2025 11:30:00AM**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**E5H0619-03 (Soil)  
 Origins Laboratory**

**GBTEX+TMBs by 8260D**

Gasoline Range Hydrocarbons	ND		0.232	mg/kg dry	1	B5H2912	08/29/2025	08/31/2025	U
Surrogate: 1,2-Dichloroethane-d4	92.6 %			70-130		"	"	"	
Surrogate: Toluene-d8	93.3 %			70-130		"	"	"	
Surrogate: 4-Bromofluorobenzene	91.0 %			70-130		"	"	"	

**Metals by Saturated Paste by EPA 6010**

Calcium	1.93		0.499	meq/L	10	[CALC]	08/28/2025	09/02/2025	
Magnesium	0.973		0.823	"	"	"	"	"	
Sodium	0.615		0.435	"	"	"	"	"	

**PAH by EPA 8270E extracted via 3580A**

1-Methylnaphthalene	ND		0.002	mg/kg dry	1	B5H2924	08/29/2025	08/29/2025	U
2-Methylnaphthalene	ND		0.002	"	"	"	"	"	U
Acenaphthene	ND		0.023	"	"	"	"	"	U
Anthracene	ND		0.023	"	"	"	"	"	U
Benzo (a) anthracene	ND		0.006	"	"	"	"	"	U
Benzo (a) pyrene	ND		0.023	"	"	"	"	"	U
Benzo (b) fluoranthene	ND		0.023	"	"	"	"	"	U
Benzo (k) fluoranthene	ND		0.023	"	"	"	"	"	U

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**99FL05 3Ft**

**8/27/2025 11:30:00AM**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**E5H0619-03 (Soil)  
 Origins Laboratory**

**PAH by EPA 8270E extracted via 3580A**

Chrysene	ND		0.023	mg/kg dry	1	B5H2924	08/29/2025	08/29/2025	U
Dibenz (a,h) anthracene	ND		0.023	"	"	"	"	"	U
Fluoranthene	ND		0.023	"	"	"	"	"	U
Fluorene	ND		0.023	"	"	"	"	"	U
Indeno (1,2,3-cd) pyrene	ND		0.023	"	"	"	"	"	U
Naphthalene	ND		0.002	"	"	"	"	"	U
Pyrene	ND		0.023	"	"	"	"	"	U

Surrogate: Fluorene-d10	104 %			60-130		"	"	"	
Surrogate: Anthracene-d10	101 %			60-130		"	"	"	
Surrogate: Pyrene-d10	101 %			60-130		"	"	"	
Surrogate: Benzo (a) pyrene-d12	96.2 %			60-130		"	"	"	

**Percent Solids**

Total Solids, Percent	86.1			mass percent	1	B5H2939	08/29/2025	09/02/2025	
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**pH in Soil by 9045D**

pH	8.12			pH Units	1	B5H2824	08/28/2025	08/30/2025	
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**SAR by 20B Saturated Paste**

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**99FL05 3Ft**

**8/27/2025 11:30:00AM**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
<b>E5H0619-03 (Soil)</b>									
<b>Origins Laboratory</b>									
<b>SAR by 20B Saturated Paste</b>									
SAR	0.510		0.0100	SAR	1	B5H2823	08/28/2025	09/02/2025	
<b>Specific Conductance Mod. 9050A</b>									
Specific Conductance (EC)	0.357		0.00500	mmhos/cm	1	B5H2824	08/28/2025	08/30/2025	
<b>Table 915 metals by EPA 6020B</b>									
Arsenic	3.63		0.229	mg/kg dry	10	B5I0223	09/02/2025	09/05/2025	
Barium	127		64.6	"	"	"	"	"	
Cadmium	ND		0.299	"	"	"	"	"	U
Copper	ND		36.2	"	"	"	"	"	U
Lead	ND		11.0	"	"	"	"	"	U
Nickel	ND		20.5	"	"	"	"	"	U
Selenium	ND		0.194	"	"	"	"	"	U
Silver	ND		0.630	"	"	"	"	"	U
Zinc	ND		292	"	"	"	"	"	U

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**BKG6 3Ft**

**8/27/2025 11:45:00AM**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**E5H0619-04 (Soil)  
 Enthalpy Orange**

**Total Metals by 7199**

Hexavalent Chromium	ND	0.16	0.30	mg/Kg dry	1	381108	09/04/2025	09/08/2025	ND
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**Origins Laboratory**

**Boron (DTPA Sorbitol)**

(DTPA Sorbitol) Boron	0.183		0.104	mg/L dry	1	B5H2819	08/28/2025	09/03/2025	
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**Metals by Saturated Paste by EPA 6010**

Calcium	ND		0.499	meq/L	10	[CALC]	08/28/2025	09/02/2025	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	ND		0.435	"	"	"	"	"	

**Percent Solids**

Total Solids, Percent	95.6			mass percent	1	B5H2939	08/29/2025	09/02/2025	
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**pH in Soil by 9045D**

pH	7.45			pH Units	1	B5H2824	08/28/2025	08/30/2025	
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**SAR by 20B Saturated Paste**

SAR	0.146		0.0100	SAR	1	B5H2823	08/28/2025	09/02/2025	
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**BKG6 3Ft**

**8/27/2025 11:45:00AM**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**E5H0619-04 (Soil)  
 Origins Laboratory**

**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.0859		0.00500	mmhos/cm	1	B5H2824	08/28/2025	08/30/2025	
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**Table 915 metals by EPA 6020B**

Arsenic	4.39		0.200	mg/kg dry	10	B5I0223	09/02/2025	09/05/2025	
Barium	77.1		56.3	"	"	"	"	"	
Cadmium	ND		0.261	"	"	"	"	"	U
Copper	ND		31.6	"	"	"	"	"	U
Lead	ND		9.62	"	"	"	"	"	U
Nickel	ND		17.9	"	"	"	"	"	U
Selenium	ND		0.169	"	"	"	"	"	U
Silver	ND		0.550	"	"	"	"	"	U
Zinc	ND		254	"	"	"	"	"	U

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**BKG6 6Ft**

**8/27/2025 12:00:00PM**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
<b>E5H0619-05 (Soil)</b>									
<b>Enthalpy Orange</b>									
<b>Total Metals by 7199</b>									
Hexavalent Chromium	ND	0.17	0.32	mg/Kg dry	1	381108	09/04/2025	09/08/2025	ND
<b>Origins Laboratory</b>									
<b>Boron (DTPA Sorbitol)</b>									
(DTPA Sorbitol) Boron	0.158		0.107	mg/L dry	1	B5H2819	08/28/2025	09/03/2025	
<b>Metals by Saturated Paste by EPA 6010</b>									
Calcium	0.768		0.499	meq/L	10	[CALC]	08/28/2025	09/02/2025	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	1.11		0.435	"	"	"	"	"	
<b>Percent Solids</b>									
Total Solids, Percent	93.2			mass percent	1	B5H2931	08/29/2025	09/02/2025	
<b>pH in Soil by 9045D</b>									
pH	8.35			pH Units	1	B5H2824	08/28/2025	08/30/2025	
<b>SAR by 20B Saturated Paste</b>									
SAR	1.52		0.0100	SAR	1	B5H2823	08/28/2025	09/02/2025	

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**BKG6 6Ft**

**8/27/2025 12:00:00PM**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**E5H0619-05 (Soil)  
 Origins Laboratory**

**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.228		0.00500	mmhos/cm	1	B5H2824	08/28/2025	08/30/2025	
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**Table 915 metals by EPA 6020B**

Arsenic	4.51		0.218	mg/kg dry	10	B5I0223	09/02/2025	09/05/2025	
Barium	85.3		61.5	"	"	"	"	"	
Cadmium	ND		0.285	"	"	"	"	"	U
Copper	ND		34.5	"	"	"	"	"	U
Lead	11.8		10.5	"	"	"	"	"	
Nickel	ND		19.5	"	"	"	"	"	U
Selenium	ND		0.185	"	"	"	"	"	U
Silver	ND		0.600	"	"	"	"	"	U
Zinc	ND		278	"	"	"	"	"	U

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**BKG7 3Ft**

**8/27/2025 12:15:00PM**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
<b>E5H0619-06 (Soil)</b>									
<b>Enthalpy Orange</b>									
<b>Total Metals by 7199</b>									
Hexavalent Chromium	ND	0.17	0.33	mg/Kg dry	1	381108	09/04/2025	09/08/2025	ND
<b>Origins Laboratory</b>									
<b>Boron (DTPA Sorbitol)</b>									
(DTPA Sorbitol) Boron	0.462		0.111	mg/L dry	1	B5H2819	08/28/2025	09/03/2025	
<b>Metals by Saturated Paste by EPA 6010</b>									
Calcium	1.53		0.499	meq/L	10	[CALC]	08/28/2025	09/02/2025	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	2.10		0.435	"	"	"	"	"	
<b>Percent Solids</b>									
Total Solids, Percent	89.7			mass percent	1	B5H2931	08/29/2025	09/02/2025	
<b>pH in Soil by 9045D</b>									
pH	8.19			pH Units	1	B5H2824	08/28/2025	08/30/2025	
<b>SAR by 20B Saturated Paste</b>									
SAR	1.98		0.0100	SAR	1	B5H2823	08/28/2025	09/02/2025	

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**BKG7 3Ft**  
**8/27/2025 12:15:00PM**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
<b>E5H0619-06 (Soil)</b>									
<b>Origins Laboratory</b>									
<b>Specific Conductance Mod. 9050A</b>									
Specific Conductance (EC)	0.507		0.00500	mmhos/cm	1	B5H2824	08/28/2025	08/30/2025	
<b>Table 915 metals by EPA 6020B</b>									
Arsenic	3.95		0.232	mg/kg dry	10	B5I0223	09/02/2025	09/05/2025	
Barium	163		65.4	"	"	"	"	"	
Cadmium	ND		0.303	"	"	"	"	"	U
Copper	ND		36.7	"	"	"	"	"	U
Lead	12.3		11.2	"	"	"	"	"	
Nickel	ND		20.7	"	"	"	"	"	U
Selenium	ND		0.196	"	"	"	"	"	U
Silver	ND		0.638	"	"	"	"	"	U
Zinc	ND		295	"	"	"	"	"	U

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**BKG7 6Ft**

**8/27/2025 12:30:00PM**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**E5H0619-07 (Soil)  
 Enthalpy Orange**

**Total Metals by 7199**

Hexavalent Chromium	ND	0.18	0.34	mg/Kg dry	1	381108	09/04/2025	09/08/2025	ND
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**Origins Laboratory**

**Boron (DTPA Sorbitol)**

(DTPA Sorbitol) Boron	0.775		0.112	mg/L dry	1	B5H2819	08/28/2025	09/03/2025	
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**Metals by Saturated Paste by EPA 6010**

Calcium	5.21		0.499	meq/L	10	[CALC]	08/28/2025	09/02/2025	
Magnesium	2.26		0.823	"	"	"	"	"	
Sodium	4.51		0.435	"	"	"	"	"	

**Percent Solids**

Total Solids, Percent	89.0			mass percent	1	B5H2931	08/29/2025	09/02/2025	
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**pH in Soil by 9045D**

pH	8.08			pH Units	1	B5H2824	08/28/2025	08/30/2025	
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**SAR by 20B Saturated Paste**

SAR	2.33		0.0100	SAR	1	B5H2823	08/28/2025	09/02/2025	
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**BKG7 6Ft**  
**8/27/2025 12:30:00PM**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
<b>E5H0619-07 (Soil)</b>									
<b>Origins Laboratory</b>									
<b>Specific Conductance Mod. 9050A</b>									
Specific Conductance (EC)	1.18		0.00500	mmhos/cm	1	B5H2824	08/28/2025	08/30/2025	
<b>Table 915 metals by EPA 6020B</b>									
Arsenic	5.23		0.228	mg/kg dry	10	B5I0223	09/02/2025	09/05/2025	
Barium	96.0		64.3	"	"	"	"	"	
Cadmium	0.328		0.298	"	"	"	"	"	
Copper	ND		36.1	"	"	"	"	"	U
Lead	18.0		11.0	"	"	"	"	"	
Nickel	ND		20.4	"	"	"	"	"	U
Selenium	ND		0.193	"	"	"	"	"	U
Silver	ND		0.628	"	"	"	"	"	U
Zinc	ND		290	"	"	"	"	"	U

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**BKG8 3Ft**

**8/27/2025 12:45:00PM**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**E5H0619-08 (Soil)  
 Enthalpy Orange**

**Total Metals by 7199**

Hexavalent Chromium	ND	0.17	0.32	mg/Kg dry	1	381108	09/04/2025	09/08/2025	ND
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**Origins Laboratory**

**Boron (DTPA Sorbitol)**

(DTPA Sorbitol) Boron	0.483		0.111	mg/L dry	1	B5H2819	08/28/2025	09/03/2025	
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**Metals by Saturated Paste by EPA 6010**

Calcium	ND		0.499	meq/L	10	[CALC]	08/28/2025	09/02/2025	
Magnesium	ND		0.823	"	"	"	"	"	"
Sodium	1.16		0.435	"	"	"	"	"	"

**Percent Solids**

Total Solids, Percent	89.9			mass percent	1	B5H2931	08/29/2025	09/02/2025	
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**pH in Soil by 9045D**

pH	7.81			pH Units	1	B5H2824	08/28/2025	08/30/2025	
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**SAR by 20B Saturated Paste**

SAR	1.77		0.0100	SAR	1	B5H2823	08/28/2025	09/02/2025	
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 Project: Noble - Furrow USX AB 15-99HZ

**BKG8 3Ft**

**8/27/2025 12:45:00PM**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**E5H0619-08 (Soil)  
 Origins Laboratory**

**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.174		0.00500	mmhos/cm	1	B5H2824	08/28/2025	08/30/2025	
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**Table 915 metals by EPA 6020B**

Arsenic	4.68		0.224	mg/kg dry	10	B5I0223	09/02/2025	09/05/2025	
Barium	140		63.2	"	"	"	"	"	
Cadmium	0.356		0.293	"	"	"	"	"	
Copper	ND		35.4	"	"	"	"	"	U
Lead	16.0		10.8	"	"	"	"	"	
Nickel	ND		20.0	"	"	"	"	"	U
Selenium	ND		0.189	"	"	"	"	"	U
Silver	ND		0.616	"	"	"	"	"	U
Zinc	ND		285	"	"	"	"	"	U

Origins Laboratory

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Fremont Environmental  
 8305 6th St, PO Box 1289  
 Wellington CO 80549

Ethan Black  
 Project Number: 30076  
 Project: Noble - Furrow USX AB 15-99HZ

**BKG8 6Ft**

**8/27/2025 1:00:00PM**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**E5H0619-09 (Soil)  
 Enthalpy Orange**

**Total Metals by 7199**

Hexavalent Chromium	ND	0.17	0.32	mg/Kg dry	1	381108	09/04/2025	09/08/2025	ND
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**Origins Laboratory**

**Boron (DTPA Sorbitol)**

(DTPA Sorbitol) Boron	0.391		0.110	mg/L dry	1	B5H2819	08/28/2025	09/03/2025	
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**Metals by Saturated Paste by EPA 6010**

Calcium	4.78		0.499	meq/L	10	[CALC]	08/28/2025	09/02/2025	
Magnesium	3.18		0.823	"	"	"	"	"	
Sodium	6.66		0.435	"	"	"	"	"	

**Percent Solids**

Total Solids, Percent	90.3			mass percent	1	B5H2931	08/29/2025	09/02/2025	
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**pH in Soil by 9045D**

pH	7.80			pH Units	1	B5H2824	08/28/2025	08/30/2025	
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**SAR by 20B Saturated Paste**

SAR	3.34		0.0100	SAR	1	B5H2823	08/28/2025	09/02/2025	
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 Project Number: 30076  
 Project: Noble - Furrow USX AB 15-99HZ

**BKG8 6Ft**

**8/27/2025 1:00:00PM**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**E5H0619-09 (Soil)  
 Origins Laboratory**

**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	1.35		0.00500	mmhos/cm	1	B5H2824	08/28/2025	08/30/2025	
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**Table 915 metals by EPA 6020B**

Arsenic	4.27		0.219	mg/kg dry	10	B5I0223	09/02/2025	09/05/2025	
Barium	ND		61.7	"	"	"	"	"	U
Cadmium	ND		0.286	"	"	"	"	"	U
Copper	ND		34.6	"	"	"	"	"	U
Lead	11.2		10.5	"	"	"	"	"	
Nickel	ND		19.6	"	"	"	"	"	U
Selenium	0.227		0.185	"	"	"	"	"	
Silver	ND		0.602	"	"	"	"	"	U
Zinc	ND		278	"	"	"	"	"	U

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Ethan Black  
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 Project: Noble - Furrow USX AB 15-99HZ

**BKG9 3Ft**

**8/27/2025 1:15:00PM**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**E5H0619-10 (Soil)  
 Enthalpy Orange**

**Total Metals by 7199**

Hexavalent Chromium	ND	0.16	0.31	mg/Kg dry	1	381108	09/04/2025	09/08/2025	ND
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**Origins Laboratory**

**Boron (DTPA Sorbitol)**

(DTPA Sorbitol) Boron	0.281		0.103	mg/L dry	1	B5H2819	08/28/2025	09/03/2025	
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**Metals by Saturated Paste by EPA 6010**

Calcium	1.37		0.499	meq/L	10	[CALC]	08/28/2025	09/02/2025	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	0.694		0.435	"	"	"	"	"	

**Percent Solids**

Total Solids, Percent	96.8			mass percent	1	B5H2931	08/29/2025	09/02/2025	
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**pH in Soil by 9045D**

pH	8.18			pH Units	1	B5H2824	08/28/2025	08/30/2025	
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**SAR by 20B Saturated Paste**

SAR	0.670		0.0100	SAR	1	B5H2823	08/28/2025	09/02/2025	
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Ethan Black  
 Project Number: 30076  
 Project: Noble - Furrow USX AB 15-99HZ

**BKG9 3Ft**

**8/27/2025 1:15:00PM**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**E5H0619-10 (Soil)  
 Origins Laboratory**

**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	0.299		0.00500	mmhos/cm	1	B5H2824	08/28/2025	08/30/2025	
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**Table 915 metals by EPA 6020B**

Arsenic	5.36		0.204	mg/kg dry	10	B5I0223	09/02/2025	09/05/2025	
Barium	119		57.7	"	"	"	"	"	
Cadmium	ND		0.267	"	"	"	"	"	U
Copper	ND		32.4	"	"	"	"	"	U
Lead	ND		9.85	"	"	"	"	"	U
Nickel	ND		18.3	"	"	"	"	"	U
Selenium	ND		0.173	"	"	"	"	"	U
Silver	ND		0.563	"	"	"	"	"	U
Zinc	ND		260	"	"	"	"	"	U

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 Project: Noble - Furrow USX AB 15-99HZ

**BKG9 6Ft**

**8/27/2025 1:30:00PM**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**E5H0619-11 (Soil)  
 Enthalpy Orange**

**Total Metals by 7199**

Hexavalent Chromium	ND	0.17	0.32	mg/Kg dry	1	381108	09/04/2025	09/08/2025	ND
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**Origins Laboratory**

**Boron (DTPA Sorbitol)**

(DTPA Sorbitol) Boron	2.94		0.110	mg/L dry	1	B5H2819	08/28/2025	09/03/2025	
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**Metals by Saturated Paste by EPA 6010**

Calcium	8.69		0.499	meq/L	10	[CALC]	08/28/2025	09/02/2025	
Magnesium	26.4		0.823	"	"	"	"	"	
Sodium	65.7		0.435	"	"	"	"	"	

**Percent Solids**

Total Solids, Percent	91.4			mass percent	1	B5H2931	08/29/2025	09/02/2025	
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**pH in Soil by 9045D**

pH	8.22			pH Units	1	B5H2824	08/28/2025	08/30/2025	
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**SAR by 20B Saturated Paste**

SAR	15.7		0.0100	SAR	1	B5H2823	08/28/2025	09/02/2025	
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Ethan Black  
 Project Number: 30076  
 Project: Noble - Furrow USX AB 15-99HZ

**BKG9 6Ft**  
**8/27/2025 1:30:00PM**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
<b>E5H0619-11 (Soil)</b>									
<b>Origins Laboratory</b>									
<b>Specific Conductance Mod. 9050A</b>									
Specific Conductance (EC)	7.00		0.00500	mmhos/cm	1	B5H2824	08/28/2025	08/30/2025	
<b>Table 915 metals by EPA 6020B</b>									
Arsenic	3.91		0.224	mg/kg dry	10	B5I0223	09/02/2025	09/05/2025	
Barium	68.2		63.3	"	"	"	"	"	
Cadmium	ND		0.293	"	"	"	"	"	U
Copper	ND		35.5	"	"	"	"	"	U
Lead	15.5		10.8	"	"	"	"	"	
Nickel	ND		20.1	"	"	"	"	"	U
Selenium	0.437		0.190	"	"	"	"	"	
Silver	ND		0.617	"	"	"	"	"	U
Zinc	ND		285	"	"	"	"	"	U

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 Project: Noble - Furrow USX AB 15-99HZ

**BKG10 3Ft**

**8/27/2025 1:45:00PM**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**E5H0619-12 (Soil)  
 Enthalpy Orange**

**Total Metals by 7199**

Hexavalent Chromium	ND	0.16	0.30	mg/Kg dry	1	381108	09/04/2025	09/08/2025	ND
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**Origins Laboratory**

**Boron (DTPA Sorbitol)**

Boron	ND		0.103	mg/L dry	1	B5H2820	08/28/2025	09/02/2025	U
(DTPA Sorbitol) Boron	0.268		0.103	"	"	"	"	"	

**Metals by Saturated Paste by EPA 6010**

Calcium	1.54		0.499	meq/L	10	[CALC]	08/28/2025	09/02/2025	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	ND		0.435	"	"	"	"	"	

**Percent Solids**

Total Solids, Percent	96.8			mass percent	1	B5H2931	08/29/2025	09/02/2025	
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**pH in Soil by 9045D**

pH	8.08			pH Units	1	B5H2824	08/28/2025	08/30/2025	
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**SAR by 20B Saturated Paste**

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Ethan Black  
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 Project: Noble - Furrow USX AB 15-99HZ

**BKG10 3Ft**  
**8/27/2025 1:45:00PM**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
<b>E5H0619-12 (Soil)</b>									
<b>Origins Laboratory</b>									
<b>SAR by 20B Saturated Paste</b>									
SAR	0.0937		0.0100	SAR	1	B5H2823	08/28/2025	09/02/2025	
<b>Specific Conductance Mod. 9050A</b>									
Specific Conductance (EC)	0.231		0.00500	mmhos/cm	1	B5H2824	08/28/2025	08/30/2025	
<b>Table 915 metals by EPA 6020B</b>									
Arsenic	3.46		0.210	mg/kg dry	10	B5I0223	09/02/2025	09/05/2025	
Barium	80.8		59.2	"	"	"	"	"	
Cadmium	ND		0.274	"	"	"	"	"	U
Copper	ND		33.2	"	"	"	"	"	U
Lead	ND		10.1	"	"	"	"	"	U
Nickel	ND		18.8	"	"	"	"	"	U
Selenium	ND		0.178	"	"	"	"	"	U
Silver	ND		0.578	"	"	"	"	"	U
Zinc	ND		267	"	"	"	"	"	U

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 Project: Noble - Furrow USX AB 15-99HZ

**BKG10 6Ft**

**8/27/2025 2:00:00PM**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**E5H0619-13 (Soil)  
 Enthalpy Orange**

**Total Metals by 7199**

Hexavalent Chromium	ND	0.16	0.30	mg/Kg dry	1	381108	09/04/2025	09/08/2025	ND
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**Origins Laboratory**

**Boron (DTPA Sorbitol)**

Boron	ND		0.103	mg/L dry	1	B5H2820	08/28/2025	09/02/2025	U
(DTPA Sorbitol) Boron	0.178		0.103	"	"	"	"	"	"

**Metals by Saturated Paste by EPA 6010**

Calcium	ND		0.499	meq/L	10	[CALC]	08/28/2025	09/02/2025	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	0.704		0.435	"	"	"	"	"	

**Percent Solids**

Total Solids, Percent	97.9			mass percent	1	B5H2931	08/29/2025	09/02/2025	
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**pH in Soil by 9045D**

pH	8.69			pH Units	1	B5H2824	08/28/2025	08/30/2025	
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**SAR by 20B Saturated Paste**

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 Project: Noble - Furrow USX AB 15-99HZ

**BKG10 6Ft**  
**8/27/2025 2:00:00PM**

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
<b>E5H0619-13 (Soil)</b>									
<b>Origins Laboratory</b>									
<b>SAR by 20B Saturated Paste</b>									
SAR	0.923		0.0100	SAR	1	B5H2823	08/28/2025	09/02/2025	
<b>Specific Conductance Mod. 9050A</b>									
Specific Conductance (EC)	0.195		0.00500	mmhos/cm	1	B5H2824	08/28/2025	08/30/2025	
<b>Table 915 metals by EPA 6020B</b>									
Arsenic	2.81		0.210	mg/kg dry	10	B5I0223	09/02/2025	09/05/2025	
Barium	ND		59.4	"	"	"	"	"	U
Cadmium	ND		0.275	"	"	"	"	"	U
Copper	ND		33.3	"	"	"	"	"	U
Lead	ND		10.1	"	"	"	"	"	U
Nickel	ND		18.8	"	"	"	"	"	U
Selenium	ND		0.178	"	"	"	"	"	U
Silver	ND		0.579	"	"	"	"	"	U
Zinc	ND		268	"	"	"	"	"	U

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**\*\*\* DEFAULT GENERAL METHOD \*\*\* - Quality Control**  
**Origins Laboratory**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B5H2931 - % Solids**

**Duplicate (B5H2931-DUP1)**

**Source: E5H0619-05**

Prepared: 08/29/2025 Analyzed: 09/02/2025

Total Solids, Percent	93.2		mass percent		93.2			0.0433	20	
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**Duplicate (B5H2931-DUP2)**

**Source: E5H0619-06**

Prepared: 08/29/2025 Analyzed: 09/02/2025

Total Solids, Percent	89.9		mass percent		89.7			0.164	20	
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**Batch B5H2939 - % Solids**

**Duplicate (B5H2939-DUP1)**

**Source: E5H0614-17**

Prepared: 08/29/2025 Analyzed: 09/02/2025

Total Solids, Percent	95.3		mass percent		95.5			0.143	20	
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**Duplicate (B5H2939-DUP2)**

**Source: E5H0614-18**

Prepared: 08/29/2025 Analyzed: 09/02/2025

Total Solids, Percent	92.4		mass percent		92.3			0.0865	20	
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Ethan Black  
 Project Number: 30076  
 Project: Noble - Furrow USX AB 15-99HZ

**Classical Chemistry Parameters - Quality Control**  
**Origins Laboratory**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B5H2819 - DTPA Sorbitol Preparation**

**Blank (B5H2819-BLK1)**

Prepared: 08/28/2025 Analyzed: 09/03/2025

(DTPA Sorbitol) Boron ND 0.100 mg/L wet U

**Duplicate (B5H2819-DUP1)**

Source: E5H0615-01

Prepared: 08/28/2025 Analyzed: 09/03/2025

(DTPA Sorbitol) Boron 0.119 0.110 mg/L dry 0.118 0.372 50

**Batch B5H2820 - DTPA Sorbitol Preparation**

**Blank (B5H2820-BLK1)**

Prepared: 08/28/2025 Analyzed: 09/02/2025

(DTPA Sorbitol) Boron ND 0.100 mg/L wet U

**Duplicate (B5H2820-DUP1)**

Source: E5H0619-12

Prepared: 08/28/2025 Analyzed: 09/02/2025

(DTPA Sorbitol) Boron 0.285 0.103 mg/L dry 0.268 6.13 50

**Batch B5H2821 - Saturated Paste Metals**

**Blank (B5H2821-BLK1)**

Prepared: 08/28/2025 Analyzed: 09/02/2025

SAR ND 0.0100 SAR U

Calcium PPM ND 10.0 mg/L U

Magnesium PPM ND 10.0 " U

Sodium PPM ND 10.0 " U

**Duplicate (B5H2821-DUP1)**

Source: E5H0614-15

Prepared: 08/28/2025 Analyzed: 09/02/2025

SAR ND 0.0100 SAR 0.166 200 U

Calcium PPM 23.0 10.0 mg/L 23.7 3.17 50

Magnesium PPM 22.2 10.0 " 21.5 3.20 50

Sodium PPM 4.61 10.0 " 4.65 0.864 50 U

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Ethan Black  
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 Project: Noble - Furrow USX AB 15-99HZ

**Classical Chemistry Parameters - Quality Control**  
**Origins Laboratory**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B5H2823 - Saturated Paste Metals**

**Blank (B5H2823-BLK1)**

Prepared: 08/28/2025 Analyzed: 09/02/2025

Calcium PPM	ND	10.0	mg/L							U
SAR	ND	0.0100	SAR							U
Magnesium PPM	ND	10.0	mg/L							U
Sodium PPM	ND	10.0	"							U

**Duplicate (B5H2823-DUP1)**

**Source: E5H0619-03**

Prepared: 08/28/2025 Analyzed: 09/02/2025

Calcium PPM	32.6	10.0	mg/L		38.7			16.9	50	
SAR	ND	0.0100	SAR		0.510				200	U
Magnesium PPM	10.6	10.0	mg/L		11.8			11.2	50	
Sodium PPM	15.0	10.0	"		14.1			5.84	50	

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**EPA 8270E (SW846) - Semivolatile Organic Compounds - Quality Control**  
**Origins Laboratory**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B5H2924 - EPA 3580**

**Blank (B5H2924-BLK1)**

Prepared: 08/29/2025 Analyzed: 08/29/2025

1-Methylnaphthalene	ND	0.002	mg/kg wet							U
2-Methylnaphthalene	ND	0.002	"							U
Acenaphthene	ND	0.020	"							U
Anthracene	ND	0.020	"							U
Benzo (a) anthracene	ND	0.005	"							U
Benzo (a) pyrene	ND	0.020	"							U
Benzo (b) fluoranthene	ND	0.020	"							U
Benzo (k) fluoranthene	ND	0.020	"							U
Chrysene	ND	0.020	"							U
Dibenz (a,h) anthracene	ND	0.020	"							U
Fluoranthene	ND	0.020	"							U
Fluorene	ND	0.020	"							U
Indeno (1,2,3-cd) pyrene	ND	0.020	"							U
Naphthalene	ND	0.002	"							U
Pyrene	ND	0.020	"							U

Surrogate: Fluorene-d10	210		ug/kg	200	103	60-130				
Surrogate: Anthracene-d10	200		"	200	99.7	60-130				
Surrogate: Pyrene-d10	200		"	200	97.8	60-130				
Surrogate: Benzo (a) pyrene-d12	200		"	200	98.1	60-130				

**LCS (B5H2924-BS1)**

Prepared: 08/29/2025 Analyzed: 08/29/2025

1-Methylnaphthalene	0.196	0.002	mg/kg wet	0.200	98.2	70-130				
2-Methylnaphthalene	0.200	0.002	"	0.200	99.8	70-130				
Acenaphthene	0.196	0.020	"	0.200	98.0	70-130				
Anthracene	0.194	0.020	"	0.200	96.8	70-130				
Benzo (a) anthracene	0.195	0.005	"	0.200	97.5	70-130				
Benzo (a) pyrene	0.186	0.020	"	0.200	92.9	70-130				

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**EPA 8270E (SW846) - Semivolatile Organic Compounds - Quality Control**  
**Origins Laboratory**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B5H2924 - EPA 3580**

**LCS (B5H2924-BS1)**

Prepared: 08/29/2025 Analyzed: 08/29/2025

Benzo (b) fluoranthene	0.181	0.020	mg/kg wet	0.200		90.5	70-130			
Benzo (g,h,i) perylene	0.183	0.020	"	0.200		91.4	70-130			
Benzo (k) fluoranthene	0.188	0.020	"	0.200		94.1	70-130			
Chrysene	0.192	0.020	"	0.200		95.9	70-130			
Dibenz (a,h) anthracene	0.179	0.020	"	0.200		89.6	70-130			
Fluoranthene	0.195	0.020	"	0.200		97.7	70-130			
Fluorene	0.192	0.020	"	0.200		95.9	70-130			
Indeno (1,2,3-cd) pyrene	0.181	0.020	"	0.200		90.6	70-130			
Naphthalene	0.198	0.002	"	0.200		99.1	70-130			
Phenanthrene	0.199	0.020	"	0.200		99.3	70-130			
Pyrene	0.194	0.020	"	0.200		96.9	70-130			
Surrogate: Fluorene-d10	200		ug/kg	200		101	60-130			
Surrogate: Anthracene-d10	200		"	200		98.6	60-130			
Surrogate: Pyrene-d10	200		"	200		98.8	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		98.3	60-130			

**Matrix Spike (B5H2924-MS1)**

**Source: E5H0609-01**

Prepared: 08/29/2025 Analyzed: 08/29/2025

1-Methylnaphthalene	0.212	0.002	mg/kg dry	0.209	0.0007	101	70-130			
2-Methylnaphthalene	0.212	0.002	"	0.209	ND	101	70-130			
Acenaphthene	0.209	0.021	"	0.209	ND	100	70-130			
Anthracene	0.204	0.021	"	0.209	ND	97.8	70-130			
Benzo (a) anthracene	0.204	0.005	"	0.209	ND	97.6	70-130			
Benzo (a) pyrene	0.200	0.021	"	0.209	0.0004	95.4	70-130			
Benzo (b) fluoranthene	0.199	0.021	"	0.209	ND	95.4	70-130			
Benzo (g,h,i) perylene	0.190	0.021	"	0.209	0.0008	90.8	70-130			
Benzo (k) fluoranthene	0.202	0.021	"	0.209	ND	96.6	70-130			
Chrysene	0.203	0.021	"	0.209	0.0006	97.0	70-130			

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**EPA 8270E (SW846) - Semivolatile Organic Compounds - Quality Control**  
**Origins Laboratory**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B5H2924 - EPA 3580**

**Matrix Spike (B5H2924-MS1)**

**Source: E5H0609-01**

Prepared: 08/29/2025 Analyzed: 08/29/2025

Dibenz (a,h) anthracene	0.194	0.021	mg/kg dry	0.209	0.001	92.3	70-130			
Fluoranthene	0.204	0.021	"	0.209	0.0007	97.6	70-130			
Fluorene	0.209	0.021	"	0.209	ND	99.9	70-130			
Indeno (1,2,3-cd) pyrene	0.197	0.021	"	0.209	0.002	93.6	70-130			
Naphthalene	0.209	0.002	"	0.209	ND	100	70-130			
Phenanthrene	0.208	0.021	"	0.209	ND	99.5	70-130			
Pyrene	0.210	0.021	"	0.209	0.0008	100	70-130			
Surrogate: Fluorene-d10	210		ug/kg	200		103	60-130			
Surrogate: Anthracene-d10	200		"	200		97.7	60-130			
Surrogate: Pyrene-d10	200		"	200		101	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		100	60-130			

**Matrix Spike Dup (B5H2924-MSD1)**

**Source: E5H0609-01**

Prepared: 08/29/2025 Analyzed: 08/29/2025

1-Methylnaphthalene	0.207	0.002	mg/kg dry	0.209	0.0007	98.8	70-130	2.34	20	
2-Methylnaphthalene	0.205	0.002	"	0.209	ND	98.4	70-130	3.05	20	
Acenaphthene	0.206	0.021	"	0.209	ND	98.8	70-130	1.40	20	
Anthracene	0.207	0.021	"	0.209	ND	99.2	70-130	1.41	20	
Benzo (a) anthracene	0.200	0.005	"	0.209	ND	95.7	70-130	1.94	20	
Benzo (a) pyrene	0.195	0.021	"	0.209	0.0004	93.3	70-130	2.22	20	
Benzo (b) fluoranthene	0.193	0.021	"	0.209	ND	92.4	70-130	3.19	20	
Benzo (g,h,i) perylene	0.187	0.021	"	0.209	0.0008	89.3	70-130	1.67	20	
Benzo (k) fluoranthene	0.202	0.021	"	0.209	ND	96.8	70-130	0.130	20	
Chrysene	0.195	0.021	"	0.209	0.0006	92.9	70-130	4.25	20	
Dibenz (a,h) anthracene	0.189	0.021	"	0.209	0.001	89.7	70-130	2.86	20	
Fluoranthene	0.212	0.021	"	0.209	0.0007	101	70-130	3.53	20	
Fluorene	0.207	0.021	"	0.209	ND	99.0	70-130	0.948	20	
Indeno (1,2,3-cd) pyrene	0.189	0.021	"	0.209	0.002	89.8	70-130	4.16	20	

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**EPA 8270E (SW846) - Semivolatile Organic Compounds - Quality Control**  
**Origins Laboratory**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B5H2924 - EPA 3580

Matrix Spike Dup (B5H2924-MSD1)

Source: E5H0609-01

Prepared: 08/29/2025 Analyzed: 08/29/2025

Naphthalene	0.208	0.002	mg/kg dry	0.209	ND	99.5	70-130	0.748	20	
Phenanthrene	0.206	0.021	"	0.209	ND	98.9	70-130	0.606	20	
Pyrene	0.199	0.021	"	0.209	0.0008	95.2	70-130	4.91	20	
Surrogate: Fluorene-d10	210		ug/kg	200		104	60-130			
Surrogate: Anthracene-d10	200		"	200		99.1	60-130			
Surrogate: Pyrene-d10	200		"	200		98.0	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		100	60-130			

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**Extractable Petroleum Hydrocarbons by 8015D - Quality Control**  
**Origins Laboratory**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B5H2832 - EPA 3550B**

Prepared: 08/28/2025 Analyzed: 08/29/2025

**Blank (B5H2832-BLK1)**

Diesel (C10-C28)	ND	25.0	mg/kg wet							U
Residual Range Organics (C28-C36)	ND	100	"							U
Surrogate: o-Terphenyl	17		"	24.9		68.7	50-150			

**LCS (B5H2832-BS1)**

Prepared: 08/28/2025 Analyzed: 08/29/2025

Diesel (C10-C28)	1000	50.0	mg/kg wet	1000		100	70-130			
Residual Range Organics (C28-C36)	1070	200	"	1000		107	70-130			
Surrogate: o-Terphenyl	50		"	49.8		101	50-150			

**Matrix Spike (B5H2832-MS1)**

**Source: E5H0614-17**

Prepared: 08/28/2025 Analyzed: 08/29/2025

Diesel (C10-C28)	964	52.4	mg/kg dry	1050	ND	92.0	70-130			
Residual Range Organics (C28-C36)	1020	210	"	1050	ND	97.8	70-130			
Surrogate: o-Terphenyl	42		"	52.1		81.4	50-150			

**Matrix Spike Dup (B5H2832-MSD1)**

**Source: E5H0614-17**

Prepared: 08/28/2025 Analyzed: 08/29/2025

Diesel (C10-C28)	1050	52.4	mg/kg dry	1050	ND	101	70-130	8.81	35	
Residual Range Organics (C28-C36)	1130	210	"	1050	ND	108	70-130	9.73	35	
Surrogate: o-Terphenyl	49		"	52.1		93.5	50-150			

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 Project: Noble - Furrow USX AB 15-99HZ

**Metals by EPA 6000/7000 Series Methods - Quality Control**  
**Origins Laboratory**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B510223 - EPA 3050B**

**Blank (B510223-BLK1)**

Prepared: 09/02/2025 Analyzed: 09/05/2025

Arsenic	ND	0.218	mg/kg wet							U
Barium	ND	61.5	"							U
Cadmium	ND	0.285	"							U
Copper	ND	34.5	"							U
Lead	ND	10.5	"							U
Nickel	ND	19.5	"							U
Selenium	ND	0.184	"							U
Silver	ND	0.600	"							U
Zinc	ND	278	"							U

**LCS (B510223-BS1)**

Prepared: 09/02/2025 Analyzed: 09/05/2025

Arsenic	5.44	0.218	mg/kg wet	5.00		109	80-120			
Barium	588	61.5	"	500		118	80-120			
Cadmium	5.46	0.285	"	5.00		109	80-120			
Copper	56.9	34.5	"	50.0		114	80-120			
Lead	5.67	10.5	"	5.00		113	80-120			U
Nickel	5.99	19.5	"	5.00		120	80-120			U
Selenium	5.27	0.184	"	5.00		105	80-120			
Silver	5.58	0.600	"	5.00		112	80-120			
Zinc	55.9	278	"	50.0		112	80-120			U

**Matrix Spike (B510223-MS1)**

**Source: E5H0614-23**

Prepared: 09/02/2025 Analyzed: 09/05/2025

Arsenic	6.59	0.218	mg/kg dry	5.00	1.81	95.6	75-125			
Barium	596	61.5	"	500	73.2	105	75-125			
Cadmium	5.13	0.285	"	5.00	0.0411	102	75-125			
Copper	56.6	34.5	"	50.0	3.67	106	75-125			

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 Project: Noble - Furrow USX AB 15-99HZ

**Metals by EPA 6000/7000 Series Methods - Quality Control**  
**Origins Laboratory**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B5I0223 - EPA 3050B

**Matrix Spike (B5I0223-MS1)**

Source: E5H0614-23

Prepared: 09/02/2025 Analyzed: 09/05/2025

Lead	9.43	10.5	mg/kg dry	5.00	6.00	68.7	75-125			QM-07, U
Nickel	10.1	19.5	"	5.00	4.78	106	75-125			U
Selenium	4.81	0.184	"	5.00	0.0286	95.7	75-125			
Silver	5.31	0.600	"	5.00	0.0172	106	75-125			
Zinc	69.9	277	"	50.0	19.7	100	75-125			U

**Matrix Spike Dup (B5I0223-MSD1)**

Source: E5H0614-23

Prepared: 09/02/2025 Analyzed: 09/05/2025

Arsenic	7.69	0.215	mg/kg dry	4.92	1.81	119	75-125	15.4	20	
Barium	685	60.6	"	492	73.2	124	75-125	14.0	20	
Cadmium	5.88	0.281	"	4.92	0.0411	119	75-125	13.6	20	
Copper	64.3	34.0	"	49.2	3.67	123	75-125	12.8	20	
Lead	11.1	10.3	"	4.92	6.00	103	75-125	16.2	20	
Nickel	11.7	19.2	"	4.92	4.78	140	75-125	14.6	20	QM-07, U
Selenium	5.39	0.182	"	4.92	0.0286	109	75-125	11.4	20	
Silver	6.04	0.591	"	4.92	0.0172	122	75-125	12.7	20	
Zinc	81.8	273	"	49.2	19.7	126	75-125	15.7	20	QM-07, U

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**Saturated Paste - Quality Control**  
**Origins Laboratory**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B5H2822 - Saturated Paste pH/EC**

**Blank (B5H2822-BLK1)**

Prepared: 08/28/2025 Analyzed: 08/30/2025

Specific Conductance (EC) ND 0.00500 mmhos/cm U

**Duplicate (B5H2822-DUP1)**

**Source: E5H0614-15**

Prepared: 08/28/2025 Analyzed: 08/30/2025

Specific Conductance (EC) 0.338 0.00500 mmhos/cm 0.331 2.00 25

pH 8.48 pH Units 8.48 0.00 25

**Batch B5H2824 - Saturated Paste pH/EC**

**Blank (B5H2824-BLK1)**

Prepared: 08/28/2025 Analyzed: 08/30/2025

Specific Conductance (EC) ND 0.00500 mmhos/cm U

**Duplicate (B5H2824-DUP1)**

**Source: E5H0619-03**

Prepared: 08/28/2025 Analyzed: 08/30/2025

pH 8.19 pH Units 8.12 0.858 25

Specific Conductance (EC) 0.334 0.00500 mmhos/cm 0.357 6.68 25

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B5H2912 - EPA 5030 (soil)**

Prepared: 08/29/2025 Analyzed: 08/30/2025

**Blank (B5H2912-BLK1)**

1,2,4-Trimethylbenzene	ND	0.002	mg/kg wet							U
1,3,5-Trimethylbenzene	ND	0.002	"							U
Benzene	ND	0.002	"							U
Ethylbenzene	ND	0.002	"							U
Toluene	ND	0.002	"							U
Xylenes, total	ND	0.002	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U

Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125	90.1	70-130
Surrogate: Toluene-d8	0.12		"	0.125	95.2	70-130
Surrogate: 4-Bromofluorobenzene	0.11		"	0.125	91.4	70-130

**LCS (B5H2912-BS1)**

Prepared: 08/29/2025 Analyzed: 08/30/2025

1,2,4-Trimethylbenzene	0.091	0.002	mg/kg wet	0.100	90.6	70-130
1,3,5-Trimethylbenzene	0.093	0.002	"	0.100	92.6	70-130
Benzene	0.101	0.002	"	0.100	101	70-130
Ethylbenzene	0.089	0.002	"	0.100	88.7	70-130
Naphthalene	0.087	0.004	"	0.100	86.7	70-130
Toluene	0.094	0.002	"	0.100	93.5	70-130
o-Xylene	0.089	0.002	"	0.100	88.9	70-130
m,p-Xylene	0.182	0.004	"	0.200	91.2	70-130

Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125	89.7	70-130
Surrogate: Toluene-d8	0.12		"	0.125	97.5	70-130
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125	93.1	70-130

**Matrix Spike (B5H2912-MS1)**

Source: E5H0618-01

Prepared: 08/29/2025 Analyzed: 08/31/2025

1,2,4-Trimethylbenzene	0.083	0.002	mg/kg dry	0.110	ND	75.4	70-130
1,3,5-Trimethylbenzene	0.084	0.002	"	0.110	ND	76.5	70-130

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 Project: Noble - Furrow USX AB 15-99HZ

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B5H2912 - EPA 5030 (soil)

**Matrix Spike (B5H2912-MS1)**

Source: E5H0618-01

Prepared: 08/29/2025 Analyzed: 08/31/2025

Benzene	0.096	0.002	mg/kg dry	0.110	ND	87.4	70-130			
Ethylbenzene	0.080	0.002	"	0.110	ND	73.3	70-130			
Naphthalene	0.086	0.004	"	0.110	ND	78.9	70-130			
Toluene	0.086	0.002	"	0.110	ND	78.8	70-130			
o-Xylene	0.081	0.002	"	0.110	ND	74.1	70-130			
m,p-Xylene	0.166	0.004	"	0.219	ND	75.6	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.137		94.2	70-130			
Surrogate: Toluene-d8	0.13		"	0.137		94.2	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.137		92.8	70-130			

**Matrix Spike Dup (B5H2912-MSD1)**

Source: E5H0618-01

Prepared: 08/29/2025 Analyzed: 08/31/2025

1,2,4-Trimethylbenzene	0.081	0.002	mg/kg dry	0.110	ND	74.1	70-130	1.77	20	
1,3,5-Trimethylbenzene	0.082	0.002	"	0.110	ND	75.1	70-130	1.74	20	
Benzene	0.094	0.002	"	0.110	ND	86.2	70-130	1.31	20	
Ethylbenzene	0.078	0.002	"	0.110	ND	71.2	70-130	2.91	20	
Naphthalene	0.088	0.004	"	0.110	ND	80.7	70-130	2.16	20	
Toluene	0.085	0.002	"	0.110	ND	77.3	70-130	1.97	20	
o-Xylene	0.080	0.002	"	0.110	ND	73.0	70-130	1.60	20	
m,p-Xylene	0.162	0.004	"	0.219	ND	74.0	70-130	2.19	20	
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.137		94.9	70-130			
Surrogate: Toluene-d8	0.13		"	0.137		93.5	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.137		92.3	70-130			

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 Wellington CO 80549

Ethan Black  
 Project Number: 30076  
 Project: Noble - Furrow USX AB 15-99HZ

**Total Metals by 7199 - Quality Control  
 Enthalpy Orange**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch 381108 - EPA 3060A</b>										
<b>BLANK (QC1290740)</b>										
					Prepared: 09/04/2025 Analyzed: 09/08/2025					
Hexavalent Chromium	ND	0.30	mg/Kg				-			ND
<b>LCS (QC1290741)</b>										
					Prepared: 09/04/2025 Analyzed: 09/08/2025					
Hexavalent Chromium	40.68	0.6000	mg/Kg	40.00		102	80-120			
<b>Duplicate (QC1290742)</b>										
					Source: E5H0619-01 Prepared: 09/04/2025 Analyzed: 09/08/2025					
Hexavalent Chromium	ND	0.3028	mg/Kg dry		0		-		30	ND
<b>Matrix Spike (QC1290743)</b>										
					Source: E5H0619-01 Prepared: 09/04/2025 Analyzed: 09/08/2025					
Hexavalent Chromium	40.26	0.6152	mg/Kg dry	41.01	0	98	70-130			

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**Notes and Definitions**

- U Sample is Non-Detect.
- QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
- ND Not Detected
- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference

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