

June 03, 2022

Foundation Energy Inc.

Alyssa Beard

1313 W Denver Building #3

Ft. Lupton CO 80621

Project Name - Fed Osprey

Project Number - [none]

Attached are your analytical results for Fed Osprey received by Origins Laboratory, Inc. May 18, 2022. This project is associated with Origins project number Y205486-01.

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: Fed Osprey

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Osprey	Y205486-01	Water	May 18, 2022 12:00	05/18/2022 17:05

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: Fed Osprey

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

Sample Receipt Checklist

Origins Work Order: Y205486 Client: Foundation Energy
 Client Project ID: Fed Osprey

Checklist Completed by: JG Shipped Via: HD
 Date/time completed: 5/19/12 (UPS, FedEx, Hand Delivered, Pick-up, etc.)
 Airbill #: N/A

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


Cooler Number/Temperature: 1 / 59 °C _____ °C _____ °C _____ °C

Thermometer ID: _____

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"/>			<u>NO2/NO3</u>
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.		<input checked="" type="checkbox"/>		
Are samples preserved that require preservation and was it checked ⁽¹⁾ ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)/(pH < 2 for samples preserved with HNO3, HCL, H2SO4) / (pH > 10 for samples preserved with NaAsO2+NaOH, ZnAc+NaOH)	<input checked="" type="checkbox"/>			<u>HCL / Not checked HNO3</u>
Additional Comments (if any):				

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

[Signature] Reviewed by (Project Manager) 5/19/12 Date/Time Reviewed

Origins Laboratory, Inc.


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Foundation Energy Inc.
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 Ft. Lupton CO 80621

Alyssa Beard
 Project Number: [none]
 Project: Fed Osprey

Osprey

5/18/2022 12:00:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Y205486-01 (Water)
Origins Laboratory, Inc.

DRO/ORO by EPA 8015D

Diesel (C10-C28)	6.22	5.00	mg/L	1	B2E1904	ZZZ	05/19/2022	05/24/2022	
Residual Range Organics (C28-C40)	ND	10.0	"	"	"	ZZZ	"	"	Ua

Surrogate: *o*-Terphenyl 108 % 50-150 " "

GBTEX + Naphthalene by EPA 8260D

Benzene	21400	2000	ug/L	1000	B2E1922	ZZZ	05/19/2022	05/22/2022	
Ethylbenzene	983	200	"	100	"	ZZZ	"	05/20/2022	
Toluene	18700	200	"	"	"	ZZZ	"	"	
Naphthalene	ND	100	"	10	"	ZZZ	"	05/24/2022	R-05, Ua
Gasoline Range Hydrocarbons	54600	20000	"	100	"	ZZZ	"	05/20/2022	
Xylenes, total	6270	2.00	"	1	"	ZZZ	"	"	

Surrogate: 1,2-Dichloroethane-d4 95.5 % 70-130 " "
 Surrogate: Toluene-d8 94.9 % 70-130 " "
 Surrogate: 4-Bromofluorobenzene 98.8 % 70-130 " "

pH in Water by EPA 9040C

pH	6.69		pH Units	1	B2E1908	ACC	05/19/2022	05/19/2022	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	17800	5.00	uS/cm	"	"	ACC	"	"	
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 Ft. Lupton CO 80621

Alyssa Beard
 Project Number: [none]
 Project: Fed Osprey

Osprey

5/18/2022 12:00:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Y205486-01 (Water)
 Origins Laboratory, Inc.**

Total Dissolved Solids by 2540C

Total Dissolved Solids	10600	5.00	mg/L	"	B2E2013	SCL	05/20/2022	05/23/2022	
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Total Metals by EPA 200.8

Barium	813	10.0	ug/L	10	B2E2417	CW	05/24/2022	05/26/2022	
Boron	17100	200	"	200	"	CW	"	05/25/2022	
Calcium	24600	1000	"	10	"	CW	"	05/26/2022	
Iron	68100	100	"	"	"	CW	"	"	
Magnesium	2000	100	"	"	"	CW	"	"	
Manganese	772	10.0	"	"	"	CW	"	"	
Potassium	10100	1000	"	"	"	CW	"	"	
Selenium	ND	1.00	"	"	"	CW	"	"	Ua
Sodium	4320000	20000	"	200	"	CW	"	05/25/2022	
Strontium	6440	100	"	10	"	CW	"	05/26/2022	

Total Suspended Solids by 2540D

Total Suspended Solids	105	5.00	mg/L	1	B2E2315	SCL	05/23/2022	05/23/2022	
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GEL Laboratories, LLC

Radium 226 by EPA 903.1

Radium-226	17.9	1.00	pCi/L	1	2268984	LXP1	05/18/2022	06/01/2022	
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Origins Laboratory, Inc.



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 Ft. Lupton CO 80621

Alyssa Beard
 Project Number: [none]
 Project: Fed Osprey

Osprey

5/18/2022 12:00:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Y205486-01 (Water)
 GEL Laboratories, LLC**

Radium 228 by EPA 904.0

Radium-228	31.2	3.00	pCi/L	1	2268992	JXC9	05/18/2022	06/03/2022	
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Total Alkalinity by SM 2320B

Alkalinity, Total as CaCO3	401	4.00	mg/L	1	2268856	HH2	"	05/24/2022	
Bicarbonate alkalinity (CaCO3)	401	4.00	"	"	"	HH2	"	"	
Carbonate alkalinity (CaCO3)	ND	4.00	"	"	"	HH2	"	"	U

Total Phosphorus by EPA 365.4

Phosphorus, Total as P	0.444	0.0500	mg/L	1	2270334	KLP1	05/26/2022	05/27/2022	
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Accutest Laboratories

Anions by 300.0

Bromide	73.9	2.5	mg/L	50	11111		05/18/2022	05/20/2022	
Chloride	6060	310	"	625	"		"	"	
Fluoride	ND	5.0	"	50	"		"	"	a
Nitrogen, Nitrate	ND	0.50	"	"	"		"	"	a
Nitrogen, Nitrite	ND	2.5	"	625	"		"	"	a
Sulfate	66.6	25	"	50	"		"	"	

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Alyssa Beard
 Project Number: [none]
 Project: Fed Osprey

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
Batch B2E1904 - EPA 3511 Mod.										
Blank (B2E1904-BLK1)										
					Prepared: 05/19/2022 Analyzed: 05/20/2022					
Diesel (C10-C28)	ND	5.00	mg/L							Ua
Residual Range Organics (C28-C40)	ND	10.0	"							Ua
Surrogate: o-Terphenyl	5.2		"	4.98		105	50-150			

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Alyssa Beard
 Project Number: [none]
 Project: Fed Osprey

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 B2E1904 - EPA 3511 Mod.

LCS (B2E1904-BS1)

Prepared: 05/19/2022 Analyzed: 05/20/2022

Diesel (C10-C28)	105	5.00	mg/L	100		105	70-130			
Residual Range Organics (C28-C40)	104	10.0	"	100		104	70-130			
Surrogate: o-Terphenyl	5.3		"	4.98		107	50-150			

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Alyssa Beard
 Project Number: [none]
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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
Batch B2E1904 - EPA 3511 Mod.										
LCS Dup (B2E1904-BSD1)					Prepared: 05/19/2022 Analyzed: 05/20/2022					
Diesel (C10-C28)	104	5.00	mg/L	100		104	70-130	1.70	20	
Residual Range Organics (C28-C40)	101	10.0	"	100		101	70-130	3.43	20	
Surrogate: o-Terphenyl	5.0		"	4.98		101	50-150			

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Alyssa Beard
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 Project: Fed Osprey

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 B2E1922 - EPA 5030B (Water)

Blank (B2E1922-BLK1)

Prepared: 05/19/2022 Analyzed: 05/20/2022

Benzene	ND	2.00	ug/L							Ua
Ethylbenzene	ND	2.00	"							Ua
Toluene	ND	2.00	"							Ua
Naphthalene	ND	10.0	"							Ua
1,2-Dichloroethane	ND	1.00	"							Ua
Methyl tert-Butyl Ether	ND	1.00	"							Ua
Gasoline Range Hydrocarbons	ND	200	"							Ua
Xylenes, total	ND	2.00	"							Ua
Surrogate: 1,2-Dichloroethane-d4	60		"	62.5		96.5	70-130			
Surrogate: Toluene-d8	59		"	62.5		94.8	70-130			
Surrogate: 4-Bromofluorobenzene	61		"	62.5		97.6	70-130			

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Alyssa Beard
 Project Number: [none]
 Project: Fed Osprey

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 B2E1922 - EPA 5030B (Water)

LCS (B2E1922-BS1)

Prepared: 05/19/2022 Analyzed: 05/20/2022

Benzene	47.1	2.00	ug/L	50.0		94.2	70-130			
Ethylbenzene	41.9	2.00	"	50.0		83.8	70-130			
m,p-Xylene	87.3	4.00	"	100		87.3	70-130			
o-Xylene	42.3	2.00	"	50.0		84.7	70-130			
Toluene	43.2	2.00	"	50.0		86.5	70-130			
Naphthalene	50.6	10.0	"	50.0		101	70-130			
1,2-Dibromoethane (EDB)	49.6	1.00	"	50.0		99.1	70-130			
1,2-Dichloroethane	46.8	1.00	"	50.0		93.7	70-130			
Methyl tert-Butyl Ether	51.2	1.00	"	50.0		102	70-130			
Surrogate: 1,2-Dichloroethane-d4	59		"	62.5		94.1	70-130			
Surrogate: Toluene-d8	59		"	62.5		95.0	70-130			
Surrogate: 4-Bromofluorobenzene	61		"	62.5		97.9	70-130			

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Alyssa Beard
 Project Number: [none]
 Project: Fed Osprey

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 B2E1922 - EPA 5030B (Water)

Matrix Spike (B2E1922-MS1)	Source: Y205478-01			Prepared: 05/19/2022 Analyzed: 05/20/2022						
Benzene	52.0	2.00	ug/L	50.0	ND	104	70-130			
Ethylbenzene	49.1	2.00	"	50.0	ND	98.2	70-130			
m,p-Xylene	102	4.00	"	100	ND	102	70-130			
o-Xylene	48.1	2.00	"	50.0	ND	96.2	70-130			
Toluene	48.8	2.00	"	50.0	ND	97.7	70-130			
Naphthalene	48.4	10.0	"	50.0	1.74	93.3	70-130			
1,2-Dibromoethane (EDB)	49.5	1.00	"	50.0	ND	99.0	70-130			
1,2-Dichloroethane	47.5	1.00	"	50.0	ND	95.0	70-130			
Methyl tert-Butyl Ether	48.3	1.00	"	50.0	ND	96.6	70-130			
Surrogate: 1,2-Dichloroethane-d4	57		"	62.5		91.4	70-130			
Surrogate: Toluene-d8	60		"	62.5		96.0	70-130			
Surrogate: 4-Bromofluorobenzene	61		"	62.5		98.1	70-130			

Origins Laboratory, Inc.



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Alyssa Beard
 Project Number: [none]
 Project: Fed Osprey

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 B2E1922 - EPA 5030B (Water)

Matrix Spike Dup (B2E1922-MSD1)	Source: Y205478-01			Prepared: 05/19/2022 Analyzed: 05/20/2022						
Benzene	54.5	2.00	ug/L	50.0	ND	109	70-130	4.58	20	
Ethylbenzene	49.0	2.00	"	50.0	ND	98.0	70-130	0.204	20	
m,p-Xylene	102	4.00	"	100	ND	102	70-130	0.362	20	
o-Xylene	48.7	2.00	"	50.0	ND	97.4	70-130	1.26	20	
Toluene	50.4	2.00	"	50.0	ND	101	70-130	3.20	20	
Naphthalene	57.0	10.0	"	50.0	1.74	111	70-130	16.4	20	
1,2-Dibromoethane (EDB)	55.7	1.00	"	50.0	ND	111	70-130	11.8	20	
1,2-Dichloroethane	52.5	1.00	"	50.0	ND	105	70-130	10.1	20	
Methyl tert-Butyl Ether	56.9	1.00	"	50.0	ND	114	70-130	16.3	20	
Surrogate: 1,2-Dichloroethane-d4	62		"	62.5		99.2	70-130			
Surrogate: Toluene-d8	60		"	62.5		95.9	70-130			
Surrogate: 4-Bromofluorobenzene	61		"	62.5		98.1	70-130			

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Alyssa Beard
 Project Number: [none]
 Project: Fed Osprey

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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***** DEFAULT GENERAL METHOD *** - 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 B2E2417 - Default Prep Metals

Blank (B2E2417-BLK1)

Prepared: 05/24/2022 Analyzed: 05/26/2022

Barium	ND	1.00	ug/L							Ua
Boron	ND	1.00	"							Ua
Calcium	ND	100	"							Ua
Iron	ND	10.0	"							Ua
Magnesium	ND	10.0	"							Ua
Manganese	ND	1.00	"							Ua
Potassium	ND	100	"							Ua
Selenium	ND	0.100	"							Ua
Sodium	ND	100	"							Ua
Strontium	ND	10.0	"							Ua

LCS (B2E2417-BS1)

Prepared: 05/24/2022 Analyzed: 05/26/2022

Barium	10200	1.00	ug/L	10000		102	85-115
Boron	10.0	1.00	"	10.0		100	85-115
Calcium	10200	100	"	10000		102	85-115
Iron	10100	10.0	"	10000		101	85-115
Magnesium	9430	10.0	"	10000		94.3	85-115
Manganese	101	1.00	"	100		101	85-115
Potassium	9460	100	"	10000		94.6	85-115
Selenium	100	0.100	"	100		100	85-115
Sodium	9550	100	"	10000		95.5	85-115
Strontium	997	10.0	"	1000		99.7	85-115

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Alyssa Beard
 Project Number: [none]
 Project: Fed Osprey

***** DEFAULT GENERAL METHOD *** - 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 B2E2417 - Default Prep Metals

LCS (B2E2417-BS1)

Prepared: 05/24/2022 Analyzed: 05/26/2022

Matrix Spike (B2E2417-MS1)

Source: Y205485-01

Prepared: 05/24/2022 Analyzed: 05/26/2022

Barium	104000	1.00	ug/L	100000	74.4	104	70-130			
Boron	550	1.00	"	100	508	42.0	70-130			QM-07
Calcium	107000	100	"	100000	3400	104	70-130			
Iron	164000	10.0	"	100000	58800	105	70-130			
Magnesium	97000	10.0	"	100000	204	96.8	70-130			
Manganese	1740	1.00	"	1000	695	105	70-130			
Potassium	96500	100	"	100000	328	96.2	70-130			
Selenium	1010	0.100	"	1000	0.770	101	70-130			
Sodium	113000	100	"	100000	17100	96.1	70-130			
Strontium	10300	10.0	"	10000	93.8	102	70-130			

Matrix Spike Dup (B2E2417-MSD1)

Source: Y205485-01

Prepared: 05/24/2022 Analyzed: 05/26/2022

Barium	105000	1.00	ug/L	100000	74.4	105	70-130	1.21	25	
Boron	545	1.00	"	100	508	36.4	70-130	1.02	25	QM-07
Calcium	106000	100	"	100000	3400	102	70-130	1.07	25	
Iron	161000	10.0	"	100000	58800	103	70-130	1.70	25	
Magnesium	95700	10.0	"	100000	204	95.5	70-130	1.37	25	
Manganese	1720	1.00	"	1000	695	102	70-130	1.45	25	
Potassium	95100	100	"	100000	328	94.8	70-130	1.44	25	
Selenium	1030	0.100	"	1000	0.770	103	70-130	1.63	25	
Sodium	112000	100	"	100000	17100	95.0	70-130	1.05	25	
Strontium	10100	10.0	"	10000	93.8	99.8	70-130	2.02	25	

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

Alyssa Beard
 Project Number: [none]
 Project: Fed Osprey

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 B2E1908 - NO PREP										
Blank (B2E1908-BLK1)					Prepared: 05/19/2022 Analyzed: 05/19/2022					
Specific Conductance (EC)	1.10	5.00	uS/cm							
pH	0.00		pH Units							
Duplicate (B2E1908-DUP1)					Source: Y205485-01		Prepared: 05/19/2022 Analyzed: 05/19/2022			
Specific Conductance (EC)	304	5.00	uS/cm		314			3.30	10	
pH	6.10		pH Units		6.12			0.327	2.51	
Batch B2E2013 - NO PREP										
Blank (B2E2013-BLK1)					Prepared: 05/20/2022 Analyzed: 05/23/2022					
Total Dissolved Solids	ND	5.00	mg/L							
LCS (B2E2013-BS1)					Prepared: 05/20/2022 Analyzed: 05/23/2022					
Total Dissolved Solids	977	5.00	mg/L	997		98.0	90-110			
Duplicate (B2E2013-DUP1)					Source: Y205465-01		Prepared: 05/20/2022 Analyzed: 05/23/2022			
Total Dissolved Solids	229	5.00	mg/L		234			2.16	10	
Batch B2E2315 - NO PREP										
Blank (B2E2315-BLK1)					Prepared: 05/23/2022 Analyzed: 05/23/2022					
Total Suspended Solids	ND	5.00	mg/L							
LCS (B2E2315-BS1)					Prepared: 05/23/2022 Analyzed: 05/23/2022					
Total Suspended Solids	96.0	5.00	mg/L	100		96.0	75-110			

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Alyssa Beard
 Project Number: [none]
 Project: Fed Osprey

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 B2E2315 - NO PREP

Duplicate (B2E2315-DUP1)

Source: Y205485-01

Prepared: 05/23/2022 Analyzed: 05/23/2022

Total Suspended Solids	52.0	5.00	mg/L		53.0			1.90	20	
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Alyssa Beard
 Project Number: [none]
 Project: Fed Osprey

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 2268984 -										
BLANK (1205097843-BLK)					Prepared: Analyzed: 06/01/2022					
Radium-226	0.215	1.00	pCi/L				-			U
DUP (1205097844 D)		Source: 580487001			Prepared: Analyzed: 06/01/2022					
Radium-226	0.834	1.00	pCi/L		1.05		0-20	23.2	20	
MS (1205097845 S)		Source: 580487001			Prepared: Analyzed: 06/01/2022					
Radium-226	104	1.00	pCi/L	128	1.05	80.7	75-125			
LCS (1205097846-BKS)		Prepared: Analyzed: 06/01/2022								
Radium-226	21.4	1.00	pCi/L	26.5		80.6	75-125			

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Alyssa Beard
 Project Number: [none]
 Project: Fed Osprey

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 2268992 -										
BLANK (1205097861-BLK)					Prepared: Analyzed: 06/01/2022					
Radium-228	0.725	3.00	pCi/L				-			U
DUP (1205097862 D)		Source: 580659001			Prepared: Analyzed: 06/01/2022					
Radium-228	0.971	3.00	pCi/L		2.07		0-20	72.3	20	U
LCS (1205097863-BKS)					Prepared: Analyzed: 06/01/2022					
Radium-228	39.7	3.00	pCi/L	45.6		87.2	75-125			

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Alyssa Beard
 Project Number: [none]
 Project: Fed Osprey

**Total 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 2268856 -										
LCS (1205097561-BKS)					Prepared: Analyzed: 05/24/2022					
Alkalinity, Total as CaCO3	107	4.00	mg/L	100		107	90-110			
DUP (1205097562 D)		Source: 580555002			Prepared: Analyzed: 05/24/2022					
Bicarbonate alkalinity (CaCO3)	794	4.00	mg/L		799		0-20	0.628	20	
Carbonate alkalinity (CaCO3)	20.0	4.00	"		18.0		0-20	10.5	20	
Alkalinity, Total as CaCO3	814	4.00	"		817		0-20	0.368	20	
MS (1205097563 S)		Source: 580555002			Prepared: Analyzed: 05/24/2022					
Alkalinity, Total as CaCO3	925	4.00	mg/L	100	817	0	80-120			

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Alyssa Beard
 Project Number: [none]
 Project: Fed Osprey

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 2270334 - EPA 365.4 Prep										
BLANK (1205100597-BLK)					Prepared: 05/26/2022 Analyzed: 05/27/2022					
Phosphorus, Total as P	ND	0.0500	mg/L				-			U
LCS (1205100598-BKS)					Prepared: 05/26/2022 Analyzed: 05/27/2022					
Phosphorus, Total as P	0.916	0.0500	mg/L	1.00		91.6	80-123			
DUP (1205100599 D)					Source: 579369002 Prepared: 05/26/2022 Analyzed: 05/27/2022					
Phosphorus, Total as P	0.111	0.0500	mg/L		0.0899		0-36	21	36	
MS (1205100600 S)					Source: 579369002 Prepared: 05/26/2022 Analyzed: 05/27/2022					
Phosphorus, Total as P	1.36	0.0500	mg/L	1.00	0.0899	127	66-140			
MSD (1205100605 SD)					Source: 579369002 Prepared: 05/26/2022 Analyzed: 05/27/2022					
Phosphorus, Total as P	1.33	0.0500	mg/L	1.00	0.0899	124	66-140	2.23	20	

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Alyssa Beard
Project Number: [none]
Project: Fed Osprey

Notes and Definitions

- Ua Sample is Non-Detect.
- U Result not detected above the detection limit
- R-05 The sample was diluted due to the presence of high levels of non-target analytes resulting in elevated reporting limits.
- QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
- a Elevated detection limit due to matrix interference.
- 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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