

September 13, 2021

Foundation Energy Inc.

Alyssa Beard

1313 W Denver Building #3

Ft. Lupton CO 80621

Project Name - Chalk

Project Number - [none]

Attached are your analytical results for Chalk received by Origins Laboratory, Inc. August 26, 2021. This project is associated with Origins project number Y108562-01.

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



Foundation Energy Inc.
1313 W Denver Building #3
Ft. Lupton CO 80621

Alyssa Beard
Project Number: [none]
Project: Chalk

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Wellhead	Y108562-01	Water	August 25, 2021 9:30	08/26/2021 16:30

Origins Laboratory, Inc.



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Foundation Energy Inc.
 1313 W Denver Building #3
 Ft. Lupton CO 80621

Alyssa Beard
 Project Number: [none]
 Project: Chalk

Origins Laboratory

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


Sample Receipt Checklist

Origins Work Order: Y108562 Client: Foundation
 Checklist Completed by: Sb Client Project ID: _____
 Date/time completed: 8/27/21 Shipped Via: HD
 (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, 4.1 °C _____ °C _____ °C (Describe) _____ °C
 Thermometer ID: T003

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"/>			
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Were all samples received intact ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>			<u>NOZ + NOZ</u>
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		<u>Headspace in all vials</u>
Are samples preserved that require preservation and was it checked ⁽¹⁾ ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)/pH <2 for samples preserved with HNO3, HCL, H2SO4 / (pH >10 for samples preserved with NaAsO2+NaOH, ZnAc+NaOH)		<input checked="" type="checkbox"/>		
Additional Comments (if any):				

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

Reviewed by: JM (Project Manager) Date/Time Reviewed: 8-30-21

Origins Laboratory, Inc.


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Foundation Energy Inc.
 1313 W Denver Building #3
 Ft. Lupton CO 80621

Alyssa Beard
 Project Number: [none]
 Project: Chalk

Wellhead
8/25/2021 9:30:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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GEL Laboratories, LLC
Y108562-01 (Water)

Alkalinity by SM 2320B

Alkalinity, Total as CaCO ₃	779	4.00	mg/L	1	2168125	RXB5	08/26/2021	09/01/2021	
Bicarbonate alkalinity (CaCO ₃)	779	4.00	"	"	"	RXB5	"	"	
Carbonate alkalinity (CaCO ₃)	ND	4.00	"	"	"	RXB5	"	"	U

Anions by IC 300.0

Chloride	5800	125	mg/L	501	B1H3005	JMA	08/30/2021	08/31/2021	
Fluoride	28.2	5.00	"	50	"	JMA	"	08/31/2021	
Bromide	65.0	5.00	"	"	"	JMA	"	"	
Sulfate	ND	31.2	"	125	"	JMA	"	08/31/2021	
Nitrate	ND	5.00	"	50	"	JMA	"	08/31/2021	
Nitrite	ND	5.00	"	"	"	JMA	"	"	

Dissolved Metals by 200.8

Barium	0.673	0.00400	mg/L	1	2168640	SKJ	08/30/2021	08/31/2021	
Boron	19.7	1.50	"	100	"	SKJ	"	09/01/2021	
Calcium	31.4	0.200	"	1	"	SKJ	"	08/31/2021	
Iron	41.4	0.100	"	"	"	SKJ	"	"	
Magnesium	2.03	0.0300	"	"	"	SKJ	"	"	
Manganese	0.328	0.00500	"	"	"	SKJ	"	"	
Potassium	29.5	0.300	"	"	"	SKJ	"	09/01/2021	
Selenium	0.00213	0.00500	"	"	"	SKJ	"	08/31/2021	J

Origins Laboratory, Inc.



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 Ft. Lupton CO 80621

Alyssa Beard
 Project Number: [none]
 Project: Chalk

Wellhead
8/25/2021 9:30:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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GEL Laboratories, LLC
Y108562-01 (Water)

Dissolved Metals by 200.8

Sodium	3920	25.0	mg/L	100	2168640	SKJ	08/30/2021	09/01/2021	
Strontium	4.79	1.00	"	"	"	SKJ	"	"	

DRO/ORO by EPA 8015D

Diesel (C10-C28)	6.49	5.00	mg/L	1	B1H3119	KDK	08/31/2021	09/01/2021	
Residual Range Organics (C28-C40)	ND	10.0	"	"	"	KDK	"	"	Ua

Surrogate: *o*-Terphenyl 75.5 % 50-150 " " "

GBTEX + Naphthalene by EPA 8260D

Gasoline Range Hydrocarbons	44500	5000	ug/L	50	B1H3118	KDK	08/31/2021	09/01/2021	
Benzene	7340	50.0	"	"	"	KDK	"	"	
Toluene	6380	50.0	"	"	"	KDK	"	"	
Ethylbenzene	380	50.0	"	"	"	KDK	"	"	
Xylenes, total	2660	50.0	"	"	"	KDK	"	"	
Naphthalene	144	28.0	"	4	"	KDK	"	09/01/2021	

Surrogate: 1,2-Dichloroethane-d4 88.1 % 70-130 " " 09/01/2021
 Surrogate: Toluene-d8 97.2 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 102 % 70-130 " " "

pH in Water by EPA 9040C

pH	7.35		pH Units	1	B1H3019	CJM	08/30/2021	08/30/2021	I-02
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 Project Number: [none]
 Project: Chalk

Wellhead
8/25/2021 9:30:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y108562-01 (Water)

Radium 226 by EPA 903.1

Radium-226	13.3	1.00	pCi/L	1	2168595	LXP1	08/26/2021	09/08/2021	
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Radium 228 by EPA 904.0

Radium-228	41.0	3.00	pCi/L	1	2168362	JXC9	"	09/09/2021	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	17900	5.00	uS/cm	1	B1H3020	CJM	08/30/2021	08/30/2021	
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Total Dissolved Solids by 2540C

Total Dissolved Solids	11000	5.00	mg/L	"	B1H2713	TSH	08/27/2021	08/29/2021	
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Total Phosphorus by EPA 365.4

Phosphorus, Total as P	0.0821	0.0500	mg/L	1	2168791	AXH3	09/01/2021	09/02/2021	
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Total Suspended Solids by 2540D

Total Suspended Solids	122	5.00	mg/L	1	B1H2714	SCL	08/27/2021	08/30/2021	
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Foundation Energy Inc.
 1313 W Denver Building #3
 Ft. Lupton CO 80621

Alyssa Beard
 Project Number: [none]
 Project: Chalk

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B1H3118 - EPA 5030B (Water)

Blank (B1H3118-BLK1)

Prepared: 08/31/2021 Analyzed: 09/01/2021

Gasoline Range Hydrocarbons	ND	100	ug/L							Ua
Benzene	ND	1.00	"							Ua
Toluene	ND	1.00	"							Ua
Ethylbenzene	ND	1.00	"							Ua
Xylenes, total	ND	1.00	"							Ua
Naphthalene	ND	7.00	"							Ua
Naphthalenes - Total	ND	7.00	"							Ua
<i>Surrogate: 1,2-Dichloroethane-d4</i>	57		"	62.5	90.7		70-130			
<i>Surrogate: Toluene-d8</i>	61		"	62.5	97.4		70-130			
<i>Surrogate: 4-Bromofluorobenzene</i>	62		"	62.5	98.8		70-130			

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Alyssa Beard
 Project Number: [none]
 Project: Chalk

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B1H3118 - EPA 5030B (Water)

LCS (B1H3118-BS1)

Prepared: 08/31/2021 Analyzed: 09/01/2021

Benzene	27.4	1.00	ug/L	25.0		110	70-130			
Toluene	29.2	1.00	"	25.0		117	70-130			
Ethylbenzene	28.5	1.00	"	25.0		114	70-130			
m,p-Xylene	58.8	2.00	"	50.0		118	70-130			
o-Xylene	29.5	1.00	"	25.0		118	70-130			
Naphthalene	27.2	7.00	"	25.0		109	70-130			
Surrogate: 1,2-Dichloroethane-d4	55		"	62.5		88.6	70-130			
Surrogate: Toluene-d8	60		"	62.5		96.7	70-130			
Surrogate: 4-Bromofluorobenzene	65		"	62.5		105	70-130			

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B1H3118 - EPA 5030B (Water)

Matrix Spike (B1H3118-MS1)	Source: Y108620-11			Prepared: 08/31/2021 Analyzed: 09/01/2021						
Benzene	23.1	1.00	ug/L	25.0	20.0	12.6	70-130			QM-07
Toluene	24.2	1.00	"	25.0	19.1	20.3	70-130			QM-07
Ethylbenzene	22.7	1.00	"	25.0	0.910	87.1	70-130			
m,p-Xylene	47.1	2.00	"	50.0	4.50	85.3	70-130			
o-Xylene	23.5	1.00	"	25.0	2.03	86.0	70-130			
Naphthalene	21.6	7.00	"	25.0	ND	86.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	56		"	62.5		89.5	70-130			
Surrogate: Toluene-d8	60		"	62.5		96.3	70-130			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		101	70-130			

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 Ft. Lupton CO 80621

Alyssa Beard
 Project Number: [none]
 Project: Chalk

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B1H3118 - EPA 5030B (Water)

Matrix Spike Dup (B1H3118-MSD1)	Source: Y108620-11			Prepared: 08/31/2021 Analyzed: 09/01/2021						
Benzene	24.0	1.00	ug/L	25.0	20.0	16.3	70-130	3.86	20	QM-07
Toluene	25.2	1.00	"	25.0	19.1	24.3	70-130	4.09	20	QM-07
Ethylbenzene	23.7	1.00	"	25.0	0.910	91.2	70-130	4.35	20	
m,p-Xylene	49.2	2.00	"	50.0	4.50	89.4	70-130	4.32	20	
o-Xylene	24.6	1.00	"	25.0	2.03	90.2	70-130	4.28	20	
Naphthalene	23.1	7.00	"	25.0	ND	92.4	70-130	6.85	20	
Surrogate: 1,2-Dichloroethane-d4	56		"	62.5		89.0	70-130			
Surrogate: Toluene-d8	60		"	62.5		96.4	70-130			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		101	70-130			

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Alyssa Beard
 Project Number: [none]
 Project: Chalk

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B1H3119 - EPA 3511 Mod.

Blank (B1H3119-BLK1)

Prepared: 08/31/2021 Analyzed: 09/01/2021

Diesel (C10-C28)	ND	5.00	mg/L							Ua
Residual Range Organics (C28-C40)	ND	10.0	"							Ua
Surrogate: o-Terphenyl	3.8		"	5.00		75.7	50-150			

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Foundation Energy Inc.
 1313 W Denver Building #3
 Ft. Lupton CO 80621

Alyssa Beard
 Project Number: [none]
 Project: Chalk

Extractable Petroleum Hydrocarbons by 8015D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B1H3119 - EPA 3511 Mod.

LCS (B1H3119-BS1)

Prepared: 08/31/2021 Analyzed: 09/01/2021

Diesel (C10-C28)	104	5.00	mg/L	100		104	70-130			
Residual Range Organics (C28-C40)	108	10.0	"	100		108	70-130			
Surrogate: o-Terphenyl	4.4		"	5.00		87.5	50-150			

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Alyssa Beard
 Project Number: [none]
 Project: Chalk

Extractable Petroleum Hydrocarbons by 8015D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B1H3119 - EPA 3511 Mod.

Matrix Spike (B1H3119-MS1)	Source: Y108559-01			Prepared: 08/31/2021 Analyzed: 09/01/2021						
Diesel (C10-C28)	90.4	5.00	mg/L	100	4.52	85.9	70-130			
Residual Range Organics (C28-C40)	93.1	10.0	"	100	ND	93.1	70-130			
Surrogate: o-Terphenyl	3.6		"	5.00		71.2	50-150			

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Alyssa Beard
 Project Number: [none]
 Project: Chalk

Extractable Petroleum Hydrocarbons by 8015D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B1H3119 - EPA 3511 Mod.

Matrix Spike Dup (B1H3119-MSD1)	Source: Y108559-01			Prepared: 08/31/2021 Analyzed: 09/01/2021						
Diesel (C10-C28)	99.7	5.00	mg/L	100	4.52	95.2	70-130	9.78	20	
Residual Range Organics (C28-C40)	107	10.0	"	100	ND	107	70-130	13.8	20	
Surrogate: o-Terphenyl	4.2		"	5.00		83.7	50-150			

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Extractable Petroleum Hydrocarbons by 8015D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Classical Chemistry Parameters - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B1H2713 - NO PREP

Blank (B1H2713-BLK1)

Prepared: 08/27/2021 Analyzed: 08/29/2021

Total Dissolved Solids ND 5.00 mg/L

LCS (B1H2713-BS1)

Prepared: 08/27/2021 Analyzed: 08/29/2021

Total Dissolved Solids 979 5.00 mg/L 1000 97.9 85-115

Duplicate (B1H2713-DUP1)

Source: Y108558-01

Prepared: 08/27/2021 Analyzed: 08/29/2021

Total Dissolved Solids 8400 5.00 mg/L 8260 1.70 20

Batch B1H2714 - NO PREP

Blank (B1H2714-BLK1)

Prepared: 08/27/2021 Analyzed: 08/30/2021

Total Suspended Solids ND 5.00 mg/L

LCS (B1H2714-BS1)

Prepared: 08/27/2021 Analyzed: 08/30/2021

Total Suspended Solids 107 5.00 mg/L 100 107 85-115

Duplicate (B1H2714-DUP1)

Source: Y108554-01

Prepared: 08/27/2021 Analyzed: 08/30/2021

Total Suspended Solids 3.00 5.00 mg/L 2.00 40.0 20

Batch B1H3005 - Filter .45um non acidified

Blank (B1H3005-BLK1)

Prepared: 08/30/2021 Analyzed: 08/31/2021

Chloride ND 0.250 mg/L

Fluoride ND 0.100 "

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Alyssa Beard
 Project Number: [none]
 Project: Chalk

Classical Chemistry Parameters - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B1H3005 - Filter .45um non acidified										
Blank (B1H3005-BLK1)					Prepared: 08/30/2021 Analyzed: 08/31/2021					
Bromide	ND	0.100	"							
Sulfate	ND	0.250	"							
Nitrate	ND	0.100	"							
Nitrite	ND	0.100	"							
Phosphate	ND	0.100	"							
LCS (B1H3005-BS1)					Prepared: 08/30/2021 Analyzed: 08/31/2021					
Chloride	3.84	0.250	mg/L	4.00		95.9	90-110			
Fluoride	3.82	0.100	"	4.00		95.5	90-110			
Bromide	3.85	0.100	"	4.00		96.3	90-110			
Sulfate	3.68	0.250	"	4.00		92.1	90-110			
Nitrate	3.93	0.100	"	4.00		98.2	90-110			
Nitrite	ND	0.100	"	4.00			90-110			
Phosphate	ND	0.100	"	4.00			90-110			
Matrix Spike (B1H3005-MS1)		Source: Y108559-01			Prepared: 08/30/2021 Analyzed: 08/31/2021					
Chloride	6860		mg/L	500	5880	196	80-120			
Fluoride	514		"	500	35.3	95.7	80-120			
Bromide	550		"	500	68.7	96.2	80-120			
Sulfate	467		"	500	16.6	90.1	80-120			
Nitrate	491		"	500	0.385	98.2	80-120			
Nitrite	0.00		"	500	0.00		80-120			
Phosphate	0.00		"	500	0.00		80-120			
Matrix Spike Dup (B1H3005-MSD1)		Source: Y108559-01			Prepared: 08/30/2021 Analyzed: 08/31/2021					
Chloride	6850		mg/L	500	5880	193	80-120	0.149	20	
Fluoride	513		"	500	35.3	95.5	80-120	0.251	20	

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Foundation Energy Inc.
 1313 W Denver Building #3
 Ft. Lupton CO 80621

Alyssa Beard
 Project Number: [none]
 Project: Chalk

Classical Chemistry Parameters - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B1H3005 - Filter .45um non acidified

Matrix Spike Dup (B1H3005-MSD1)

Source: Y108559-01

Prepared: 08/30/2021 Analyzed: 08/31/2021

Bromide	549		mg/L	500	68.7	96.1	80-120	0.0478	20	
Sulfate	468		"	500	16.6	90.2	80-120	0.0615	20	
Nitrate	486		"	500	0.385	97.2	80-120	0.995	20	
Nitrite	0.00		"	500	0.00		80-120		20	
Phosphate	0.00		"	500	0.00		80-120		20	

Batch B1H3019 - NO PREP

Duplicate (B1H3019-DUP1)

Source: Y108561-01

Prepared: 08/30/2021 Analyzed: 08/30/2021

pH	7.81		pH Units		7.78			0.385	200	
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Batch B1H3020 - NO PREP

Blank (B1H3020-BLK1)

Prepared: 08/30/2021 Analyzed: 08/30/2021

Specific Conductance (EC)	1.50	5.00	uS/cm							
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Duplicate (B1H3020-DUP1)

Source: Y108561-01

Prepared: 08/30/2021 Analyzed: 08/30/2021

Specific Conductance (EC)	11300	5.00	uS/cm		11500			1.25	10	
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Foundation Energy Inc.
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Alyssa Beard
 Project Number: [none]
 Project: Chalk

Alkalinity by SM 2320B - Quality Control
GEL Laboratories, LLC

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2168125 -										
LCS (1204898556-BKS)					Prepared: Analyzed: 09/01/2021					
Alkalinity, Total as CaCO3	109	4.00	mg/L	100		109	90-110			
DUP (1204898557 D)		Source: 553928005			Prepared: Analyzed: 09/01/2021					
Bicarbonate alkalinity (CaCO3)	180	4.00	mg/L		179		0-20	0.557	20	
Alkalinity, Total as CaCO3	180	4.00	"		179		0-20	0.557	20	
Carbonate alkalinity (CaCO3)	ND	4.00	"		<1.45		0-20	0	20	U
MS (1204898558 S)		Source: 553928005			Prepared: Analyzed: 09/01/2021					
Alkalinity, Total as CaCO3	282	4.00	mg/L	100	179	103	80-120			

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Foundation Energy Inc.
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Alyssa Beard
 Project Number: [none]
 Project: Chalk

Dissolved Metals by 200.8 - Quality Control
GEL Laboratories, LLC

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2168640 - EPA 200.2

BLANK (1204899710-BLK)

Prepared: 08/30/2021 Analyzed: 09/01/2021

Sodium	ND	0.250	mg/L				-			U
Manganese	ND	0.00500	"				-			U
Magnesium	ND	0.0300	"				-			U
Iron	ND	0.100	"				-			U
Calcium	ND	0.200	"				-			U
Boron	ND	0.0150	"				-			U
Selenium	ND	0.00500	"				-			U
Strontium	ND	0.0100	"				-			U
Potassium	ND	0.300	"				-			U
Barium	ND	0.00400	"				-			U

LCS (1204899711-BKS)

Prepared: 08/30/2021 Analyzed: 08/31/2021

Manganese	0.0504	0.00500	mg/L	0.0500		101	85-115			
Potassium	2.01	0.300	"	2.00		101	85-115			
Sodium	2.04	0.250	"	2.00		102	85-115			
Selenium	0.0501	0.00500	"	0.0500		100	85-115			
Magnesium	2.28	0.0300	"	2.00		114	85-115			
Iron	2.05	0.100	"	2.00		103	85-115			
Calcium	2.17	0.200	"	2.00		109	85-115			
Boron	0.102	0.0150	"	0.100		102	85-115			
Barium	0.0507	0.00400	"	0.0500		101	85-115			
Strontium	0.0502	0.0100	"	0.0500		100	85-115			

DUP (1204899712 D)

Source: 554014001

Prepared: 08/30/2021 Analyzed: 09/01/2021

Sodium	145	1.25	mg/L		146		0-20	0.409	20	
Strontium	1.04	0.0500	"		1.03		0-20	1.16	20	
Barium	0.113	0.00400	"		0.116		0-20	2.67	20	

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Foundation Energy Inc.
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Alyssa Beard
 Project Number: [none]
 Project: Chalk

Dissolved Metals by 200.8 - Quality Control
GEL Laboratories, LLC

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2168640 - EPA 200.2

DUP (1204899712 D)		Source: 554014001			Prepared: 08/30/2021 Analyzed: 09/01/2021					
Boron	0.455	0.0750	mg/L		0.440		0-20	3.36	20	
Calcium	126	1.00	"		126		0-20	0.0888	20	
Iron	ND	0.100	"		<0.0330		0-20	11.2	20	U
Magnesium	27.7	0.0300	"		27.8		0-20	0.527	20	
Manganese	0.00107	0.00500	"		0.00102		0-20	4.87	20	J
Selenium	0.00547	0.00500	"		0.00555		0-20	1.31	20	
Potassium	8.97	0.300	"		9.36		0-20	4.3	20	
MS (1204899713 S)		Source: 554014001			Prepared: 08/30/2021 Analyzed: 08/31/2021					
Barium	0.162	0.00400	mg/L	0.0500	0.116	91.7	75-125			
Sodium	147	1.25	"	2.00	146	0	75-125			
Strontium	1.05	0.0500	"	0.0500	1.03	0	75-125			
Selenium	0.0552	0.00500	"	0.0500	0.00555	99.2	75-125			
Boron	0.561	0.0750	"	0.100	0.440	0	75-125			
Calcium	126	1.00	"	2.00	126	0	75-125			
Iron	1.96	0.100	"	2.00	<0.0330	96.8	75-125			
Magnesium	29.5	0.0300	"	2.00	27.8	0	75-125			
Manganese	0.0495	0.00500	"	0.0500	0.00102	96.9	75-125			
Potassium	10.8	0.300	"	2.00	9.36	0	75-125			

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Alyssa Beard
 Project Number: [none]
 Project: Chalk

Radium 226 by EPA 903.1 - Quality Control
GEL Laboratories, LLC

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2168595 -										
BLANK (1204899652-BLK)					Prepared: Analyzed: 09/08/2021					
Radium-226	0.151	1.00	pCi/L				-			U
DUP (1204899653 D)					Source: 554113001 Prepared: Analyzed: 09/08/2021					
Radium-226	5.93	1.00	pCi/L		6.17		0-20	3.87	20	
MS (1204899654 S)					Source: 554113001 Prepared: Analyzed: 09/08/2021					
Radium-226	136	1.00	pCi/L	134	6.17	96.7	75-125			
LCS (1204899655-BKS)					Prepared: Analyzed: 09/08/2021					
Radium-226	25.5	1.00	pCi/L	26.8		94.8	75-125			

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Alyssa Beard
 Project Number: [none]
 Project: Chalk

Radium 228 by EPA 904.0 - Quality Control
GEL Laboratories, LLC

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2168362 -										
BLANK (1204899300-BLK)					Prepared: Analyzed: 09/07/2021					
Radium-228	0.119	3.00	pCi/L				-			U
DUP (1204899301 D)		Source: 554113001			Prepared: Analyzed: 09/09/2021					
Radium-228	16.9	3.00	pCi/L		17.5		0-20	3.79	20	
LCS (1204899302-BKS)					Prepared: Analyzed: 09/07/2021					
Radium-228	48.8	3.00	pCi/L	50.3		97	75-125			

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Alyssa Beard
 Project Number: [none]
 Project: Chalk

Total Phosphorus by EPA 365.4 - Quality Control
GEL Laboratories, LLC

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2168791 - EPA 365.4 Prep										
BLANK (1204899986-BLK)					Prepared: 09/01/2021 Analyzed: 09/02/2021					
Phosphorus, Total as P	0.0414	0.0500	mg/L				-			J
LCS (1204899987-BKS)					Prepared: 09/01/2021 Analyzed: 09/02/2021					
Phosphorus, Total as P	1.05	0.0500	mg/L	1.00		105	80-123			
DUP (1204899988 D)					Prepared: 09/01/2021 Analyzed: 09/02/2021					
Phosphorus, Total as P	0.179	0.0500	mg/L		0.151		0-36	17	36	
MS (1204899989 S)					Prepared: 09/01/2021 Analyzed: 09/02/2021					
Phosphorus, Total as P	1.27	0.0500	mg/L	1.00	0.151	112	66-140			

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Foundation Energy Inc.
1313 W Denver Building #3
Ft. Lupton CO 80621

Alyssa Beard
Project Number: [none]
Project: Chalk

Notes and Definitions

Ua Sample is Non-Detect.

U Result not detected above the detection limit

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

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

I-02 This result was analyzed outside of the EPA recommended holding time.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported at a wet weight basis.

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