



August 16, 2023

Absaroka

Joel Mason

112 High St.

Buffalo WY 82834

Project Name - FEO - Damfino Delineation

Project Number - FEO.CO.0701.33

Attached are your analytical results for FEO - Damfino Delineation received by Origins Laboratory, Inc. August 02, 2023. This project is associated with Origins project number Y308042-01.

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



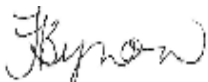
Absaroka
112 High St.
Buffalo WY 82834

Joel Mason
Project Number: FEO.CO.0701.33
Project: FEO - Damfino Delineation

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SD1 @ 15"	Y308042-01	Soil	July 31, 2023 11:25	08/02/2023 10:55
SD2 @ 15"	Y308042-02	Soil	July 31, 2023 11:33	08/02/2023 10:55
SD3 @ 30"	Y308042-03	Soil	July 31, 2023 11:33	08/02/2023 10:55
SD4 @ 18"	Y308042-04	Soil	July 31, 2023 12:10	08/02/2023 10:55
SD5 @ 12"	Y308042-05	Soil	July 31, 2023 12:15	08/02/2023 10:55
SD6 @ 15"	Y308042-06	Soil	July 31, 2023 13:00	08/02/2023 10:55
SD7 @ 30"	Y308042-07	Soil	July 31, 2023 13:10	08/02/2023 10:55
SD8 @ 24"	Y308042-08	Soil	July 31, 2023 13:20	08/02/2023 10:55
SD9 @ 24"	Y308042-09	Soil	July 31, 2023 13:25	08/02/2023 10:55
SD10 @ 12"	Y308042-10	Soil	July 31, 2023 13:35	08/02/2023 10:55
SD11 @ 8"	Y308042-11	Soil	July 31, 2023 13:45	08/02/2023 10:55
SD12 @ 12"	Y308042-12	Soil	July 31, 2023 12:30	08/02/2023 10:55
SD13 @ 24"	Y308042-13	Soil	July 31, 2023 12:30	08/02/2023 10:55
SDSP1 @ 6"	Y308042-14	Soil	July 31, 2023 10:15	08/02/2023 10:55

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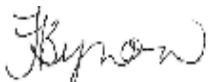
Joel Mason
 Project Number: FEO.CO.0701.33
 Project: FEO - Damfino Delineation

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SDSP2 @ 6"	Y308042-15	Soil	July 31, 2023 10:20	08/02/2023 10:55
SD_WH2_N @ 48"	Y308042-16	Soil	August 1, 2023 11:00	08/02/2023 10:55
SD_WH3_SE @ 48"	Y308042-17	Soil	August 1, 2023 11:10	08/02/2023 10:55
SD_WH1_E @ 24"	Y308042-18	Soil	August 1, 2023 11:10	08/02/2023 10:55
SD_WH5_SW @ 48"	Y308042-19	Soil	August 1, 2023 11:15	08/02/2023 10:55
SD_WH4_S @ 48"	Y308042-20	Soil	August 1, 2023 11:20	08/02/2023 10:55
SD8 @ 48"	Y308042-21	Soil	August 1, 2023 11:25	08/02/2023 10:55
SD_WH6 @ 60"	Y308042-22	Soil	August 1, 2023 11:30	08/02/2023 10:55
SD16@16"	Y308042-23	Soil	July 31, 2023 0:00	08/02/2023 10:55

Received three extra samples not on COC, we are only adding SD16@16" to the COC per Joel's email on 08/03/2023.

Origins Laboratory, Inc.



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 Project Number: FEO.CO.0701.33
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1308012

page 1 of 2

ORIGINS
 LABORATORY, INC

Client: Absaroka Solutions
 Address: 112 High St, Buffalo WY

Project Manager: Joel Mason
 Project Name: FEO Damfino Delineation
 Project Number: FEO.CO.0701.33
 Samples Collected By: Joel.Mason@absarokasolutions.com

Telephone Number: 307-262-8975 & 402.651.7406
 Email Address: Joel.Mason@absarokasolutions.com
 and Joel.Mason@absarokasolutions.com

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

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis	Sample Instructions		
				Unpreserved	H ₂ O	HNO ₃	Other	Groundwater	Soil	Air Summ #			Other	
SD1 @ 15"	7/31/23	11:25	2	X				X						
SD2 @ 15"	7/31/23	11:33	2	X				X						
SD3 @ 30"	7/31/23	11:33	2	X				X						
SD4 @ 18"	7/31/23	12:10	2	X				X						
SD5 @ 12"	7/31/23	12:15	2	X				X						
SD6 @ 15"	7/31/23	13:00	2	X				X						
SD7 @ 30"	7/31/23	13:10	2	X				X						
SD8 @ 24"	7/31/23	13:20	2	X				X						
SD9 @ 24"	7/31/23	13:25	2	X				X						
SD10 @ 12"	7/31/23	13:35	2	X				X						
Relinquished By: <i>[Signature]</i>	Date: 8/2/23	Time: 8:10						Received By: <i>[Signature]</i>	Date: 8/2/23	Time: 10:55	Turnaround Time: Same Day <input type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input type="checkbox"/> 72 Hr <input type="checkbox"/> Standard <input checked="" type="checkbox"/>			
Relinquished By: <i>[Signature]</i>	Date:	Time:						Received By:	Date:	Time:				

Date Results Needed

43

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[Signature]

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112 High St.
Buffalo WY 82834

Joel Mason
Project Number: FEO.CO.0701.33
Project: FEO - Damfino Delineation

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1328042

page 1 of 2

ORIGINS

LABORATORY, INC

Client: Absaroka Solutions
Address: 112 High St, Buffalo WY

Project Manager: Joel Mason
Project Name: FEO Damfino Delineation
Project Number: FEO.CO.0701.33
Samples Collected By: Joel.Mason@absarokasolutions.com

Telephone Number: 307-262-8975 & 402.651.7406
Email Address: Joel.Mason@absarokasolutions.com
and Joel.Mason@absarokasolutions.com

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis	Sample Instructions		
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	Air Summa #			Other	
SD_WH2_N @ 48"	8/1/23	11:00	2	X				X					1	
SD_WH3_SE @ 48"	8/1/23	11:10	2	X				X					2	
SD_WH1_E @ 24"	8/1/23	11:10	2	X				X					3	
SD_WH5_SW @ 48"	8/1/23	11:15	2	X				X					4	
SD_WH4_S @ 48"	8/1/23	11:20	2	X				X					5	
SD8 @ 48"	8/1/23	11:25	2	X				X					6	
SD_WH6 @ 60"	8/1/23	11:30	2	X				X					7	
													8	
													9	
													10	
Relinquished By: <i>[Signature]</i>	Date: 8/12/23	Time: 8:00						Received By: <i>[Signature]</i>	Date: 8/21/23	Time: 10:55	Turnaround Time: Same Day <input type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input type="checkbox"/> 72 Hr <input type="checkbox"/> Standard <input checked="" type="checkbox"/>			
Relinquished By: <i>[Signature]</i>	Date:	Time:						Received By:	Date:	Time:				

Date Results Needed

4.3

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[Signature]

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112 High St.
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Project Number: FEO.CO.0701.33
Project: FEO - Damfino Delineation

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: Y308042 Client: Absaroka
 Checklist Completed by: TJM Client Project ID: FEO Damfino
 Date/time completed: 8/2/23 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: 1,43 °C / _____ °C / _____ °C (Describe)
 Thermometer ID: T004

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C ⁽¹⁾ ?	/			
Is there ice present (document if blue ice is used)	/			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)			/	
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)			/	
Were all samples received intact ⁽¹⁾ ?	/			
Was adequate sample volume provided ⁽¹⁾ ?	/			
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?		/		
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	/			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?		/		see comments
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	/			
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	/			
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.			/	
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)			/	
Additional Comments (if any): <u>Write out on COC. Received samples 5014, 5015 + some not on chain</u>				

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

Reviewed by (Project Manager) [Signature] Date/Time Reviewed 8/2/23

Origins Laboratory, Inc.

[Signature]

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 Project Number: FEO.CO.0701.33
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SD1 @ 15"
7/31/2023 11:25:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y308042-01 (Soil)

Boron (DTPA Sorbitol)

Boron	ND		0.100	mg/L	1	B3H0804	08/08/2023	08/09/2023	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B3H0318	08/03/2023	08/04/2023	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

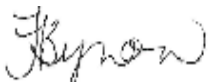
Surrogate: *o*-Terphenyl 117 % 50-150 " " "

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B3H0334	08/03/2023	08/07/2023	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 95.5 % 70-130 " " "

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SD1 @ 15"

7/31/2023 11:25:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y308042-01 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	92.8 %		70-130			B3H03 34	08/03/2023	08/07/2023	
Surrogate: 4-Bromofluorobenzene	89.5 %		70-130			"	"	"	

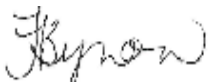
Metals by Saturated Paste by EPA 6010

Calcium	13.5		0.499	meq/L	10	[CALC]	08/08/2023	08/09/2023	
Magnesium	4.07		0.823	"	"	"	"	"	
Sodium	2.28		0.435	"	"	"	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00109	0.00201	mg/Kg	1	L696748	08/04/2023	08/04/2023	
2-Methylnaphthalene	ND	0.00194	0.00201	"	"	"	"	"	
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"	
Anthracene	ND	0.000334	0.00067	"	"	"	"	"	
Benzo(a)anthracene	ND	0.000493	0.00067	"	"	"	"	"	
Benzo(a)pyrene	ND	0.000468	0.00067	"	"	"	"	"	
Benzo(b)fluoranthene	ND	0.000585	0.00067	"	"	"	"	"	
Benzo(k)fluoranthene	ND	0.000437	0.00067	"	"	"	"	"	
Chrysene	ND	0.000624	0.00067	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"	
Fluoranthene	ND	0.000394	0.00067	"	"	"	"	"	

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SD1 @ 15"
7/31/2023 11:25:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.
Y308042-01 (Soil)

PAH by 8270D SIM

Fluorene	ND	0.000286	0.00067	mg/Kg	1	L696748	08/04/2023	08/04/2023	
Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	"	"	"	"	"	
Naphthalene	ND	0.00145	0.00201	"	"	"	"	"	
Pyrene	0.00156	0.000643	0.00067	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	60.2 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	76.8 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	47.9 %		29-110			"	"	"	

pH in Soil by 9045D

pH	8.06			pH Units	1	B3H0821	08/08/2023	08/09/2023	
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SAR by 20B Saturated Paste

SAR	0.769			SAR	1	B3H0808	08/08/2023	08/09/2023	
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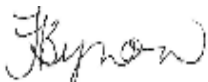
Specific Conductance Mod. 9050A

Specific Conductance (EC)	2.14		0.00500	mmhos/cm	1	B3H0821	08/08/2023	08/09/2023	
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Table 915 metals by EPA 6020B

Arsenic	4.23		0.0931	mg/kg	10	B3H0228	08/02/2023	08/08/2023	
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SD1 @ 15"

7/31/2023 11:25:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.
 Y308042-01 (Soil)**

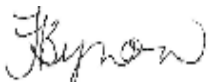
Table 915 metals by EPA 6020B

Barium	138		9.31	mg/kg	10	B3H0228	08/02/2023	08/08/2023	
Cadmium	0.0977		0.0931	"	"	"	"	"	
Copper	10.2		9.31	"	"	"	"	"	
Lead	ND		9.31	"	"	"	"	"	
Nickel	10.4		9.31	"	"	"	"	"	
Selenium	0.140		0.0931	"	"	"	"	"	
Silver	ND		0.0931	"	"	"	"	"	
Zinc	ND		93.1	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L697013	07/31/2023	08/06/2023	
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Joel Mason
 Project Number: FEO.CO.0701.33
 Project: FEO - Damfino Delineation

SD2 @ 15"

7/31/2023 11:33:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.
 Y308042-02 (Soil)**

Boron (DTPA Sorbitol)

Boron	ND		0.0983	mg/L	1	B3H0804	08/08/2023	08/09/2023	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B3H0318	08/03/2023	08/04/2023	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

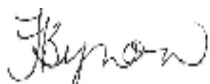
Surrogate: o-Terphenyl	115%		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B3H0334	08/03/2023	08/07/2023	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	94.3%		70-130			"	"	"	
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Project: FEO - Damfino Delineation

SD2 @ 15"

7/31/2023 11:33:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y308042-02 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	90.6 %		70-130			B3H03 34	08/03/2023	08/07/2023	
Surrogate: 4-Bromofluorobenzene	91.1 %		70-130			"	"	"	

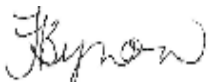
Metals by Saturated Paste by EPA 6010

Calcium	4.86		0.499	meq/L	10	[CALC]	08/08/2023	08/09/2023	
Magnesium	1.11		0.823	"	"	"	"	"	
Sodium	4.20		0.435	"	"	"	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00109	0.00201	mg/Kg	1	L696748	08/04/2023	08/04/2023	
2-Methylnaphthalene	ND	0.00194	0.00201	"	"	"	"	"	
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"	
Anthracene	0.0016	0.000334	0.00067	"	"	"	"	"	
Benzo(a)anthracene	ND	0.000493	0.00067	"	"	"	"	"	
Benzo(a)pyrene	ND	0.000468	0.00067	"	"	"	"	"	
Benzo(b)fluoranthene	ND	0.000585	0.00067	"	"	"	"	"	
Benzo(k)fluoranthene	ND	0.000437	0.00067	"	"	"	"	"	
Chrysene	0.000638	0.000624	0.00067	"	"	"	"	"	J
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"	
Fluoranthene	0.000789	0.000394	0.00067	"	"	"	"	"	
Fluorene	0.00367	0.000286	0.00067	"	"	"	"	"	

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Absaroka
 112 High St.
 Buffalo WY 82834

Joel Mason
 Project Number: FEO.CO.0701.33
 Project: FEO - Damfino Delineation

SD2 @ 15"

7/31/2023 11:33:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.
Y308042-02 (Soil)

PAH by 8270D SIM

Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	mg/Kg	1	L696748	08/04/2023	08/04/2023	
Naphthalene	ND	0.00145	0.00201	"	"	"	"	"	
Pyrene	0.00813	0.000643	0.00067	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	73.9 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	69.1 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	54.4 %		29-110			"	"	"	

pH in Soil by 9045D

pH	8.17			pH Units	1	B3H0821	08/08/2023	08/09/2023	
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SAR by 20B Saturated Paste

SAR	2.43			SAR	1	B3H0808	08/08/2023	08/09/2023	
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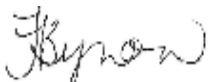
Specific Conductance Mod. 9050A

Specific Conductance (EC)	1.18		0.00500	mmhos/cm	1	B3H0821	08/08/2023	08/09/2023	
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Table 915 metals by EPA 6020B

Arsenic	2.81		0.0902	mg/kg	10	B3H0228	08/02/2023	08/08/2023	
Barium	186		9.02	"	"	"	"	"	

Origins Laboratory, Inc.



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Absaroka
 112 High St.
 Buffalo WY 82834

Joel Mason
 Project Number: FEO.CO.0701.33
 Project: FEO - Damfino Delineation

SD2 @ 15"

7/31/2023 11:33:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.
 Y308042-02 (Soil)**

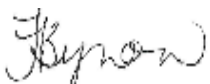
Table 915 metals by EPA 6020B

Cadmium	0.0947		0.0902	mg/kg	10	B3H0228	08/02/2023	08/08/2023	
Copper	9.63		9.02	"	"	"	"	"	
Lead	ND		9.02	"	"	"	"	"	
Nickel	9.61		9.02	"	"	"	"	"	
Selenium	0.123		0.0902	"	"	"	"	"	
Silver	ND		0.0902	"	"	"	"	"	
Zinc	ND		90.2	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.253	0.52	mg/Kg	1	L697013	07/31/2023	08/06/2023	
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Origins Laboratory, Inc.



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Absaroka
 112 High St.
 Buffalo WY 82834

Joel Mason
 Project Number: FEO.CO.0701.33
 Project: FEO - Damfino Delineation

SD3 @ 30"
7/31/2023 11:33:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y308042-03 (Soil)

Boron (DTPA Sorbitol)

Boron	0.257		0.0987	mg/L	1	B3H0805	08/08/2023	08/09/2023	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	65.6		25.0	mg/kg	1	B3H0318	08/03/2023	08/04/2023	
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

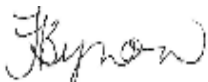
Surrogate: <i>o</i> -Terphenyl	114 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B3H0334	08/03/2023	08/07/2023	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Toluene	0.00310		0.00200	"	"	"	"	"	
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	97.1 %		70-130			"	"	"	
Surrogate: Toluene-d8	91.3 %		70-130			"	"	"	

Origins Laboratory, Inc.



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Absaroka
 112 High St.
 Buffalo WY 82834

Joel Mason
 Project Number: FEO.CO.0701.33
 Project: FEO - Damfino Delineation

SD3 @ 30"

7/31/2023 11:33:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.
 Y308042-03 (Soil)**

GBTEX+TMBs by 8260D

Surrogate: 4-Bromofluorobenzene	90.6 %		70-130			B3H03 34	08/03/2023	08/07/2023	
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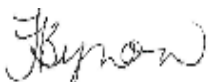
Metals by Saturated Paste by EPA 6010

Calcium	23.2		0.499	meq/L	10	[CALC]	08/08/2023	08/09/2023	
Magnesium	7.61		0.823	"	"	"	"	"	
Sodium	46.3		0.435	"	"	"	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	0.00265	0.00109	0.00201	mg/Kg	1	L696748	08/04/2023	08/04/2023	
2-Methylnaphthalene	ND	0.00194	0.00201	"	"	"	"	"	
Acenaphthene	0.00321	0.000304	0.00067	"	"	"	"	"	
Anthracene	0.00475	0.000334	0.00067	"	"	"	"	"	
Benzo(a)anthracene	ND	0.000493	0.00067	"	"	"	"	"	
Benzo(a)pyrene	ND	0.000468	0.00067	"	"	"	"	"	
Benzo(b)fluoranthene	ND	0.000585	0.00067	"	"	"	"	"	
Benzo(k)fluoranthene	ND	0.000437	0.00067	"	"	"	"	"	
Chrysene	0.00161	0.000624	0.00067	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"	
Fluoranthene	0.00107	0.000394	0.00067	"	"	"	"	"	
Fluorene	0.0133	0.000286	0.00067	"	"	"	"	"	
Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	"	"	"	"	"	

Origins Laboratory, Inc.



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Absaroka
 112 High St.
 Buffalo WY 82834

Joel Mason
 Project Number: FEO.CO.0701.33
 Project: FEO - Damfino Delineation

SD3 @ 30"

7/31/2023 11:33:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Waypoint Analytical, LLC.
 Y308042-03 (Soil)**

PAH by 8270D SIM

Naphthalene	ND	0.00145	0.00201	mg/Kg	1	L696748	08/04/2023	08/04/2023	
Pyrene	0.0153	0.000643	0.00067	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	63.1 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	65.3 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	46.5 %		29-110			"	"	"	

pH in Soil by 9045D

pH	7.71			pH Units	1	B3H0822	08/08/2023	08/09/2023	
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SAR by 20B Saturated Paste

SAR	11.8			SAR	1	B3H0809	08/08/2023	08/09/2023	
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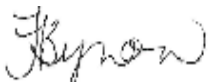
Specific Conductance Mod. 9050A

Specific Conductance (EC)	7.54		0.00500	mmhos/cm	1	B3H0822	08/08/2023	08/09/2023	
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Table 915 metals by EPA 6020B

Arsenic	3.41		0.0923	mg/kg	10	B3H0228	08/02/2023	08/08/2023	
Barium	347		9.23	"	"	"	"	"	
Cadmium	0.199		0.0923	"	"	"	"	"	

Origins Laboratory, Inc.



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Absaroka
 112 High St.
 Buffalo WY 82834

Joel Mason
 Project Number: FEO.CO.0701.33
 Project: FEO - Damfino Delineation

SD3 @ 30"

7/31/2023 11:33:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.
 Y308042-03 (Soil)**

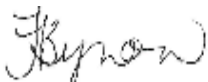
Table 915 metals by EPA 6020B

Copper	18.3		9.23	mg/kg	10	B3H0228	08/02/2023	08/08/2023	
Lead	9.36		9.23	"	"	"	"	"	
Nickel	16.2		9.23	"	"	"	"	"	
Selenium	0.197		0.0923	"	"	"	"	"	
Silver	ND		0.0923	"	"	"	"	"	
Zinc	ND		92.3	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.248	0.51	mg/Kg	1	L697013	07/31/2023	08/06/2023	
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Origins Laboratory, Inc.



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Absaroka
 112 High St.
 Buffalo WY 82834

Joel Mason
 Project Number: FEO.CO.0701.33
 Project: FEO - Damfino Delineation

SD4 @ 18"

7/31/2023 12:10:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.
 Y308042-04 (Soil)**

Boron (DTPA Sorbitol)

Boron	0.107		0.0988	mg/L	1	B3H0805	08/08/2023	08/09/2023	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B3H0318	08/03/2023	08/04/2023	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

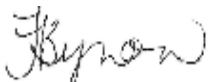
Surrogate: o-Terphenyl	108 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B3H0334	08/03/2023	08/07/2023	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	95.7 %		70-130			"	"	"	
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Origins Laboratory, Inc.



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Absaroka
 112 High St.
 Buffalo WY 82834

Joel Mason
 Project Number: FEO.CO.0701.33
 Project: FEO - Damfino Delineation

SD4 @ 18"

7/31/2023 12:10:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y308042-04 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	89.9 %		70-130			B3H03 34	08/03/2023	08/07/2023	
Surrogate: 4-Bromofluorobenzene	91.2 %		70-130			"	"	"	

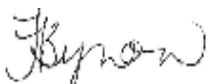
Metals by Saturated Paste by EPA 6010

Calcium	5.45		0.499	meq/L	10	[CALC]	08/08/2023	08/09/2023	
Magnesium	1.84		0.823	"	"	"	"	"	
Sodium	4.50		0.435	"	"	"	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	0.00168	0.00109	0.00201	mg/Kg	1	L696748	08/04/2023	08/04/2023	J
2-Methylnaphthalene	ND	0.00194	0.00201	"	"	"	"	"	
Acenaphthene	0.000991	0.000304	0.00067	"	"	"	"	"	
Anthracene	0.00296	0.000334	0.00067	"	"	"	"	"	
Benzo(a)anthracene	0.00198	0.000493	0.00067	"	"	"	"	"	
Benzo(a)pyrene	ND	0.000468	0.00067	"	"	"	"	"	
Benzo(b)fluoranthene	ND	0.000585	0.00067	"	"	"	"	"	
Benzo(k)fluoranthene	ND	0.000437	0.00067	"	"	"	"	"	
Chrysene	0.00359	0.000624	0.00067	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"	
Fluoranthene	0.000945	0.000394	0.00067	"	"	"	"	"	
Fluorene	0.0048	0.000286	0.00067	"	"	"	"	"	

Origins Laboratory, Inc.



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Absaroka
 112 High St.
 Buffalo WY 82834

Joel Mason
 Project Number: FEO.CO.0701.33
 Project: FEO - Damfino Delineation

SD4 @ 18"

7/31/2023 12:10:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Waypoint Analytical, LLC.
 Y308042-04 (Soil)**

PAH by 8270D SIM

Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	mg/Kg	1	L696748	08/04/2023	08/04/2023	
Naphthalene	ND	0.00145	0.00201	"	"	"	"	"	
Pyrene	0.0112	0.000643	0.00067	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	78.8 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	59.7 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	54.2 %		29-110			"	"	"	

pH in Soil by 9045D

pH	8.02			pH Units	1	B3H0822	08/08/2023	08/09/2023	
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SAR by 20B Saturated Paste

SAR	2.36			SAR	1	B3H0809	08/08/2023	08/09/2023	
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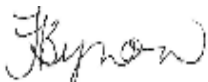
Specific Conductance Mod. 9050A

Specific Conductance (EC)	1.29		0.00500	mmhos/cm	1	B3H0822	08/08/2023	08/09/2023	
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Table 915 metals by EPA 6020B

Arsenic	2.94		0.0886	mg/kg	10	B3H0228	08/02/2023	08/08/2023	
Barium	782		8.86	"	"	"	"	"	

Origins Laboratory, Inc.



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Absaroka
 112 High St.
 Buffalo WY 82834

Joel Mason
 Project Number: FEO.CO.0701.33
 Project: FEO - Damfino Delineation

SD4 @ 18"

7/31/2023 12:10:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y308042-04 (Soil)

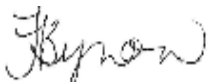
Table 915 metals by EPA 6020B

Cadmium	0.148		0.0886	mg/kg	10	B3H0228	08/02/2023	08/08/2023	
Copper	12.5		8.86	"	"	"	"	"	
Lead	ND		8.86	"	"	"	"	"	
Nickel	11.0		8.86	"	"	"	"	"	
Selenium	0.189		0.0886	"	"	"	"	"	
Silver	ND		0.0886	"	"	"	"	"	
Zinc	ND		88.6	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L697013	07/31/2023	08/06/2023	
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Origins Laboratory, Inc.



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Absaroka
 112 High St.
 Buffalo WY 82834

Joel Mason
 Project Number: FEO.CO.0701.33
 Project: FEO - Damfino Delineation

SD5 @ 12"
7/31/2023 12:15:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y308042-05 (Soil)

Boron (DTPA Sorbitol)

Boron	0.370		0.0981	mg/L	1	B3H0805	08/08/2023	08/09/2023	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	78.0		25.0	mg/kg	1	B3H0318	08/03/2023	08/04/2023	
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

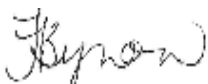
Surrogate: <i>o</i> -Terphenyl	117 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B3H0334	08/03/2023	08/07/2023	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Toluene	0.00270		0.00200	"	"	"	"	"	
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	99.6 %		70-130			"	"	"	
Surrogate: Toluene-d8	89.6 %		70-130			"	"	"	

Origins Laboratory, Inc.



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Absaroka
 112 High St.
 Buffalo WY 82834

Joel Mason
 Project Number: FEO.CO.0701.33
 Project: FEO - Damfino Delineation

SD5 @ 12"

7/31/2023 12:15:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y308042-05 (Soil)

GBTEX+TMBs by 8260D

Surrogate: 4-Bromofluorobenzene	89.0 %		70-130			B3H03 34	08/03/2023	08/07/2023	
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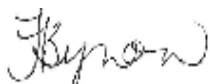
Metals by Saturated Paste by EPA 6010

Calcium	9.38		0.499	meq/L	10	[CALC]	08/08/2023	08/09/2023	
Magnesium	2.28		0.823	"	"	"	"	"	
Sodium	23.4		0.435	"	"	"	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00109	0.00201	mg/Kg	1	L696748	08/04/2023	08/04/2023	
2-Methylnaphthalene	ND	0.00194	0.00201	"	"	"	"	"	
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"	
Anthracene	0.00177	0.000334	0.00067	"	"	"	"	"	
Benzo(a)anthracene	ND	0.000493	0.00067	"	"	"	"	"	
Benzo(a)pyrene	ND	0.000468	0.00067	"	"	"	"	"	
Benzo(b)fluoranthene	ND	0.000585	0.00067	"	"	"	"	"	
Benzo(k)fluoranthene	ND	0.000437	0.00067	"	"	"	"	"	
Chrysene	0.000768	0.000624	0.00067	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"	
Fluoranthene	ND	0.000394	0.00067	"	"	"	"	"	
Fluorene	0.00321	0.000286	0.00067	"	"	"	"	"	

Origins Laboratory, Inc.



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Absaroka
112 High St.
Buffalo WY 82834

Joel Mason
Project Number: FEO.CO.0701.33
Project: FEO - Damfino Delineation

SD5 @ 12"
7/31/2023 12:15:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.
Y308042-05 (Soil)

PAH by 8270D SIM

Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	mg/Kg	1	L696748	08/04/2023	08/04/2023	
Naphthalene	ND	0.00145	0.00201	"	"	"	"	"	
Pyrene	0.00631	0.000643	0.00067	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	65.4 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	71.9 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	47.4 %		29-110			"	"	"	

pH in Soil by 9045D

pH	8.01			pH Units	1	B3H0822	08/08/2023	08/09/2023	
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SAR by 20B Saturated Paste

SAR	9.68			SAR	1	B3H0809	08/08/2023	08/09/2023	
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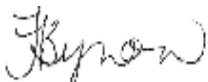
Specific Conductance Mod. 9050A

Specific Conductance (EC)	3.87		0.00500	mmhos/cm	1	B3H0822	08/08/2023	08/09/2023	
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Table 915 metals by EPA 6020B

Arsenic	4.90		0.0867	mg/kg	10	B3H0228	08/02/2023	08/08/2023	
Barium	177		8.67	"	"	"	"	"	

Origins Laboratory, Inc.



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Absaroka
 112 High St.
 Buffalo WY 82834

Joel Mason
 Project Number: FEO.CO.0701.33
 Project: FEO - Damfino Delineation

SD5 @ 12"

7/31/2023 12:15:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y308042-05 (Soil)

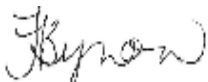
Table 915 metals by EPA 6020B

Cadmium	0.0997		0.0867	mg/kg	10	B3H0228	08/02/2023	08/08/2023	
Copper	8.95		8.67	"	"	"	"	"	
Lead	ND		8.67	"	"	"	"	"	
Nickel	ND		8.67	"	"	"	"	"	
Selenium	0.116		0.0867	"	"	"	"	"	
Silver	ND		0.0867	"	"	"	"	"	
Zinc	ND		86.7	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.248	0.51	mg/Kg	1	L697013	07/31/2023	08/06/2023	
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Origins Laboratory, Inc.



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Absaroka
 112 High St.
 Buffalo WY 82834

Joel Mason
 Project Number: FEO.CO.0701.33
 Project: FEO - Damfino Delineation

SD6 @ 15"

7/31/2023 1:00:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y308042-06 (Soil)

Boron (DTPA Sorbitol)

Boron	0.253		0.0982	mg/L	1	B3H0805	08/08/2023	08/09/2023	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B3H0318	08/03/2023	08/04/2023	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

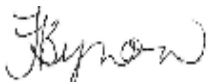
Surrogate: o-Terphenyl	117 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B3H0334	08/03/2023	08/07/2023	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	97.8 %		70-130			"	"	"	
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Origins Laboratory, Inc.



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Absaroka
 112 High St.
 Buffalo WY 82834

Joel Mason
 Project Number: FEO.CO.0701.33
 Project: FEO - Damfino Delineation

SD6 @ 15"

7/31/2023 1:00:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y308042-06 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	92.6 %		70-130			B3H03 34	08/03/2023	08/07/2023	
Surrogate: 4-Bromofluorobenzene	88.5 %		70-130			"	"	"	

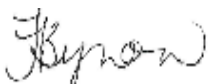
Metals by Saturated Paste by EPA 6010

Calcium	7.04		0.499	meq/L	10	[CALC]	08/08/2023	08/09/2023	
Magnesium	2.84		0.823	"	"	"	"	"	
Sodium	4.20		0.435	"	"	"	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00109	0.00201	mg/Kg	1	L696748	08/04/2023	08/04/2023	
2-Methylnaphthalene	ND	0.00194	0.00201	"	"	"	"	"	
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"	
Anthracene	ND	0.000334	0.00067	"	"	"	"	"	
Benzo(a)anthracene	ND	0.000493	0.00067	"	"	"	"	"	
Benzo(a)pyrene	ND	0.000468	0.00067	"	"	"	"	"	
Benzo(b)fluoranthene	ND	0.000585	0.00067	"	"	"	"	"	
Benzo(k)fluoranthene	ND	0.000437	0.00067	"	"	"	"	"	
Chrysene	ND	0.000624	0.00067	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"	
Fluoranthene	ND	0.000394	0.00067	"	"	"	"	"	

Origins Laboratory, Inc.



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Absaroka
112 High St.
Buffalo WY 82834

Joel Mason
Project Number: FEO.CO.0701.33
Project: FEO - Damfino Delineation

SD6 @ 15"

7/31/2023 1:00:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Waypoint Analytical, LLC.
Y308042-06 (Soil)**

PAH by 8270D SIM

Fluorene	ND	0.000286	0.00067	mg/Kg	1	L696748	08/04/2023	08/04/2023	
Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	"	"	"	"	"	
Naphthalene	ND	0.00145	0.00201	"	"	"	"	"	
Pyrene	ND	0.000643	0.00067	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	65.3 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	63.4 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	44.7 %		29-110			"	"	"	

pH in Soil by 9045D

pH	8.04			pH Units	1	B3H0822	08/08/2023	08/09/2023	
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SAR by 20B Saturated Paste

SAR	1.89			SAR	1	B3H0809	08/08/2023	08/09/2023	
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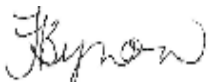
Specific Conductance Mod. 9050A

Specific Conductance (EC)	1.53		0.00500	mmhos/cm	1	B3H0822	08/08/2023	08/09/2023	
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Table 915 metals by EPA 6020B

Arsenic	3.06		0.0959	mg/kg	10	B3H0228	08/02/2023	08/08/2023	
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Origins Laboratory, Inc.



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Absaroka
 112 High St.
 Buffalo WY 82834

Joel Mason
 Project Number: FEO.CO.0701.33
 Project: FEO - Damfino Delineation

SD6 @ 15"

7/31/2023 1:00:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y308042-06 (Soil)

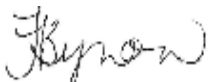
Table 915 metals by EPA 6020B

Barium	236		9.59	mg/kg	10	B3H0228	08/02/2023	08/08/2023	
Cadmium	0.160		0.0959	"	"	"	"	"	
Copper	16.0		9.59	"	"	"	"	"	
Lead	ND		9.59	"	"	"	"	"	
Nickel	13.9		9.59	"	"	"	"	"	
Selenium	0.189		0.0959	"	"	"	"	"	
Silver	ND		0.0959	"	"	"	"	"	
Zinc	ND		95.9	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L697013	07/31/2023	08/06/2023	
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Origins Laboratory, Inc.



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Absaroka
 112 High St.
 Buffalo WY 82834

Joel Mason
 Project Number: FEO.CO.0701.33
 Project: FEO - Damfino Delineation

SD7 @ 30"

7/31/2023 1:10:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.
 Y308042-07 (Soil)**

Boron (DTPA Sorbitol)

Boron	0.125		0.0995	mg/L	1	B3H0805	08/08/2023	08/09/2023	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B3H0318	08/03/2023	08/04/2023	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

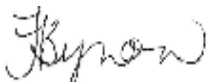
Surrogate: o-Terphenyl	110 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B3H0334	08/03/2023	08/07/2023	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	98.5 %		70-130			"	"	"	
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Origins Laboratory, Inc.



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Absaroka
 112 High St.
 Buffalo WY 82834

Joel Mason
 Project Number: FEO.CO.0701.33
 Project: FEO - Damfino Delineation

SD7 @ 30"

7/31/2023 1:10:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y308042-07 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	93.0 %		70-130			B3H03 34	08/03/2023	08/07/2023	
Surrogate: 4-Bromofluorobenzene	89.9 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	6.20		0.499	meq/L	10	[CALC]	08/08/2023	08/09/2023	
Magnesium	2.25		0.823	"	"	"	"	"	
Sodium	6.53		0.435	"	"	"	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00109	0.00201	mg/Kg	1	L696748	08/04/2023	08/04/2023	
2-Methylnaphthalene	ND	0.00194	0.00201	"	"	"	"	"	
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"	
Anthracene	ND	0.000334	0.00067	"	"	"	"	"	
Benzo(a)anthracene	ND	0.000493	0.00067	"	"	"	"	"	
Benzo(a)pyrene	ND	0.000468	0.00067	"	"	"	"	"	
Benzo(b)fluoranthene	ND	0.000585	0.00067	"	"	"	"	"	
Benzo(k)fluoranthene	ND	0.000437	0.00067	"	"	"	"	"	
Chrysene	ND	0.000624	0.00067	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"	
Fluoranthene	ND	0.000394	0.00067	"	"	"	"	"	

Origins Laboratory, Inc.

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Absaroka
 112 High St.
 Buffalo WY 82834

Joel Mason
 Project Number: FEO.CO.0701.33
 Project: FEO - Damfino Delineation

SD7 @ 30"

7/31/2023 1:10:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.
Y308042-07 (Soil)

PAH by 8270D SIM

Fluorene	0.000564	0.000286	0.00067	mg/Kg	1	L696748	08/04/2023	08/04/2023	J
Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	"	"	"	"	"	
Naphthalene	ND	0.00145	0.00201	"	"	"	"	"	
Pyrene	0.00121	0.000643	0.00067	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	68.9 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	67.7 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	45.2 %		29-110			"	"	"	

pH in Soil by 9045D

pH	7.88			pH Units	1	B3H0822	08/08/2023	08/09/2023	
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SAR by 20B Saturated Paste

SAR	3.18			SAR	1	B3H0809	08/08/2023	08/09/2023	
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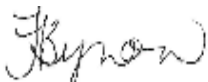
Specific Conductance Mod. 9050A

Specific Conductance (EC)	1.66		0.00500	mmhos/cm	1	B3H0822	08/08/2023	08/09/2023	
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Table 915 metals by EPA 6020B

Arsenic	1.44		0.0906	mg/kg	10	B3H0228	08/02/2023	08/08/2023	
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Origins Laboratory, Inc.



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Absaroka
 112 High St.
 Buffalo WY 82834

Joel Mason
 Project Number: FEO.CO.0701.33
 Project: FEO - Damfino Delineation

SD7 @ 30"

7/31/2023 1:10:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y308042-07 (Soil)

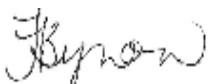
Table 915 metals by EPA 6020B

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
Barium	151		9.06	mg/kg	10	B3H0228	08/02/2023	08/08/2023	
Cadmium	ND		0.0906	"	"	"	"	"	
Copper	9.83		9.06	"	"	"	"	"	
Lead	ND		9.06	"	"	"	"	"	
Nickel	11.8		9.06	"	"	"	"	"	
Selenium	0.185		0.0906	"	"	"	"	"	
Silver	ND		0.0906	"	"	"	"	"	
Zinc	ND		90.6	"	"	"	"	"	

Total Metals by 7196A

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L697014	07/31/2023	08/06/2023	

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Absaroka
 112 High St.
 Buffalo WY 82834

Joel Mason
 Project Number: FEO.CO.0701.33
 Project: FEO - Damfino Delineation

SD8 @ 24"

7/31/2023 1:20:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.
 Y308042-08 (Soil)**

Boron (DTPA Sorbitol)

Boron	0.463		0.0983	mg/L	1	B3H0805	08/08/2023	08/09/2023	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	337		25.0	mg/kg	1	B3H0318	08/03/2023	08/04/2023	
Residual Range Organics (C28-C40)	723		100	"	"	"	"	"	

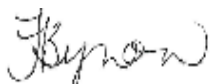
Surrogate: o-Terphenyl	113 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B3H0334	08/03/2023	08/07/2023	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	100 %		70-130			"	"	"	
Surrogate: Toluene-d8	92.0 %		70-130			"	"	"	

Origins Laboratory, Inc.



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Absaroka
 112 High St.
 Buffalo WY 82834

Joel Mason
 Project Number: FEO.CO.0701.33
 Project: FEO - Damfino Delineation

SD8 @ 24"

7/31/2023 1:20:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.
 Y308042-08 (Soil)**

GBTEX+TMBs by 8260D

Surrogate: 4-Bromofluorobenzene 91.1 % 70-130 B3H03 08/03/2023 08/07/2023
 34

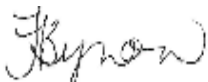
Metals by Saturated Paste by EPA 6010

Calcium	20.4	0.499	meq/L	10	[CALC]	08/08/2023	08/09/2023
Magnesium	6.99	0.823	"	"	"	"	"
Sodium	13.7	0.435	"	"	"	"	"

PAH by 8270D SIM

1-Methylnaphthalene	0.0327	0.00109	0.00201	mg/Kg	1	L696748	08/04/2023	08/04/2023
2-Methylnaphthalene	0.0283	0.00194	0.00201	"	"	"	"	"
Acenaphthene	0.00285	0.000304	0.00067	"	"	"	"	"
Anthracene	0.00193	0.000334	0.00067	"	"	"	"	"
Benzo(a)anthracene	0.0112	0.000493	0.00067	"	"	"	"	"
Benzo(a)pyrene	ND	0.000468	0.00067	"	"	"	"	"
Benzo(b)fluoranthene	0.00319	0.000585	0.00067	"	"	"	"	"
Benzo(k)fluoranthene	0.00188	0.000437	0.00067	"	"	"	"	"
Chrysene	0.0499	0.000624	0.00067	"	"	"	"	"
Dibenz(a,h)anthracene	0.00424	0.000614	0.00067	"	"	"	"	"
Fluoranthene	0.00177	0.000394	0.00067	"	"	"	"	"
Fluorene	0.00917	0.000286	0.00067	"	"	"	"	"
Indeno(1,2,3-cd)pyrene	0.00307	0.000627	0.00067	"	"	"	"	"
Naphthalene	0.00823	0.00145	0.00201	"	"	"	"	"

Origins Laboratory, Inc.



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Absaroka
112 High St.
Buffalo WY 82834

Joel Mason
Project Number: FEO.CO.0701.33
Project: FEO - Damfino Delineation

SD8 @ 24"

7/31/2023 1:20:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Waypoint Analytical, LLC.
Y308042-08 (Soil)**

PAH by 8270D SIM

Pyrene	0.00783	0.000643	0.00067	mg/Kg	1	L696748	08/04/2023	08/04/2023	
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Surrogate: 2-Fluorobiphenyl	55.8 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	36.3 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	51.5 %		29-110			"	"	"	

pH in Soil by 9045D

pH	7.88			pH Units	1	B3H0822	08/08/2023	08/09/2023	
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SAR by 20B Saturated Paste

SAR	3.71			SAR	1	B3H0809	08/08/2023	08/09/2023	
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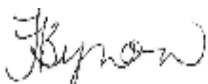
Specific Conductance Mod. 9050A

Specific Conductance (EC)	3.46		0.00500	mmhos/cm	1	B3H0822	08/08/2023	08/09/2023	
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Table 915 metals by EPA 6020B

Arsenic	4.64		0.0955	mg/kg	10	B3H0228	08/02/2023	08/08/2023	
Barium	9010		9.55	"	"	"	"	"	
Cadmium	0.543		0.0955	"	"	"	"	"	
Copper	24.7		9.55	"	"	"	"	"	

Origins Laboratory, Inc.



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 112 High St.
 Buffalo WY 82834

Joel Mason
 Project Number: FEO.CO.0701.33
 Project: FEO - Damfino Delineation

SD8 @ 24"

7/31/2023 1:20:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y308042-08 (Soil)

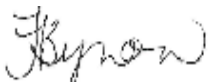
Table 915 metals by EPA 6020B

Lead	ND		9.55	mg/kg	10	B3H0228	08/02/2023	08/08/2023	
Nickel	17.2		9.55	"	"	"	"	"	
Selenium	0.818		0.0955	"	"	"	"	"	
Silver	ND		0.0955	"	"	"	"	"	
Zinc	ND		95.5	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.245	0.504	mg/Kg	1	L697014	07/31/2023	08/06/2023	
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Origins Laboratory, Inc.



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Absaroka
 112 High St.
 Buffalo WY 82834

Joel Mason
 Project Number: FEO.CO.0701.33
 Project: FEO - Damfino Delineation

SD9 @ 24"

7/31/2023 1:25:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.
 Y308042-09 (Soil)**

Boron (DTPA Sorbitol)

Boron	1.57		0.100	mg/L	1	B3H0805	08/08/2023	08/09/2023	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B3H0318	08/03/2023	08/04/2023	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

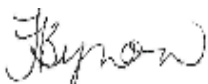
Surrogate: o-Terphenyl	110 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B3H0334	08/03/2023	08/07/2023	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	99.7 %		70-130			"	"	"	
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Origins Laboratory, Inc.



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Absaroka
 112 High St.
 Buffalo WY 82834

Joel Mason
 Project Number: FEO.CO.0701.33
 Project: FEO - Damfino Delineation

SD9 @ 24"

7/31/2023 1:25:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y308042-09 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	91.4 %		70-130			B3H03 34	08/03/2023	08/07/2023	
Surrogate: 4-Bromofluorobenzene	91.0 %		70-130			"	"	"	

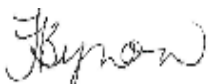
Metals by Saturated Paste by EPA 6010

Calcium	21.0		0.499	meq/L	10	[CALC]	08/08/2023	08/09/2023	
Magnesium	7.42		0.823	"	"	"	"	"	
Sodium	4.28		0.435	"	"	"	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00109	0.00201	mg/Kg	1	L696748	08/04/2023	08/04/2023	
2-Methylnaphthalene	ND	0.00194	0.00201	"	"	"	"	"	
Acenaphthene	0.000729	0.000304	0.00067	"	"	"	"	"	
Anthracene	0.00062	0.000334	0.00067	"	"	"	"	"	J
Benzo(a)anthracene	ND	0.000493	0.00067	"	"	"	"	"	
Benzo(a)pyrene	ND	0.000468	0.00067	"	"	"	"	"	
Benzo(b)fluoranthene	ND	0.000585	0.00067	"	"	"	"	"	
Benzo(k)fluoranthene	ND	0.000437	0.00067	"	"	"	"	"	
Chrysene	ND	0.000624	0.00067	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"	
Fluoranthene	ND	0.000394	0.00067	"	"	"	"	"	
Fluorene	0.00286	0.000286	0.00067	"	"	"	"	"	

Origins Laboratory, Inc.



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Absaroka
112 High St.
Buffalo WY 82834

Joel Mason
Project Number: FEO.CO.0701.33
Project: FEO - Damfino Delineation

SD9 @ 24"

7/31/2023 1:25:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Waypoint Analytical, LLC.
Y308042-09 (Soil)**

PAH by 8270D SIM

Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	mg/Kg	1	L696748	08/04/2023	08/04/2023	
Naphthalene	ND	0.00145	0.00201	"	"	"	"	"	
Pyrene	0.00173	0.000643	0.00067	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	78.9 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	74 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	59.3 %		29-110			"	"	"	

pH in Soil by 9045D

pH	7.82			pH Units	1	B3H0822	08/08/2023	08/09/2023	
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SAR by 20B Saturated Paste

SAR	1.14			SAR	1	B3H0809	08/08/2023	08/09/2023	
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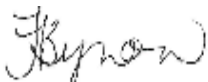
Specific Conductance Mod. 9050A

Specific Conductance (EC)	3.62		0.00500	mmhos/cm	1	B3H0822	08/08/2023	08/09/2023	
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Table 915 metals by EPA 6020B

Arsenic	3.95		0.0929	mg/kg	10	B3H0228	08/02/2023	08/08/2023	
Barium	433		9.29	"	"	"	"	"	

Origins Laboratory, Inc.



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 Buffalo WY 82834

Joel Mason
 Project Number: FEO.CO.0701.33
 Project: FEO - Damfino Delineation

SD9 @ 24"

7/31/2023 1:25:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.
 Y308042-09 (Soil)**

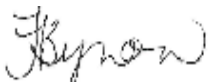
Table 915 metals by EPA 6020B

Cadmium	0.249		0.0929	mg/kg	10	B3H0228	08/02/2023	08/08/2023	
Copper	23.2		9.29	"	"	"	"	"	
Lead	11.3		9.29	"	"	"	"	"	
Nickel	19.3		9.29	"	"	"	"	"	
Selenium	0.270		0.0929	"	"	"	"	"	
Silver	ND		0.0929	"	"	"	"	"	
Zinc	99.0		92.9	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.248	0.509	mg/Kg	1	L697014	07/31/2023	08/06/2023	
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Origins Laboratory, Inc.



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Absaroka
 112 High St.
 Buffalo WY 82834

Joel Mason
 Project Number: FEO.CO.0701.33
 Project: FEO - Damfino Delineation

SD10 @ 12"
7/31/2023 1:35:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y308042-10 (Soil)

Boron (DTPA Sorbitol)

Boron	31.1		0.992	mg/L	10	B3H0805	08/08/2023	08/09/2023	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	538		25.0	mg/kg	1	B3H0318	08/03/2023	08/04/2023	
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

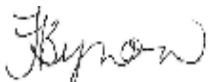
Surrogate: <i>o</i> -Terphenyl	116 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B3H0334	08/03/2023	08/08/2023	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	99.8 %		70-130			"	"	"	
Surrogate: Toluene-d8	92.5 %		70-130			"	"	"	

Origins Laboratory, Inc.



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 Buffalo WY 82834

Joel Mason
 Project Number: FEO.CO.0701.33
 Project: FEO - Damfino Delineation

SD10 @ 12"
7/31/2023 1:35:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y308042-10 (Soil)

GBTEX+TMBs by 8260D

Surrogate: 4-Bromofluorobenzene	90.3 %		70-130			B3H03 34	08/03/2023	08/08/2023	
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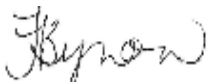
Metals by Saturated Paste by EPA 6010

Calcium	6.69		0.499	meq/L	10	[CALC]	08/08/2023	08/09/2023	
Magnesium	2.37		0.823	"	"	"	"	"	
Sodium	20.6		0.435	"	"	"	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	0.0161	0.00109	0.00201	mg/Kg	1	L696748	08/04/2023	08/04/2023	
2-Methylnaphthalene	0.0136	0.00194	0.00201	"	"	"	"	"	
Acenaphthene	0.0103	0.000304	0.00067	"	"	"	"	"	
Anthracene	0.0124	0.000334	0.00067	"	"	"	"	"	
Benzo(a)anthracene	0.00156	0.000493	0.00067	"	"	"	"	"	
Benzo(a)pyrene	ND	0.000468	0.00067	"	"	"	"	"	
Benzo(b)fluoranthene	ND	0.000585	0.00067	"	"	"	"	"	
Benzo(k)fluoranthene	ND	0.000437	0.00067	"	"	"	"	"	
Chrysene	0.0048	0.000624	0.00067	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"	
Fluoranthene	0.00243	0.000394	0.00067	"	"	"	"	"	
Fluorene	0.0293	0.000286	0.00067	"	"	"	"	"	
Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	"	"	"	"	"	

Origins Laboratory, Inc.



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Absaroka
 112 High St.
 Buffalo WY 82834

Joel Mason
 Project Number: FEO.CO.0701.33
 Project: FEO - Damfino Delineation

SD10 @ 12"
7/31/2023 1:35:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.
Y308042-10 (Soil)

PAH by 8270D SIM

Naphthalene	ND	0.00145	0.00201	mg/Kg	1	L696748	08/04/2023	08/04/2023	
Pyrene	0.0449	0.000643	0.00067	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	69.5 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	61.5 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	49.5 %		29-110			"	"	"	

pH in Soil by 9045D

pH	8.04			pH Units	1	B3H0822	08/08/2023	08/09/2023	
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SAR by 20B Saturated Paste

SAR	9.70			SAR	1	B3H0809	08/08/2023	08/09/2023	
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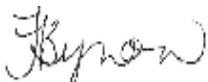
Specific Conductance Mod. 9050A

Specific Conductance (EC)	3.40		0.00500	mmhos/cm	1	B3H0822	08/08/2023	08/09/2023	
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Table 915 metals by EPA 6020B

Arsenic	2.88		0.0932	mg/kg	10	B3H0228	08/02/2023	08/08/2023	
Barium	1350		9.32	"	"	"	"	"	
Cadmium	0.159		0.0932	"	"	"	"	"	

Origins Laboratory, Inc.



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Absaroka
 112 High St.
 Buffalo WY 82834

Joel Mason
 Project Number: FEO.CO.0701.33
 Project: FEO - Damfino Delineation

SD10 @ 12"
7/31/2023 1:35:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y308042-10 (Soil)

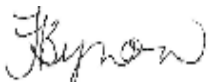
Table 915 metals by EPA 6020B

Copper	14.0		9.32	mg/kg	10	B3H0228	08/02/2023	08/08/2023	
Lead	ND		9.32	"	"	"	"	"	
Nickel	13.7		9.32	"	"	"	"	"	
Selenium	0.176		0.0932	"	"	"	"	"	
Silver	ND		0.0932	"	"	"	"	"	
Zinc	ND		93.2	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L697014	07/31/2023	08/06/2023	
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Origins Laboratory, Inc.



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Absaroka
 112 High St.
 Buffalo WY 82834

Joel Mason
 Project Number: FEO.CO.0701.33
 Project: FEO - Damfino Delineation

SD11 @ 8"

7/31/2023 1:45:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.
 Y308042-11 (Soil)**

Boron (DTPA Sorbitol)

Boron	2.64		0.100	mg/L	1	B3H0805	08/08/2023	08/09/2023	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	49.5		25.0	mg/kg	1	B3H0318	08/03/2023	08/04/2023	
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

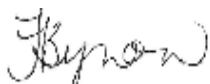
Surrogate: <i>o</i> -Terphenyl	106 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B3H0334	08/03/2023	08/08/2023	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Toluene	0.00258		0.00200	"	"	"	"	"	
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	100 %		70-130			"	"	"	
Surrogate: Toluene-d8	93.9 %		70-130			"	"	"	

Origins Laboratory, Inc.



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Absaroka
112 High St.
Buffalo WY 82834

Joel Mason
Project Number: FEO.CO.0701.33
Project: FEO - Damfino Delineation

SD11 @ 8"

7/31/2023 1:45:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.
Y308042-11 (Soil)**

GBTEX+TMBs by 8260D

Surrogate: 4-Bromofluorobenzene	89.9 %		70-130			B3H03 34	08/03/2023	08/08/2023	
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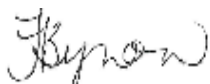
Metals by Saturated Paste by EPA 6010

Calcium	ND		4.99	meq/L	100	[CALC]	08/08/2023	08/09/2023	
Magnesium	ND		8.23	"	"	"	"	"	
Sodium	23.9		4.35	"	"	"	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	0.00111	0.00109	0.00201	mg/Kg	1	L696748	08/04/2023	08/04/2023	J
2-Methylnaphthalene	ND	0.00194	0.00201	"	"	"	"	"	
Acenaphthene	0.000906	0.000304	0.00067	"	"	"	"	"	
Anthracene	0.00101	0.000334	0.00067	"	"	"	"	"	
Benzo(a)anthracene	ND	0.000493	0.00067	"	"	"	"	"	
Benzo(a)pyrene	ND	0.000468	0.00067	"	"	"	"	"	
Benzo(b)fluoranthene	ND	0.000585	0.00067	"	"	"	"	"	
Benzo(k)fluoranthene	ND	0.000437	0.00067	"	"	"	"	"	
Chrysene	0.00106	0.000624	0.00067	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"	
Fluoranthene	0.000452	0.000394	0.00067	"	"	"	"	"	J
Fluorene	0.00371	0.000286	0.00067	"	"	"	"	"	

Origins Laboratory, Inc.



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Absaroka
112 High St.
Buffalo WY 82834

Joel Mason
Project Number: FEO.CO.0701.33
Project: FEO - Damfino Delineation

SD11 @ 8"

7/31/2023 1:45:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Waypoint Analytical, LLC.
Y308042-11 (Soil)**

PAH by 8270D SIM

Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	mg/Kg	1	L696748	08/04/2023	08/04/2023	
Naphthalene	ND	0.00145	0.00201	"	"	"	"	"	
Pyrene	0.00498	0.000643	0.00067	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	68.1 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	69.9 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	49.1 %		29-110			"	"	"	

pH in Soil by 9045D

pH	9.54			pH Units	1	B3H0822	08/08/2023	08/09/2023	
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SAR by 20B Saturated Paste

SAR	42.0			SAR	1	B3H0809	08/08/2023	08/09/2023	
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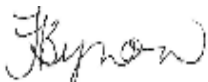
Specific Conductance Mod. 9050A

Specific Conductance (EC)	2.09		0.00500	mmhos/cm	1	B3H0822	08/08/2023	08/09/2023	
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Table 915 metals by EPA 6020B

Arsenic	2.85		0.0874	mg/kg	10	B3H0228	08/02/2023	08/08/2023	
Barium	871		8.74	"	"	"	"	"	

Origins Laboratory, Inc.



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Absaroka
 112 High St.
 Buffalo WY 82834

Joel Mason
 Project Number: FEO.CO.0701.33
 Project: FEO - Damfino Delineation

SD11 @ 8"

7/31/2023 1:45:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y308042-11 (Soil)

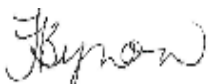
Table 915 metals by EPA 6020B

Cadmium	0.212		0.0874	mg/kg	10	B3H0228	08/02/2023	08/08/2023	
Copper	15.2		8.74	"	"	"	"	"	
Lead	12.6		8.74	"	"	"	"	"	
Nickel	15.3		8.74	"	"	"	"	"	
Selenium	0.207		0.0874	"	"	"	"	"	
Silver	ND		0.0874	"	"	"	"	"	
Zinc	ND		87.4	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.248	0.51	mg/Kg	1	L697014	07/31/2023	08/06/2023	
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Origins Laboratory, Inc.



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Absaroka
 112 High St.
 Buffalo WY 82834

Joel Mason
 Project Number: FEO.CO.0701.33
 Project: FEO - Damfino Delineation

SD12 @ 12"
7/31/2023 12:30:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y308042-12 (Soil)

Boron (DTPA Sorbitol)

Boron	11.9		0.100	mg/L	1	B3H0805	08/08/2023	08/09/2023	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	281		25.0	mg/kg	1	B3H0318	08/03/2023	08/04/2023	
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

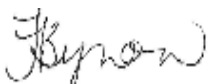
Surrogate: <i>o</i> -Terphenyl	115 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B3H0334	08/03/2023	08/08/2023	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	98.4 %		70-130			"	"	"	
Surrogate: Toluene-d8	91.9 %		70-130			"	"	"	

Origins Laboratory, Inc.



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Absaroka
 112 High St.
 Buffalo WY 82834

Joel Mason
 Project Number: FEO.CO.0701.33
 Project: FEO - Damfino Delineation

SD12 @ 12"
7/31/2023 12:30:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y308042-12 (Soil)

GBTEX+TMBs by 8260D

Surrogate: 4-Bromofluorobenzene	90.3 %		70-130			B3H03 34	08/03/2023	08/08/2023	
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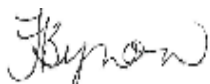
Metals by Saturated Paste by EPA 6010

Calcium	23.1		0.499	meq/L	10	[CALC]	08/08/2023	08/09/2023	
Magnesium	5.81		0.823	"	"	"	"	"	
Sodium	33.9		0.435	"	"	"	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	0.00441	0.00109	0.00201	mg/Kg	1	L696748	08/04/2023	08/04/2023	
2-Methylnaphthalene	0.00325	0.00194	0.00201	"	"	"	"	"	
Acenaphthene	0.00298	0.000304	0.00067	"	"	"	"	"	
Anthracene	0.00843	0.000334	0.00067	"	"	"	"	"	
Benzo(a)anthracene	ND	0.000493	0.00067	"	"	"	"	"	
Benzo(a)pyrene	ND	0.000468	0.00067	"	"	"	"	"	
Benzo(b)fluoranthene	0.00104	0.000585	0.00067	"	"	"	"	"	
Benzo(k)fluoranthene	0.000586	0.000437	0.00067	"	"	"	"	"	J
Chrysene	0.00563	0.000624	0.00067	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"	
Fluoranthene	0.00155	0.000394	0.00067	"	"	"	"	"	
Fluorene	0.0112	0.000286	0.00067	"	"	"	"	"	
Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	"	"	"	"	"	

Origins Laboratory, Inc.



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Absaroka
 112 High St.
 Buffalo WY 82834

Joel Mason
 Project Number: FEO.CO.0701.33
 Project: FEO - Damfino Delineation

SD12 @ 12"
7/31/2023 12:30:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.
Y308042-12 (Soil)

PAH by 8270D SIM

Naphthalene	ND	0.00145	0.00201	mg/Kg	1	L696748	08/04/2023	08/04/2023	
Pyrene	0.0214	0.000643	0.00067	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	55 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	51.7 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	45.6 %		29-110			"	"	"	

pH in Soil by 9045D

pH	7.92			pH Units	1	B3H0822	08/08/2023	08/09/2023	
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SAR by 20B Saturated Paste

SAR	8.93			SAR	1	B3H0809	08/08/2023	08/09/2023	
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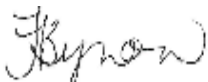
Specific Conductance Mod. 9050A

Specific Conductance (EC)	5.91		0.00500	mmhos/cm	1	B3H0822	08/08/2023	08/09/2023	
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Table 915 metals by EPA 6020B

Arsenic	3.29		0.0901	mg/kg	10	B3H0228	08/02/2023	08/08/2023	
Barium	844		9.01	"	"	"	"	"	
Cadmium	0.175		0.0901	"	"	"	"	"	

Origins Laboratory, Inc.



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Absaroka
 112 High St.
 Buffalo WY 82834

Joel Mason
 Project Number: FEO.CO.0701.33
 Project: FEO - Damfino Delineation

SD12 @ 12"

7/31/2023 12:30:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y308042-12 (Soil)

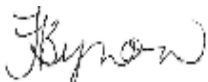
Table 915 metals by EPA 6020B

Copper	14.7		9.01	mg/kg	10	B3H0228	08/02/2023	08/08/2023	
Lead	9.05		9.01	"	"	"	"	"	
Nickel	14.6		9.01	"	"	"	"	"	
Selenium	0.194		0.0901	"	"	"	"	"	
Silver	ND		0.0901	"	"	"	"	"	
Zinc	ND		90.1	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L697014	07/31/2023	08/06/2023	
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Origins Laboratory, Inc.



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Absaroka
 112 High St.
 Buffalo WY 82834

Joel Mason
 Project Number: FEO.CO.0701.33
 Project: FEO - Damfino Delineation

SD13 @ 24"
7/31/2023 12:30:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y308042-13 (Soil)

Boron (DTPA Sorbitol)

Boron	0.134		0.0999	mg/L	1	B3H0805	08/08/2023	08/09/2023	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B3H0318	08/03/2023	08/04/2023	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

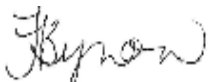
Surrogate: <i>o</i> -Terphenyl	107 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B3H0334	08/03/2023	08/08/2023	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	99.7 %		70-130			"	"	"	
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Origins Laboratory, Inc.



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Absaroka
112 High St.
Buffalo WY 82834

Joel Mason
Project Number: FEO.CO.0701.33
Project: FEO - Damfino Delineation

SD13 @ 24"

7/31/2023 12:30:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y308042-13 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	91.5 %		70-130			B3H03 34	08/03/2023	08/08/2023	
Surrogate: 4-Bromofluorobenzene	89.5 %		70-130			"	"	"	

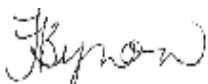
Metals by Saturated Paste by EPA 6010

Calcium	2.62		0.499	meq/L	10	[CALC]	08/08/2023	08/09/2023	
Magnesium	1.12		0.823	"	"	"	"	"	
Sodium	0.913		0.435	"	"	"	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00109	0.00201	mg/Kg	1	L696748	08/04/2023	08/04/2023	
2-Methylnaphthalene	ND	0.00194	0.00201	"	"	"	"	"	
Acenaphthene	0.000942	0.000304	0.00067	"	"	"	"	"	
Anthracene	0.00212	0.000334	0.00067	"	"	"	"	"	
Benzo(a)anthracene	ND	0.000493	0.00067	"	"	"	"	"	
Benzo(a)pyrene	ND	0.000468	0.00067	"	"	"	"	"	
Benzo(b)fluoranthene	ND	0.000585	0.00067	"	"	"	"	"	
Benzo(k)fluoranthene	ND	0.000437	0.00067	"	"	"	"	"	
Chrysene	ND	0.000624	0.00067	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"	
Fluoranthene	0.000412	0.000394	0.00067	"	"	"	"	"	J
Fluorene	0.0035	0.000286	0.00067	"	"	"	"	"	

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Absaroka
 112 High St.
 Buffalo WY 82834

Joel Mason
 Project Number: FEO.CO.0701.33
 Project: FEO - Damfino Delineation

SD13 @ 24"
7/31/2023 12:30:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.
Y308042-13 (Soil)

PAH by 8270D SIM

Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	mg/Kg	1	L696748	08/04/2023	08/04/2023	
Naphthalene	ND	0.00145	0.00201	"	"	"	"	"	
Pyrene	0.00608	0.000643	0.00067	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	67.2 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	79.8 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	53.9 %		29-110			"	"	"	

pH in Soil by 9045D

pH	8.10			pH Units	1	B3H0822	08/08/2023	08/09/2023	
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SAR by 20B Saturated Paste

SAR	0.668			SAR	1	B3H0809	08/08/2023	08/09/2023	
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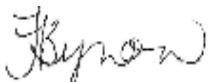
Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.587		0.00500	mmhos/cm	1	B3H0822	08/08/2023	08/09/2023	
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Table 915 metals by EPA 6020B

Arsenic	4.06		0.0969	mg/kg	10	B3H0228	08/02/2023	08/08/2023	
Barium	218		9.69	"	"	"	"	"	

Origins Laboratory, Inc.



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Absaroka
 112 High St.
 Buffalo WY 82834

Joel Mason
 Project Number: FEO.CO.0701.33
 Project: FEO - Damfino Delineation

SD13 @ 24"

7/31/2023 12:30:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y308042-13 (Soil)

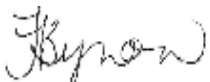
Table 915 metals by EPA 6020B

Cadmium	0.281		0.0969	mg/kg	10	B3H0228	08/02/2023	08/08/2023	
Copper	21.7		9.69	"	"	"	"	"	
Lead	10.6		9.69	"	"	"	"	"	
Nickel	19.3		9.69	"	"	"	"	"	
Selenium	0.383		0.0969	"	"	"	"	"	
Silver	ND		0.0969	"	"	"	"	"	
Zinc	ND		96.9	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L697014	07/31/2023	08/06/2023	
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Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Absaroka
 112 High St.
 Buffalo WY 82834

Joel Mason
 Project Number: FEO.CO.0701.33
 Project: FEO - Damfino Delineation

SDSP1 @ 6"

7/31/2023 10:15:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.
 Y308042-14 (Soil)**

Boron (DTPA Sorbitol)

Boron	7.66		0.0998	mg/L	1	B3H0805	08/08/2023	08/09/2023	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	181		25.0	mg/kg	1	B3H0318	08/03/2023	08/04/2023	
Residual Range Organics (C28-C40)	490		100	"	"	"	"	"	

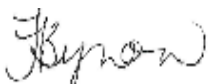
Surrogate: o-Terphenyl	114 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B3H0334	08/03/2023	08/08/2023	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Toluene	0.00240		0.00200	"	"	"	"	"	
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	96.7 %		70-130			"	"	"	
Surrogate: Toluene-d8	91.8 %		70-130			"	"	"	

Origins Laboratory, Inc.



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Absaroka
 112 High St.
 Buffalo WY 82834

Joel Mason
 Project Number: FEO.CO.0701.33
 Project: FEO - Damfino Delineation

SDSP1 @ 6"

7/31/2023 10:15:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y308042-14 (Soil)

GBTEX+TMBs by 8260D

Surrogate: 4-Bromofluorobenzene	91.5 %		70-130			B3H03 34	08/03/2023	08/08/2023	
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Metals by Saturated Paste by EPA 6010

Calcium	2.65		0.499	meq/L	10	[CALC]	08/08/2023	08/09/2023	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	14.5		0.435	"	"	"	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	0.00109	0.00109	0.00201	mg/Kg	1	L696748	08/04/2023	08/04/2023	J
2-Methylnaphthalene	ND	0.00194	0.00201	"	"	"	"	"	
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"	
Anthracene	0.000658	0.000334	0.00067	"	"	"	"	"	J
Benzo(a)anthracene	ND	0.000493	0.00067	"	"	"	"	"	
Benzo(a)pyrene	ND	0.000468	0.00067	"	"	"	"	"	
Benzo(b)fluoranthene	ND	0.000585	0.00067	"	"	"	"	"	
Benzo(k)fluoranthene	ND	0.000437	0.00067	"	"	"	"	"	
Chrysene	ND	0.000624	0.00067	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"	
Fluoranthene	ND	0.000394	0.00067	"	"	"	"	"	
Fluorene	0.00109	0.000286	0.00067	"	"	"	"	"	

Origins Laboratory, Inc.

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Absaroka
 112 High St.
 Buffalo WY 82834

Joel Mason
 Project Number: FEO.CO.0701.33
 Project: FEO - Damfino Delineation

SDSP1 @ 6"
7/31/2023 10:15:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.
Y308042-14 (Soil)

PAH by 8270D SIM

Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	mg/Kg	1	L696748	08/04/2023	08/04/2023	
Naphthalene	ND	0.00145	0.00201	"	"	"	"	"	
Pyrene	0.00226	0.000643	0.00067	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	54.2 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	36.4 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	44 %		29-110			"	"	"	

pH in Soil by 9045D

pH	8.18			pH Units	1	B3H0822	08/08/2023	08/09/2023	
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SAR by 20B Saturated Paste

SAR	11.3			SAR	1	B3H0809	08/08/2023	08/09/2023	
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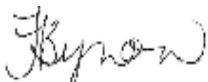
Specific Conductance Mod. 9050A

Specific Conductance (EC)	2.43		0.00500	mmhos/cm	1	B3H0822	08/08/2023	08/09/2023	
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Table 915 metals by EPA 6020B

Arsenic	2.93		0.0868	mg/kg	10	B3H0228	08/02/2023	08/08/2023	
Barium	458		8.68	"	"	"	"	"	

Origins Laboratory, Inc.



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Absaroka
 112 High St.
 Buffalo WY 82834

Joel Mason
 Project Number: FEO.CO.0701.33
 Project: FEO - Damfino Delineation

SDSP1 @ 6"

7/31/2023 10:15:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y308042-14 (Soil)

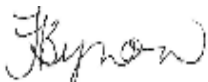
Table 915 metals by EPA 6020B

Cadmium	0.190		0.0868	mg/kg	10	B3H0228	08/02/2023	08/08/2023	
Copper	14.3		8.68	"	"	"	"	"	
Lead	10.4		8.68	"	"	"	"	"	
Nickel	13.3		8.68	"	"	"	"	"	
Selenium	0.153		0.0868	"	"	"	"	"	
Silver	ND		0.0868	"	"	"	"	"	
Zinc	ND		86.8	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.247	0.507	mg/Kg	1	L697014	07/31/2023	08/06/2023	
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Origins Laboratory, Inc.



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Absaroka
 112 High St.
 Buffalo WY 82834

Joel Mason
 Project Number: FEO.CO.0701.33
 Project: FEO - Damfino Delineation

SDSP2 @ 6"

7/31/2023 10:20:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.
 Y308042-15 (Soil)**

Boron (DTPA Sorbitol)

Boron	2.50		0.101	mg/L	1	B3H0805	08/08/2023	08/09/2023	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	25.1		25.0	mg/kg	1	B3H0318	08/03/2023	08/04/2023	
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

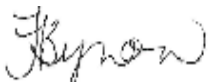
Surrogate: <i>o</i> -Terphenyl	107 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B3H0334	08/03/2023	08/08/2023	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	97.3 %		70-130			"	"	"	
Surrogate: Toluene-d8	92.0 %		70-130			"	"	"	

Origins Laboratory, Inc.



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Absaroka
 112 High St.
 Buffalo WY 82834

Joel Mason
 Project Number: FEO.CO.0701.33
 Project: FEO - Damfino Delineation

SDSP2 @ 6"

7/31/2023 10:20:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.
 Y308042-15 (Soil)**

GBTEX+TMBs by 8260D

Surrogate: 4-Bromofluorobenzene	88.8 %		70-130			B3H03 34	08/03/2023	08/08/2023	
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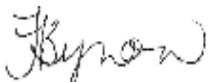
Metals by Saturated Paste by EPA 6010

Calcium	4.37		0.499	meq/L	10	[CALC]	08/08/2023	08/09/2023	
Magnesium	1.72		0.823	"	"	"	"	"	
Sodium	10.5		0.435	"	"	"	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00109	0.00201	mg/Kg	1	L696748	08/04/2023	08/04/2023	
2-Methylnaphthalene	ND	0.00194	0.00201	"	"	"	"	"	
Acenaphthene	0.0016	0.000304	0.00067	"	"	"	"	"	
Anthracene	0.00354	0.000334	0.00067	"	"	"	"	"	
Benzo(a)anthracene	0.00101	0.000493	0.00067	"	"	"	"	"	
Benzo(a)pyrene	ND	0.000468	0.00067	"	"	"	"	"	
Benzo(b)fluoranthene	ND	0.000585	0.00067	"	"	"	"	"	
Benzo(k)fluoranthene	ND	0.000437	0.00067	"	"	"	"	"	
Chrysene	0.00159	0.000624	0.00067	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"	
Fluoranthene	0.00072	0.000394	0.00067	"	"	"	"	"	
Fluorene	0.0053	0.000286	0.00067	"	"	"	"	"	
Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	"	"	"	"	"	

Origins Laboratory, Inc.



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Absaroka
 112 High St.
 Buffalo WY 82834

Joel Mason
 Project Number: FEO.CO.0701.33
 Project: FEO - Damfino Delineation

SDSP2 @ 6"

7/31/2023 10:20:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Waypoint Analytical, LLC.
 Y308042-15 (Soil)**

PAH by 8270D SIM

Naphthalene	ND	0.00145	0.00201	mg/Kg	1	L696748	08/04/2023	08/04/2023	
Pyrene	0.0118	0.000643	0.00067	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	70.5 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	67.7 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	54.2 %		29-110			"	"	"	

pH in Soil by 9045D

pH	8.10			pH Units	1	B3H0822	08/08/2023	08/09/2023	
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SAR by 20B Saturated Paste

SAR	6.00			SAR	1	B3H0809	08/08/2023	08/09/2023	
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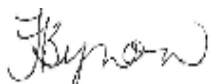
Specific Conductance Mod. 9050A

Specific Conductance (EC)	1.96		0.00500	mmhos/cm	1	B3H0822	08/08/2023	08/09/2023	
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Table 915 metals by EPA 6020B

Arsenic	3.51		0.0900	mg/kg	10	B3H0228	08/02/2023	08/08/2023	
Barium	473		9.00	"	"	"	"	"	
Cadmium	0.169		0.0900	"	"	"	"	"	

Origins Laboratory, Inc.



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Absaroka
 112 High St.
 Buffalo WY 82834

Joel Mason
 Project Number: FEO.CO.0701.33
 Project: FEO - Damfino Delineation

SDSP2 @ 6"

7/31/2023 10:20:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.
 Y308042-15 (Soil)**

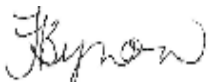
Table 915 metals by EPA 6020B

Copper	14.8		9.00	mg/kg	10	B3H0228	08/02/2023	08/08/2023	
Lead	9.89		9.00	"	"	"	"	"	
Nickel	13.7		9.00	"	"	"	"	"	
Selenium	0.111		0.0900	"	"	"	"	"	
Silver	ND		0.0900	"	"	"	"	"	
Zinc	ND		90.0	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L697014	07/31/2023	08/06/2023	
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Origins Laboratory, Inc.



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Absaroka
 112 High St.
 Buffalo WY 82834

Joel Mason
 Project Number: FEO.CO.0701.33
 Project: FEO - Damfino Delineation

SD WH2 N @ 48"
8/1/2023 11:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y308042-16 (Soil)

Boron (DTPA Sorbitol)

Boron	ND		0.0985	mg/L	1	B3H0415	08/04/2023	08/07/2023	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B3H0318	08/03/2023	08/04/2023	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

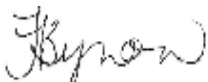
Surrogate: *o*-Terphenyl 114 % 50-150 " " "

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B3H0331	08/03/2023	08/04/2023	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 108 % 70-130 " " "

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Absaroka
112 High St.
Buffalo WY 82834

Joel Mason
Project Number: FEO.CO.0701.33
Project: FEO - Damfino Delineation

SD WH2 N @ 48"
8/1/2023 11:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y308042-16 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	96.3 %		70-130			B3H03 31	08/03/2023	08/04/2023	
Surrogate: 4-Bromofluorobenzene	99.9 %		70-130			"	"	"	

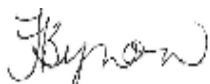
Metals by Saturated Paste by EPA 6010

Calcium	16.4		0.499	meq/L	10	[CALC]	08/04/2023	08/07/2023	
Magnesium	6.13		0.823	"	"	"	"	"	
Sodium	4.08		0.435	"	"	"	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	0.00362	0.00109	0.00201	mg/Kg	1	L696780	08/04/2023	08/04/2023	
2-Methylnaphthalene	0.00379	0.00194	0.00201	"	"	"	"	"	
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"	
Anthracene	ND	0.000334	0.00067	"	"	"	"	"	
Benzo(a)anthracene	ND	0.000493	0.00067	"	"	"	"	"	
Benzo(a)pyrene	ND	0.000468	0.00067	"	"	"	"	"	
Benzo(b)fluoranthene	ND	0.000585	0.00067	"	"	"	"	"	
Benzo(k)fluoranthene	ND	0.000437	0.00067	"	"	"	"	"	
Chrysene	ND	0.000624	0.00067	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"	
Fluoranthene	ND	0.000394	0.00067	"	"	"	"	"	
Fluorene	0.000978	0.000286	0.00067	"	"	"	"	"	

Origins Laboratory, Inc.



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Absaroka
 112 High St.
 Buffalo WY 82834

Joel Mason
 Project Number: FEO.CO.0701.33
 Project: FEO - Damfino Delineation

SD WH2 N @ 48"
8/1/2023 11:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.
Y308042-16 (Soil)

PAH by 8270D SIM

Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	mg/Kg	1	L696780	08/04/2023	08/04/2023	
Naphthalene	0.00234	0.00145	0.00201	"	"	"	"	"	
Pyrene	0.00117	0.000643	0.00067	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	58.4 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	75.3 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	57.2 %		29-110			"	"	"	

pH in Soil by 9045D

pH	6.73			pH Units	1	B3H0420	08/04/2023	08/05/2023	
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SAR by 20B Saturated Paste

SAR	1.22			SAR	1	B3H0410	08/04/2023	08/07/2023	
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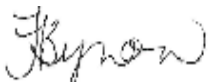
Specific Conductance Mod. 9050A

Specific Conductance (EC)	3.31		0.00500	mmhos/cm	1	B3H0420	08/04/2023	08/05/2023	
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Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L697014	07/31/2023	08/06/2023	
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Origins Laboratory, Inc.



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Absaroka
 112 High St.
 Buffalo WY 82834

Joel Mason
 Project Number: FEO.CO.0701.33
 Project: FEO - Damfino Delineation

SD WH2 N @ 48"
8/1/2023 11:00:00AM

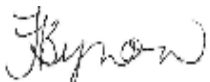
Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.
Y308042-16 (Soil)

Total Metals by 6020B

Arsenic	1.27	0.0855	0.25	mg/Kg	5	L698181	08/11/2023	08/14/2023	
Barium	115	0.214	1.25	"	25	"	"	08/15/2023	
Cadmium	0.145	0.026	0.25	"	5	"	"	08/14/2023	J
Copper	19.2	0.0805	0.25	"	"	"	"	"	
Lead	6.09	0.031	0.25	"	"	"	"	"	
Nickel	15.8	0.0635	0.25	"	"	"	"	"	
Selenium	0.712	0.103	0.25	"	"	"	"	"	
Silver	0.0548	0.0067	0.25	"	"	"	"	"	JB
Zinc	56.2	0.535	2.5	"	"	"	"	"	

Origins Laboratory, Inc.



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Absaroka
 112 High St.
 Buffalo WY 82834

Joel Mason
 Project Number: FEO.CO.0701.33
 Project: FEO - Damfino Delineation

SD WH3 SE @ 48"
8/1/2023 11:10:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y308042-17 (Soil)

Boron (DTPA Sorbitol)

Boron	0.247		0.0993	mg/L	1	B3H0415	08/04/2023	08/07/2023	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	349		25.0	mg/kg	1	B3H0318	08/03/2023	08/04/2023	
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

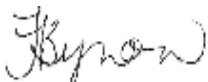
Surrogate: <i>o</i> -Terphenyl	116 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B3H0331	08/03/2023	08/04/2023	U
1,3,5-Trimethylbenzene	0.00274		0.00200	"	"	"	"	"	
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	0.986		0.200	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	109 %		70-130			"	"	"	
Surrogate: Toluene-d8	92.4 %		70-130			"	"	"	

Origins Laboratory, Inc.



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Absaroka
112 High St.
Buffalo WY 82834

Joel Mason
Project Number: FEO.CO.0701.33
Project: FEO - Damfino Delineation

SD WH3 SE @ 48"
8/1/2023 11:10:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y308042-17 (Soil)

GBTEX+TMBs by 8260D

Surrogate: 4-Bromofluorobenzene	100 %		70-130			B3H03 31	08/03/2023	08/04/2023	
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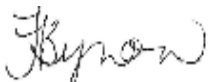
Metals by Saturated Paste by EPA 6010

Calcium	12.3		0.499	meq/L	10	[CALC]	08/04/2023	08/07/2023	
Magnesium	4.19		0.823	"	"	"	"	"	
Sodium	13.2		0.435	"	"	"	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	0.0769	0.00549	0.0101	mg/Kg	5	L696780	08/04/2023	08/04/2023	
2-Methylnaphthalene	0.0486	0.00972	0.0101	"	"	"	"	"	
Acenaphthene	0.0169	0.00152	0.00335	"	"	"	"	"	
Anthracene	0.00472	0.00167	0.00335	"	"	"	"	"	
Benzo(a)anthracene	0.00578	0.00247	0.00335	"	"	"	"	"	
Benzo(a)pyrene	0.00501	0.00234	0.00335	"	"	"	"	"	
Benzo(b)fluoranthene	ND	0.00293	0.00335	"	"	"	"	"	
Benzo(k)fluoranthene	ND	0.00219	0.00335	"	"	"	"	"	
Chrysene	0.0143	0.00312	0.00335	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.00307	0.00335	"	"	"	"	"	
Fluoranthene	ND	0.00197	0.00335	"	"	"	"	"	
Fluorene	0.031	0.00143	0.00335	"	"	"	"	"	
Indeno(1,2,3-cd)pyrene	ND	0.00314	0.00335	"	"	"	"	"	

Origins Laboratory, Inc.



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Absaroka
 112 High St.
 Buffalo WY 82834

Joel Mason
 Project Number: FEO.CO.0701.33
 Project: FEO - Damfino Delineation

SD WH3 SE @ 48"
8/1/2023 11:10:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.
Y308042-17 (Soil)

PAH by 8270D SIM

Naphthalene	0.0335	0.0073	0.0101	mg/Kg	5	L696780	08/04/2023	08/04/2023	
Pyrene	0.0245	0.00322	0.00335	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	62.1 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	64.2 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	59.1 %		29-110			"	"	"	

pH in Soil by 9045D

pH	7.31			pH Units	1	B3H0420	08/04/2023	08/05/2023	
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SAR by 20B Saturated Paste

SAR	4.60			SAR	1	B3H0410	08/04/2023	08/07/2023	
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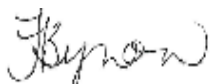
Specific Conductance Mod. 9050A

Specific Conductance (EC)	3.63		0.00500	mmhos/cm	1	B3H0420	08/04/2023	08/05/2023	
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Table 915 metals by EPA 6020B

Arsenic	4.17		0.0960	mg/kg	10	B3H0228	08/02/2023	08/08/2023	
Barium	2040		9.60	"	"	"	"	"	
Cadmium	0.424		0.0960	"	"	"	"	"	

Origins Laboratory, Inc.



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Absaroka
 112 High St.
 Buffalo WY 82834

Joel Mason
 Project Number: FEO.CO.0701.33
 Project: FEO - Damfino Delineation

SD WH3 SE @ 48"
8/1/2023 11:10:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y308042-17 (Soil)

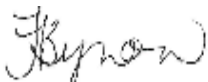
Table 915 metals by EPA 6020B

Copper	24.3		9.60	mg/kg	10	B3H0228	08/02/2023	08/08/2023	
Lead	9.71		9.60	"	"	"	"	"	
Nickel	17.7		9.60	"	"	"	"	"	
Selenium	0.634		0.0960	"	"	"	"	"	
Silver	ND		0.0960	"	"	"	"	"	
Zinc	ND		96.0	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L697015	07/31/2023	08/08/2023	
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Origins Laboratory, Inc.



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Absaroka
 112 High St.
 Buffalo WY 82834

Joel Mason
 Project Number: FEO.CO.0701.33
 Project: FEO - Damfino Delineation

SD WH1 E @ 24"
8/1/2023 11:10:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y308042-18 (Soil)

Boron (DTPA Sorbitol)

Boron	0.182		0.0986	mg/L	1	B3H0415	08/04/2023	08/07/2023	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	337		25.0	mg/kg	1	B3H0318	08/03/2023	08/04/2023	
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

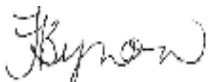
Surrogate: <i>o</i> -Terphenyl	116 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B3H0331	08/03/2023	08/04/2023	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	3.49		0.200	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	108 %		70-130			"	"	"	
Surrogate: Toluene-d8	93.0 %		70-130			"	"	"	

Origins Laboratory, Inc.



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Absaroka
 112 High St.
 Buffalo WY 82834

Joel Mason
 Project Number: FEO.CO.0701.33
 Project: FEO - Damfino Delineation

SD WH1 E @ 24"
8/1/2023 11:10:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y308042-18 (Soil)

GBTEX+TMBs by 8260D

Surrogate: 4-Bromofluorobenzene	101 %		70-130			B3H03 31	08/03/2023	08/04/2023	
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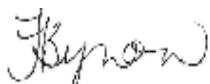
Metals by Saturated Paste by EPA 6010

Calcium	7.87		0.499	meq/L	10	[CALC]	08/04/2023	08/07/2023	
Magnesium	2.80		0.823	"	"	"	"	"	
Sodium	21.6		0.435	"	"	"	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00549	0.0101	mg/Kg	5	L696780	08/04/2023	08/04/2023	
2-Methylnaphthalene	ND	0.00972	0.0101	"	"	"	"	"	
Acenaphthene	0.00588	0.00152	0.00335	"	"	"	"	"	
Anthracene	0.00846	0.00167	0.00335	"	"	"	"	"	
Benzo(a)anthracene	ND	0.00247	0.00335	"	"	"	"	"	
Benzo(a)pyrene	ND	0.00234	0.00335	"	"	"	"	"	
Benzo(b)fluoranthene	ND	0.00293	0.00335	"	"	"	"	"	
Benzo(k)fluoranthene	ND	0.00219	0.00335	"	"	"	"	"	
Chrysene	0.00401	0.00312	0.00335	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.00307	0.00335	"	"	"	"	"	
Fluoranthene	0.00665	0.00197	0.00335	"	"	"	"	"	
Fluorene	ND	0.00143	0.00335	"	"	"	"	"	

Origins Laboratory, Inc.



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Absaroka
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 Buffalo WY 82834

Joel Mason
 Project Number: FEO.CO.0701.33
 Project: FEO - Damfino Delineation

SD WH1 E @ 24"
8/1/2023 11:10:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.
Y308042-18 (Soil)

PAH by 8270D SIM

Indeno(1,2,3-cd)pyrene	ND	0.00314	0.00335	mg/Kg	5	L696780	08/04/2023	08/04/2023	
Naphthalene	ND	0.0073	0.0101	"	"	"	"	"	
Pyrene	0.0497	0.00322	0.00335	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	68.4 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	79.9 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	60.2 %		29-110			"	"	"	

pH in Soil by 9045D

pH	6.97			pH Units	1	B3H0420	08/04/2023	08/05/2023	
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SAR by 20B Saturated Paste

SAR	9.34			SAR	1	B3H0410	08/04/2023	08/07/2023	
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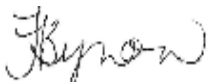
Specific Conductance Mod. 9050A

Specific Conductance (EC)	3.64		0.00500	mmhos/cm	1	B3H0420	08/04/2023	08/05/2023	
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Table 915 metals by EPA 6020B

Arsenic	4.27		0.0835	mg/kg	10	B3H0228	08/02/2023	08/08/2023	
Barium	228		8.35	"	"	"	"	"	

Origins Laboratory, Inc.



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Absaroka
 112 High St.
 Buffalo WY 82834

Joel Mason
 Project Number: FEO.CO.0701.33
 Project: FEO - Damfino Delineation

SD WH1 E @ 24"
8/1/2023 11:10:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y308042-18 (Soil)

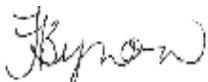
Table 915 metals by EPA 6020B

Cadmium	0.317		0.0835	mg/kg	10	B3H0228	08/02/2023	08/08/2023	
Copper	24.1		8.35	"	"	"	"	"	
Lead	11.3		8.35	"	"	"	"	"	
Nickel	20.9		8.35	"	"	"	"	"	
Selenium	0.364		0.0835	"	"	"	"	"	
Silver	ND		0.0835	"	"	"	"	"	
Zinc	ND		83.5	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L697015	07/31/2023	08/08/2023	
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Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Absaroka
 112 High St.
 Buffalo WY 82834

Joel Mason
 Project Number: FEO.CO.0701.33
 Project: FEO - Damfino Delineation

SD WH5 SW @ 48"
8/1/2023 11:15:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y308042-19 (Soil)

Boron (DTPA Sorbitol)

Boron	0.388		0.0987	mg/L	1	B3H0415	08/04/2023	08/07/2023	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B3H0318	08/03/2023	08/04/2023	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

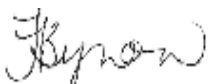
Surrogate: o-Terphenyl	84.8 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B3H0331	08/03/2023	08/04/2023	U
1,3,5-Trimethylbenzene	0.00280		0.00200	"	"	"	"	"	
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	1.88		0.200	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	108 %		70-130			"	"	"	
Surrogate: Toluene-d8	95.9 %		70-130			"	"	"	

Origins Laboratory, Inc.



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Absaroka
 112 High St.
 Buffalo WY 82834

Joel Mason
 Project Number: FEO.CO.0701.33
 Project: FEO - Damfino Delineation

SD WH5 SW @ 48"
8/1/2023 11:15:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y308042-19 (Soil)

GBTEX+TMBs by 8260D

Surrogate: 4-Bromofluorobenzene	101 %		70-130			B3H03 31	08/03/2023	08/04/2023	
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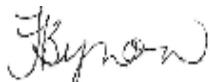
Metals by Saturated Paste by EPA 6010

Calcium	ND		0.499	meq/L	10	[CALC]	08/04/2023	08/07/2023	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	11.5		0.435	"	"	"	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	0.0109	0.00109	0.00201	mg/Kg	1	L696780	08/04/2023	08/04/2023	
2-Methylnaphthalene	0.00392	0.00194	0.00201	"	"	"	"	"	
Acenaphthene	0.00309	0.000304	0.00067	"	"	"	"	"	
Anthracene	0.00127	0.000334	0.00067	"	"	"	"	"	
Benzo(a)anthracene	ND	0.000493	0.00067	"	"	"	"	"	
Benzo(a)pyrene	ND	0.000468	0.00067	"	"	"	"	"	
Benzo(b)fluoranthene	ND	0.000585	0.00067	"	"	"	"	"	
Benzo(k)fluoranthene	ND	0.000437	0.00067	"	"	"	"	"	
Chrysene	0.000804	0.000624	0.00067	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"	
Fluoranthene	0.0007	0.000394	0.00067	"	"	"	"	"	
Fluorene	0.00498	0.000286	0.00067	"	"	"	"	"	
Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	"	"	"	"	"	

Origins Laboratory, Inc.



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Absaroka
 112 High St.
 Buffalo WY 82834

Joel Mason
 Project Number: FEO.CO.0701.33
 Project: FEO - Damfino Delineation

SD WH5 SW @ 48"
8/1/2023 11:15:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.
Y308042-19 (Soil)

PAH by 8270D SIM

Naphthalene	0.00145	0.00145	0.00201	mg/Kg	1	L696780	08/04/2023	08/04/2023	J
Pyrene	0.00618	0.000643	0.00067	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	60.2 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	91.3 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	56.9 %		29-110			"	"	"	

pH in Soil by 9045D

pH	8.10			pH Units	1	B3H0420	08/04/2023	08/05/2023	
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SAR by 20B Saturated Paste

SAR	22.3			SAR	1	B3H0410	08/04/2023	08/07/2023	
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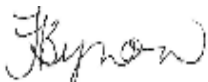
Specific Conductance Mod. 9050A

Specific Conductance (EC)	1.13		0.00500	mmhos/cm	1	B3H0420	08/04/2023	08/05/2023	
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Table 915 metals by EPA 6020B

Arsenic	3.79		0.0953	mg/kg	10	B3H0228	08/02/2023	08/08/2023	
Barium	258		9.53	"	"	"	"	"	
Cadmium	0.266		0.0953	"	"	"	"	"	

Origins Laboratory, Inc.



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Absaroka
 112 High St.
 Buffalo WY 82834

Joel Mason
 Project Number: FEO.CO.0701.33
 Project: FEO - Damfino Delineation

SD WH5 SW @ 48"
8/1/2023 11:15:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y308042-19 (Soil)

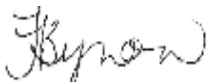
Table 915 metals by EPA 6020B

Copper	21.4		9.53	mg/kg	10	B3H0228	08/02/2023	08/08/2023	
Lead	9.98		9.53	"	"	"	"	"	
Nickel	17.7		9.53	"	"	"	"	"	
Selenium	0.325		0.0953	"	"	"	"	"	
Silver	ND		0.0953	"	"	"	"	"	
Zinc	ND		95.3	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L697015	07/31/2023	08/08/2023	
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Origins Laboratory, Inc.



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Absaroka
 112 High St.
 Buffalo WY 82834

Joel Mason
 Project Number: FEO.CO.0701.33
 Project: FEO - Damfino Delineation

SD WH4 S @ 48"
8/1/2023 11:20:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y308042-20 (Soil)

Boron (DTPA Sorbitol)

Boron	0.324		0.0986	mg/L	1	B3H0415	08/04/2023	08/07/2023	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B3H0318	08/03/2023	08/04/2023	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

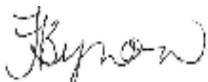
Surrogate: o-Terphenyl	94.5 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B3H0331	08/03/2023	08/04/2023	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	104 %		70-130			"	"	"	
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Absaroka
 112 High St.
 Buffalo WY 82834

Joel Mason
 Project Number: FEO.CO.0701.33
 Project: FEO - Damfino Delineation

SD WH4 S @ 48"
8/1/2023 11:20:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y308042-20 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	95.1 %		70-130			B3H03 31	08/03/2023	08/04/2023	
Surrogate: 4-Bromofluorobenzene	101 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	ND		0.499	meq/L	10	[CALC]	08/04/2023	08/07/2023	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	5.14		0.435	"	"	"	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	0.00863	0.00109	0.00201	mg/Kg	1	L696780	08/04/2023	08/04/2023	
2-Methylnaphthalene	0.00807	0.00194	0.00201	"	"	"	"	"	
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"	
Anthracene	ND	0.000334	0.00067	"	"	"	"	"	
Benzo(a)anthracene	ND	0.000493	0.00067	"	"	"	"	"	
Benzo(a)pyrene	ND	0.000468	0.00067	"	"	"	"	"	
Benzo(b)fluoranthene	ND	0.000585	0.00067	"	"	"	"	"	
Benzo(k)fluoranthene	ND	0.000437	0.00067	"	"	"	"	"	
Chrysene	ND	0.000624	0.00067	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"	
Fluoranthene	ND	0.000394	0.00067	"	"	"	"	"	

Origins Laboratory, Inc.

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Absaroka
 112 High St.
 Buffalo WY 82834

Joel Mason
 Project Number: FEO.CO.0701.33
 Project: FEO - Damfino Delineation

SD WH4 S @ 48"
8/1/2023 11:20:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.
Y308042-20 (Soil)

PAH by 8270D SIM

Fluorene	0.0011	0.000286	0.00067	mg/Kg	1	L696780	08/04/2023	08/04/2023	
Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	"	"	"	"	"	
Naphthalene	0.00279	0.00145	0.00201	"	"	"	"	"	
Pyrene	ND	0.000643	0.00067	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	63.4 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	84 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	57.8 %		29-110			"	"	"	

pH in Soil by 9045D

pH	8.15			pH Units	1	B3H0420	08/04/2023	08/05/2023	
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SAR by 20B Saturated Paste

SAR	12.5			SAR	1	B3H0410	08/04/2023	08/07/2023	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.590		0.00500	mmhos/cm	1	B3H0420	08/04/2023	08/05/2023	
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Table 915 metals by EPA 6020B

Arsenic	3.85		0.0956	mg/kg	10	B3H0228	08/02/2023	08/08/2023	
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Origins Laboratory, Inc.

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Absaroka
 112 High St.
 Buffalo WY 82834

Joel Mason
 Project Number: FEO.CO.0701.33
 Project: FEO - Damfino Delineation

SD WH4 S @ 48"
8/1/2023 11:20:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y308042-20 (Soil)

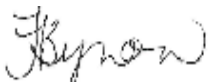
Table 915 metals by EPA 6020B

Barium	204		9.56	mg/kg	10	B3H0228	08/02/2023	08/08/2023	
Cadmium	0.318		0.0956	"	"	"	"	"	
Copper	21.9		9.56	"	"	"	"	"	
Lead	10.2		9.56	"	"	"	"	"	
Nickel	18.7		9.56	"	"	"	"	"	
Selenium	0.330		0.0956	"	"	"	"	"	
Silver	ND		0.0956	"	"	"	"	"	
Zinc	ND		95.6	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L697015	07/31/2023	08/08/2023	
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Origins Laboratory, Inc.



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Absaroka
 112 High St.
 Buffalo WY 82834

Joel Mason
 Project Number: FEO.CO.0701.33
 Project: FEO - Damfino Delineation

SD8 @ 48"
8/1/2023 11:25:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y308042-21 (Soil)

Boron (DTPA Sorbitol)

Boron	0.165		0.0988	mg/L	1	B3H0805	08/08/2023	08/09/2023	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B3H0319	08/03/2023	08/04/2023	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	91.0 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	0.00306		0.00200	mg/kg	1	B3H0331	08/03/2023	08/04/2023	
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	0.00348		0.00200	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	105 %		70-130			"	"	"	
Surrogate: Toluene-d8	95.4 %		70-130			"	"	"	

Origins Laboratory, Inc.

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Absaroka
 112 High St.
 Buffalo WY 82834

Joel Mason
 Project Number: FEO.CO.0701.33
 Project: FEO - Damfino Delineation

SD8 @ 48"

8/1/2023 11:25:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y308042-21 (Soil)

GBTEX+TMBs by 8260D

Surrogate: 4-Bromofluorobenzene	99.0 %		70-130			B3H03 31	08/03/2023	08/04/2023	
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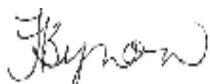
Metals by Saturated Paste by EPA 6010

Calcium	ND		0.499	meq/L	10	[CALC]	08/08/2023	08/09/2023	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	2.73		0.435	"	"	"	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00109	0.00201	mg/Kg	1	L696780	08/04/2023	08/04/2023	
2-Methylnaphthalene	ND	0.00194	0.00201	"	"	"	"	"	
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"	
Anthracene	ND	0.000334	0.00067	"	"	"	"	"	
Benzo(a)anthracene	ND	0.000493	0.00067	"	"	"	"	"	
Benzo(a)pyrene	ND	0.000468	0.00067	"	"	"	"	"	
Benzo(b)fluoranthene	ND	0.000585	0.00067	"	"	"	"	"	
Benzo(k)fluoranthene	ND	0.000437	0.00067	"	"	"	"	"	
Chrysene	ND	0.000624	0.00067	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"	
Fluoranthene	ND	0.000394	0.00067	"	"	"	"	"	
Fluorene	ND	0.000286	0.00067	"	"	"	"	"	

Origins Laboratory, Inc.



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Absaroka
 112 High St.
 Buffalo WY 82834

Joel Mason
 Project Number: FEO.CO.0701.33
 Project: FEO - Damfino Delineation

SD8 @ 48"
8/1/2023 11:25:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.
Y308042-21 (Soil)

PAH by 8270D SIM

Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	mg/Kg	1	L696780	08/04/2023	08/04/2023	
Naphthalene	ND	0.00145	0.00201	"	"	"	"	"	
Pyrene	ND	0.000643	0.00067	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	61.7 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	83.6 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	57.1 %		29-110			"	"	"	

pH in Soil by 9045D

pH	7.80			pH Units	1	B3H0822	08/08/2023	08/09/2023	
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SAR by 20B Saturated Paste

SAR	6.41			SAR	1	B3H0809	08/08/2023	08/09/2023	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.640		0.00500	mmhos/cm	1	B3H0822	08/08/2023	08/09/2023	
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Table 915 metals by EPA 6020B

Arsenic	3.73		0.0969	mg/kg	10	B3H0229	08/02/2023	08/03/2023	
Barium	192		9.69	"	"	"	"	"	

Origins Laboratory, Inc.

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Absaroka
 112 High St.
 Buffalo WY 82834

Joel Mason
 Project Number: FEO.CO.0701.33
 Project: FEO - Damfino Delineation

SD8 @ 48"

8/1/2023 11:25:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y308042-21 (Soil)

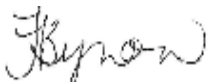
Table 915 metals by EPA 6020B

Cadmium	0.269		0.0969	mg/kg	10	B3H0229	08/02/2023	08/03/2023	
Copper	22.7		9.69	"	"	"	"	08/04/2023	
Lead	9.75		9.69	"	"	"	"	08/03/2023	
Nickel	17.9		9.69	"	"	"	"	"	
Selenium	0.258		0.0969	"	"	"	"	"	
Silver	ND		0.0969	"	"	"	"	"	
Zinc	ND		96.9	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L697015	07/31/2023	08/08/2023	
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Absaroka
 112 High St.
 Buffalo WY 82834

Joel Mason
 Project Number: FEO.CO.0701.33
 Project: FEO - Damfino Delineation

SD WH6 @ 60"
8/1/2023 11:30:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y308042-22 (Soil)

Boron (DTPA Sorbitol)

Boron	0.123		0.0994	mg/L	1	B3H0805	08/08/2023	08/09/2023	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B3H0319	08/03/2023	08/04/2023	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

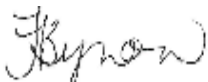
Surrogate: o-Terphenyl	87.6 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B3H0331	08/03/2023	08/04/2023	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	105 %		70-130			"	"	"	
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Origins Laboratory, Inc.



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Absaroka
112 High St.
Buffalo WY 82834

Joel Mason
Project Number: FEO.CO.0701.33
Project: FEO - Damfino Delineation

SD WH6 @ 60"
8/1/2023 11:30:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y308042-22 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	95.3 %		70-130			B3H03 31	08/03/2023	08/04/2023	
Surrogate: 4-Bromofluorobenzene	99.3 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	4.74		0.499	meq/L	10	[CALC]	08/08/2023	08/09/2023	
Magnesium	1.24		0.823	"	"	"	"	"	
Sodium	1.57		0.435	"	"	"	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	0.00151	0.00109	0.00201	mg/Kg	1	L696780	08/04/2023	08/04/2023	J
2-Methylnaphthalene	ND	0.00194	0.00201	"	"	"	"	"	
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"	
Anthracene	ND	0.000334	0.00067	"	"	"	"	"	
Benzo(a)anthracene	ND	0.000493	0.00067	"	"	"	"	"	
Benzo(a)pyrene	ND	0.000468	0.00067	"	"	"	"	"	
Benzo(b)fluoranthene	ND	0.000585	0.00067	"	"	"	"	"	
Benzo(k)fluoranthene	ND	0.000437	0.00067	"	"	"	"	"	
Chrysene	ND	0.000624	0.00067	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"	
Fluoranthene	ND	0.000394	0.00067	"	"	"	"	"	

Origins Laboratory, Inc.

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Absaroka
 112 High St.
 Buffalo WY 82834

Joel Mason
 Project Number: FEO.CO.0701.33
 Project: FEO - Damfino Delineation

SD WH6 @ 60"
8/1/2023 11:30:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.
Y308042-22 (Soil)

PAH by 8270D SIM

Fluorene	ND	0.000286	0.00067	mg/Kg	1	L696780	08/04/2023	08/04/2023	
Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	"	"	"	"	"	
Naphthalene	ND	0.00145	0.00201	"	"	"	"	"	
Pyrene	ND	0.000643	0.00067	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	62.5 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	78.8 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	57.2 %		29-110			"	"	"	

pH in Soil by 9045D

pH	7.20			pH Units	1	B3H0822	08/08/2023	08/09/2023	
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SAR by 20B Saturated Paste

SAR	0.906			SAR	1	B3H0809	08/08/2023	08/09/2023	
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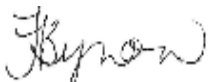
Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.904		0.00500	mmhos/cm	1	B3H0822	08/08/2023	08/09/2023	
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Table 915 metals by EPA 6020B

Arsenic	3.01		0.0981	mg/kg	10	B3H0229	08/02/2023	08/03/2023	
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Origins Laboratory, Inc.



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Absaroka
 112 High St.
 Buffalo WY 82834

Joel Mason
 Project Number: FEO.CO.0701.33
 Project: FEO - Damfino Delineation

SD WH6 @ 60"
8/1/2023 11:30:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y308042-22 (Soil)

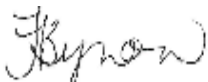
Table 915 metals by EPA 6020B

Barium	211		9.81	mg/kg	10	B3H0229	08/02/2023	08/03/2023	
Cadmium	0.254		0.0981	"	"	"	"	"	
Copper	20.5		9.81	"	"	"	"	08/04/2023	
Lead	ND		9.81	"	"	"	"	08/03/2023	
Nickel	13.7		9.81	"	"	"	"	"	
Selenium	0.219		0.0981	"	"	"	"	"	
Silver	ND		0.0981	"	"	"	"	"	
Zinc	ND		98.1	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.246	0.505	mg/Kg	1	L697015	07/31/2023	08/08/2023	
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Origins Laboratory, Inc.



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Absaroka
 112 High St.
 Buffalo WY 82834

Joel Mason
 Project Number: FEO.CO.0701.33
 Project: FEO - Damfino Delineation

SD16@16"

7/31/2023 12:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y308042-23 (Soil)

Boron (DTPA Sorbitol)

Boron	0.103		0.0992	mg/L	1	B3H0805	08/08/2023	08/09/2023	
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DRO/ORO by EPA 8015D

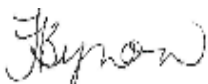
Diesel (C10-C28)	224		25.0	mg/kg	1	B3H0327	08/03/2023	08/04/2023	
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	94.0 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B3H0332	08/03/2023	08/06/2023	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Naphthalene	ND		0.00380	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	0.00328		0.00200	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U

Origins Laboratory, Inc.



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Absaroka
 112 High St.
 Buffalo WY 82834

Joel Mason
 Project Number: FEO.CO.0701.33
 Project: FEO - Damfino Delineation

SD16@16"

7/31/2023 12:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.
 Y308042-23 (Soil)**

GBTEX+TMBs by 8260D

Surrogate: 1,2-Dichloroethane-d4	103 %		70-130			B3H03 32	08/03/2023	08/06/2023	
Surrogate: Toluene-d8	98.7 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	96.8 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	14.1		0.499	meq/L	10	[CALC]	08/08/2023	08/09/2023	
Magnesium	4.24		0.823	"	"	"	"	"	
Sodium	8.84		0.435	"	"	"	"	"	

pH in Soil by 9045D

pH	7.83			pH Units	1	B3H0822	08/08/2023	08/09/2023	
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SAR by 20B Saturated Paste

SAR	2.92			SAR	1	B3H0809	08/08/2023	08/09/2023	
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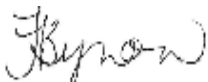
Specific Conductance Mod. 9050A

Specific Conductance (EC)	2.79		0.00500	mmhos/cm	1	B3H0822	08/08/2023	08/09/2023	
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Table 915 metals by EPA 6020B

Arsenic	2.39		0.0948	mg/kg	10	B3H0404	08/04/2023	08/04/2023	
Barium	237		9.48	"	"	"	"	"	

Origins Laboratory, Inc.



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Absaroka
 112 High St.
 Buffalo WY 82834

Joel Mason
 Project Number: FEO.CO.0701.33
 Project: FEO - Damfino Delineation

SD16@16"

7/31/2023 12:00:00AM

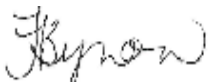
Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y308042-23 (Soil)

Table 915 metals by EPA 6020B

Cadmium	0.113		0.0948	mg/kg	10	B3H0404	08/04/2023	08/04/2023	
Copper	11.2		9.48	"	"	"	"	"	
Lead	ND		9.48	"	"	"	"	"	
Nickel	ND		9.48	"	"	"	"	"	
Selenium	0.125		0.0948	"	"	"	"	"	
Silver	ND		0.0948	"	"	"	"	"	
Zinc	ND		94.8	"	"	"	"	"	

Origins Laboratory, Inc.



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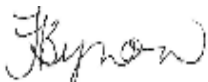
Absaroka
 112 High St.
 Buffalo WY 82834

Joel Mason
 Project Number: FEO.CO.0701.33
 Project: FEO - Damfino Delineation

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 B3H0318 - EPA 3550B										
Blank (B3H0318-BLK1)										
					Prepared: 08/03/2023 Analyzed: 08/04/2023					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	28		"	24.9		115	50-150			

Origins Laboratory, Inc.



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Absaroka
 112 High St.
 Buffalo WY 82834

Joel Mason
 Project Number: FEO.CO.0701.33
 Project: FEO - Damfino Delineation

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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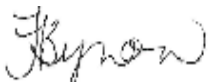
Batch B3H0318 - EPA 3550B

LCS (B3H0318-BS1)

Prepared: 08/03/2023 Analyzed: 08/04/2023

Diesel (C10-C28)	854	50.0	mg/kg	1000		85.4	70-130			
Residual Range Organics (C28-C40)	862	200	"	1000		86.2	70-130			
Surrogate: o-Terphenyl	57		"	49.8		114	50-150			

Origins Laboratory, Inc.



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 112 High St.
 Buffalo WY 82834

Joel Mason
 Project Number: FEO.CO.0701.33
 Project: FEO - Damfino Delineation

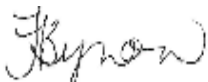
Extractable Petroleum Hydrocarbons by 8015D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B3H0318 - EPA 3550B

Matrix Spike (B3H0318-MS1)	Source: Y308042-01			Prepared: 08/03/2023 Analyzed: 08/04/2023						
Diesel (C10-C28)	892	50.0	mg/kg	1000	ND	89.2	70-130			
Residual Range Organics (C28-C40)	923	200	"	1000	ND	92.3	70-130			
Surrogate: o-Terphenyl	56		"	49.8		112	50-150			

Origins Laboratory, Inc.



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Absaroka
 112 High St.
 Buffalo WY 82834

Joel Mason
 Project Number: FEO.CO.0701.33
 Project: FEO - Damfino Delineation

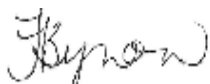
**Extractable Petroleum Hydrocarbons by 8015D - Quality Control
 Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B3H0318 - EPA 3550B

Matrix Spike Dup (B3H0318-MSD1)	Source: Y308042-01			Prepared: 08/03/2023 Analyzed: 08/04/2023						
Diesel (C10-C28)	935	50.0	mg/kg	1000	ND	93.5	70-130	4.68	35	
Residual Range Organics (C28-C40)	964	200	"	1000	ND	96.4	70-130	4.36	35	
Surrogate: o-Terphenyl	55		"	49.8		111	50-150			

Origins Laboratory, Inc.



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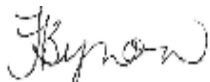
Absaroka
 112 High St.
 Buffalo WY 82834

Joel Mason
 Project Number: FEO.CO.0701.33
 Project: FEO - Damfino Delineation

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 B3H0319 - EPA 3550B										
Blank (B3H0319-BLK1)										
					Prepared: 08/03/2023 Analyzed: 08/04/2023					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	23		"	24.9		93.2	50-150			

Origins Laboratory, Inc.



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Absaroka
 112 High St.
 Buffalo WY 82834

Joel Mason
 Project Number: FEO.CO.0701.33
 Project: FEO - Damfino Delineation

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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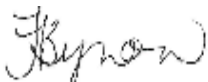
Batch B3H0319 - EPA 3550B

LCS (B3H0319-BS1)

Prepared: 08/03/2023 Analyzed: 08/04/2023

Diesel (C10-C28)	883	50.0	mg/kg	1000		88.3	70-130			
Residual Range Organics (C28-C40)	881	200	"	1000		88.1	70-130			
Surrogate: o-Terphenyl	54		"	49.8		108	50-150			

Origins Laboratory, Inc.



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Absaroka
 112 High St.
 Buffalo WY 82834

Joel Mason
 Project Number: FEO.CO.0701.33
 Project: FEO - Damfino Delineation

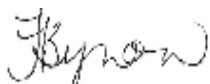
Extractable Petroleum Hydrocarbons by 8015D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B3H0319 - EPA 3550B

Matrix Spike (B3H0319-MS1)	Source: Y308042-21			Prepared: 08/03/2023 Analyzed: 08/04/2023						
Diesel (C10-C28)	910	50.0	mg/kg	1000	ND	91.0	70-130			
Residual Range Organics (C28-C40)	886	200	"	1000	ND	88.6	70-130			
Surrogate: o-Terphenyl	50		"	49.8		100	50-150			

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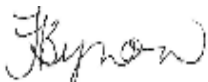
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Joel Mason
 Project Number: FEO.CO.0701.33
 Project: FEO - Damfino Delineation

Extractable Petroleum Hydrocarbons by 8015D - Quality Control
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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B3H0319 - EPA 3550B										
Matrix Spike Dup (B3H0319-MSD1)		Source: Y308042-21			Prepared: 08/03/2023 Analyzed: 08/04/2023					
Diesel (C10-C28)	893	50.0	mg/kg	1000	ND	89.3	70-130	1.88	35	
Residual Range Organics (C28-C40)	876	200	"	1000	ND	87.6	70-130	1.20	35	
Surrogate: o-Terphenyl	49		"	49.8		99.3	50-150			

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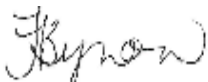
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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B3H0327 - EPA 3550B										
Blank (B3H0327-BLK1)										
					Prepared: 08/03/2023 Analyzed: 08/03/2023					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	23		"	24.9		94.2	50-150			

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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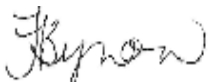
Batch B3H0327 - EPA 3550B

LCS (B3H0327-BS1)

Prepared: 08/03/2023 Analyzed: 08/03/2023

Diesel (C10-C28)	1140	50.0	mg/kg	1000		114	70-130			
Residual Range Organics (C28-C40)	1210	200	"	1000		121	70-130			
Surrogate: o-Terphenyl	59		"	49.8		119	50-150			

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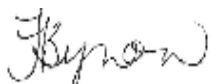
Extractable Petroleum Hydrocarbons by 8015D - Quality Control
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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B3H0327 - EPA 3550B

Matrix Spike (B3H0327-MS1)	Source: Y308089-01			Prepared: 08/03/2023 Analyzed: 08/03/2023						
Diesel (C10-C28)	1010	50.0	mg/kg	1000	ND	101	70-130			
Residual Range Organics (C28-C40)	1070	200	"	1000	ND	107	70-130			
Surrogate: o-Terphenyl	50		"	49.8		100	50-150			

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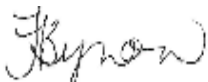
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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B3H0327 - EPA 3550B										
Matrix Spike Dup (B3H0327-MSD1)					Source: Y308089-01					Prepared: 08/03/2023 Analyzed: 08/03/2023
Diesel (C10-C28)	992	50.0	mg/kg	1000	ND	99.2	70-130	2.23	35	
Residual Range Organics (C28-C40)	1040	200	"	1000	ND	104	70-130	2.91	35	
Surrogate: o-Terphenyl	49		"	49.8		99.0	50-150			

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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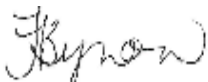
Batch B3H0331 - EPA 5030 (soil)

Blank (B3H0331-BLK1)

Prepared: 08/03/2023 Analyzed: 08/04/2023

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							U
1,3,5-Trimethylbenzene	ND	0.00200	"							U
Benzene	ND	0.00200	"							U
Ethylbenzene	ND	0.00200	"							U
Naphthalene	ND	0.00380	"							U
Toluene	ND	0.00200	"							U
Xylenes, total	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		98.9	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.3	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		98.1	70-130			

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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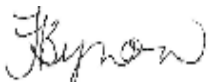
Batch B3H0331 - EPA 5030 (soil)

LCS (B3H0331-BS1)

Prepared: 08/03/2023 Analyzed: 08/04/2023

1,2,4-Trimethylbenzene	0.107	0.00200	mg/kg	0.100		107	70-130			
1,3,5-Trimethylbenzene	0.108	0.00200	"	0.100		108	70-130			
Benzene	0.0975	0.00200	"	0.100		97.5	70-130			
Ethylbenzene	0.102	0.00200	"	0.100		102	70-130			
Naphthalene	0.0881	0.00380	"	0.100		88.1	70-130			
Toluene	0.0924	0.00200	"	0.100		92.4	70-130			
o-Xylene	0.103	0.00200	"	0.100		103	70-130			
m,p-Xylene	0.202	0.00400	"	0.200		101	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		97.1	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.9	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		99.7	70-130			

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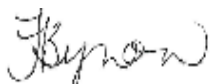
Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B3H0331 - EPA 5030 (soil)

Matrix Spike (B3H0331-MS1)	Source: Y307670-01			Prepared: 08/03/2023 Analyzed: 08/04/2023						
1,2,4-Trimethylbenzene	0.0887	0.00200	mg/kg	0.100	ND	88.7	70-130			
1,3,5-Trimethylbenzene	0.0898	0.00200	"	0.100	ND	89.8	70-130			
Benzene	0.0824	0.00200	"	0.100	ND	82.4	70-130			
Ethylbenzene	0.0875	0.00200	"	0.100	ND	87.5	70-130			
Naphthalene	0.0662	0.00380	"	0.100	ND	66.2	70-130			QM-07
Toluene	0.0781	0.00200	"	0.100	ND	78.1	70-130			
o-Xylene	0.0877	0.00200	"	0.100	ND	87.7	70-130			
m,p-Xylene	0.171	0.00400	"	0.200	ND	85.6	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		97.9	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		99.4	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		102	70-130			

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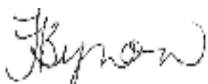
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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B3H0331 - EPA 5030 (soil)

Matrix Spike Dup (B3H0331-MSD1)	Source: Y307670-01			Prepared: 08/03/2023 Analyzed: 08/04/2023						
1,2,4-Trimethylbenzene	0.0841	0.00200	mg/kg	0.100	ND	84.1	70-130	5.30	20	
1,3,5-Trimethylbenzene	0.0836	0.00200	"	0.100	ND	83.6	70-130	7.10	20	
Benzene	0.0838	0.00200	"	0.100	ND	83.8	70-130	1.69	20	
Ethylbenzene	0.0831	0.00200	"	0.100	ND	83.1	70-130	5.16	20	
Naphthalene	0.0678	0.00380	"	0.100	ND	67.8	70-130	2.42	20	QM-07
Toluene	0.0747	0.00200	"	0.100	ND	74.7	70-130	4.40	20	
o-Xylene	0.0836	0.00200	"	0.100	ND	83.6	70-130	4.76	20	
m,p-Xylene	0.163	0.00400	"	0.200	ND	81.5	70-130	4.87	20	
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		99.5	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		94.7	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		102	70-130			

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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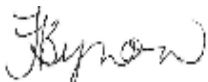
Batch B3H0332 - EPA 5030 (soil)

Blank (B3H0332-BLK1)

Prepared: 08/03/2023 Analyzed: 08/06/2023

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							U
1,3,5-Trimethylbenzene	ND	0.00200	"							U
Benzene	ND	0.00200	"							U
Ethylbenzene	ND	0.00200	"							U
Naphthalene	ND	0.00380	"							U
Toluene	ND	0.00200	"							U
Xylenes, total	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125	98.4		70-130			
Surrogate: Toluene-d8	0.13		"	0.125	102		70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125	100		70-130			

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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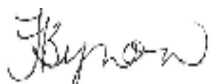
Batch B3H0332 - EPA 5030 (soil)

LCS (B3H0332-BS1)

Prepared: 08/03/2023 Analyzed: 08/06/2023

1,2,4-Trimethylbenzene	0.111	0.00200	mg/kg	0.100		111	70-130			
1,3,5-Trimethylbenzene	0.114	0.00200	"	0.100		114	70-130			
Benzene	0.115	0.00200	"	0.100		115	70-130			
Ethylbenzene	0.112	0.00200	"	0.100		112	70-130			
Naphthalene	0.100	0.00380	"	0.100		100	70-130			
Toluene	0.112	0.00200	"	0.100		112	70-130			
o-Xylene	0.110	0.00200	"	0.100		110	70-130			
m,p-Xylene	0.222	0.00400	"	0.200		111	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125		89.8	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		105	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		101	70-130			

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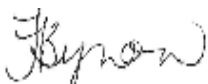
Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B3H0332 - EPA 5030 (soil)

Matrix Spike (B3H0332-MS1)	Source: Y308029-01			Prepared: 08/03/2023 Analyzed: 08/06/2023						
1,2,4-Trimethylbenzene	0.118	0.00200	mg/kg	0.100	0.000880	117	70-130			
1,3,5-Trimethylbenzene	0.123	0.00200	"	0.100	0.000940	122	70-130			
Benzene	0.125	0.00200	"	0.100	ND	125	70-130			
Ethylbenzene	0.119	0.00200	"	0.100	0.00120	118	70-130			
Naphthalene	0.106	0.00380	"	0.100	0.000760	106	70-130			
Toluene	0.118	0.00200	"	0.100	0.00134	117	70-130			
o-Xylene	0.117	0.00200	"	0.100	0.00110	116	70-130			
m,p-Xylene	0.236	0.00400	"	0.200	0.00230	117	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		93.0	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		101	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		99.9	70-130			

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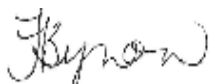
Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B3H0332 - EPA 5030 (soil)

Matrix Spike Dup (B3H0332-MSD1)	Source: Y308029-01			Prepared: 08/03/2023 Analyzed: 08/06/2023						
1,2,4-Trimethylbenzene	0.0999	0.00200	mg/kg	0.100	0.000880	99.0	70-130	16.6	20	
1,3,5-Trimethylbenzene	0.102	0.00200	"	0.100	0.000940	101	70-130	18.9	20	
Benzene	0.112	0.00200	"	0.100	ND	112	70-130	11.3	20	
Ethylbenzene	0.0973	0.00200	"	0.100	0.00120	96.1	70-130	20.3	20	QR-02
Naphthalene	0.104	0.00380	"	0.100	0.000760	104	70-130	2.01	20	
Toluene	0.105	0.00200	"	0.100	0.00134	103	70-130	12.0	20	
o-Xylene	0.0971	0.00200	"	0.100	0.00110	96.0	70-130	18.6	20	
m,p-Xylene	0.192	0.00400	"	0.200	0.00230	94.8	70-130	20.7	20	QR-02
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		93.6	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		101	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		98.1	70-130			

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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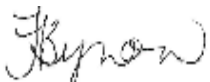
Batch B3H0334 - EPA 5030 (soil)

Blank (B3H0334-BLK1)

Prepared: 08/03/2023 Analyzed: 08/07/2023

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							U
1,3,5-Trimethylbenzene	ND	0.00200	"							U
Benzene	ND	0.00200	"							U
Ethylbenzene	ND	0.00200	"							U
Naphthalene	ND	0.00380	"							U
Toluene	ND	0.00200	"							U
Xylenes, total	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125	93.2		70-130			
Surrogate: Toluene-d8	0.12		"	0.125	92.3		70-130			
Surrogate: 4-Bromofluorobenzene	0.11		"	0.125	88.8		70-130			

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Joel Mason
 Project Number: FEO.CO.0701.33
 Project: FEO - Damfino Delineation

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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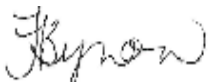
Batch B3H0334 - EPA 5030 (soil)

LCS (B3H0334-BS1)

Prepared: 08/03/2023 Analyzed: 08/07/2023

1,2,4-Trimethylbenzene	0.103	0.00200	mg/kg	0.100		103	70-130			
1,3,5-Trimethylbenzene	0.103	0.00200	"	0.100		103	70-130			
Benzene	0.102	0.00200	"	0.100		102	70-130			
Ethylbenzene	0.0958	0.00200	"	0.100		95.8	70-130			
Naphthalene	0.0918	0.00380	"	0.100		91.8	70-130			
Toluene	0.0930	0.00200	"	0.100		93.0	70-130			
o-Xylene	0.0973	0.00200	"	0.100		97.3	70-130			
m,p-Xylene	0.199	0.00400	"	0.200		99.6	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125		89.4	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		92.4	70-130			
Surrogate: 4-Bromofluorobenzene	0.11		"	0.125		90.1	70-130			

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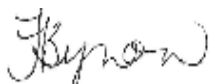
Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B3H0334 - EPA 5030 (soil)

Matrix Spike (B3H0334-MS1)	Source: Y308042-01			Prepared: 08/03/2023 Analyzed: 08/07/2023						
1,2,4-Trimethylbenzene	0.102	0.00200	mg/kg	0.100	ND	102	70-130			
1,3,5-Trimethylbenzene	0.103	0.00200	"	0.100	ND	103	70-130			
Benzene	0.104	0.00200	"	0.100	ND	104	70-130			
Ethylbenzene	0.0960	0.00200	"	0.100	ND	96.0	70-130			
Naphthalene	0.0831	0.00380	"	0.100	ND	83.1	70-130			
Toluene	0.0952	0.00200	"	0.100	ND	95.2	70-130			
o-Xylene	0.0980	0.00200	"	0.100	ND	98.0	70-130			
m,p-Xylene	0.190	0.00400	"	0.200	ND	94.8	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125		90.3	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		94.4	70-130			
Surrogate: 4-Bromofluorobenzene	0.11		"	0.125		89.7	70-130			

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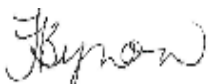
Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B3H0334 - EPA 5030 (soil)

Matrix Spike Dup (B3H0334-MSD1)	Source: Y308042-01			Prepared: 08/03/2023 Analyzed: 08/07/2023						
1,2,4-Trimethylbenzene	0.103	0.00200	mg/kg	0.100	ND	103	70-130	1.34	20	
1,3,5-Trimethylbenzene	0.105	0.00200	"	0.100	ND	105	70-130	2.60	20	
Benzene	0.104	0.00200	"	0.100	ND	104	70-130	0.385	20	
Ethylbenzene	0.0993	0.00200	"	0.100	ND	99.3	70-130	3.40	20	
Naphthalene	0.0897	0.00380	"	0.100	ND	89.7	70-130	7.62	20	
Toluene	0.0940	0.00200	"	0.100	ND	94.0	70-130	1.27	20	
o-Xylene	0.100	0.00200	"	0.100	ND	100	70-130	2.48	20	
m,p-Xylene	0.194	0.00400	"	0.200	ND	96.9	70-130	2.16	20	
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125		90.2	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		93.6	70-130			
Surrogate: 4-Bromofluorobenzene	0.11		"	0.125		90.7	70-130			

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 Project: FEO - Damfino Delineation

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B3H0228 - EPA 3050B

Blank (B3H0228-BLK1)

Prepared: 08/02/2023 Analyzed: 08/08/2023

Arsenic	ND	0.000100	mg/kg							
Barium	ND	0.0100	"							
Cadmium	ND	0.000100	"							
Copper	ND	0.0100	"							
Lead	ND	0.0100	"							
Nickel	ND	0.0100	"							
Selenium	ND	0.000100	"							
Silver	ND	0.000100	"							
Zinc	ND	0.100	"							

LCS (B3H0228-BS1)

Prepared: 08/02/2023 Analyzed: 08/08/2023

Arsenic	0.0568	0.000100	mg/kg	0.0500		114	80-120			
Barium	5.41	0.0100	"	5.00		108	80-120			
Cadmium	0.0535	0.000100	"	0.0500		107	80-120			
Copper	0.583	0.0100	"	0.500		117	80-120			
Lead	0.0528	0.0100	"	0.0500		106	80-120			
Nickel	0.0588	0.0100	"	0.0500		118	80-120			
Selenium	0.0492	0.000100	"	0.0500		98.3	80-120			
Silver	0.0516	0.000100	"	0.0500		103	80-120			
Zinc	0.552	0.100	"	0.500		110	80-120			

Matrix Spike (B3H0228-MS1)

Source: Y308042-01

Prepared: 08/02/2023 Analyzed: 08/08/2023

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 Project: FEO - Damfino Delineation

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B3H0228 - EPA 3050B

Matrix Spike (B3H0228-MS1)

Source: Y308042-01

Prepared: 08/02/2023 Analyzed: 08/08/2023

Arsenic	7.68	0.0883	mg/kg	4.42	4.23	78.2	75-125			
Barium	630	8.83	"	442	138	112	75-125			
Cadmium	4.73	0.0883	"	4.42	0.0977	105	75-125			
Copper	57.7	8.83	"	44.2	10.2	107	75-125			
Lead	12.4	8.83	"	4.42	8.46	88.2	75-125			
Nickel	15.3	8.83	"	4.42	10.4	111	75-125			
Selenium	4.43	0.0883	"	4.42	0.140	97.1	75-125			
Silver	4.45	0.0883	"	4.42	0.0642	99.4	75-125			
Zinc	88.7	88.3	"	44.2	43.8	102	75-125			

Matrix Spike Dup (B3H0228-MSD1)

Source: Y308042-01

Prepared: 08/02/2023 Analyzed: 08/08/2023

Arsenic	8.66	0.0944	mg/kg	4.72	4.23	93.9	75-125	12.0	20	
Barium	681	9.44	"	472	138	115	75-125	7.82	20	
Cadmium	5.46	0.0944	"	4.72	0.0977	114	75-125	14.3	20	
Copper	65.8	9.44	"	47.2	10.2	118	75-125	13.1	20	
Lead	14.3	9.44	"	4.72	8.46	123	75-125	14.5	20	
Nickel	16.3	9.44	"	4.72	10.4	126	75-125	6.58	20	QM-07
Selenium	4.92	0.0944	"	4.72	0.140	101	75-125	10.5	20	
Silver	5.09	0.0944	"	4.72	0.0642	106	75-125	13.4	20	
Zinc	104	94.4	"	47.2	43.8	128	75-125	15.9	20	QM-07

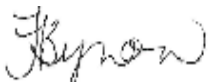
Batch B3H0229 - EPA 3050B

Blank (B3H0229-BLK1)

Prepared: 08/02/2023 Analyzed: 08/03/2023

Arsenic	ND	0.000100	mg/kg							
Barium	ND	0.0100	"							
Cadmium	ND	0.000100	"							

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Joel Mason
 Project Number: FEO.CO.0701.33
 Project: FEO - Damfino Delineation

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B3H0229 - EPA 3050B

Blank (B3H0229-BLK1)

Prepared: 08/02/2023 Analyzed: 08/04/2023

Copper	ND	0.0100	mg/kg							
Lead	ND	0.0100	"							
Nickel	ND	0.0100	"							
Selenium	ND	0.000100	"							
Silver	ND	0.000100	"							
Zinc	ND	0.100	"							

LCS (B3H0229-BS1)

Prepared: 08/02/2023 Analyzed: 08/03/2023

Arsenic	0.0582	0.000100	mg/kg	0.0500		116	80-120			
Barium	5.47	0.0100	"	5.00		109	80-120			
Cadmium	0.0554	0.000100	"	0.0500		111	80-120			
Copper	0.574	0.0100	"	0.500		115	80-120			
Lead	0.0530	0.0100	"	0.0500		106	80-120			
Nickel	0.0567	0.0100	"	0.0500		113	80-120			
Selenium	0.0534	0.000100	"	0.0500		107	80-120			
Silver	0.0568	0.000100	"	0.0500		114	80-120			
Zinc	0.567	0.100	"	0.500		113	80-120			

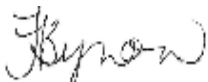
Matrix Spike (B3H0229-MS1)

Source: Y308001-05

Prepared: 08/02/2023 Analyzed: 08/03/2023

Arsenic	7.65	0.0866	mg/kg	4.33	2.34	123	75-125			
Barium	461	8.66	"	433	39.5	97.4	75-125			
Cadmium	4.57	0.0866	"	4.33	0.0557	104	75-125			
Copper	49.4	8.66	"	43.3	4.87	103	75-125			
Lead	8.77	8.66	"	4.33	4.50	98.7	75-125			
Nickel	10.5	8.66	"	4.33	5.68	110	75-125			
Selenium	4.31	0.0866	"	4.33	0.180	95.4	75-125			
Silver	4.52	0.0866	"	4.33	0.0156	104	75-125			

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Joel Mason
 Project Number: FEO.CO.0701.33
 Project: FEO - Damfino Delineation

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B3H0229 - EPA 3050B

Matrix Spike (B3H0229-MS1)

Source: Y308001-05

Prepared: 08/02/2023 Analyzed: 08/03/2023

Zinc	63.9	86.6	mg/kg	43.3	19.7	102	75-125			
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Matrix Spike Dup (B3H0229-MSD1)

Source: Y308001-05

Prepared: 08/02/2023 Analyzed: 08/03/2023

Arsenic	8.42	0.0953	mg/kg	4.76	2.34	128	75-125	9.55	20	QM-07
Barium	517	9.53	"	476	39.5	100	75-125	11.4	20	
Cadmium	4.99	0.0953	"	4.76	0.0557	104	75-125	8.95	20	
Copper	54.6	9.53	"	47.6	4.87	104	75-125	9.92	20	
Lead	11.9	9.53	"	4.76	4.50	154	75-125	29.9	20	QM-07
Nickel	11.4	9.53	"	4.76	5.68	120	75-125	8.47	20	
Selenium	4.72	0.0953	"	4.76	0.180	95.3	75-125	9.10	20	
Silver	4.96	0.0953	"	4.76	0.0156	104	75-125	9.31	20	
Zinc	70.1	95.3	"	47.6	19.7	106	75-125	9.35	20	

Batch B3H0404 - EPA 3050B

Blank (B3H0404-BLK1)

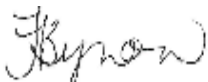
Prepared: 08/04/2023 Analyzed: 08/04/2023

Arsenic	ND	0.000100	mg/kg							
Barium	ND	0.0100	"							
Cadmium	ND	0.000100	"							
Copper	ND	0.0100	"							
Lead	ND	0.0100	"							
Nickel	ND	0.0100	"							
Selenium	ND	0.000100	"							
Silver	ND	0.000100	"							
Zinc	ND	0.100	"							

LCS (B3H0404-BS1)

Prepared: 08/04/2023 Analyzed: 08/04/2023

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Joel Mason
 Project Number: FEO.CO.0701.33
 Project: FEO - Damfino Delineation

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B3H0404 - EPA 3050B

LCS (B3H0404-BS1)

Prepared: 08/04/2023 Analyzed: 08/04/2023

Arsenic	0.0524	0.000100	mg/kg	0.0500		105	80-120			
Barium	5.00	0.0100	"	5.00		99.9	80-120			
Cadmium	0.0500	0.000100	"	0.0500		100	80-120			
Copper	0.531	0.0100	"	0.500		106	80-120			
Lead	0.0503	0.0100	"	0.0500		101	80-120			
Nickel	0.0537	0.0100	"	0.0500		107	80-120			
Selenium	0.0478	0.000100	"	0.0500		95.6	80-120			
Silver	0.0517	0.000100	"	0.0500		103	80-120			
Zinc	0.564	0.100	"	0.500		113	80-120			

Matrix Spike (B3H0404-MS1)

Source: Y308042-23

Prepared: 08/04/2023 Analyzed: 08/04/2023

Arsenic	7.48	0.0951	mg/kg	4.75	2.39	107	75-125			
Barium	786	9.51	"	475	237	115	75-125			
Cadmium	5.12	0.0951	"	4.75	0.113	105	75-125			
Copper	62.9	9.51	"	47.5	11.2	109	75-125			
Lead	12.4	9.51	"	4.75	6.89	116	75-125			
Nickel	15.1	9.51	"	4.75	9.46	119	75-125			
Selenium	5.03	0.0951	"	4.75	0.125	103	75-125			
Silver	5.09	0.0951	"	4.75	0.0588	106	75-125			
Zinc	97.9	95.1	"	47.5	42.7	116	75-125			

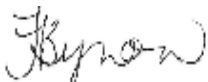
Matrix Spike Dup (B3H0404-MSD1)

Source: Y308042-23

Prepared: 08/04/2023 Analyzed: 08/04/2023

Arsenic	6.77	0.0916	mg/kg	4.58	2.39	95.6	75-125	9.86	20	
Barium	783	9.16	"	458	237	119	75-125	0.314	20	
Cadmium	4.88	0.0916	"	4.58	0.113	104	75-125	4.91	20	
Copper	60.3	9.16	"	45.8	11.2	107	75-125	4.24	20	
Lead	12.6	9.16	"	4.58	6.89	124	75-125	1.04	20	

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 Project Number: FEO.CO.0701.33
 Project: FEO - Damfino Delineation

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B3H0404 - EPA 3050B

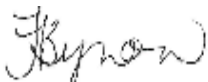
Matrix Spike Dup (B3H0404-MSD1)

Source: Y308042-23

Prepared: 08/04/2023 Analyzed: 08/04/2023

Nickel	14.6	9.16	mg/kg	4.58	9.46	112	75-125	3.51	20	
Selenium	5.19	0.0916	"	4.58	0.125	111	75-125	3.12	20	
Silver	4.90	0.0916	"	4.58	0.0588	106	75-125	3.77	20	
Zinc	96.1	91.6	"	45.8	42.7	116	75-125	1.82	20	

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 Buffalo WY 82834

Joel Mason
 Project Number: FEO.CO.0701.33
 Project: FEO - Damfino Delineation

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 B3H0410 - Saturated Paste Metals

Blank (B3H0410-BLK1)

Prepared: 08/04/2023 Analyzed: 08/07/2023

Calcium PPM	ND	10.0	mg/L							
SAR	0.00		SAR							
Magnesium PPM	ND	10.0	mg/L							
Sodium PPM	ND	10.0	"							

Duplicate (B3H0410-DUP1)

Source: Y308042-16

Prepared: 08/04/2023 Analyzed: 08/07/2023

SAR	0.00		SAR		1.22			200	200	
Calcium PPM	373	10.0	mg/L		328			13.0	50	
Magnesium PPM	84.6	10.0	"		74.6			12.6	50	
Sodium PPM	98.6	10.0	"		93.7			5.11	50	

Batch B3H0415 - DTPA Sorbitol Preparation

Blank (B3H0415-BLK1)

Prepared: 08/04/2023 Analyzed: 08/07/2023

Boron	ND	0.100	mg/L							
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Duplicate (B3H0415-DUP1)

Source: Y308042-16

Prepared: 08/04/2023 Analyzed: 08/07/2023

Boron	0.0516	0.0988	mg/L		0.0526			1.98	50	
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Batch B3H0804 - DTPA Sorbitol Preparation

Blank (B3H0804-BLK1)

Prepared: 08/08/2023 Analyzed: 08/09/2023

Boron	ND	0.100	mg/L							
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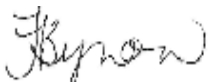
Duplicate (B3H0804-DUP1)

Source: Y308042-01

Prepared: 08/08/2023 Analyzed: 08/09/2023

Boron	0.0783	0.101	mg/L		0.0835			6.45	50	
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 Buffalo WY 82834

Joel Mason
 Project Number: FEO.CO.0701.33
 Project: FEO - Damfino Delineation

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 B3H0805 - DTPA Sorbitol Preparation

Blank (B3H0805-BLK1)

Prepared: 08/08/2023 Analyzed: 08/09/2023

Boron ND 0.100 mg/L

Duplicate (B3H0805-DUP1)

Source: Y308042-03

Prepared: 08/08/2023 Analyzed: 08/09/2023

Boron 0.188 0.100 mg/L 0.257 31.1 50

Batch B3H0808 - Saturated Paste Metals

Blank (B3H0808-BLK1)

Prepared: 08/08/2023 Analyzed: 08/09/2023

SAR 0.00 SAR

Calcium PPM ND 10.0 mg/L

Magnesium PPM ND 10.0 "

Sodium PPM ND 10.0 "

Duplicate (B3H0808-DUP1)

Source: Y308042-01

Prepared: 08/08/2023 Analyzed: 08/09/2023

Calcium PPM 282 10.0 mg/L 270 4.07 50

SAR 0.00 SAR 0.769 200 200

Magnesium PPM 51.1 10.0 mg/L 49.5 3.20 50

Sodium PPM 56.3 10.0 " 52.4 7.22 50

Batch B3H0809 - Saturated Paste Metals

Blank (B3H0809-BLK1)

Prepared: 08/08/2023 Analyzed: 08/09/2023

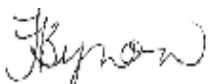
SAR 0.00 SAR

Calcium PPM ND 10.0 mg/L

Magnesium PPM ND 10.0 "

Sodium PPM ND 10.0 "

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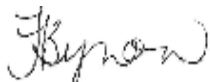
Classical Chemistry Parameters - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B3H0809 - Saturated Paste Metals

Duplicate (B3H0809-DUP1)	Source: Y308042-03			Prepared: 08/08/2023 Analyzed: 08/09/2023						
SAR	0.00		SAR	11.8				200	200	
Calcium PPM	497	10.0	mg/L	465				6.64	50	
Magnesium PPM	98.9	10.0	"	92.4				6.78	50	
Sodium PPM	1020	10.0	"	1060				3.80	50	

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Saturated Paste - 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 B3H0420 - Saturated Paste pH/EC

Blank (B3H0420-BLK1)

Prepared: 08/04/2023 Analyzed: 08/05/2023

Specific Conductance (EC) ND 0.00500 mmhos/cm

Duplicate (B3H0420-DUP1)

Source: Y308042-16

Prepared: 08/04/2023 Analyzed: 08/05/2023

Specific Conductance (EC)	3.57	0.00500	mmhos/cm	3.31	7.65	25
pH	6.70		pH Units	6.73	0.447	25

Batch B3H0821 - Saturated Paste pH/EC

Blank (B3H0821-BLK1)

Prepared: 08/08/2023 Analyzed: 08/09/2023

Specific Conductance (EC) ND 0.00500 mmhos/cm

Duplicate (B3H0821-DUP1)

Source: Y308042-01

Prepared: 08/08/2023 Analyzed: 08/09/2023

pH	8.07		pH Units	8.06	0.124	25
Specific Conductance (EC)	2.16	0.00500	mmhos/cm	2.14	0.981	25

Batch B3H0822 - Saturated Paste pH/EC

Blank (B3H0822-BLK1)

Prepared: 08/08/2023 Analyzed: 08/09/2023

Specific Conductance (EC) ND 0.00500 mmhos/cm

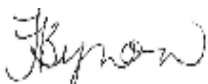
Duplicate (B3H0822-DUP1)

Source: Y308042-03

Prepared: 08/08/2023 Analyzed: 08/09/2023

pH	7.68		pH Units	7.71	0.390	25
Specific Conductance (EC)	7.70	0.00500	mmhos/cm	7.54	2.03	25

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Total Metals by 6020B - Quality Control
Waypoint Analytical, LLC.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L698181 - 3050B

LCS (LCS-L698181)

Prepared: 08/11/2023 Analyzed: 08/14/2023

Nickel	2.23	0.25	mg/Kg	2.5		89	80-120			
Arsenic	2.21	0.25	"	2.5		88	80-120			
Barium	4.45	0.25	"	5		89	80-120			
Cadmium	0.444	0.25	"	0.5		89	80-120			
Lead	2.07	0.25	"	2.5		83	80-120			
Selenium	4.63	0.25	"	5		93	80-120			
Silver	0.426	0.25	"	0.5		85	80-120			
Zinc	23.5	2.5	"	25		94	80-120			
Copper	2.24	0.25	"	2.5		90	80-120			

LRB (LRB-L698181)

Prepared: 08/11/2023 Analyzed: 08/14/2023

Silver	0.0819	0.25	mg/Kg				-			J
Arsenic	ND	0.25	"				-			
Selenium	ND	0.25	"				-			
Barium	ND	0.25	"				-			
Cadmium	ND	0.25	"				-			
Zinc	ND	2.5	"				-			
Copper	0.0965	0.25	"				-			J
Nickel	ND	0.25	"				-			
Lead	ND	0.25	"				-			

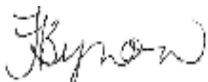
MSD (V 91784-MSD-L698181)

Source: 91784

Prepared: 08/11/2023 Analyzed: 08/14/2023

Barium	5.23	0.25	mg/Kg dry	4.87	0.678	93	75-125	1.3	80	
Selenium	4.12	0.25	"	4.87	0.149	81	75-125	2.3	80	
Silver	0.463	0.25	"	0.487	<0.0067	95	75-125	5.3	80	
Cadmium	0.458	0.25	"	0.487	<0.0260	94	75-125	1.9	80	
Lead	3.33	0.25	"	2.44	1.31	83	75-125	2	80	

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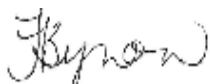
Total Metals by 6020B - Quality Control
Waypoint Analytical, LLC.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L698181 - 3050B

MSD (V 91784-MSD-L698181)		Source: 91784			Prepared: 08/11/2023 Analyzed: 08/14/2023					
Zinc	25.1	2.5	mg/Kg dry	24.4	0.553	101	75-125	2.4	80	
Copper	3.02	0.25	"	2.44	0.61	99	75-125	9.3	80	
Nickel	2.64	0.25	"	2.44	0.0925	105	75-125	3.4	80	
Arsenic	2.31	0.25	"	2.44	0.318	82	75-125	0.8	80	
MS (V 91784-MS-L698181)		Source: 91784			Prepared: 08/11/2023 Analyzed: 08/14/2023					
Zinc	24.5	2.5	mg/Kg dry	24.4	0.553	98	75-125			
Silver	0.439	0.25	"	0.489	<0.0067	90	75-125			
Selenium	4.22	0.25	"	4.89	0.149	83	75-125			
Nickel	2.55	0.25	"	2.44	0.0925	101	75-125			
Lead	3.4	0.25	"	2.44	1.31	86	75-125			
Copper	2.75	0.25	"	2.44	0.61	88	75-125			
Cadmium	0.449	0.25	"	0.489	<0.0260	92	75-125			
Arsenic	2.29	0.25	"	2.44	0.318	81	75-125			
Barium	5.3	0.25	"	4.89	0.678	95	75-125			

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PAH by 8270D SIM - Quality Control
Waypoint Analytical, LLC.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L696780 - 3550B

MSD (L 89798-MSD-L696780)		Source: Y308042-18			Prepared: 08/04/2023 Analyzed: 08/04/2023					
Benzo(k)fluoranthene	0.106	0.00335	mg/Kg	0.165	<0.00219	64.2	30-130	10.5	30	
Benzo(a)pyrene	0.109	0.00335	"	0.165	<0.00234	66	30-130	7.6	30	
1-Methylnaphthalene	0.0915	0.0101	"	0.165	<0.00549	55.4	30-130	7.7	30	
2-Methylnaphthalene	0.0943	0.0101	"	0.165	<0.00972	57.1	30-130	8.9	30	
Acenaphthene	0.0971	0.00335	"	0.165	0.00588	55.2	30-130	21.9	30	
Dibenz(a,h)anthracene	0.126	0.00335	"	0.165	<0.00307	76.3	30-130	10	30	
Benzo(a)anthracene	0.104	0.00335	"	0.165	<0.00247	63	30-130	5.4	30	
Pyrene	0.116	0.00335	"	0.165	0.0497	40.1	30-130	32.4	30	*
Benzo(b)fluoranthene	0.0911	0.00335	"	0.165	<0.00293	55.2	30-130	0.2	30	
Chrysene	0.111	0.00335	"	0.165	0.00401	64.8	30-130	4.6	30	
Fluoranthene	0.107	0.00335	"	0.165	0.00665	60.8	30-130	2.7	30	
Fluorene	0.103	0.00335	"	0.165	<0.00143	62.4	30-130	10.1	30	
Indeno(1,2,3-cd)pyrene	0.0918	0.00335	"	0.165	<0.00314	55.6	30-130	10.7	30	
Naphthalene	0.0864	0.0101	"	0.165	<0.00730	52.3	30-130	5.4	30	
Anthracene	0.11	0.00335	"	0.165	0.00846	61.5	30-130	8.5	30	
Surrogate: 2-Fluorobiphenyl	59.3		"	0.33	225	59.3	33-115			
Surrogate: 4-Terphenyl-d14	67.5		"	0.33	263	67.5	33-122			
Surrogate: Nitrobenzene-d5	49		"	0.33	198	49	29-110			

MS (L 89798-MS-L696780)		Source: Y308042-18			Prepared: 08/04/2023 Analyzed: 08/04/2023					
Benzo(b)fluoranthene	0.0909	0.00335	mg/Kg	0.164	<0.00293	55.4	30-130			
Fluoranthene	0.11	0.00335	"	0.164	0.00665	63	30-130			
Chrysene	0.106	0.00335	"	0.164	0.00401	62.1	30-130			
Pyrene	0.161	0.00335	"	0.164	0.0497	67.8	30-130			
Naphthalene	0.0912	0.0101	"	0.164	<0.00730	55.6	30-130			
Fluorene	0.114	0.00335	"	0.164	<0.00143	69.5	30-130			
Dibenz(a,h)anthracene	0.114	0.00335	"	0.164	<0.00307	69.5	30-130			

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L696780 - 3550B

MS (L 89798-MS-L696780)

Source: Y308042-18

Prepared: 08/04/2023 Analyzed: 08/04/2023

Benzo(k)fluoranthene	0.0954	0.00335	mg/Kg	0.164	<0.00219	58.1	30-130			
2-Methylnaphthalene	0.0862	0.0101	"	0.164	<0.00972	52.5	30-130			
Indeno(1,2,3-cd)pyrene	0.0824	0.00335	"	0.164	<0.00314	50.2	30-130			
Benzo(a)pyrene	0.101	0.00335	"	0.164	<0.00234	61.5	30-130			
Acenaphthene	0.121	0.00335	"	0.164	0.00588	70.1	30-130			
Anthracene	0.101	0.00335	"	0.164	0.00846	56.4	30-130			
Benzo(a)anthracene	0.0985	0.00335	"	0.164	<0.00247	60	30-130			
1-Methylnaphthalene	0.0847	0.0101	"	0.164	<0.00549	51.6	30-130			
Surrogate: Nitrobenzene-d5	47.7		"	0.329	198	47.7	29-110			
Surrogate: 2-Fluorobiphenyl	51.9		"	0.329	225	51.9	33-115			
Surrogate: 4-Terphenyl-d14	59.5		"	0.329	263	59.5	33-122			

LCS (LCS-L696780)

Prepared: 08/04/2023 Analyzed: 08/04/2023

Anthracene	0.089	0.00067	mg/Kg	0.167		53.2	30-130			
Benzo(a)anthracene	0.0905	0.00067	"	0.167		54.1	30-130			
Benzo(a)pyrene	0.0968	0.00067	"	0.167		57.9	30-130			
1-Methylnaphthalene	0.08	0.00201	"	0.167		47.9	30-130			
2-Methylnaphthalene	0.0843	0.00201	"	0.167		50.4	30-130			
Fluorene	0.0925	0.00067	"	0.167		55.3	30-130			
Chrysene	0.0939	0.00067	"	0.167		56.2	30-130			
Pyrene	0.0853	0.00067	"	0.167		51	30-130			
Indeno(1,2,3-cd)pyrene	0.0934	0.00067	"	0.167		55.9	30-130			
Fluoranthene	0.0865	0.00067	"	0.167		51.7	30-130			
Dibenz(a,h)anthracene	0.114	0.00067	"	0.167		68.2	30-130			
Benzo(b)fluoranthene	0.0834	0.00067	"	0.167		49.9	30-130			
Benzo(k)fluoranthene	0.0984	0.00067	"	0.167		58.9	30-130			
Acenaphthene	0.0828	0.00067	"	0.167		49.5	30-130			

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L696780 - 3550B

LCS (LCS-L696780)

Prepared: 08/04/2023 Analyzed: 08/04/2023

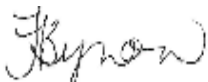
Naphthalene	0.08	0.00201	mg/Kg	0.167		47.9	30-130			
Surrogate: 2-Fluorobiphenyl	54		"	0.333		54	33-115			
Surrogate: 4-Terphenyl-d14	56.4		"	0.333		56.4	33-122			
Surrogate: Nitrobenzene-d5	45.6		"	0.333		45.6	29-110			

LRB (LRB-L696780)

Prepared: 08/04/2023 Analyzed: 08/04/2023

Dibenz(a,h)anthracene	ND	0.00067	mg/Kg				-			
Chrysene	ND	0.00067	"				-			
Pyrene	ND	0.00067	"				-			
Fluoranthene	ND	0.00067	"				-			
Naphthalene	ND	0.00201	"				-			
Indeno(1,2,3-cd)pyrene	ND	0.00067	"				-			
1-Methylnaphthalene	ND	0.00201	"				-			
Fluorene	ND	0.00067	"				-			
2-Methylnaphthalene	ND	0.00201	"				-			
Benzo(k)fluoranthene	ND	0.00067	"				-			
Acenaphthene	ND	0.00067	"				-			
Anthracene	ND	0.00067	"				-			
Benzo(a)anthracene	ND	0.00067	"				-			
Benzo(a)pyrene	ND	0.00067	"				-			
Benzo(b)fluoranthene	ND	0.00067	"				-			
Surrogate: Nitrobenzene-d5	48.3		"	0.333		48.3	29-110			
Surrogate: 4-Terphenyl-d14	62.1		"	0.333		62.1	33-122			
Surrogate: 2-Fluorobiphenyl	54.3		"	0.333		54.3	33-115			

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L696748 - 3550B

MSD (L 89690-MSD-L696748)		Source: 89690			Prepared: 08/04/2023 Analyzed: 08/04/2023					
Anthracene	0.108	0.00067	mg/Kg	0.163	<0.000334	66.2	30-130	26.5	30	
Acenaphthene	0.0939	0.00067	"	0.163	<0.000304	57.6	30-130	13.9	30	
2-Methylnaphthalene	0.0936	0.00201	"	0.163	<0.00194	57.4	30-130	8.5	30	
Benzo(k)fluoranthene	0.0683	0.00067	"	0.163	<0.000437	41.9	30-130	43.2	30	*
Benzo(a)anthracene	0.0984	0.00067	"	0.163	<0.000493	60.3	30-130	12.9	30	
Pyrene	0.0928	0.00067	"	0.163	<0.000643	56.9	30-130	11.3	30	
Naphthalene	0.0897	0.00201	"	0.163	<0.00145	55	30-130	12.8	30	
1-Methylnaphthalene	0.0934	0.00201	"	0.163	<0.00109	57.3	30-130	13.5	30	
Benzo(b)fluoranthene	0.0653	0.00067	"	0.163	<0.000585	40	30-130	43.8	30	*
Chrysene	0.102	0.00067	"	0.163	<0.000624	62.5	30-130	4.7	30	
Dibenz(a,h)anthracene	0.166	0.00067	"	0.163	<0.000614	102	30-130	32.9	30	*
Indeno(1,2,3-cd)pyrene	0.101	0.00067	"	0.163	<0.000627	61.9	30-130	29.8	30	
Fluorene	0.106	0.00067	"	0.163	<0.000286	65	30-130	14	30	
Fluoranthene	0.084	0.00067	"	0.163	<0.000394	51.5	30-130	40	30	*
Benzo(a)pyrene	0.108	0.00067	"	0.163	<0.000468	66.2	30-130	9.6	30	
Surrogate: 4-Terphenyl-d14	43.7		"	0.327	205	43.7	33-122			
Surrogate: 2-Fluorobiphenyl	50.1		"	0.327	172	50.1	33-115			
Surrogate: Nitrobenzene-d5	45.8		"	0.327	154	45.8	29-110			

MS (L 89690-MS-L696748)		Source: 89690			Prepared: 08/04/2023 Analyzed: 08/04/2023					
Indeno(1,2,3-cd)pyrene	0.0748	0.00067	mg/Kg	0.167	<0.000627	44.7	30-130			
2-Methylnaphthalene	0.102	0.00201	"	0.167	<0.00194	61	30-130			
Naphthalene	0.102	0.00201	"	0.167	<0.00145	61	30-130			
Fluorene	0.122	0.00067	"	0.167	<0.000286	73	30-130			
Fluoranthene	0.126	0.00067	"	0.167	<0.000394	75.4	30-130			
Dibenz(a,h)anthracene	0.119	0.00067	"	0.167	<0.000614	71.2	30-130			
Chrysene	0.107	0.00067	"	0.167	<0.000624	64	30-130			

Origins Laboratory, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Absaroka
 112 High St.
 Buffalo WY 82834

Joel Mason
 Project Number: FEO.CO.0701.33
 Project: FEO - Damfino Delineation

PAH by 8270D SIM - Quality Control
Waypoint Analytical, LLC.

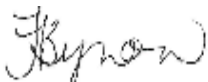
Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L696748 - 3550B

MS (L 89690-MS-L696748)		Source: 89690			Prepared: 08/04/2023 Analyzed: 08/04/2023					
Benzo(k)fluoranthene	0.106	0.00067	mg/Kg	0.167	<0.000437	63.4	30-130			
Benzo(b)fluoranthene	0.102	0.00067	"	0.167	<0.000585	61	30-130			
Benzo(a)pyrene	0.119	0.00067	"	0.167	<0.000468	71.2	30-130			
Benzo(a)anthracene	0.112	0.00067	"	0.167	<0.000493	67	30-130			
Anthracene	0.141	0.00067	"	0.167	<0.000334	84.4	30-130			
1-Methylnaphthalene	0.107	0.00201	"	0.167	<0.00109	64	30-130			
Pyrene	0.104	0.00067	"	0.167	<0.000643	62.2	30-130			
Acenaphthene	0.108	0.00067	"	0.167	<0.000304	64.6	30-130			
Surrogate: Nitrobenzene-d5	51.3		"	0.333	154	51.3	29-110			
Surrogate: 4-Terphenyl-d14	64.8		"	0.333	205	64.8	33-122			
Surrogate: 2-Fluorobiphenyl	69.3		"	0.333	172	69.3	33-115			

LCS (LCS-L696748)		Prepared: 08/04/2023 Analyzed: 08/04/2023								
Naphthalene	0.107	0.00201	mg/Kg	0.167		64	30-130			
Indeno(1,2,3-cd)pyrene	0.104	0.00067	"	0.167		62.2	30-130			
Fluorene	0.158	0.00067	"	0.167		94.6	30-130			
Fluoranthene	0.123	0.00067	"	0.167		73.6	30-130			
Dibenz(a,h)anthracene	0.143	0.00067	"	0.167		85.6	30-130			
Chrysene	0.13	0.00067	"	0.167		77.8	30-130			
Benzo(k)fluoranthene	0.0957	0.00067	"	0.167		57.3	30-130			
Benzo(b)fluoranthene	0.0858	0.00067	"	0.167		51.3	30-130			
Benzo(a)pyrene	0.138	0.00067	"	0.167		82.6	30-130			
Anthracene	0.137	0.00067	"	0.167		82	30-130			
Acenaphthene	0.123	0.00067	"	0.167		73.6	30-130			
2-Methylnaphthalene	0.114	0.00201	"	0.167		68.2	30-130			
1-Methylnaphthalene	0.108	0.00201	"	0.167		64.6	30-130			
Benzo(a)anthracene	0.123	0.00067	"	0.167		73.6	30-130			

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Absaroka
 112 High St.
 Buffalo WY 82834

Joel Mason
 Project Number: FEO.CO.0701.33
 Project: FEO - Damfino Delineation

PAH by 8270D SIM - Quality Control
Waypoint Analytical, LLC.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L696748 - 3550B

LCS (LCS-L696748)

Prepared: 08/04/2023 Analyzed: 08/04/2023

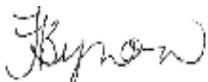
Pyrene	0.119	0.00067	mg/Kg	0.167		71.2	30-130			
Surrogate: 4-Terphenyl-d14	75.6		"	0.333		75.6	33-122			
Surrogate: 2-Fluorobiphenyl	77.7		"	0.333		77.7	33-115			
Surrogate: Nitrobenzene-d5	55.5		"	0.333		55.5	29-110			

LRB (LRB-L696748)

Prepared: 08/04/2023 Analyzed: 08/04/2023

Chrysene	ND	0.00067	mg/Kg				-			
Benzo(k)fluoranthene	ND	0.00067	"				-			
Benzo(b)fluoranthene	ND	0.00067	"				-			
Benzo(a)pyrene	ND	0.00067	"				-			
Benzo(a)anthracene	ND	0.00067	"				-			
Acenaphthene	ND	0.00067	"				-			
Indeno(1,2,3-cd)pyrene	ND	0.00067	"				-			
2-Methylnaphthalene	ND	0.00201	"				-			
1-Methylnaphthalene	ND	0.00201	"				-			
Anthracene	ND	0.00067	"				-			
Dibenz(a,h)anthracene	ND	0.00067	"				-			
Fluorene	ND	0.00067	"				-			
Naphthalene	ND	0.00201	"				-			
Pyrene	ND	0.00067	"				-			
Fluoranthene	ND	0.00067	"				-			
Surrogate: 4-Terphenyl-d14	72.9		"	0.333		72.9	33-122			
Surrogate: 2-Fluorobiphenyl	65.1		"	0.333		65.1	33-115			
Surrogate: Nitrobenzene-d5	54.9		"	0.333		54.9	29-110			

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

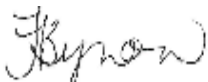
Absaroka
 112 High St.
 Buffalo WY 82834

Joel Mason
 Project Number: FEO.CO.0701.33
 Project: FEO - Damfino Delineation

**Total Metals by 7196A - Quality Control
 Waypoint Analytical, LLC.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch L697015 -										
DUP (L 89798-DUP)		Source: Y308042-18			Prepared: Analyzed: 08/08/2023					
Chromium, Hexavalent	ND	0.508	mg/Kg		<0.508		-	0	20	
MS (L 89798-MS)		Source: Y308042-18			Prepared: Analyzed: 08/08/2023					
Chromium, Hexavalent	29.2	2.5	mg/Kg	39.4	<1.22	74	75-125			*
LCS (LCS)		Prepared: Analyzed: 08/08/2023								
Chromium, Hexavalent	6.89	0.5	mg/Kg	8		86	75-125			
LRB (LRB)		Prepared: Analyzed: 08/08/2023								
Chromium, Hexavalent	ND	0.5	mg/Kg				-			

Origins Laboratory, Inc.



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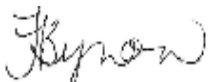
Absaroka
 112 High St.
 Buffalo WY 82834

Joel Mason
 Project Number: FEO.CO.0701.33
 Project: FEO - Damfino Delineation

**Total Metals by 7196A - Quality Control
 Waypoint Analytical, LLC.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch L697014 -										
DUP (L 89790-DUP)		Source: Y308042-10			Prepared: Analyzed: 08/06/2023					
Chromium, Hexavalent	ND	0.5	mg/Kg		<0.500		-	0	20	
MS (L 89790-MS)		Source: Y308042-10			Prepared: Analyzed: 08/06/2023					
Chromium, Hexavalent	27.2	2.54	mg/Kg	40.6	<1.24	67	75-125			*

Origins Laboratory, Inc.



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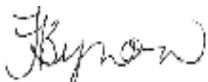
Absaroka
 112 High St.
 Buffalo WY 82834

Joel Mason
 Project Number: FEO.CO.0701.33
 Project: FEO - Damfino Delineation

**Total Metals by 7196A - Quality Control
 Waypoint Analytical, LLC.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch L697013 -										
DUP (L 89785-DUP)		Source: Y308042-05			Prepared: Analyzed: 08/06/2023					
Chromium, Hexavalent	ND	0.5	mg/Kg		<0.500		-	0	20	
MS (L 89785-MS)		Source: Y308042-05			Prepared: Analyzed: 08/06/2023					
Chromium, Hexavalent	26.7	2.5	mg/Kg	40	<1.22	67	75-125			*

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Absaroka
112 High St.
Buffalo WY 82834

Joel Mason
Project Number: FEO.CO.0701.33
Project: FEO - Damfino Delineation

Notes and Definitions

U Sample is Non-Detect.

QR-02 The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.

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

JB [Undefined]

J Estimated Value. Analyte below reported quantitation limit.

* QC Failure

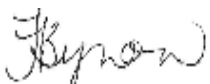
ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported on a wet weight basis.

Calculated results may use J-flag data (instead of reported "ND") as part of calculation to provide a more accurate result.

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

August 16, 2023

Absaroka

Joel Mason

112 High St.

Buffalo

WY

82834

Project Name - FEO - Damfino Delineation

Project Number - FEO.CO.0701.33

Attached are your analytical results for FEO - Damfino Delineation received by Origins Laboratory, Inc. August 02, 2023. This project is associated with Origins project number Y308042-01.

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



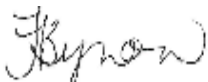
Absaroka
 112 High St.
 Buffalo WY 82834

Joel Mason
 Project Number: FEO.CO.0701.33
 Project: FEO - Damfino Delineation

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SD1 @ 15"	Y308042-01	Soil	July 31, 2023 11:25	08/02/2023 10:55
SD2 @ 15"	Y308042-02	Soil	July 31, 2023 11:33	08/02/2023 10:55
SD3 @ 30"	Y308042-03	Soil	July 31, 2023 11:33	08/02/2023 10:55
SD4 @ 18"	Y308042-04	Soil	July 31, 2023 12:10	08/02/2023 10:55
SD5 @ 12"	Y308042-05	Soil	July 31, 2023 12:15	08/02/2023 10:55
SD6 @ 15"	Y308042-06	Soil	July 31, 2023 13:00	08/02/2023 10:55
SD7 @ 30"	Y308042-07	Soil	July 31, 2023 13:10	08/02/2023 10:55
SD8 @ 24"	Y308042-08	Soil	July 31, 2023 13:20	08/02/2023 10:55
SD9 @ 24"	Y308042-09	Soil	July 31, 2023 13:25	08/02/2023 10:55
SD10 @ 12"	Y308042-10	Soil	July 31, 2023 13:35	08/02/2023 10:55
SD11 @ 8"	Y308042-11	Soil	July 31, 2023 13:45	08/02/2023 10:55
SD12 @ 12"	Y308042-12	Soil	July 31, 2023 12:30	08/02/2023 10:55
SD13 @ 24"	Y308042-13	Soil	July 31, 2023 12:30	08/02/2023 10:55
SDSP1 @ 6"	Y308042-14	Soil	July 31, 2023 10:15	08/02/2023 10:55

Origins Laboratory, Inc.



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 Buffalo WY 82834

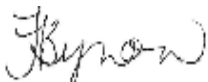
Joel Mason
 Project Number: FEO.CO.0701.33
 Project: FEO - Damfino Delineation

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SDSP2 @ 6"	Y308042-15	Soil	July 31, 2023 10:20	08/02/2023 10:55
SD_WH2_N @ 48"	Y308042-16	Soil	August 1, 2023 11:00	08/02/2023 10:55
SD_WH3_SE @ 48"	Y308042-17	Soil	August 1, 2023 11:10	08/02/2023 10:55
SD_WH1_E @ 24"	Y308042-18	Soil	August 1, 2023 11:10	08/02/2023 10:55
SD_WH5_SW @ 48"	Y308042-19	Soil	August 1, 2023 11:15	08/02/2023 10:55
SD_WH4_S @ 48"	Y308042-20	Soil	August 1, 2023 11:20	08/02/2023 10:55
SD8 @ 48"	Y308042-21	Soil	August 1, 2023 11:25	08/02/2023 10:55
SD_WH6 @ 60"	Y308042-22	Soil	August 1, 2023 11:30	08/02/2023 10:55
SD16@16"	Y308042-23	Soil	July 31, 2023 0:00	08/02/2023 10:55

Received three extra samples not on COC, we are only adding SD16@16" to the COC per Joel's email on 08/03/2023.

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

ORIGINS
LABORATORY, INC

Absaroka
112 High St.
Buffalo WY 82834

Joel Mason
Project Number: FEO.CO.0701.33
Project: FEO - Damfino Delineation

2

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1308042

page 1 of 2

ORIGINS
LABORATORY, INC

Client: Absaroka Solutions
Address: 112 High St, Buffalo WY
Telephone Number: 307-262-8975 & 402.651.7406
Email Address: Joel.Mason@absarokasolutions.com
and Joel.Mason@absarokasolutions.com

Project Manager: Joel Mason
Project Name: FEO Damfino Delineation
Project Number: FEO.CO.0701.33
Samples Collected By: Joel.Mason@absarokasolutions.com

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

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix		Analysis	Sample Instructions			
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil			Air Sample #	Other	
SD11 @ 8"	7/31/23	13:45	2	X				X				1		
SD12 @ 12"	7/31/23	12:30	2	X				X				2		
SD13 @ 24"	7/31/23	12:30	2	X				X				3		
SDSP1 @ 6"	7/31/23	10:15	2	X				X				4		
SDSP2 @ 6"	7/31/23	10:20	2	X				X				5		
												6		
												7		
												8		
												9		
												10		
Refrig. Requested By: <i>Joel Mason</i>	Date:	8/12/23	Time:	8:00	Received By:	<i>WST</i>	Date:	8/2/23	Time:	055	Turnaround Time: Same Day <input type="checkbox"/> 48 Hr <input type="checkbox"/> 72 Hr <input checked="" type="checkbox"/> Standard			
					Received By:									
Refrig. Requested By:	Date:		Time:		Received By:		Date:		Time:					

Date Results Needed

H3

Origins Laboratory, Inc.

Bynon

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Absaroka
112 High St.
Buffalo WY 82834

Joel Mason
Project Number: FEO.CO.0701.33
Project: FEO - Damfino Delineation

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1308012

page 1 of 2

ORIGINS
LABORATORY, INC

Project Manager: Joel Mason
Project Name: FEO Damfino Delineation
Project Number: FEO.CO.0701.33
Samples Collected By: Joel.Mason@absarokasolutions.com

Client: Absaroka Solutions
Address: 112 High St, Buffalo WY
Telephone Number: 307-262-8975 & 402.651.7406
Email Address: Joel.Mason@absarokasolutions.com and Joel.Mason@absarokasolutions.com

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

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis	Sample Instructions	
				Unpreserved	H ₂ O	HNO ₃	Other	Groundwater	Soil	Air Summ #			Other
SD1 @ 15"	7/31/23	11:25	2	X				X					
SD2 @ 15"	7/31/23	11:33	2	X				X					
SD3 @ 30"	7/31/23	11:33	2	X				X					
SD4 @ 18"	7/31/23	12:10	2	X				X					
SD5 @ 12"	7/31/23	12:15	2	X				X					
SD6 @ 15"	7/31/23	13:00	2	X				X					
SD7 @ 30"	7/31/23	13:10	2	X				X					
SD8 @ 24"	7/31/23	13:20	2	X				X					
SD9 @ 24"	7/31/23	13:25	2	X				X					
SD10 @ 12"	7/31/23	13:35	2	X				X					
Relinquished By: <i>[Signature]</i>	Date: 8/2/23	Time: 8:10						Received By: <i>[Signature]</i>	Date: 8/2/23	Time: 10:55	Turnaround Time: Same Day <input type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input type="checkbox"/> 72 Hr <input type="checkbox"/> Standard <input checked="" type="checkbox"/>		
Relinquished By: <i>[Signature]</i>	Date:	Time:						Received By:	Date:	Time:			

Date Results Needed

4.3

Origins Laboratory, Inc.

[Signature]

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Absaroka
 112 High St.
 Buffalo WY 82834

Joel Mason
 Project Number: FEO.CO.0701.33
 Project: FEO - Damfino Delineation

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 page 1 of 2

1328042

Project Manager: Joel Mason
 Project Name: FEO Damfino Delineation
 Project Number: FEO.CO.0701.33
 Samples Collected By: Joel.Mason@absarokasolutions.com

Client: Absaroka Solutions
 Address: 112 High St, Buffalo WY
 Telephone Number: 307-262-8975 & 402.651.7406
 Email Address: Joel.Mason@absarokasolutions.com
 and Joel.Mason@absarokasolutions.com

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative					Matrix			Analysis	Sample Instructions		
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	Air Summa #	Other				
SD_WH2_N @ 48"	8/1/23	11:00	2	X					X				Table 915-1 Parameters	1	
SD_WH3_SE @ 48"	8/1/23	11:10	2	X					X					2	
SD_WH1_E @ 24"	8/1/23	11:10	2	X					X					3	
SD_WH5_SW @ 48"	8/1/23	11:15	2	X					X					4	
SD_WH4_S @ 48"	8/1/23	11:20	2	X					X					5	
SD8 @ 48"	8/1/23	11:25	2	X					X					6	
SD_WH6 @ 60"	8/1/23	11:30	2	X					X					7	
														8	
														9	
														10	
Relinquished By: <i>[Signature]</i>	Date: 8/12/23	Time: 8:00							Received By: <i>[Signature]</i>	Date: 8/21/23	Time: 10:55	Turnaround Time: Same Day <input type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input type="checkbox"/> 72 Hr <input type="checkbox"/> Standard <input checked="" type="checkbox"/>			
Relinquished By: <i>[Signature]</i>	Date:	Time:							Received By:	Date:	Time:				

Date Results Needed

4.3

Origins Laboratory, Inc.

[Signature]

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Absaroka
112 High St.
Buffalo WY 82834

Joel Mason
Project Number: FEO.CO.0701.33
Project: FEO - Damfino Delineation

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: Y308042 Client: Absaroka
Client Project ID: FEO Damfino
Checklist Completed by: TJM Shipped Via: HD
Date/time completed: 8/2/23 (UPS, FedEx, Hand Delivered, Pick-up, etc.)
Airbill #: N/A
Matrix(s) Received: (Check all that apply): Soil/Solid Water Other: _____
Cooler Number/Temperature: 143 °C / _____ °C / _____ °C (Describe)
Thermometer ID: T004

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C ⁽¹⁾ ?	/			
Is there ice present (document if blue ice is used)	/			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)			/	
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)			/	
Were all samples received intact ⁽¹⁾ ?	/			
Was adequate sample volume provided ⁽¹⁾ ?	/			
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?		/		
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	/			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?		/		see comments
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	/			
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	/			
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.			/	
Are samples preserved that require preservation and was it checked ⁽¹⁾ ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)/(pH <2 for samples preserved with HNO ₃ , HCL, H ₂ SO ₄) / (pH >10 for samples preserved with NaAsO ₂ +NaOH, ZnAc+NaOH)			/	
Additional Comments (if any): <u>White out on COC. Received samples 5014, 5015 + some not on chain</u>				

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

Reviewed by (Project Manager) [Signature]

Date/Time Reviewed 8/2/23

Origins Laboratory, Inc.

[Signature]

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Absaroka
 112 High St.
 Buffalo WY 82834

Joel Mason
 Project Number: FEO.CO.0701.33
 Project: FEO - Damfino Delineation

SD1 @ 15"
7/31/2023 11:25:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y308042-01 (Soil)

Boron (DTPA Sorbitol)

Boron	ND		0.100	mg/L	1	B3H0804	08/08/2023	08/09/2023	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B3H0318	08/03/2023	08/04/2023	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	117 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B3H0334	08/03/2023	08/07/2023	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	95.5 %		70-130			"	"	"	
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Origins Laboratory, Inc.



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Absaroka
112 High St.
Buffalo WY 82834

Joel Mason
Project Number: FEO.CO.0701.33
Project: FEO - Damfino Delineation

SD1 @ 15"

7/31/2023 11:25:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y308042-01 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	92.8 %		70-130			B3H03 34	08/03/2023	08/07/2023	
Surrogate: 4-Bromofluorobenzene	89.5 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	13.5		0.499	meq/L	10	[CALC]	08/08/2023	08/09/2023	
Magnesium	4.07		0.823	"	"	"	"	"	
Sodium	2.28		0.435	"	"	"	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00109	0.00201	mg/Kg	1	L696748	08/04/2023	08/04/2023	
2-Methylnaphthalene	ND	0.00194	0.00201	"	"	"	"	"	
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"	
Anthracene	ND	0.000334	0.00067	"	"	"	"	"	
Benzo(a)anthracene	ND	0.000493	0.00067	"	"	"	"	"	
Benzo(a)pyrene	ND	0.000468	0.00067	"	"	"	"	"	
Benzo(b)fluoranthene	ND	0.000585	0.00067	"	"	"	"	"	
Benzo(k)fluoranthene	ND	0.000437	0.00067	"	"	"	"	"	
Chrysene	ND	0.000624	0.00067	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"	
Fluoranthene	ND	0.000394	0.00067	"	"	"	"	"	

Origins Laboratory, Inc.



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Absaroka
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Buffalo WY 82834

Joel Mason
Project Number: FEO.CO.0701.33
Project: FEO - Damfino Delineation

SD1 @ 15"

7/31/2023 11:25:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.
Y308042-01 (Soil)

PAH by 8270D SIM

Fluorene	ND	0.000286	0.00067	mg/Kg	1	L696748	08/04/2023	08/04/2023	
Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	"	"	"	"	"	
Naphthalene	ND	0.00145	0.00201	"	"	"	"	"	
Pyrene	0.00156	0.000643	0.00067	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	60.2 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	76.8 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	47.9 %		29-110			"	"	"	

pH in Soil by 9045D

pH	8.06			pH Units	1	B3H0821	08/08/2023	08/09/2023	
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SAR by 20B Saturated Paste

SAR	0.769			SAR	1	B3H0808	08/08/2023	08/09/2023	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	2.14		0.00500	mmhos/cm	1	B3H0821	08/08/2023	08/09/2023	
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Table 915 metals by EPA 6020B

Arsenic	4.23		0.0931	mg/kg	10	B3H0228	08/02/2023	08/08/2023	
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Origins Laboratory, Inc.



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Absaroka
 112 High St.
 Buffalo WY 82834

Joel Mason
 Project Number: FEO.CO.0701.33
 Project: FEO - Damfino Delineation

SD1 @ 15"

7/31/2023 11:25:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y308042-01 (Soil)

Table 915 metals by EPA 6020B

Barium	138		9.31	mg/kg	10	B3H0228	08/02/2023	08/08/2023	
Cadmium	0.0977		0.0931	"	"	"	"	"	
Copper	10.2		9.31	"	"	"	"	"	
Lead	ND		9.31	"	"	"	"	"	
Nickel	10.4		9.31	"	"	"	"	"	
Selenium	0.140		0.0931	"	"	"	"	"	
Silver	ND		0.0931	"	"	"	"	"	
Zinc	ND		93.1	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L697013	07/31/2023	08/06/2023	
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Origins Laboratory, Inc.



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Absaroka
 112 High St.
 Buffalo WY 82834

Joel Mason
 Project Number: FEO.CO.0701.33
 Project: FEO - Damfino Delineation

SD2 @ 15"

7/31/2023 11:33:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y308042-02 (Soil)

Boron (DTPA Sorbitol)

Boron	ND		0.0983	mg/L	1	B3H0804	08/08/2023	08/09/2023	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B3H0318	08/03/2023	08/04/2023	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	115%		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B3H0334	08/03/2023	08/07/2023	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	94.3%		70-130			"	"	"	
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Origins Laboratory, Inc.



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Absaroka
112 High St.
Buffalo WY 82834

Joel Mason
Project Number: FEO.CO.0701.33
Project: FEO - Damfino Delineation

SD2 @ 15"

7/31/2023 11:33:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y308042-02 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	90.6 %		70-130			B3H03 34	08/03/2023	08/07/2023	
Surrogate: 4-Bromofluorobenzene	91.1 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	4.86		0.499	meq/L	10	[CALC]	08/08/2023	08/09/2023	
Magnesium	1.11		0.823	"	"	"	"	"	
Sodium	4.20		0.435	"	"	"	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00109	0.00201	mg/Kg	1	L696748	08/04/2023	08/04/2023	
2-Methylnaphthalene	ND	0.00194	0.00201	"	"	"	"	"	
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"	
Anthracene	0.0016	0.000334	0.00067	"	"	"	"	"	
Benzo(a)anthracene	ND	0.000493	0.00067	"	"	"	"	"	
Benzo(a)pyrene	ND	0.000468	0.00067	"	"	"	"	"	
Benzo(b)fluoranthene	ND	0.000585	0.00067	"	"	"	"	"	
Benzo(k)fluoranthene	ND	0.000437	0.00067	"	"	"	"	"	
Chrysene	0.000638	0.000624	0.00067	"	"	"	"	"	J
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"	
Fluoranthene	0.000789	0.000394	0.00067	"	"	"	"	"	
Fluorene	0.00367	0.000286	0.00067	"	"	"	"	"	

Origins Laboratory, Inc.



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Absaroka
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Buffalo WY 82834

Joel Mason
Project Number: FEO.CO.0701.33
Project: FEO - Damfino Delineation

SD2 @ 15"

7/31/2023 11:33:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.
Y308042-02 (Soil)

PAH by 8270D SIM

Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	mg/Kg	1	L696748	08/04/2023	08/04/2023	
Naphthalene	ND	0.00145	0.00201	"	"	"	"	"	
Pyrene	0.00813	0.000643	0.00067	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	73.9 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	69.1 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	54.4 %		29-110			"	"	"	

pH in Soil by 9045D

pH	8.17			pH Units	1	B3H0821	08/08/2023	08/09/2023	
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SAR by 20B Saturated Paste

SAR	2.43			SAR	1	B3H0808	08/08/2023	08/09/2023	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	1.18		0.00500	mmhos/cm	1	B3H0821	08/08/2023	08/09/2023	
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Table 915 metals by EPA 6020B

Arsenic	2.81		0.0902	mg/kg	10	B3H0228	08/02/2023	08/08/2023	
Barium	186		9.02	"	"	"	"	"	

Origins Laboratory, Inc.



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Absaroka
 112 High St.
 Buffalo WY 82834

Joel Mason
 Project Number: FEO.CO.0701.33
 Project: FEO - Damfino Delineation

SD2 @ 15"

7/31/2023 11:33:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y308042-02 (Soil)

Table 915 metals by EPA 6020B

Cadmium	0.0947		0.0902	mg/kg	10	B3H0228	08/02/2023	08/08/2023	
Copper	9.63		9.02	"	"	"	"	"	
Lead	ND		9.02	"	"	"	"	"	
Nickel	9.61		9.02	"	"	"	"	"	
Selenium	0.123		0.0902	"	"	"	"	"	
Silver	ND		0.0902	"	"	"	"	"	
Zinc	ND		90.2	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.253	0.52	mg/Kg	1	L697013	07/31/2023	08/06/2023	
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Absaroka
 112 High St.
 Buffalo WY 82834

Joel Mason
 Project Number: FEO.CO.0701.33
 Project: FEO - Damfino Delineation

SD3 @ 30"

7/31/2023 11:33:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y308042-03 (Soil)

Boron (DTPA Sorbitol)

Boron	0.257		0.0987	mg/L	1	B3H0805	08/08/2023	08/09/2023	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	65.6		25.0	mg/kg	1	B3H0318	08/03/2023	08/04/2023	
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: <i>o</i> -Terphenyl	114 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B3H0334	08/03/2023	08/07/2023	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Toluene	0.00310		0.00200	"	"	"	"	"	
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	97.1 %		70-130			"	"	"	
Surrogate: Toluene-d8	91.3 %		70-130			"	"	"	

Origins Laboratory, Inc.



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Absaroka
 112 High St.
 Buffalo WY 82834

Joel Mason
 Project Number: FEO.CO.0701.33
 Project: FEO - Damfino Delineation

SD3 @ 30"

7/31/2023 11:33:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y308042-03 (Soil)

GBTEX+TMBs by 8260D

Surrogate: 4-Bromofluorobenzene	90.6 %		70-130			B3H03 34	08/03/2023	08/07/2023	
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Metals by Saturated Paste by EPA 6010

Calcium	23.2		0.499	meq/L	10	[CALC]	08/08/2023	08/09/2023	
Magnesium	7.61		0.823	"	"	"	"	"	
Sodium	46.3		0.435	"	"	"	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	0.00265	0.00109	0.00201	mg/Kg	1	L696748	08/04/2023	08/04/2023	
2-Methylnaphthalene	ND	0.00194	0.00201	"	"	"	"	"	
Acenaphthene	0.00321	0.000304	0.00067	"	"	"	"	"	
Anthracene	0.00475	0.000334	0.00067	"	"	"	"	"	
Benzo(a)anthracene	ND	0.000493	0.00067	"	"	"	"	"	
Benzo(a)pyrene	ND	0.000468	0.00067	"	"	"	"	"	
Benzo(b)fluoranthene	ND	0.000585	0.00067	"	"	"	"	"	
Benzo(k)fluoranthene	ND	0.000437	0.00067	"	"	"	"	"	
Chrysene	0.00161	0.000624	0.00067	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"	
Fluoranthene	0.00107	0.000394	0.00067	"	"	"	"	"	
Fluorene	0.0133	0.000286	0.00067	"	"	"	"	"	
Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	"	"	"	"	"	

Origins Laboratory, Inc.



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112 High St.
Buffalo WY 82834

Joel Mason
Project Number: FEO.CO.0701.33
Project: FEO - Damfino Delineation

SD3 @ 30"

7/31/2023 11:33:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.
Y308042-03 (Soil)

PAH by 8270D SIM

Naphthalene	ND	0.00145	0.00201	mg/Kg	1	L696748	08/04/2023	08/04/2023	
Pyrene	0.0153	0.000643	0.00067	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	63.1 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	65.3 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	46.5 %		29-110			"	"	"	

pH in Soil by 9045D

pH	7.71			pH Units	1	B3H0822	08/08/2023	08/09/2023	
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SAR by 20B Saturated Paste

SAR	11.8			SAR	1	B3H0809	08/08/2023	08/09/2023	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	7.54		0.00500	mmhos/cm	1	B3H0822	08/08/2023	08/09/2023	
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Table 915 metals by EPA 6020B

Arsenic	3.41		0.0923	mg/kg	10	B3H0228	08/02/2023	08/08/2023	
Barium	347		9.23	"	"	"	"	"	
Cadmium	0.199		0.0923	"	"	"	"	"	

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Absaroka
 112 High St.
 Buffalo WY 82834

Joel Mason
 Project Number: FEO.CO.0701.33
 Project: FEO - Damfino Delineation

SD3 @ 30"

7/31/2023 11:33:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y308042-03 (Soil)

Table 915 metals by EPA 6020B

Copper	18.3		9.23	mg/kg	10	B3H0228	08/02/2023	08/08/2023	
Lead	9.36		9.23	"	"	"	"	"	
Nickel	16.2		9.23	"	"	"	"	"	
Selenium	0.197		0.0923	"	"	"	"	"	
Silver	ND		0.0923	"	"	"	"	"	
Zinc	ND		92.3	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.248	0.51	mg/Kg	1	L697013	07/31/2023	08/06/2023	
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Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Absaroka
 112 High St.
 Buffalo WY 82834

Joel Mason
 Project Number: FEO.CO.0701.33
 Project: FEO - Damfino Delineation

SD4 @ 18"

7/31/2023 12:10:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y308042-04 (Soil)

Boron (DTPA Sorbitol)

Boron	0.107		0.0988	mg/L	1	B3H0805	08/08/2023	08/09/2023	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B3H0318	08/03/2023	08/04/2023	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	108 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B3H0334	08/03/2023	08/07/2023	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	95.7 %		70-130			"	"	"	
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Origins Laboratory, Inc.



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Absaroka
112 High St.
Buffalo WY 82834

Joel Mason
Project Number: FEO.CO.0701.33
Project: FEO - Damfino Delineation

SD4 @ 18"

7/31/2023 12:10:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y308042-04 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	89.9 %		70-130			B3H03 34	08/03/2023	08/07/2023	
Surrogate: 4-Bromofluorobenzene	91.2 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	5.45		0.499	meq/L	10	[CALC]	08/08/2023	08/09/2023	
Magnesium	1.84		0.823	"	"	"	"	"	
Sodium	4.50		0.435	"	"	"	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	0.00168	0.00109	0.00201	mg/Kg	1	L696748	08/04/2023	08/04/2023	J
2-Methylnaphthalene	ND	0.00194	0.00201	"	"	"	"	"	
Acenaphthene	0.000991	0.000304	0.00067	"	"	"	"	"	
Anthracene	0.00296	0.000334	0.00067	"	"	"	"	"	
Benzo(a)anthracene	0.00198	0.000493	0.00067	"	"	"	"	"	
Benzo(a)pyrene	ND	0.000468	0.00067	"	"	"	"	"	
Benzo(b)fluoranthene	ND	0.000585	0.00067	"	"	"	"	"	
Benzo(k)fluoranthene	ND	0.000437	0.00067	"	"	"	"	"	
Chrysene	0.00359	0.000624	0.00067	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"	
Fluoranthene	0.000945	0.000394	0.00067	"	"	"	"	"	
Fluorene	0.0048	0.000286	0.00067	"	"	"	"	"	

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Absaroka
 112 High St.
 Buffalo WY 82834

Joel Mason
 Project Number: FEO.CO.0701.33
 Project: FEO - Damfino Delineation

SD4 @ 18"

7/31/2023 12:10:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.
Y308042-04 (Soil)

PAH by 8270D SIM

Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	mg/Kg	1	L696748	08/04/2023	08/04/2023	
Naphthalene	ND	0.00145	0.00201	"	"	"	"	"	
Pyrene	0.0112	0.000643	0.00067	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	78.8 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	59.7 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	54.2 %		29-110			"	"	"	

pH in Soil by 9045D

pH	8.02			pH Units	1	B3H0822	08/08/2023	08/09/2023	
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SAR by 20B Saturated Paste

SAR	2.36			SAR	1	B3H0809	08/08/2023	08/09/2023	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	1.29		0.00500	mmhos/cm	1	B3H0822	08/08/2023	08/09/2023	
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Table 915 metals by EPA 6020B

Arsenic	2.94		0.0886	mg/kg	10	B3H0228	08/02/2023	08/08/2023	
Barium	782		8.86	"	"	"	"	"	

Origins Laboratory, Inc.



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Absaroka
 112 High St.
 Buffalo WY 82834

Joel Mason
 Project Number: FEO.CO.0701.33
 Project: FEO - Damfino Delineation

SD4 @ 18"

7/31/2023 12:10:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y308042-04 (Soil)

Table 915 metals by EPA 6020B

Cadmium	0.148		0.0886	mg/kg	10	B3H0228	08/02/2023	08/08/2023	
Copper	12.5		8.86	"	"	"	"	"	
Lead	ND		8.86	"	"	"	"	"	
Nickel	11.0		8.86	"	"	"	"	"	
Selenium	0.189		0.0886	"	"	"	"	"	
Silver	ND		0.0886	"	"	"	"	"	
Zinc	ND		88.6	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L697013	07/31/2023	08/06/2023	
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Origins Laboratory, Inc.



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Absaroka
112 High St.
Buffalo WY 82834

Joel Mason
Project Number: FEO.CO.0701.33
Project: FEO - Damfino Delineation

SD5 @ 12"

7/31/2023 12:15:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y308042-05 (Soil)

Boron (DTPA Sorbitol)

Boron	0.370		0.0981	mg/L	1	B3H0805	08/08/2023	08/09/2023	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	78.0		25.0	mg/kg	1	B3H0318	08/03/2023	08/04/2023	
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	117 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B3H0334	08/03/2023	08/07/2023	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Toluene	0.00270		0.00200	"	"	"	"	"	
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	99.6 %		70-130			"	"	"	
Surrogate: Toluene-d8	89.6 %		70-130			"	"	"	

Origins Laboratory, Inc.



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Absaroka
 112 High St.
 Buffalo WY 82834

Joel Mason
 Project Number: FEO.CO.0701.33
 Project: FEO - Damfino Delineation

SD5 @ 12"

7/31/2023 12:15:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y308042-05 (Soil)

GBTEX+TMBs by 8260D

Surrogate: 4-Bromofluorobenzene	89.0 %		70-130			B3H03 34	08/03/2023	08/07/2023	
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Metals by Saturated Paste by EPA 6010

Calcium	9.38		0.499	meq/L	10	[CALC]	08/08/2023	08/09/2023	
Magnesium	2.28		0.823	"	"	"	"	"	
Sodium	23.4		0.435	"	"	"	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00109	0.00201	mg/Kg	1	L696748	08/04/2023	08/04/2023	
2-Methylnaphthalene	ND	0.00194	0.00201	"	"	"	"	"	
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"	
Anthracene	0.00177	0.000334	0.00067	"	"	"	"	"	
Benzo(a)anthracene	ND	0.000493	0.00067	"	"	"	"	"	
Benzo(a)pyrene	ND	0.000468	0.00067	"	"	"	"	"	
Benzo(b)fluoranthene	ND	0.000585	0.00067	"	"	"	"	"	
Benzo(k)fluoranthene	ND	0.000437	0.00067	"	"	"	"	"	
Chrysene	0.000768	0.000624	0.00067	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"	
Fluoranthene	ND	0.000394	0.00067	"	"	"	"	"	
Fluorene	0.00321	0.000286	0.00067	"	"	"	"	"	

Origins Laboratory, Inc.



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Absaroka
 112 High St.
 Buffalo WY 82834

Joel Mason
 Project Number: FEO.CO.0701.33
 Project: FEO - Damfino Delineation

SD5 @ 12"

7/31/2023 12:15:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.
Y308042-05 (Soil)

PAH by 8270D SIM

Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	mg/Kg	1	L696748	08/04/2023	08/04/2023	
Naphthalene	ND	0.00145	0.00201	"	"	"	"	"	
Pyrene	0.00631	0.000643	0.00067	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	65.4 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	71.9 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	47.4 %		29-110			"	"	"	

pH in Soil by 9045D

pH	8.01			pH Units	1	B3H0822	08/08/2023	08/09/2023	
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SAR by 20B Saturated Paste

SAR	9.68			SAR	1	B3H0809	08/08/2023	08/09/2023	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	3.87		0.00500	mmhos/cm	1	B3H0822	08/08/2023	08/09/2023	
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Table 915 metals by EPA 6020B

Arsenic	4.90		0.0867	mg/kg	10	B3H0228	08/02/2023	08/08/2023	
Barium	177		8.67	"	"	"	"	"	

Origins Laboratory, Inc.



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Absaroka
 112 High St.
 Buffalo WY 82834

Joel Mason
 Project Number: FEO.CO.0701.33
 Project: FEO - Damfino Delineation

SD5 @ 12"

7/31/2023 12:15:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y308042-05 (Soil)

Table 915 metals by EPA 6020B

Cadmium	0.0997		0.0867	mg/kg	10	B3H0228	08/02/2023	08/08/2023	
Copper	8.95		8.67	"	"	"	"	"	
Lead	ND		8.67	"	"	"	"	"	
Nickel	ND		8.67	"	"	"	"	"	
Selenium	0.116		0.0867	"	"	"	"	"	
Silver	ND		0.0867	"	"	"	"	"	
Zinc	ND		86.7	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.248	0.51	mg/Kg	1	L697013	07/31/2023	08/06/2023	
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Origins Laboratory, Inc.



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Absaroka
 112 High St.
 Buffalo WY 82834

Joel Mason
 Project Number: FEO.CO.0701.33
 Project: FEO - Damfino Delineation

SD6 @ 15"

7/31/2023 1:00:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y308042-06 (Soil)

Boron (DTPA Sorbitol)

Boron	0.253		0.0982	mg/L	1	B3H0805	08/08/2023	08/09/2023	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B3H0318	08/03/2023	08/04/2023	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	117 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B3H0334	08/03/2023	08/07/2023	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	97.8 %		70-130			"	"	"	
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Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Absaroka
 112 High St.
 Buffalo WY 82834

Joel Mason
 Project Number: FEO.CO.0701.33
 Project: FEO - Damfino Delineation

SD6 @ 15"

7/31/2023 1:00:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y308042-06 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	92.6 %		70-130			B3H03 34	08/03/2023	08/07/2023	
Surrogate: 4-Bromofluorobenzene	88.5 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	7.04		0.499	meq/L	10	[CALC]	08/08/2023	08/09/2023	
Magnesium	2.84		0.823	"	"	"	"	"	
Sodium	4.20		0.435	"	"	"	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00109	0.00201	mg/Kg	1	L696748	08/04/2023	08/04/2023	
2-Methylnaphthalene	ND	0.00194	0.00201	"	"	"	"	"	
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"	
Anthracene	ND	0.000334	0.00067	"	"	"	"	"	
Benzo(a)anthracene	ND	0.000493	0.00067	"	"	"	"	"	
Benzo(a)pyrene	ND	0.000468	0.00067	"	"	"	"	"	
Benzo(b)fluoranthene	ND	0.000585	0.00067	"	"	"	"	"	
Benzo(k)fluoranthene	ND	0.000437	0.00067	"	"	"	"	"	
Chrysene	ND	0.000624	0.00067	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"	
Fluoranthene	ND	0.000394	0.00067	"	"	"	"	"	

Origins Laboratory, Inc.



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Absaroka
112 High St.
Buffalo WY 82834

Joel Mason
Project Number: FEO.CO.0701.33
Project: FEO - Damfino Delineation

SD6 @ 15"

7/31/2023 1:00:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.
Y308042-06 (Soil)

PAH by 8270D SIM

Fluorene	ND	0.000286	0.00067	mg/Kg	1	L696748	08/04/2023	08/04/2023	
Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	"	"	"	"	"	
Naphthalene	ND	0.00145	0.00201	"	"	"	"	"	
Pyrene	ND	0.000643	0.00067	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	65.3 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	63.4 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	44.7 %		29-110			"	"	"	

pH in Soil by 9045D

pH	8.04			pH Units	1	B3H0822	08/08/2023	08/09/2023	
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SAR by 20B Saturated Paste

SAR	1.89			SAR	1	B3H0809	08/08/2023	08/09/2023	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	1.53		0.00500	mmhos/cm	1	B3H0822	08/08/2023	08/09/2023	
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Table 915 metals by EPA 6020B

Arsenic	3.06		0.0959	mg/kg	10	B3H0228	08/02/2023	08/08/2023	
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Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Absaroka
 112 High St.
 Buffalo WY 82834

Joel Mason
 Project Number: FEO.CO.0701.33
 Project: FEO - Damfino Delineation

SD6 @ 15"

7/31/2023 1:00:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y308042-06 (Soil)

Table 915 metals by EPA 6020B

Barium	236		9.59	mg/kg	10	B3H0228	08/02/2023	08/08/2023	
Cadmium	0.160		0.0959	"	"	"	"	"	
Copper	16.0		9.59	"	"	"	"	"	
Lead	ND		9.59	"	"	"	"	"	
Nickel	13.9		9.59	"	"	"	"	"	
Selenium	0.189		0.0959	"	"	"	"	"	
Silver	ND		0.0959	"	"	"	"	"	
Zinc	ND		95.9	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L697013	07/31/2023	08/06/2023	
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Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Absaroka
 112 High St.
 Buffalo WY 82834

Joel Mason
 Project Number: FEO.CO.0701.33
 Project: FEO - Damfino Delineation

SD7 @ 30"

7/31/2023 1:10:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y308042-07 (Soil)

Boron (DTPA Sorbitol)

Boron	0.125		0.0995	mg/L	1	B3H0805	08/08/2023	08/09/2023	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B3H0318	08/03/2023	08/04/2023	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	110 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B3H0334	08/03/2023	08/07/2023	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	98.5 %		70-130			"	"	"	
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Origins Laboratory, Inc.



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Absaroka
112 High St.
Buffalo WY 82834

Joel Mason
Project Number: FEO.CO.0701.33
Project: FEO - Damfino Delineation

SD7 @ 30"

7/31/2023 1:10:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y308042-07 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	93.0 %		70-130			B3H03 34	08/03/2023	08/07/2023	
Surrogate: 4-Bromofluorobenzene	89.9 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	6.20		0.499	meq/L	10	[CALC]	08/08/2023	08/09/2023	
Magnesium	2.25		0.823	"	"	"	"	"	
Sodium	6.53		0.435	"	"	"	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00109	0.00201	mg/Kg	1	L696748	08/04/2023	08/04/2023	
2-Methylnaphthalene	ND	0.00194	0.00201	"	"	"	"	"	
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"	
Anthracene	ND	0.000334	0.00067	"	"	"	"	"	
Benzo(a)anthracene	ND	0.000493	0.00067	"	"	"	"	"	
Benzo(a)pyrene	ND	0.000468	0.00067	"	"	"	"	"	
Benzo(b)fluoranthene	ND	0.000585	0.00067	"	"	"	"	"	
Benzo(k)fluoranthene	ND	0.000437	0.00067	"	"	"	"	"	
Chrysene	ND	0.000624	0.00067	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"	
Fluoranthene	ND	0.000394	0.00067	"	"	"	"	"	

Origins Laboratory, Inc.



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Absaroka
 112 High St.
 Buffalo WY 82834

Joel Mason
 Project Number: FEO.CO.0701.33
 Project: FEO - Damfino Delineation

SD7 @ 30"

7/31/2023 1:10:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.
Y308042-07 (Soil)

PAH by 8270D SIM

Fluorene	0.000564	0.000286	0.00067	mg/Kg	1	L696748	08/04/2023	08/04/2023	J
Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	"	"	"	"	"	
Naphthalene	ND	0.00145	0.00201	"	"	"	"	"	
Pyrene	0.00121	0.000643	0.00067	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	68.9 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	67.7 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	45.2 %		29-110			"	"	"	

pH in Soil by 9045D

pH	7.88			pH Units	1	B3H0822	08/08/2023	08/09/2023	
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SAR by 20B Saturated Paste

SAR	3.18			SAR	1	B3H0809	08/08/2023	08/09/2023	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	1.66		0.00500	mmhos/cm	1	B3H0822	08/08/2023	08/09/2023	
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Table 915 metals by EPA 6020B

Arsenic	1.44		0.0906	mg/kg	10	B3H0228	08/02/2023	08/08/2023	
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Origins Laboratory, Inc.



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Absaroka
 112 High St.
 Buffalo WY 82834

Joel Mason
 Project Number: FEO.CO.0701.33
 Project: FEO - Damfino Delineation

SD7 @ 30"

7/31/2023 1:10:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y308042-07 (Soil)

Table 915 metals by EPA 6020B

Barium	151		9.06	mg/kg	10	B3H0228	08/02/2023	08/08/2023	
Cadmium	ND		0.0906	"	"	"	"	"	
Copper	9.83		9.06	"	"	"	"	"	
Lead	ND		9.06	"	"	"	"	"	
Nickel	11.8		9.06	"	"	"	"	"	
Selenium	0.185		0.0906	"	"	"	"	"	
Silver	ND		0.0906	"	"	"	"	"	
Zinc	ND		90.6	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L697014	07/31/2023	08/06/2023	
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Origins Laboratory, Inc.



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Absaroka
 112 High St.
 Buffalo WY 82834

Joel Mason
 Project Number: FEO.CO.0701.33
 Project: FEO - Damfino Delineation

SD8 @ 24"

7/31/2023 1:20:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y308042-08 (Soil)

Boron (DTPA Sorbitol)

Boron	0.463		0.0983	mg/L	1	B3H0805	08/08/2023	08/09/2023	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	337		25.0	mg/kg	1	B3H0318	08/03/2023	08/04/2023	
Residual Range Organics (C28-C40)	723		100	"	"	"	"	"	

Surrogate: o-Terphenyl	113 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B3H0334	08/03/2023	08/07/2023	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	100 %		70-130			"	"	"	
Surrogate: Toluene-d8	92.0 %		70-130			"	"	"	

Origins Laboratory, Inc.



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Absaroka
 112 High St.
 Buffalo WY 82834

Joel Mason
 Project Number: FEO.CO.0701.33
 Project: FEO - Damfino Delineation

SD8 @ 24"

7/31/2023 1:20:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y308042-08 (Soil)

GBTEX+TMBs by 8260D

Surrogate: 4-Bromofluorobenzene	91.1 %		70-130			B3H03 34	08/03/2023	08/07/2023	
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Metals by Saturated Paste by EPA 6010

Calcium	20.4		0.499	meq/L	10	[CALC]	08/08/2023	08/09/2023	
Magnesium	6.99		0.823	"	"	"	"	"	
Sodium	13.7		0.435	"	"	"	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	0.0327	0.00109	0.00201	mg/Kg	1	L696748	08/04/2023	08/04/2023	
2-Methylnaphthalene	0.0283	0.00194	0.00201	"	"	"	"	"	
Acenaphthene	0.00285	0.000304	0.00067	"	"	"	"	"	
Anthracene	0.00193	0.000334	0.00067	"	"	"	"	"	
Benzo(a)anthracene	0.0112	0.000493	0.00067	"	"	"	"	"	
Benzo(a)pyrene	ND	0.000468	0.00067	"	"	"	"	"	
Benzo(b)fluoranthene	0.00319	0.000585	0.00067	"	"	"	"	"	
Benzo(k)fluoranthene	0.00188	0.000437	0.00067	"	"	"	"	"	
Chrysene	0.0499	0.000624	0.00067	"	"	"	"	"	
Dibenz(a,h)anthracene	0.00424	0.000614	0.00067	"	"	"	"	"	
Fluoranthene	0.00177	0.000394	0.00067	"	"	"	"	"	
Fluorene	0.00917	0.000286	0.00067	"	"	"	"	"	
Indeno(1,2,3-cd)pyrene	0.00307	0.000627	0.00067	"	"	"	"	"	
Naphthalene	0.00823	0.00145	0.00201	"	"	"	"	"	

Origins Laboratory, Inc.



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Absaroka
112 High St.
Buffalo WY 82834

Joel Mason
Project Number: FEO.CO.0701.33
Project: FEO - Damfino Delineation

SD8 @ 24"

7/31/2023 1:20:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.
Y308042-08 (Soil)

PAH by 8270D SIM

Pyrene	0.00783	0.000643	0.00067	mg/Kg	1	L696748	08/04/2023	08/04/2023	
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Surrogate: 2-Fluorobiphenyl	55.8 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	36.3 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	51.5 %		29-110			"	"	"	

pH in Soil by 9045D

pH	7.88			pH Units	1	B3H0822	08/08/2023	08/09/2023	
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SAR by 20B Saturated Paste

SAR	3.71			SAR	1	B3H0809	08/08/2023	08/09/2023	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	3.46		0.00500	mmhos/cm	1	B3H0822	08/08/2023	08/09/2023	
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Table 915 metals by EPA 6020B

Arsenic	4.64		0.0955	mg/kg	10	B3H0228	08/02/2023	08/08/2023	
Barium	9010		9.55	"	"	"	"	"	
Cadmium	0.543		0.0955	"	"	"	"	"	
Copper	24.7		9.55	"	"	"	"	"	

Origins Laboratory, Inc.



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Absaroka
 112 High St.
 Buffalo WY 82834

Joel Mason
 Project Number: FEO.CO.0701.33
 Project: FEO - Damfino Delineation

SD8 @ 24"

7/31/2023 1:20:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y308042-08 (Soil)

Table 915 metals by EPA 6020B

Lead	ND		9.55	mg/kg	10	B3H0228	08/02/2023	08/08/2023	
Nickel	17.2		9.55	"	"	"	"	"	
Selenium	0.818		0.0955	"	"	"	"	"	
Silver	ND		0.0955	"	"	"	"	"	
Zinc	ND		95.5	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.245	0.504	mg/Kg	1	L697014	07/31/2023	08/06/2023	
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Origins Laboratory, Inc.



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Absaroka
 112 High St.
 Buffalo WY 82834

Joel Mason
 Project Number: FEO.CO.0701.33
 Project: FEO - Damfino Delineation

SD9 @ 24"

7/31/2023 1:25:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y308042-09 (Soil)

Boron (DTPA Sorbitol)

Boron	1.57		0.100	mg/L	1	B3H0805	08/08/2023	08/09/2023	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B3H0318	08/03/2023	08/04/2023	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	110 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B3H0334	08/03/2023	08/07/2023	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	99.7 %		70-130			"	"	"	
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Origins Laboratory, Inc.



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Absaroka
 112 High St.
 Buffalo WY 82834

Joel Mason
 Project Number: FEO.CO.0701.33
 Project: FEO - Damfino Delineation

SD9 @ 24"

7/31/2023 1:25:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y308042-09 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	91.4 %		70-130			B3H03 34	08/03/2023	08/07/2023	
Surrogate: 4-Bromofluorobenzene	91.0 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	21.0		0.499	meq/L	10	[CALC]	08/08/2023	08/09/2023	
Magnesium	7.42		0.823	"	"	"	"	"	
Sodium	4.28		0.435	"	"	"	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00109	0.00201	mg/Kg	1	L696748	08/04/2023	08/04/2023	
2-Methylnaphthalene	ND	0.00194	0.00201	"	"	"	"	"	
Acenaphthene	0.000729	0.000304	0.00067	"	"	"	"	"	
Anthracene	0.00062	0.000334	0.00067	"	"	"	"	"	J
Benzo(a)anthracene	ND	0.000493	0.00067	"	"	"	"	"	
Benzo(a)pyrene	ND	0.000468	0.00067	"	"	"	"	"	
Benzo(b)fluoranthene	ND	0.000585	0.00067	"	"	"	"	"	
Benzo(k)fluoranthene	ND	0.000437	0.00067	"	"	"	"	"	
Chrysene	ND	0.000624	0.00067	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"	
Fluoranthene	ND	0.000394	0.00067	"	"	"	"	"	
Fluorene	0.00286	0.000286	0.00067	"	"	"	"	"	

Origins Laboratory, Inc.



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Absaroka
 112 High St.
 Buffalo WY 82834

Joel Mason
 Project Number: FEO.CO.0701.33
 Project: FEO - Damfino Delineation

SD9 @ 24"

7/31/2023 1:25:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.
Y308042-09 (Soil)

PAH by 8270D SIM

Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	mg/Kg	1	L696748	08/04/2023	08/04/2023	
Naphthalene	ND	0.00145	0.00201	"	"	"	"	"	
Pyrene	0.00173	0.000643	0.00067	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	78.9 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	74 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	59.3 %		29-110			"	"	"	

pH in Soil by 9045D

pH	7.82			pH Units	1	B3H0822	08/08/2023	08/09/2023	
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SAR by 20B Saturated Paste

SAR	1.14			SAR	1	B3H0809	08/08/2023	08/09/2023	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	3.62		0.00500	mmhos/cm	1	B3H0822	08/08/2023	08/09/2023	
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Table 915 metals by EPA 6020B

Arsenic	3.95		0.0929	mg/kg	10	B3H0228	08/02/2023	08/08/2023	
Barium	433		9.29	"	"	"	"	"	

Origins Laboratory, Inc.



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Absaroka
 112 High St.
 Buffalo WY 82834

Joel Mason
 Project Number: FEO.CO.0701.33
 Project: FEO - Damfino Delineation

SD9 @ 24"

7/31/2023 1:25:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y308042-09 (Soil)

Table 915 metals by EPA 6020B

Cadmium	0.249		0.0929	mg/kg	10	B3H0228	08/02/2023	08/08/2023	
Copper	23.2		9.29	"	"	"	"	"	
Lead	11.3		9.29	"	"	"	"	"	
Nickel	19.3		9.29	"	"	"	"	"	
Selenium	0.270		0.0929	"	"	"	"	"	
Silver	ND		0.0929	"	"	"	"	"	
Zinc	99.0		92.9	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.248	0.509	mg/Kg	1	L697014	07/31/2023	08/06/2023	
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Origins Laboratory, Inc.



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 Buffalo WY 82834

Joel Mason
 Project Number: FEO.CO.0701.33
 Project: FEO - Damfino Delineation

SD10 @ 12"
7/31/2023 1:35:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y308042-10 (Soil)

Boron (DTPA Sorbitol)

Boron	31.1		0.992	mg/L	10	B3H0805	08/08/2023	08/09/2023	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	538		25.0	mg/kg	1	B3H0318	08/03/2023	08/04/2023	
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: <i>o</i> -Terphenyl	116 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B3H0334	08/03/2023	08/08/2023	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	99.8 %		70-130			"	"	"	
Surrogate: Toluene-d8	92.5 %		70-130			"	"	"	

Origins Laboratory, Inc.



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Absaroka
 112 High St.
 Buffalo WY 82834

Joel Mason
 Project Number: FEO.CO.0701.33
 Project: FEO - Damfino Delineation

SD10 @ 12"
7/31/2023 1:35:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y308042-10 (Soil)

GBTEX+TMBs by 8260D

Surrogate: 4-Bromofluorobenzene 90.3 % 70-130 B3H03 08/03/2023 08/08/2023
 34

Metals by Saturated Paste by EPA 6010

Calcium	6.69	0.499	meq/L	10	[CALC]	08/08/2023	08/09/2023
Magnesium	2.37	0.823	"	"	"	"	"
Sodium	20.6	0.435	"	"	"	"	"

PAH by 8270D SIM

1-Methylnaphthalene	0.0161	0.00109	0.00201	mg/Kg	1	L696748	08/04/2023	08/04/2023
2-Methylnaphthalene	0.0136	0.00194	0.00201	"	"	"	"	"
Acenaphthene	0.0103	0.000304	0.00067	"	"	"	"	"
Anthracene	0.0124	0.000334	0.00067	"	"	"	"	"
Benzo(a)anthracene	0.00156	0.000493	0.00067	"	"	"	"	"
Benzo(a)pyrene	ND	0.000468	0.00067	"	"	"	"	"
Benzo(b)fluoranthene	ND	0.000585	0.00067	"	"	"	"	"
Benzo(k)fluoranthene	ND	0.000437	0.00067	"	"	"	"	"
Chrysene	0.0048	0.000624	0.00067	"	"	"	"	"
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"
Fluoranthene	0.00243	0.000394	0.00067	"	"	"	"	"
Fluorene	0.0293	0.000286	0.00067	"	"	"	"	"
Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	"	"	"	"	"

Origins Laboratory, Inc.



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 112 High St.
 Buffalo WY 82834

Joel Mason
 Project Number: FEO.CO.0701.33
 Project: FEO - Damfino Delineation

SD10 @ 12"
7/31/2023 1:35:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.
Y308042-10 (Soil)

PAH by 8270D SIM

Naphthalene	ND	0.00145	0.00201	mg/Kg	1	L696748	08/04/2023	08/04/2023	
Pyrene	0.0449	0.000643	0.00067	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	69.5 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	61.5 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	49.5 %		29-110			"	"	"	

pH in Soil by 9045D

pH	8.04			pH Units	1	B3H0822	08/08/2023	08/09/2023	
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SAR by 20B Saturated Paste

SAR	9.70			SAR	1	B3H0809	08/08/2023	08/09/2023	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	3.40		0.00500	mmhos/cm	1	B3H0822	08/08/2023	08/09/2023	
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Table 915 metals by EPA 6020B

Arsenic	2.88		0.0932	mg/kg	10	B3H0228	08/02/2023	08/08/2023	
Barium	1350		9.32	"	"	"	"	"	
Cadmium	0.159		0.0932	"	"	"	"	"	

Origins Laboratory, Inc.



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Absaroka
 112 High St.
 Buffalo WY 82834

Joel Mason
 Project Number: FEO.CO.0701.33
 Project: FEO - Damfino Delineation

SD10 @ 12"
7/31/2023 1:35:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y308042-10 (Soil)

Table 915 metals by EPA 6020B

Copper	14.0		9.32	mg/kg	10	B3H0228	08/02/2023	08/08/2023	
Lead	ND		9.32	"	"	"	"	"	
Nickel	13.7		9.32	"	"	"	"	"	
Selenium	0.176		0.0932	"	"	"	"	"	
Silver	ND		0.0932	"	"	"	"	"	
Zinc	ND		93.2	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L697014	07/31/2023	08/06/2023	
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Origins Laboratory, Inc.



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Absaroka
 112 High St.
 Buffalo WY 82834

Joel Mason
 Project Number: FEO.CO.0701.33
 Project: FEO - Damfino Delineation

SD11 @ 8"
7/31/2023 1:45:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y308042-11 (Soil)

Boron (DTPA Sorbitol)

Boron	2.64		0.100	mg/L	1	B3H0805	08/08/2023	08/09/2023	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	49.5		25.0	mg/kg	1	B3H0318	08/03/2023	08/04/2023	
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: <i>o</i> -Terphenyl	106 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B3H0334	08/03/2023	08/08/2023	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Toluene	0.00258		0.00200	"	"	"	"	"	
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	100 %		70-130			"	"	"	
Surrogate: Toluene-d8	93.9 %		70-130			"	"	"	

Origins Laboratory, Inc.



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Absaroka
112 High St.
Buffalo WY 82834

Joel Mason
Project Number: FEO.CO.0701.33
Project: FEO - Damfino Delineation

SD11 @ 8"

7/31/2023 1:45:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y308042-11 (Soil)

GBTEX+TMBs by 8260D

Surrogate: 4-Bromofluorobenzene 89.9 % 70-130 B3H03 34 08/03/2023 08/08/2023

Metals by Saturated Paste by EPA 6010

Calcium	ND	4.99	meq/L	100	[CALC]	08/08/2023	08/09/2023
Magnesium	ND	8.23	"	"	"	"	"
Sodium	23.9	4.35	"	"	"	"	"

PAH by 8270D SIM

1-Methylnaphthalene	0.00111	0.00109	0.00201	mg/Kg	1	L696748	08/04/2023	08/04/2023	J
2-Methylnaphthalene	ND	0.00194	0.00201	"	"	"	"	"	
Acenaphthene	0.000906	0.000304	0.00067	"	"	"	"	"	
Anthracene	0.00101	0.000334	0.00067	"	"	"	"	"	
Benzo(a)anthracene	ND	0.000493	0.00067	"	"	"	"	"	
Benzo(a)pyrene	ND	0.000468	0.00067	"	"	"	"	"	
Benzo(b)fluoranthene	ND	0.000585	0.00067	"	"	"	"	"	
Benzo(k)fluoranthene	ND	0.000437	0.00067	"	"	"	"	"	
Chrysene	0.00106	0.000624	0.00067	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"	
Fluoranthene	0.000452	0.000394	0.00067	"	"	"	"	"	J
Fluorene	0.00371	0.000286	0.00067	"	"	"	"	"	

Origins Laboratory, Inc.



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Absaroka
112 High St.
Buffalo WY 82834

Joel Mason
Project Number: FEO.CO.0701.33
Project: FEO - Damfino Delineation

SD11 @ 8"

7/31/2023 1:45:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.
Y308042-11 (Soil)

PAH by 8270D SIM

Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	mg/Kg	1	L696748	08/04/2023	08/04/2023	
Naphthalene	ND	0.00145	0.00201	"	"	"	"	"	
Pyrene	0.00498	0.000643	0.00067	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	68.1 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	69.9 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	49.1 %		29-110			"	"	"	

pH in Soil by 9045D

pH	9.54			pH Units	1	B3H0822	08/08/2023	08/09/2023	
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SAR by 20B Saturated Paste

SAR	42.0			SAR	1	B3H0809	08/08/2023	08/09/2023	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	2.09		0.00500	mmhos/cm	1	B3H0822	08/08/2023	08/09/2023	
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Table 915 metals by EPA 6020B

Arsenic	2.85		0.0874	mg/kg	10	B3H0228	08/02/2023	08/08/2023	
Barium	871		8.74	"	"	"	"	"	

Origins Laboratory, Inc.



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 Buffalo WY 82834

Joel Mason
 Project Number: FEO.CO.0701.33
 Project: FEO - Damfino Delineation

SD11 @ 8"

7/31/2023 1:45:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y308042-11 (Soil)

Table 915 metals by EPA 6020B

Cadmium	0.212		0.0874	mg/kg	10	B3H0228	08/02/2023	08/08/2023	
Copper	15.2		8.74	"	"	"	"	"	
Lead	12.6		8.74	"	"	"	"	"	
Nickel	15.3		8.74	"	"	"	"	"	
Selenium	0.207		0.0874	"	"	"	"	"	
Silver	ND		0.0874	"	"	"	"	"	
Zinc	ND		87.4	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.248	0.51	mg/Kg	1	L697014	07/31/2023	08/06/2023	
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Origins Laboratory, Inc.



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Absaroka
 112 High St.
 Buffalo WY 82834

Joel Mason
 Project Number: FEO.CO.0701.33
 Project: FEO - Damfino Delineation

SD12 @ 12"
7/31/2023 12:30:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y308042-12 (Soil)

Boron (DTPA Sorbitol)

Boron	11.9		0.100	mg/L	1	B3H0805	08/08/2023	08/09/2023	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	281		25.0	mg/kg	1	B3H0318	08/03/2023	08/04/2023	
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: <i>o</i> -Terphenyl	115 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B3H0334	08/03/2023	08/08/2023	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	98.4 %		70-130			"	"	"	
Surrogate: Toluene-d8	91.9 %		70-130			"	"	"	

Origins Laboratory, Inc.



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Absaroka
 112 High St.
 Buffalo WY 82834

Joel Mason
 Project Number: FEO.CO.0701.33
 Project: FEO - Damfino Delineation

SD12 @ 12"

7/31/2023 12:30:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y308042-12 (Soil)

GBTEX+TMBs by 8260D

Surrogate: 4-Bromofluorobenzene	90.3 %		70-130			B3H03 34	08/03/2023	08/08/2023	
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Metals by Saturated Paste by EPA 6010

Calcium	23.1		0.499	meq/L	10	[CALC]	08/08/2023	08/09/2023	
Magnesium	5.81		0.823	"	"	"	"	"	
Sodium	33.9		0.435	"	"	"	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	0.00441	0.00109	0.00201	mg/Kg	1	L696748	08/04/2023	08/04/2023	
2-Methylnaphthalene	0.00325	0.00194	0.00201	"	"	"	"	"	
Acenaphthene	0.00298	0.000304	0.00067	"	"	"	"	"	
Anthracene	0.00843	0.000334	0.00067	"	"	"	"	"	
Benzo(a)anthracene	ND	0.000493	0.00067	"	"	"	"	"	
Benzo(a)pyrene	ND	0.000468	0.00067	"	"	"	"	"	
Benzo(b)fluoranthene	0.00104	0.000585	0.00067	"	"	"	"	"	
Benzo(k)fluoranthene	0.000586	0.000437	0.00067	"	"	"	"	"	J
Chrysene	0.00563	0.000624	0.00067	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"	
Fluoranthene	0.00155	0.000394	0.00067	"	"	"	"	"	
Fluorene	0.0112	0.000286	0.00067	"	"	"	"	"	
Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	"	"	"	"	"	

Origins Laboratory, Inc.



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 112 High St.
 Buffalo WY 82834

Joel Mason
 Project Number: FEO.CO.0701.33
 Project: FEO - Damfino Delineation

SD12 @ 12"
7/31/2023 12:30:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.
Y308042-12 (Soil)

PAH by 8270D SIM

Naphthalene	ND	0.00145	0.00201	mg/Kg	1	L696748	08/04/2023	08/04/2023	
Pyrene	0.0214	0.000643	0.00067	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	55 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	51.7 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	45.6 %		29-110			"	"	"	

pH in Soil by 9045D

pH	7.92			pH Units	1	B3H0822	08/08/2023	08/09/2023	
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SAR by 20B Saturated Paste

SAR	8.93			SAR	1	B3H0809	08/08/2023	08/09/2023	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	5.91		0.00500	mmhos/cm	1	B3H0822	08/08/2023	08/09/2023	
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Table 915 metals by EPA 6020B

Arsenic	3.29		0.0901	mg/kg	10	B3H0228	08/02/2023	08/08/2023	
Barium	844		9.01	"	"	"	"	"	
Cadmium	0.175		0.0901	"	"	"	"	"	

Origins Laboratory, Inc.



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Absaroka
 112 High St.
 Buffalo WY 82834

Joel Mason
 Project Number: FEO.CO.0701.33
 Project: FEO - Damfino Delineation

SD12 @ 12"

7/31/2023 12:30:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y308042-12 (Soil)

Table 915 metals by EPA 6020B

Copper	14.7		9.01	mg/kg	10	B3H0228	08/02/2023	08/08/2023	
Lead	9.05		9.01	"	"	"	"	"	
Nickel	14.6		9.01	"	"	"	"	"	
Selenium	0.194		0.0901	"	"	"	"	"	
Silver	ND		0.0901	"	"	"	"	"	
Zinc	ND		90.1	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L697014	07/31/2023	08/06/2023	
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Origins Laboratory, Inc.



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Absaroka
 112 High St.
 Buffalo WY 82834

Joel Mason
 Project Number: FEO.CO.0701.33
 Project: FEO - Damfino Delineation

SD13 @ 24"
7/31/2023 12:30:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y308042-13 (Soil)

Boron (DTPA Sorbitol)

Boron	0.134		0.0999	mg/L	1	B3H0805	08/08/2023	08/09/2023	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B3H0318	08/03/2023	08/04/2023	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	107 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B3H0334	08/03/2023	08/08/2023	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	99.7 %		70-130			"	"	"	
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Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Absaroka
112 High St.
Buffalo WY 82834

Joel Mason
Project Number: FEO.CO.0701.33
Project: FEO - Damfino Delineation

SD13 @ 24"

7/31/2023 12:30:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y308042-13 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	91.5 %		70-130			B3H03 34	08/03/2023	08/08/2023	
Surrogate: 4-Bromofluorobenzene	89.5 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	2.62		0.499	meq/L	10	[CALC]	08/08/2023	08/09/2023	
Magnesium	1.12		0.823	"	"	"	"	"	
Sodium	0.913		0.435	"	"	"	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00109	0.00201	mg/Kg	1	L696748	08/04/2023	08/04/2023	
2-Methylnaphthalene	ND	0.00194	0.00201	"	"	"	"	"	
Acenaphthene	0.000942	0.000304	0.00067	"	"	"	"	"	
Anthracene	0.00212	0.000334	0.00067	"	"	"	"	"	
Benzo(a)anthracene	ND	0.000493	0.00067	"	"	"	"	"	
Benzo(a)pyrene	ND	0.000468	0.00067	"	"	"	"	"	
Benzo(b)fluoranthene	ND	0.000585	0.00067	"	"	"	"	"	
Benzo(k)fluoranthene	ND	0.000437	0.00067	"	"	"	"	"	
Chrysene	ND	0.000624	0.00067	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"	
Fluoranthene	0.000412	0.000394	0.00067	"	"	"	"	"	J
Fluorene	0.0035	0.000286	0.00067	"	"	"	"	"	

Origins Laboratory, Inc.



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Absaroka
112 High St.
Buffalo WY 82834

Joel Mason
Project Number: FEO.CO.0701.33
Project: FEO - Damfino Delineation

SD13 @ 24"

7/31/2023 12:30:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.
Y308042-13 (Soil)

PAH by 8270D SIM

Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	mg/Kg	1	L696748	08/04/2023	08/04/2023	
Naphthalene	ND	0.00145	0.00201	"	"	"	"	"	
Pyrene	0.00608	0.000643	0.00067	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	67.2 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	79.8 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	53.9 %		29-110			"	"	"	

pH in Soil by 9045D

pH	8.10			pH Units	1	B3H0822	08/08/2023	08/09/2023	
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SAR by 20B Saturated Paste

SAR	0.668			SAR	1	B3H0809	08/08/2023	08/09/2023	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.587		0.00500	mmhos/cm	1	B3H0822	08/08/2023	08/09/2023	
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Table 915 metals by EPA 6020B

Arsenic	4.06		0.0969	mg/kg	10	B3H0228	08/02/2023	08/08/2023	
Barium	218		9.69	"	"	"	"	"	

Origins Laboratory, Inc.



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Absaroka
 112 High St.
 Buffalo WY 82834

Joel Mason
 Project Number: FEO.CO.0701.33
 Project: FEO - Damfino Delineation

SD13 @ 24"

7/31/2023 12:30:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y308042-13 (Soil)

Table 915 metals by EPA 6020B

Cadmium	0.281		0.0969	mg/kg	10	B3H0228	08/02/2023	08/08/2023	
Copper	21.7		9.69	"	"	"	"	"	
Lead	10.6		9.69	"	"	"	"	"	
Nickel	19.3		9.69	"	"	"	"	"	
Selenium	0.383		0.0969	"	"	"	"	"	
Silver	ND		0.0969	"	"	"	"	"	
Zinc	ND		96.9	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L697014	07/31/2023	08/06/2023	
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Origins Laboratory, Inc.



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Absaroka
 112 High St.
 Buffalo WY 82834

Joel Mason
 Project Number: FEO.CO.0701.33
 Project: FEO - Damfino Delineation

SDSP1 @ 6"

7/31/2023 10:15:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y308042-14 (Soil)

Boron (DTPA Sorbitol)

Boron	7.66		0.0998	mg/L	1	B3H0805	08/08/2023	08/09/2023	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	181		25.0	mg/kg	1	B3H0318	08/03/2023	08/04/2023	
Residual Range Organics (C28-C40)	490		100	"	"	"	"	"	

Surrogate: o-Terphenyl	114 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B3H0334	08/03/2023	08/08/2023	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Toluene	0.00240		0.00200	"	"	"	"	"	
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	96.7 %		70-130			"	"	"	
Surrogate: Toluene-d8	91.8 %		70-130			"	"	"	

Origins Laboratory, Inc.



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Absaroka
 112 High St.
 Buffalo WY 82834

Joel Mason
 Project Number: FEO.CO.0701.33
 Project: FEO - Damfino Delineation

SDSP1 @ 6"

7/31/2023 10:15:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y308042-14 (Soil)

GBTEX+TMBs by 8260D

Surrogate: 4-Bromofluorobenzene	91.5 %		70-130			B3H03 34	08/03/2023	08/08/2023	
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Metals by Saturated Paste by EPA 6010

Calcium	2.65		0.499	meq/L	10	[CALC]	08/08/2023	08/09/2023	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	14.5		0.435	"	"	"	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	0.00109	0.00109	0.00201	mg/Kg	1	L696748	08/04/2023	08/04/2023	J
2-Methylnaphthalene	ND	0.00194	0.00201	"	"	"	"	"	
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"	
Anthracene	0.000658	0.000334	0.00067	"	"	"	"	"	J
Benzo(a)anthracene	ND	0.000493	0.00067	"	"	"	"	"	
Benzo(a)pyrene	ND	0.000468	0.00067	"	"	"	"	"	
Benzo(b)fluoranthene	ND	0.000585	0.00067	"	"	"	"	"	
Benzo(k)fluoranthene	ND	0.000437	0.00067	"	"	"	"	"	
Chrysene	ND	0.000624	0.00067	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"	
Fluoranthene	ND	0.000394	0.00067	"	"	"	"	"	
Fluorene	0.00109	0.000286	0.00067	"	"	"	"	"	

Origins Laboratory, Inc.



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Absaroka
112 High St.
Buffalo WY 82834

Joel Mason
Project Number: FEO.CO.0701.33
Project: FEO - Damfino Delineation

SDSP1 @ 6"

7/31/2023 10:15:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.
Y308042-14 (Soil)

PAH by 8270D SIM

Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	mg/Kg	1	L696748	08/04/2023	08/04/2023	
Naphthalene	ND	0.00145	0.00201	"	"	"	"	"	
Pyrene	0.00226	0.000643	0.00067	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	54.2 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	36.4 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	44 %		29-110			"	"	"	

pH in Soil by 9045D

pH	8.18			pH Units	1	B3H0822	08/08/2023	08/09/2023	
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SAR by 20B Saturated Paste

SAR	11.3			SAR	1	B3H0809	08/08/2023	08/09/2023	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	2.43		0.00500	mmhos/cm	1	B3H0822	08/08/2023	08/09/2023	
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Table 915 metals by EPA 6020B

Arsenic	2.93		0.0868	mg/kg	10	B3H0228	08/02/2023	08/08/2023	
Barium	458		8.68	"	"	"	"	"	

Origins Laboratory, Inc.



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Absaroka
 112 High St.
 Buffalo WY 82834

Joel Mason
 Project Number: FEO.CO.0701.33
 Project: FEO - Damfino Delineation

SDSP1 @ 6"

7/31/2023 10:15:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y308042-14 (Soil)

Table 915 metals by EPA 6020B

Cadmium	0.190		0.0868	mg/kg	10	B3H0228	08/02/2023	08/08/2023	
Copper	14.3		8.68	"	"	"	"	"	
Lead	10.4		8.68	"	"	"	"	"	
Nickel	13.3		8.68	"	"	"	"	"	
Selenium	0.153		0.0868	"	"	"	"	"	
Silver	ND		0.0868	"	"	"	"	"	
Zinc	ND		86.8	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.247	0.507	mg/Kg	1	L697014	07/31/2023	08/06/2023	
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Origins Laboratory, Inc.



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Absaroka
 112 High St.
 Buffalo WY 82834

Joel Mason
 Project Number: FEO.CO.0701.33
 Project: FEO - Damfino Delineation

SDSP2 @ 6"

7/31/2023 10:20:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y308042-15 (Soil)

Boron (DTPA Sorbitol)

Boron	2.50		0.101	mg/L	1	B3H0805	08/08/2023	08/09/2023	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	25.1		25.0	mg/kg	1	B3H0318	08/03/2023	08/04/2023	
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: <i>o</i> -Terphenyl	107 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B3H0334	08/03/2023	08/08/2023	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	97.3 %		70-130			"	"	"	
Surrogate: Toluene-d8	92.0 %		70-130			"	"	"	

Origins Laboratory, Inc.



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Absaroka
 112 High St.
 Buffalo WY 82834

Joel Mason
 Project Number: FEO.CO.0701.33
 Project: FEO - Damfino Delineation

SDSP2 @ 6"

7/31/2023 10:20:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y308042-15 (Soil)

GBTEX+TMBs by 8260D

Surrogate: 4-Bromofluorobenzene	88.8 %		70-130			B3H03 34	08/03/2023	08/08/2023	
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Metals by Saturated Paste by EPA 6010

Calcium	4.37		0.499	meq/L	10	[CALC]	08/08/2023	08/09/2023	
Magnesium	1.72		0.823	"	"	"	"	"	
Sodium	10.5		0.435	"	"	"	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00109	0.00201	mg/Kg	1	L696748	08/04/2023	08/04/2023	
2-Methylnaphthalene	ND	0.00194	0.00201	"	"	"	"	"	
Acenaphthene	0.0016	0.000304	0.00067	"	"	"	"	"	
Anthracene	0.00354	0.000334	0.00067	"	"	"	"	"	
Benzo(a)anthracene	0.00101	0.000493	0.00067	"	"	"	"	"	
Benzo(a)pyrene	ND	0.000468	0.00067	"	"	"	"	"	
Benzo(b)fluoranthene	ND	0.000585	0.00067	"	"	"	"	"	
Benzo(k)fluoranthene	ND	0.000437	0.00067	"	"	"	"	"	
Chrysene	0.00159	0.000624	0.00067	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"	
Fluoranthene	0.00072	0.000394	0.00067	"	"	"	"	"	
Fluorene	0.0053	0.000286	0.00067	"	"	"	"	"	
Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	"	"	"	"	"	

Origins Laboratory, Inc.



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Absaroka
 112 High St.
 Buffalo WY 82834

Joel Mason
 Project Number: FEO.CO.0701.33
 Project: FEO - Damfino Delineation

SDSP2 @ 6"

7/31/2023 10:20:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.
Y308042-15 (Soil)

PAH by 8270D SIM

Naphthalene	ND	0.00145	0.00201	mg/Kg	1	L696748	08/04/2023	08/04/2023	
Pyrene	0.0118	0.000643	0.00067	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	70.5 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	67.7 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	54.2 %		29-110			"	"	"	

pH in Soil by 9045D

pH	8.10			pH Units	1	B3H0822	08/08/2023	08/09/2023	
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SAR by 20B Saturated Paste

SAR	6.00			SAR	1	B3H0809	08/08/2023	08/09/2023	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	1.96		0.00500	mmhos/cm	1	B3H0822	08/08/2023	08/09/2023	
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Table 915 metals by EPA 6020B

Arsenic	3.51		0.0900	mg/kg	10	B3H0228	08/02/2023	08/08/2023	
Barium	473		9.00	"	"	"	"	"	
Cadmium	0.169		0.0900	"	"	"	"	"	

Origins Laboratory, Inc.



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Absaroka
 112 High St.
 Buffalo WY 82834

Joel Mason
 Project Number: FEO.CO.0701.33
 Project: FEO - Damfino Delineation

SDSP2 @ 6"

7/31/2023 10:20:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y308042-15 (Soil)

Table 915 metals by EPA 6020B

Copper	14.8		9.00	mg/kg	10	B3H0228	08/02/2023	08/08/2023	
Lead	9.89		9.00	"	"	"	"	"	
Nickel	13.7		9.00	"	"	"	"	"	
Selenium	0.111		0.0900	"	"	"	"	"	
Silver	ND		0.0900	"	"	"	"	"	
Zinc	ND		90.0	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L697014	07/31/2023	08/06/2023	
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Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Absaroka
 112 High St.
 Buffalo WY 82834

Joel Mason
 Project Number: FEO.CO.0701.33
 Project: FEO - Damfino Delineation

SD WH2 N @ 48"
8/1/2023 11:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y308042-16 (Soil)

Boron (DTPA Sorbitol)

Boron	ND		0.0985	mg/L	1	B3H0415	08/04/2023	08/07/2023	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B3H0318	08/03/2023	08/04/2023	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: *o*-Terphenyl 114 % 50-150 " " "

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B3H0331	08/03/2023	08/04/2023	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 108 % 70-130 " " "

Origins Laboratory, Inc.



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Absaroka
112 High St.
Buffalo WY 82834

Joel Mason
Project Number: FEO.CO.0701.33
Project: FEO - Damfino Delineation

SD WH2 N @ 48"
8/1/2023 11:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y308042-16 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	96.3 %		70-130			B3H03 31	08/03/2023	08/04/2023	
Surrogate: 4-Bromofluorobenzene	99.9 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	16.4		0.499	meq/L	10	[CALC]	08/04/2023	08/07/2023	
Magnesium	6.13		0.823	"	"	"	"	"	
Sodium	4.08		0.435	"	"	"	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	0.00362	0.00109	0.00201	mg/Kg	1	L696780	08/04/2023	08/04/2023	
2-Methylnaphthalene	0.00379	0.00194	0.00201	"	"	"	"	"	
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"	
Anthracene	ND	0.000334	0.00067	"	"	"	"	"	
Benzo(a)anthracene	ND	0.000493	0.00067	"	"	"	"	"	
Benzo(a)pyrene	ND	0.000468	0.00067	"	"	"	"	"	
Benzo(b)fluoranthene	ND	0.000585	0.00067	"	"	"	"	"	
Benzo(k)fluoranthene	ND	0.000437	0.00067	"	"	"	"	"	
Chrysene	ND	0.000624	0.00067	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"	
Fluoranthene	ND	0.000394	0.00067	"	"	"	"	"	
Fluorene	0.000978	0.000286	0.00067	"	"	"	"	"	

Origins Laboratory, Inc.



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Absaroka
112 High St.
Buffalo WY 82834

Joel Mason
Project Number: FEO.CO.0701.33
Project: FEO - Damfino Delineation

SD WH2 N @ 48"
8/1/2023 11:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.
Y308042-16 (Soil)

PAH by 8270D SIM

Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	mg/Kg	1	L696780	08/04/2023	08/04/2023	
Naphthalene	0.00234	0.00145	0.00201	"	"	"	"	"	
Pyrene	0.00117	0.000643	0.00067	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	58.4 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	75.3 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	57.2 %		29-110			"	"	"	

pH in Soil by 9045D

pH	6.73			pH Units	1	B3H0420	08/04/2023	08/05/2023	
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SAR by 20B Saturated Paste

SAR	1.22			SAR	1	B3H0410	08/04/2023	08/07/2023	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	3.31		0.00500	mmhos/cm	1	B3H0420	08/04/2023	08/05/2023	
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Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L697014	07/31/2023	08/06/2023	
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Origins Laboratory, Inc.



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Absaroka
 112 High St.
 Buffalo WY 82834

Joel Mason
 Project Number: FEO.CO.0701.33
 Project: FEO - Damfino Delineation

SD WH2 N @ 48"
8/1/2023 11:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.
Y308042-16 (Soil)

Total Metals by 6020B

Arsenic	1.27	0.0855	0.25	mg/Kg	5	L698181	08/11/2023	08/14/2023	
Barium	115	0.214	1.25	"	25	"	"	08/15/2023	
Cadmium	0.145	0.026	0.25	"	5	"	"	08/14/2023	J
Copper	19.2	0.0805	0.25	"	"	"	"	"	
Lead	6.09	0.031	0.25	"	"	"	"	"	
Nickel	15.8	0.0635	0.25	"	"	"	"	"	
Selenium	0.712	0.103	0.25	"	"	"	"	"	
Silver	0.0548	0.0067	0.25	"	"	"	"	"	JB
Zinc	56.2	0.535	2.5	"	"	"	"	"	

Origins Laboratory, Inc.



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Absaroka
 112 High St.
 Buffalo WY 82834

Joel Mason
 Project Number: FEO.CO.0701.33
 Project: FEO - Damfino Delineation

SD WH3 SE @ 48"
8/1/2023 11:10:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y308042-17 (Soil)

Boron (DTPA Sorbitol)

Boron	0.247		0.0993	mg/L	1	B3H0415	08/04/2023	08/07/2023	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	349		25.0	mg/kg	1	B3H0318	08/03/2023	08/04/2023	
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: <i>o</i> -Terphenyl	116 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B3H0331	08/03/2023	08/04/2023	U
1,3,5-Trimethylbenzene	0.00274		0.00200	"	"	"	"	"	
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	0.986		0.200	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	109 %		70-130			"	"	"	
Surrogate: Toluene-d8	92.4 %		70-130			"	"	"	

Origins Laboratory, Inc.



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Absaroka
112 High St.
Buffalo WY 82834

Joel Mason
Project Number: FEO.CO.0701.33
Project: FEO - Damfino Delineation

SD WH3 SE @ 48"
8/1/2023 11:10:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y308042-17 (Soil)

GBTEX+TMBs by 8260D

Surrogate: 4-Bromofluorobenzene	100 %		70-130			B3H03 31	08/03/2023	08/04/2023	
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Metals by Saturated Paste by EPA 6010

Calcium	12.3		0.499	meq/L	10	[CALC]	08/04/2023	08/07/2023	
Magnesium	4.19		0.823	"	"	"	"	"	
Sodium	13.2		0.435	"	"	"	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	0.0769	0.00549	0.0101	mg/Kg	5	L696780	08/04/2023	08/04/2023	
2-Methylnaphthalene	0.0486	0.00972	0.0101	"	"	"	"	"	
Acenaphthene	0.0169	0.00152	0.00335	"	"	"	"	"	
Anthracene	0.00472	0.00167	0.00335	"	"	"	"	"	
Benzo(a)anthracene	0.00578	0.00247	0.00335	"	"	"	"	"	
Benzo(a)pyrene	0.00501	0.00234	0.00335	"	"	"	"	"	
Benzo(b)fluoranthene	ND	0.00293	0.00335	"	"	"	"	"	
Benzo(k)fluoranthene	ND	0.00219	0.00335	"	"	"	"	"	
Chrysene	0.0143	0.00312	0.00335	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.00307	0.00335	"	"	"	"	"	
Fluoranthene	ND	0.00197	0.00335	"	"	"	"	"	
Fluorene	0.031	0.00143	0.00335	"	"	"	"	"	
Indeno(1,2,3-cd)pyrene	ND	0.00314	0.00335	"	"	"	"	"	

Origins Laboratory, Inc.



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Absaroka
 112 High St.
 Buffalo WY 82834

Joel Mason
 Project Number: FEO.CO.0701.33
 Project: FEO - Damfino Delineation

SD WH3 SE @ 48"
8/1/2023 11:10:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.
Y308042-17 (Soil)

PAH by 8270D SIM

Naphthalene	0.0335	0.0073	0.0101	mg/Kg	5	L696780	08/04/2023	08/04/2023	
Pyrene	0.0245	0.00322	0.00335	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	62.1 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	64.2 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	59.1 %		29-110			"	"	"	

pH in Soil by 9045D

pH	7.31			pH Units	1	B3H0420	08/04/2023	08/05/2023	
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SAR by 20B Saturated Paste

SAR	4.60			SAR	1	B3H0410	08/04/2023	08/07/2023	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	3.63		0.00500	mmhos/cm	1	B3H0420	08/04/2023	08/05/2023	
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Table 915 metals by EPA 6020B

Arsenic	4.17		0.0960	mg/kg	10	B3H0228	08/02/2023	08/08/2023	
Barium	2040		9.60	"	"	"	"	"	
Cadmium	0.424		0.0960	"	"	"	"	"	

Origins Laboratory, Inc.



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Absaroka
 112 High St.
 Buffalo WY 82834

Joel Mason
 Project Number: FEO.CO.0701.33
 Project: FEO - Damfino Delineation

SD WH3 SE @ 48"
8/1/2023 11:10:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y308042-17 (Soil)

Table 915 metals by EPA 6020B

Copper	24.3		9.60	mg/kg	10	B3H0228	08/02/2023	08/08/2023	
Lead	9.71		9.60	"	"	"	"	"	
Nickel	17.7		9.60	"	"	"	"	"	
Selenium	0.634		0.0960	"	"	"	"	"	
Silver	ND		0.0960	"	"	"	"	"	
Zinc	ND		96.0	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L697015	07/31/2023	08/08/2023	
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Origins Laboratory, Inc.



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Absaroka
 112 High St.
 Buffalo WY 82834

Joel Mason
 Project Number: FEO.CO.0701.33
 Project: FEO - Damfino Delineation

SD WH1 E @ 24"
8/1/2023 11:10:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y308042-18 (Soil)

Boron (DTPA Sorbitol)

Boron	0.182		0.0986	mg/L	1	B3H0415	08/04/2023	08/07/2023	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	337		25.0	mg/kg	1	B3H0318	08/03/2023	08/04/2023	
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	116 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B3H0331	08/03/2023	08/04/2023	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	3.49		0.200	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	108 %		70-130			"	"	"	
Surrogate: Toluene-d8	93.0 %		70-130			"	"	"	

Origins Laboratory, Inc.



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Absaroka
 112 High St.
 Buffalo WY 82834

Joel Mason
 Project Number: FEO.CO.0701.33
 Project: FEO - Damfino Delineation

SD WH1 E @ 24"
8/1/2023 11:10:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y308042-18 (Soil)

GBTEX+TMBs by 8260D

Surrogate: 4-Bromofluorobenzene 101 % 70-130 B3H03 08/03/2023 08/04/2023
 31

Metals by Saturated Paste by EPA 6010

Calcium	7.87	0.499	meq/L	10	[CALC]	08/04/2023	08/07/2023
Magnesium	2.80	0.823	"	"	"	"	"
Sodium	21.6	0.435	"	"	"	"	"

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00549	0.0101	mg/Kg	5	L696780	08/04/2023	08/04/2023
2-Methylnaphthalene	ND	0.00972	0.0101	"	"	"	"	"
Acenaphthene	0.00588	0.00152	0.00335	"	"	"	"	"
Anthracene	0.00846	0.00167	0.00335	"	"	"	"	"
Benzo(a)anthracene	ND	0.00247	0.00335	"	"	"	"	"
Benzo(a)pyrene	ND	0.00234	0.00335	"	"	"	"	"
Benzo(b)fluoranthene	ND	0.00293	0.00335	"	"	"	"	"
Benzo(k)fluoranthene	ND	0.00219	0.00335	"	"	"	"	"
Chrysene	0.00401	0.00312	0.00335	"	"	"	"	"
Dibenz(a,h)anthracene	ND	0.00307	0.00335	"	"	"	"	"
Fluoranthene	0.00665	0.00197	0.00335	"	"	"	"	"
Fluorene	ND	0.00143	0.00335	"	"	"	"	"

Origins Laboratory, Inc.



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Absaroka
112 High St.
Buffalo WY 82834

Joel Mason
Project Number: FEO.CO.0701.33
Project: FEO - Damfino Delineation

SD WH1 E @ 24"
8/1/2023 11:10:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.
Y308042-18 (Soil)

PAH by 8270D SIM

Indeno(1,2,3-cd)pyrene	ND	0.00314	0.00335	mg/Kg	5	L696780	08/04/2023	08/04/2023	
Naphthalene	ND	0.0073	0.0101	"	"	"	"	"	
Pyrene	0.0497	0.00322	0.00335	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	68.4 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	79.9 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	60.2 %		29-110			"	"	"	

pH in Soil by 9045D

pH	6.97			pH Units	1	B3H0420	08/04/2023	08/05/2023	
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SAR by 20B Saturated Paste

SAR	9.34			SAR	1	B3H0410	08/04/2023	08/07/2023	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	3.64		0.00500	mmhos/cm	1	B3H0420	08/04/2023	08/05/2023	
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Table 915 metals by EPA 6020B

Arsenic	4.27		0.0835	mg/kg	10	B3H0228	08/02/2023	08/08/2023	
Barium	228		8.35	"	"	"	"	"	

Origins Laboratory, Inc.



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Absaroka
 112 High St.
 Buffalo WY 82834

Joel Mason
 Project Number: FEO.CO.0701.33
 Project: FEO - Damfino Delineation

SD WH1 E @ 24"
8/1/2023 11:10:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y308042-18 (Soil)

Table 915 metals by EPA 6020B

Cadmium	0.317		0.0835	mg/kg	10	B3H0228	08/02/2023	08/08/2023	
Copper	24.1		8.35	"	"	"	"	"	
Lead	11.3		8.35	"	"	"	"	"	
Nickel	20.9		8.35	"	"	"	"	"	
Selenium	0.364		0.0835	"	"	"	"	"	
Silver	ND		0.0835	"	"	"	"	"	
Zinc	ND		83.5	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L697015	07/31/2023	08/08/2023	
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Origins Laboratory, Inc.



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Absaroka
 112 High St.
 Buffalo WY 82834

Joel Mason
 Project Number: FEO.CO.0701.33
 Project: FEO - Damfino Delineation

SD WH5 SW @ 48"
8/1/2023 11:15:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y308042-19 (Soil)

Boron (DTPA Sorbitol)

Boron	0.388		0.0987	mg/L	1	B3H0415	08/04/2023	08/07/2023	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B3H0318	08/03/2023	08/04/2023	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	84.8 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B3H0331	08/03/2023	08/04/2023	U
1,3,5-Trimethylbenzene	0.00280		0.00200	"	"	"	"	"	
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	1.88		0.200	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	108 %		70-130			"	"	"	
Surrogate: Toluene-d8	95.9 %		70-130			"	"	"	

Origins Laboratory, Inc.



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Absaroka
112 High St.
Buffalo WY 82834

Joel Mason
Project Number: FEO.CO.0701.33
Project: FEO - Damfino Delineation

SD WH5 SW @ 48"
8/1/2023 11:15:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y308042-19 (Soil)

GBTEX+TMBs by 8260D

Surrogate: 4-Bromofluorobenzene	101 %		70-130			B3H03 31	08/03/2023	08/04/2023	
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Metals by Saturated Paste by EPA 6010

Calcium	ND		0.499	meq/L	10	[CALC]	08/04/2023	08/07/2023	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	11.5		0.435	"	"	"	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	0.0109	0.00109	0.00201	mg/Kg	1	L696780	08/04/2023	08/04/2023	
2-Methylnaphthalene	0.00392	0.00194	0.00201	"	"	"	"	"	
Acenaphthene	0.00309	0.000304	0.00067	"	"	"	"	"	
Anthracene	0.00127	0.000334	0.00067	"	"	"	"	"	
Benzo(a)anthracene	ND	0.000493	0.00067	"	"	"	"	"	
Benzo(a)pyrene	ND	0.000468	0.00067	"	"	"	"	"	
Benzo(b)fluoranthene	ND	0.000585	0.00067	"	"	"	"	"	
Benzo(k)fluoranthene	ND	0.000437	0.00067	"	"	"	"	"	
Chrysene	0.000804	0.000624	0.00067	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"	
Fluoranthene	0.0007	0.000394	0.00067	"	"	"	"	"	
Fluorene	0.00498	0.000286	0.00067	"	"	"	"	"	
Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	"	"	"	"	"	

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Absaroka
 112 High St.
 Buffalo WY 82834

Joel Mason
 Project Number: FEO.CO.0701.33
 Project: FEO - Damfino Delineation

SD WH5 SW @ 48"
8/1/2023 11:15:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.
Y308042-19 (Soil)

PAH by 8270D SIM

Naphthalene	0.00145	0.00145	0.00201	mg/Kg	1	L696780	08/04/2023	08/04/2023	J
Pyrene	0.00618	0.000643	0.00067	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	60.2 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	91.3 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	56.9 %		29-110			"	"	"	

pH in Soil by 9045D

pH	8.10			pH Units	1	B3H0420	08/04/2023	08/05/2023	
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SAR by 20B Saturated Paste

SAR	22.3			SAR	1	B3H0410	08/04/2023	08/07/2023	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	1.13		0.00500	mmhos/cm	1	B3H0420	08/04/2023	08/05/2023	
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Table 915 metals by EPA 6020B

Arsenic	3.79		0.0953	mg/kg	10	B3H0228	08/02/2023	08/08/2023	
Barium	258		9.53	"	"	"	"	"	
Cadmium	0.266		0.0953	"	"	"	"	"	

Origins Laboratory, Inc.



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Absaroka
 112 High St.
 Buffalo WY 82834

Joel Mason
 Project Number: FEO.CO.0701.33
 Project: FEO - Damfino Delineation

SD WH5 SW @ 48"
8/1/2023 11:15:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y308042-19 (Soil)

Table 915 metals by EPA 6020B

Copper	21.4		9.53	mg/kg	10	B3H0228	08/02/2023	08/08/2023	
Lead	9.98		9.53	"	"	"	"	"	
Nickel	17.7		9.53	"	"	"	"	"	
Selenium	0.325		0.0953	"	"	"	"	"	
Silver	ND		0.0953	"	"	"	"	"	
Zinc	ND		95.3	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L697015	07/31/2023	08/08/2023	
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Origins Laboratory, Inc.



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Absaroka
 112 High St.
 Buffalo WY 82834

Joel Mason
 Project Number: FEO.CO.0701.33
 Project: FEO - Damfino Delineation

SD WH4 S @ 48"
8/1/2023 11:20:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y308042-20 (Soil)

Boron (DTPA Sorbitol)

Boron	0.324		0.0986	mg/L	1	B3H0415	08/04/2023	08/07/2023	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B3H0318	08/03/2023	08/04/2023	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	94.5 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B3H0331	08/03/2023	08/04/2023	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	104 %		70-130			"	"	"	
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Origins Laboratory, Inc.



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Absaroka
 112 High St.
 Buffalo WY 82834

Joel Mason
 Project Number: FEO.CO.0701.33
 Project: FEO - Damfino Delineation

SD WH4 S @ 48"
8/1/2023 11:20:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y308042-20 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	95.1 %		70-130			B3H03 31	08/03/2023	08/04/2023	
Surrogate: 4-Bromofluorobenzene	101 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	ND		0.499	meq/L	10	[CALC]	08/04/2023	08/07/2023	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	5.14		0.435	"	"	"	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	0.00863	0.00109	0.00201	mg/Kg	1	L696780	08/04/2023	08/04/2023	
2-Methylnaphthalene	0.00807	0.00194	0.00201	"	"	"	"	"	
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"	
Anthracene	ND	0.000334	0.00067	"	"	"	"	"	
Benzo(a)anthracene	ND	0.000493	0.00067	"	"	"	"	"	
Benzo(a)pyrene	ND	0.000468	0.00067	"	"	"	"	"	
Benzo(b)fluoranthene	ND	0.000585	0.00067	"	"	"	"	"	
Benzo(k)fluoranthene	ND	0.000437	0.00067	"	"	"	"	"	
Chrysene	ND	0.000624	0.00067	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"	
Fluoranthene	ND	0.000394	0.00067	"	"	"	"	"	

Origins Laboratory, Inc.



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Absaroka
112 High St.
Buffalo WY 82834

Joel Mason
Project Number: FEO.CO.0701.33
Project: FEO - Damfino Delineation

SD WH4 S @ 48"
8/1/2023 11:20:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.
Y308042-20 (Soil)

PAH by 8270D SIM

Fluorene	0.0011	0.000286	0.00067	mg/Kg	1	L696780	08/04/2023	08/04/2023	
Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	"	"	"	"	"	
Naphthalene	0.00279	0.00145	0.00201	"	"	"	"	"	
Pyrene	ND	0.000643	0.00067	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	63.4 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	84 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	57.8 %		29-110			"	"	"	

pH in Soil by 9045D

pH	8.15			pH Units	1	B3H0420	08/04/2023	08/05/2023	
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SAR by 20B Saturated Paste

SAR	12.5			SAR	1	B3H0410	08/04/2023	08/07/2023	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.590		0.00500	mmhos/cm	1	B3H0420	08/04/2023	08/05/2023	
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Table 915 metals by EPA 6020B

Arsenic	3.85		0.0956	mg/kg	10	B3H0228	08/02/2023	08/08/2023	
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Origins Laboratory, Inc.



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Absaroka
 112 High St.
 Buffalo WY 82834

Joel Mason
 Project Number: FEO.CO.0701.33
 Project: FEO - Damfino Delineation

SD WH4 S @ 48"
8/1/2023 11:20:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y308042-20 (Soil)

Table 915 metals by EPA 6020B

Barium	204		9.56	mg/kg	10	B3H0228	08/02/2023	08/08/2023	
Cadmium	0.318		0.0956	"	"	"	"	"	
Copper	21.9		9.56	"	"	"	"	"	
Lead	10.2		9.56	"	"	"	"	"	
Nickel	18.7		9.56	"	"	"	"	"	
Selenium	0.330		0.0956	"	"	"	"	"	
Silver	ND		0.0956	"	"	"	"	"	
Zinc	ND		95.6	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L697015	07/31/2023	08/08/2023	
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Absaroka
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Joel Mason
 Project Number: FEO.CO.0701.33
 Project: FEO - Damfino Delineation

SD8 @ 48"

8/1/2023 11:25:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y308042-21 (Soil)

Boron (DTPA Sorbitol)

Boron	0.165		0.0988	mg/L	1	B3H0805	08/08/2023	08/09/2023	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B3H0319	08/03/2023	08/04/2023	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	91.0 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	0.00306		0.00200	mg/kg	1	B3H0331	08/03/2023	08/04/2023	
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	0.00348		0.00200	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	105 %		70-130			"	"	"	
Surrogate: Toluene-d8	95.4 %		70-130			"	"	"	

Origins Laboratory, Inc.



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Absaroka
 112 High St.
 Buffalo WY 82834

Joel Mason
 Project Number: FEO.CO.0701.33
 Project: FEO - Damfino Delineation

SD8 @ 48"
8/1/2023 11:25:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y308042-21 (Soil)

GBTEX+TMBs by 8260D

Surrogate: 4-Bromofluorobenzene	99.0 %		70-130			B3H03 31	08/03/2023	08/04/2023	
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Metals by Saturated Paste by EPA 6010

Calcium	ND		0.499	meq/L	10	[CALC]	08/08/2023	08/09/2023	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	2.73		0.435	"	"	"	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00109	0.00201	mg/Kg	1	L696780	08/04/2023	08/04/2023	
2-Methylnaphthalene	ND	0.00194	0.00201	"	"	"	"	"	
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"	
Anthracene	ND	0.000334	0.00067	"	"	"	"	"	
Benzo(a)anthracene	ND	0.000493	0.00067	"	"	"	"	"	
Benzo(a)pyrene	ND	0.000468	0.00067	"	"	"	"	"	
Benzo(b)fluoranthene	ND	0.000585	0.00067	"	"	"	"	"	
Benzo(k)fluoranthene	ND	0.000437	0.00067	"	"	"	"	"	
Chrysene	ND	0.000624	0.00067	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"	
Fluoranthene	ND	0.000394	0.00067	"	"	"	"	"	
Fluorene	ND	0.000286	0.00067	"	"	"	"	"	

Origins Laboratory, Inc.



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 Buffalo WY 82834

Joel Mason
 Project Number: FEO.CO.0701.33
 Project: FEO - Damfino Delineation

SD8 @ 48"

8/1/2023 11:25:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.
Y308042-21 (Soil)

PAH by 8270D SIM

Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	mg/Kg	1	L696780	08/04/2023	08/04/2023	
Naphthalene	ND	0.00145	0.00201	"	"	"	"	"	
Pyrene	ND	0.000643	0.00067	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	61.7 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	83.6 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	57.1 %		29-110			"	"	"	

pH in Soil by 9045D

pH	7.80			pH Units	1	B3H0822	08/08/2023	08/09/2023	
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SAR by 20B Saturated Paste

SAR	6.41			SAR	1	B3H0809	08/08/2023	08/09/2023	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.640		0.00500	mmhos/cm	1	B3H0822	08/08/2023	08/09/2023	
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Table 915 metals by EPA 6020B

Arsenic	3.73		0.0969	mg/kg	10	B3H0229	08/02/2023	08/03/2023	
Barium	192		9.69	"	"	"	"	"	

Origins Laboratory, Inc.



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Absaroka
 112 High St.
 Buffalo WY 82834

Joel Mason
 Project Number: FEO.CO.0701.33
 Project: FEO - Damfino Delineation

SD8 @ 48"

8/1/2023 11:25:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y308042-21 (Soil)

Table 915 metals by EPA 6020B

Cadmium	0.269		0.0969	mg/kg	10	B3H0229	08/02/2023	08/03/2023	
Copper	22.7		9.69	"	"	"	"	08/04/2023	
Lead	9.75		9.69	"	"	"	"	08/03/2023	
Nickel	17.9		9.69	"	"	"	"	"	
Selenium	0.258		0.0969	"	"	"	"	"	
Silver	ND		0.0969	"	"	"	"	"	
Zinc	ND		96.9	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L697015	07/31/2023	08/08/2023	
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Origins Laboratory, Inc.



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Absaroka
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 Buffalo WY 82834

Joel Mason
 Project Number: FEO.CO.0701.33
 Project: FEO - Damfino Delineation

SD WH6 @ 60"
8/1/2023 11:30:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y308042-22 (Soil)

Boron (DTPA Sorbitol)

Boron	0.123		0.0994	mg/L	1	B3H0805	08/08/2023	08/09/2023	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B3H0319	08/03/2023	08/04/2023	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	87.6 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B3H0331	08/03/2023	08/04/2023	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	105 %		70-130			"	"	"	
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Origins Laboratory, Inc.



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Absaroka
 112 High St.
 Buffalo WY 82834

Joel Mason
 Project Number: FEO.CO.0701.33
 Project: FEO - Damfino Delineation

SD WH6 @ 60"
8/1/2023 11:30:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y308042-22 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	95.3 %		70-130			B3H03 31	08/03/2023	08/04/2023	
Surrogate: 4-Bromofluorobenzene	99.3 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	4.74		0.499	meq/L	10	[CALC]	08/08/2023	08/09/2023	
Magnesium	1.24		0.823	"	"	"	"	"	
Sodium	1.57		0.435	"	"	"	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	0.00151	0.00109	0.00201	mg/Kg	1	L696780	08/04/2023	08/04/2023	J
2-Methylnaphthalene	ND	0.00194	0.00201	"	"	"	"	"	
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"	
Anthracene	ND	0.000334	0.00067	"	"	"	"	"	
Benzo(a)anthracene	ND	0.000493	0.00067	"	"	"	"	"	
Benzo(a)pyrene	ND	0.000468	0.00067	"	"	"	"	"	
Benzo(b)fluoranthene	ND	0.000585	0.00067	"	"	"	"	"	
Benzo(k)fluoranthene	ND	0.000437	0.00067	"	"	"	"	"	
Chrysene	ND	0.000624	0.00067	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"	
Fluoranthene	ND	0.000394	0.00067	"	"	"	"	"	

Origins Laboratory, Inc.



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Absaroka
 112 High St.
 Buffalo WY 82834

Joel Mason
 Project Number: FEO.CO.0701.33
 Project: FEO - Damfino Delineation

SD WH6 @ 60"
8/1/2023 11:30:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.
Y308042-22 (Soil)

PAH by 8270D SIM

Fluorene	ND	0.000286	0.00067	mg/Kg	1	L696780	08/04/2023	08/04/2023	
Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	"	"	"	"	"	
Naphthalene	ND	0.00145	0.00201	"	"	"	"	"	
Pyrene	ND	0.000643	0.00067	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	62.5 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	78.8 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	57.2 %		29-110			"	"	"	

pH in Soil by 9045D

pH	7.20			pH Units	1	B3H0822	08/08/2023	08/09/2023	
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SAR by 20B Saturated Paste

SAR	0.906			SAR	1	B3H0809	08/08/2023	08/09/2023	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.904		0.00500	mmhos/cm	1	B3H0822	08/08/2023	08/09/2023	
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Table 915 metals by EPA 6020B

Arsenic	3.01		0.0981	mg/kg	10	B3H0229	08/02/2023	08/03/2023	
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Absaroka
 112 High St.
 Buffalo WY 82834

Joel Mason
 Project Number: FEO.CO.0701.33
 Project: FEO - Damfino Delineation

SD WH6 @ 60"
8/1/2023 11:30:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y308042-22 (Soil)

Table 915 metals by EPA 6020B

Barium	211		9.81	mg/kg	10	B3H0229	08/02/2023	08/03/2023	
Cadmium	0.254		0.0981	"	"	"	"	"	
Copper	20.5		9.81	"	"	"	"	08/04/2023	
Lead	ND		9.81	"	"	"	"	08/03/2023	
Nickel	13.7		9.81	"	"	"	"	"	
Selenium	0.219		0.0981	"	"	"	"	"	
Silver	ND		0.0981	"	"	"	"	"	
Zinc	ND		98.1	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.246	0.505	mg/Kg	1	L697015	07/31/2023	08/08/2023	
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Joel Mason
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 Project: FEO - Damfino Delineation

SD16@16"

7/31/2023 12:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y308042-23 (Soil)

Boron (DTPA Sorbitol)

Boron	0.103		0.0992	mg/L	1	B3H0805	08/08/2023	08/09/2023	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	224		25.0	mg/kg	1	B3H0327	08/03/2023	08/04/2023	
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	94.0 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B3H0332	08/03/2023	08/06/2023	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Naphthalene	ND		0.00380	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	0.00328		0.00200	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U

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Joel Mason
 Project Number: FEO.CO.0701.33
 Project: FEO - Damfino Delineation

SD16@16"

7/31/2023 12:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y308042-23 (Soil)

GBTEX+TMBs by 8260D

Surrogate: 1,2-Dichloroethane-d4	103 %		70-130			B3H03 32	08/03/2023	08/06/2023	
Surrogate: Toluene-d8	98.7 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	96.8 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	14.1	0.499	meq/L	10	[CALC]		08/08/2023	08/09/2023	
Magnesium	4.24	0.823	"	"	"		"	"	
Sodium	8.84	0.435	"	"	"		"	"	

pH in Soil by 9045D

pH	7.83		pH Units	1	B3H0822		08/08/2023	08/09/2023	
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SAR by 20B Saturated Paste

SAR	2.92		SAR	1	B3H0809		08/08/2023	08/09/2023	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	2.79	0.00500	mmhos/cm	1	B3H0822		08/08/2023	08/09/2023	
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Table 915 metals by EPA 6020B

Arsenic	2.39	0.0948	mg/kg	10	B3H0404		08/04/2023	08/04/2023	
Barium	237	9.48	"	"	"		"	"	

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112 High St.
Buffalo WY 82834

Joel Mason
Project Number: FEO.CO.0701.33
Project: FEO - Damfino Delineation

SD16@16"

7/31/2023 12:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y308042-23 (Soil)

Table 915 metals by EPA 6020B

Cadmium	0.113		0.0948	mg/kg	10	B3H0404	08/04/2023	08/04/2023	
Copper	11.2		9.48	"	"	"	"	"	
Lead	ND		9.48	"	"	"	"	"	
Nickel	ND		9.48	"	"	"	"	"	
Selenium	0.125		0.0948	"	"	"	"	"	
Silver	ND		0.0948	"	"	"	"	"	
Zinc	ND		94.8	"	"	"	"	"	

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Joel Mason
 Project Number: FEO.CO.0701.33
 Project: FEO - Damfino Delineation

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 B3H0318 - EPA 3550B										
Blank (B3H0318-BLK1)										
					Prepared: 08/03/2023 Analyzed: 08/04/2023					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	28		"	24.9		115	50-150			

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 Project: FEO - Damfino Delineation

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 B3H0318 - EPA 3550B

LCS (B3H0318-BS1)

Prepared: 08/03/2023 Analyzed: 08/04/2023

Diesel (C10-C28)	854	50.0	mg/kg	1000		85.4	70-130			
Residual Range Organics (C28-C40)	862	200	"	1000		86.2	70-130			
Surrogate: o-Terphenyl	57		"	49.8		114	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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Batch B3H0318 - EPA 3550B

Matrix Spike (B3H0318-MS1)	Source: Y308042-01			Prepared: 08/03/2023 Analyzed: 08/04/2023						
Diesel (C10-C28)	892	50.0	mg/kg	1000	ND	89.2	70-130			
Residual Range Organics (C28-C40)	923	200	"	1000	ND	92.3	70-130			
Surrogate: o-Terphenyl	56		"	49.8		112	50-150			

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 Project: FEO - Damfino Delineation

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 B3H0318 - EPA 3550B										
Matrix Spike Dup (B3H0318-MSD1)		Source: Y308042-01			Prepared: 08/03/2023 Analyzed: 08/04/2023					
Diesel (C10-C28)	935	50.0	mg/kg	1000	ND	93.5	70-130	4.68	35	
Residual Range Organics (C28-C40)	964	200	"	1000	ND	96.4	70-130	4.36	35	
Surrogate: o-Terphenyl	55		"	49.8		111	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
Batch B3H0319 - EPA 3550B										
Blank (B3H0319-BLK1)										
					Prepared: 08/03/2023 Analyzed: 08/04/2023					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	23		"	24.9		93.2	50-150			

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Extractable Petroleum Hydrocarbons by 8015D - Quality Control
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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B3H0319 - EPA 3550B

LCS (B3H0319-BS1)

Prepared: 08/03/2023 Analyzed: 08/04/2023

Diesel (C10-C28)	883	50.0	mg/kg	1000		88.3	70-130			
Residual Range Organics (C28-C40)	881	200	"	1000		88.1	70-130			
Surrogate: o-Terphenyl	54		"	49.8		108	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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Batch B3H0319 - EPA 3550B

Matrix Spike (B3H0319-MS1)	Source: Y308042-21			Prepared: 08/03/2023 Analyzed: 08/04/2023						
Diesel (C10-C28)	910	50.0	mg/kg	1000	ND	91.0	70-130			
Residual Range Organics (C28-C40)	886	200	"	1000	ND	88.6	70-130			
Surrogate: o-Terphenyl	50		"	49.8		100	50-150			

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 Project: FEO - Damfino Delineation

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 B3H0319 - EPA 3550B										
Matrix Spike Dup (B3H0319-MSD1)		Source: Y308042-21			Prepared: 08/03/2023 Analyzed: 08/04/2023					
Diesel (C10-C28)	893	50.0	mg/kg	1000	ND	89.3	70-130	1.88	35	
Residual Range Organics (C28-C40)	876	200	"	1000	ND	87.6	70-130	1.20	35	
Surrogate: o-Terphenyl	49		"	49.8		99.3	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
Batch B3H0327 - EPA 3550B										
Blank (B3H0327-BLK1)										
					Prepared: 08/03/2023 Analyzed: 08/03/2023					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	23		"	24.9		94.2	50-150			

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Joel Mason
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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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Batch B3H0327 - EPA 3550B

LCS (B3H0327-BS1)

Prepared: 08/03/2023 Analyzed: 08/03/2023

Diesel (C10-C28)	1140	50.0	mg/kg	1000		114	70-130			
Residual Range Organics (C28-C40)	1210	200	"	1000		121	70-130			
Surrogate: o-Terphenyl	59		"	49.8		119	50-150			

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Joel Mason
 Project Number: FEO.CO.0701.33
 Project: FEO - Damfino Delineation

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 B3H0327 - EPA 3550B

Matrix Spike (B3H0327-MS1)	Source: Y308089-01			Prepared: 08/03/2023 Analyzed: 08/03/2023						
Diesel (C10-C28)	1010	50.0	mg/kg	1000	ND	101	70-130			
Residual Range Organics (C28-C40)	1070	200	"	1000	ND	107	70-130			
Surrogate: o-Terphenyl	50		"	49.8		100	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
Batch B3H0327 - EPA 3550B										
Matrix Spike Dup (B3H0327-MSD1)					Source: Y308089-01					Prepared: 08/03/2023 Analyzed: 08/03/2023
Diesel (C10-C28)	992	50.0	mg/kg	1000	ND	99.2	70-130	2.23	35	
Residual Range Organics (C28-C40)	1040	200	"	1000	ND	104	70-130	2.91	35	
Surrogate: o-Terphenyl	49		"	49.8		99.0	50-150			

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Joel Mason
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 Project: FEO - Damfino Delineation

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 B3H0331 - EPA 5030 (soil)

Blank (B3H0331-BLK1)

Prepared: 08/03/2023 Analyzed: 08/04/2023

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							U
1,3,5-Trimethylbenzene	ND	0.00200	"							U
Benzene	ND	0.00200	"							U
Ethylbenzene	ND	0.00200	"							U
Naphthalene	ND	0.00380	"							U
Toluene	ND	0.00200	"							U
Xylenes, total	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		98.9	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.3	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		98.1	70-130			

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 112 High St.
 Buffalo WY 82834

Joel Mason
 Project Number: FEO.CO.0701.33
 Project: FEO - Damfino Delineation

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 B3H0331 - EPA 5030 (soil)

LCS (B3H0331-BS1)

Prepared: 08/03/2023 Analyzed: 08/04/2023

1,2,4-Trimethylbenzene	0.107	0.00200	mg/kg	0.100		107	70-130			
1,3,5-Trimethylbenzene	0.108	0.00200	"	0.100		108	70-130			
Benzene	0.0975	0.00200	"	0.100		97.5	70-130			
Ethylbenzene	0.102	0.00200	"	0.100		102	70-130			
Naphthalene	0.0881	0.00380	"	0.100		88.1	70-130			
Toluene	0.0924	0.00200	"	0.100		92.4	70-130			
o-Xylene	0.103	0.00200	"	0.100		103	70-130			
m,p-Xylene	0.202	0.00400	"	0.200		101	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		97.1	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.9	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		99.7	70-130			

Origins Laboratory, Inc.



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Absaroka
 112 High St.
 Buffalo WY 82834

Joel Mason
 Project Number: FEO.CO.0701.33
 Project: FEO - Damfino Delineation

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 B3H0331 - EPA 5030 (soil)

Matrix Spike (B3H0331-MS1)	Source: Y307670-01			Prepared: 08/03/2023 Analyzed: 08/04/2023						
1,2,4-Trimethylbenzene	0.0887	0.00200	mg/kg	0.100	ND	88.7	70-130			
1,3,5-Trimethylbenzene	0.0898	0.00200	"	0.100	ND	89.8	70-130			
Benzene	0.0824	0.00200	"	0.100	ND	82.4	70-130			
Ethylbenzene	0.0875	0.00200	"	0.100	ND	87.5	70-130			
Naphthalene	0.0662	0.00380	"	0.100	ND	66.2	70-130			QM-07
Toluene	0.0781	0.00200	"	0.100	ND	78.1	70-130			
o-Xylene	0.0877	0.00200	"	0.100	ND	87.7	70-130			
m,p-Xylene	0.171	0.00400	"	0.200	ND	85.6	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		97.9	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		99.4	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		102	70-130			

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 112 High St.
 Buffalo WY 82834

Joel Mason
 Project Number: FEO.CO.0701.33
 Project: FEO - Damfino Delineation

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 B3H0331 - EPA 5030 (soil)

Matrix Spike Dup (B3H0331-MSD1)	Source: Y307670-01			Prepared: 08/03/2023 Analyzed: 08/04/2023						
1,2,4-Trimethylbenzene	0.0841	0.00200	mg/kg	0.100	ND	84.1	70-130	5.30	20	
1,3,5-Trimethylbenzene	0.0836	0.00200	"	0.100	ND	83.6	70-130	7.10	20	
Benzene	0.0838	0.00200	"	0.100	ND	83.8	70-130	1.69	20	
Ethylbenzene	0.0831	0.00200	"	0.100	ND	83.1	70-130	5.16	20	
Naphthalene	0.0678	0.00380	"	0.100	ND	67.8	70-130	2.42	20	QM-07
Toluene	0.0747	0.00200	"	0.100	ND	74.7	70-130	4.40	20	
o-Xylene	0.0836	0.00200	"	0.100	ND	83.6	70-130	4.76	20	
m,p-Xylene	0.163	0.00400	"	0.200	ND	81.5	70-130	4.87	20	
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		99.5	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		94.7	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		102	70-130			

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Joel Mason
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 Project: FEO - Damfino Delineation

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 B3H0332 - EPA 5030 (soil)

Blank (B3H0332-BLK1)

Prepared: 08/03/2023 Analyzed: 08/06/2023

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							U
1,3,5-Trimethylbenzene	ND	0.00200	"							U
Benzene	ND	0.00200	"							U
Ethylbenzene	ND	0.00200	"							U
Naphthalene	ND	0.00380	"							U
Toluene	ND	0.00200	"							U
Xylenes, total	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125	98.4		70-130			
Surrogate: Toluene-d8	0.13		"	0.125	102		70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125	100		70-130			

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 Project: FEO - Damfino Delineation

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 B3H0332 - EPA 5030 (soil)

LCS (B3H0332-BS1)

Prepared: 08/03/2023 Analyzed: 08/06/2023

1,2,4-Trimethylbenzene	0.111	0.00200	mg/kg	0.100		111	70-130			
1,3,5-Trimethylbenzene	0.114	0.00200	"	0.100		114	70-130			
Benzene	0.115	0.00200	"	0.100		115	70-130			
Ethylbenzene	0.112	0.00200	"	0.100		112	70-130			
Naphthalene	0.100	0.00380	"	0.100		100	70-130			
Toluene	0.112	0.00200	"	0.100		112	70-130			
o-Xylene	0.110	0.00200	"	0.100		110	70-130			
m,p-Xylene	0.222	0.00400	"	0.200		111	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125		89.8	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		105	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		101	70-130			

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 Project: FEO - Damfino Delineation

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 B3H0332 - EPA 5030 (soil)

Matrix Spike (B3H0332-MS1)	Source: Y308029-01			Prepared: 08/03/2023 Analyzed: 08/06/2023						
1,2,4-Trimethylbenzene	0.118	0.00200	mg/kg	0.100	0.000880	117	70-130			
1,3,5-Trimethylbenzene	0.123	0.00200	"	0.100	0.000940	122	70-130			
Benzene	0.125	0.00200	"	0.100	ND	125	70-130			
Ethylbenzene	0.119	0.00200	"	0.100	0.00120	118	70-130			
Naphthalene	0.106	0.00380	"	0.100	0.000760	106	70-130			
Toluene	0.118	0.00200	"	0.100	0.00134	117	70-130			
o-Xylene	0.117	0.00200	"	0.100	0.00110	116	70-130			
m,p-Xylene	0.236	0.00400	"	0.200	0.00230	117	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		93.0	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		101	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		99.9	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 B3H0332 - EPA 5030 (soil)

Matrix Spike Dup (B3H0332-MSD1)	Source: Y308029-01			Prepared: 08/03/2023 Analyzed: 08/06/2023						
1,2,4-Trimethylbenzene	0.0999	0.00200	mg/kg	0.100	0.000880	99.0	70-130	16.6	20	
1,3,5-Trimethylbenzene	0.102	0.00200	"	0.100	0.000940	101	70-130	18.9	20	
Benzene	0.112	0.00200	"	0.100	ND	112	70-130	11.3	20	
Ethylbenzene	0.0973	0.00200	"	0.100	0.00120	96.1	70-130	20.3	20	QR-02
Naphthalene	0.104	0.00380	"	0.100	0.000760	104	70-130	2.01	20	
Toluene	0.105	0.00200	"	0.100	0.00134	103	70-130	12.0	20	
o-Xylene	0.0971	0.00200	"	0.100	0.00110	96.0	70-130	18.6	20	
m,p-Xylene	0.192	0.00400	"	0.200	0.00230	94.8	70-130	20.7	20	QR-02
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		93.6	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		101	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		98.1	70-130			

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 Project: FEO - Damfino Delineation

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 B3H0334 - EPA 5030 (soil)

Blank (B3H0334-BLK1)

Prepared: 08/03/2023 Analyzed: 08/07/2023

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							U
1,3,5-Trimethylbenzene	ND	0.00200	"							U
Benzene	ND	0.00200	"							U
Ethylbenzene	ND	0.00200	"							U
Naphthalene	ND	0.00380	"							U
Toluene	ND	0.00200	"							U
Xylenes, total	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125	93.2		70-130			
Surrogate: Toluene-d8	0.12		"	0.125	92.3		70-130			
Surrogate: 4-Bromofluorobenzene	0.11		"	0.125	88.8		70-130			

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Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B3H0334 - EPA 5030 (soil)

LCS (B3H0334-BS1)

Prepared: 08/03/2023 Analyzed: 08/07/2023

1,2,4-Trimethylbenzene	0.103	0.00200	mg/kg	0.100		103	70-130			
1,3,5-Trimethylbenzene	0.103	0.00200	"	0.100		103	70-130			
Benzene	0.102	0.00200	"	0.100		102	70-130			
Ethylbenzene	0.0958	0.00200	"	0.100		95.8	70-130			
Naphthalene	0.0918	0.00380	"	0.100		91.8	70-130			
Toluene	0.0930	0.00200	"	0.100		93.0	70-130			
o-Xylene	0.0973	0.00200	"	0.100		97.3	70-130			
m,p-Xylene	0.199	0.00400	"	0.200		99.6	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125		89.4	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		92.4	70-130			
Surrogate: 4-Bromofluorobenzene	0.11		"	0.125		90.1	70-130			

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Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B3H0334 - EPA 5030 (soil)

Matrix Spike (B3H0334-MS1)	Source: Y308042-01			Prepared: 08/03/2023 Analyzed: 08/07/2023						
1,2,4-Trimethylbenzene	0.102	0.00200	mg/kg	0.100	ND	102	70-130			
1,3,5-Trimethylbenzene	0.103	0.00200	"	0.100	ND	103	70-130			
Benzene	0.104	0.00200	"	0.100	ND	104	70-130			
Ethylbenzene	0.0960	0.00200	"	0.100	ND	96.0	70-130			
Naphthalene	0.0831	0.00380	"	0.100	ND	83.1	70-130			
Toluene	0.0952	0.00200	"	0.100	ND	95.2	70-130			
o-Xylene	0.0980	0.00200	"	0.100	ND	98.0	70-130			
m,p-Xylene	0.190	0.00400	"	0.200	ND	94.8	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125		90.3	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		94.4	70-130			
Surrogate: 4-Bromofluorobenzene	0.11		"	0.125		89.7	70-130			

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 Project: FEO - Damfino Delineation

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 B3H0334 - EPA 5030 (soil)

Matrix Spike Dup (B3H0334-MSD1)	Source: Y308042-01			Prepared: 08/03/2023 Analyzed: 08/07/2023						
1,2,4-Trimethylbenzene	0.103	0.00200	mg/kg	0.100	ND	103	70-130	1.34	20	
1,3,5-Trimethylbenzene	0.105	0.00200	"	0.100	ND	105	70-130	2.60	20	
Benzene	0.104	0.00200	"	0.100	ND	104	70-130	0.385	20	
Ethylbenzene	0.0993	0.00200	"	0.100	ND	99.3	70-130	3.40	20	
Naphthalene	0.0897	0.00380	"	0.100	ND	89.7	70-130	7.62	20	
Toluene	0.0940	0.00200	"	0.100	ND	94.0	70-130	1.27	20	
o-Xylene	0.100	0.00200	"	0.100	ND	100	70-130	2.48	20	
m,p-Xylene	0.194	0.00400	"	0.200	ND	96.9	70-130	2.16	20	
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125		90.2	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		93.6	70-130			
Surrogate: 4-Bromofluorobenzene	0.11		"	0.125		90.7	70-130			

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Joel Mason
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 Project: FEO - Damfino Delineation

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B3H0228 - EPA 3050B

Blank (B3H0228-BLK1)

Prepared: 08/02/2023 Analyzed: 08/08/2023

Arsenic	ND	0.000100	mg/kg							
Barium	ND	0.0100	"							
Cadmium	ND	0.000100	"							
Copper	ND	0.0100	"							
Lead	ND	0.0100	"							
Nickel	ND	0.0100	"							
Selenium	ND	0.000100	"							
Silver	ND	0.000100	"							
Zinc	ND	0.100	"							

LCS (B3H0228-BS1)

Prepared: 08/02/2023 Analyzed: 08/08/2023

Arsenic	0.0568	0.000100	mg/kg	0.0500		114	80-120			
Barium	5.41	0.0100	"	5.00		108	80-120			
Cadmium	0.0535	0.000100	"	0.0500		107	80-120			
Copper	0.583	0.0100	"	0.500		117	80-120			
Lead	0.0528	0.0100	"	0.0500		106	80-120			
Nickel	0.0588	0.0100	"	0.0500		118	80-120			
Selenium	0.0492	0.000100	"	0.0500		98.3	80-120			
Silver	0.0516	0.000100	"	0.0500		103	80-120			
Zinc	0.552	0.100	"	0.500		110	80-120			

Matrix Spike (B3H0228-MS1)

Source: Y308042-01

Prepared: 08/02/2023 Analyzed: 08/08/2023

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Joel Mason
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Project: FEO - Damfino Delineation

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B3H0228 - EPA 3050B

Matrix Spike (B3H0228-MS1)		Source: Y308042-01			Prepared: 08/02/2023 Analyzed: 08/08/2023					
Arsenic	7.68	0.0883	mg/kg	4.42	4.23	78.2	75-125			
Barium	630	8.83	"	442	138	112	75-125			
Cadmium	4.73	0.0883	"	4.42	0.0977	105	75-125			
Copper	57.7	8.83	"	44.2	10.2	107	75-125			
Lead	12.4	8.83	"	4.42	8.46	88.2	75-125			
Nickel	15.3	8.83	"	4.42	10.4	111	75-125			
Selenium	4.43	0.0883	"	4.42	0.140	97.1	75-125			
Silver	4.45	0.0883	"	4.42	0.0642	99.4	75-125			
Zinc	88.7	88.3	"	44.2	43.8	102	75-125			

Matrix Spike Dup (B3H0228-MSD1)		Source: Y308042-01			Prepared: 08/02/2023 Analyzed: 08/08/2023					
Arsenic	8.66	0.0944	mg/kg	4.72	4.23	93.9	75-125	12.0	20	
Barium	681	9.44	"	472	138	115	75-125	7.82	20	
Cadmium	5.46	0.0944	"	4.72	0.0977	114	75-125	14.3	20	
Copper	65.8	9.44	"	47.2	10.2	118	75-125	13.1	20	
Lead	14.3	9.44	"	4.72	8.46	123	75-125	14.5	20	
Nickel	16.3	9.44	"	4.72	10.4	126	75-125	6.58	20	QM-07
Selenium	4.92	0.0944	"	4.72	0.140	101	75-125	10.5	20	
Silver	5.09	0.0944	"	4.72	0.0642	106	75-125	13.4	20	
Zinc	104	94.4	"	47.2	43.8	128	75-125	15.9	20	QM-07

Batch B3H0229 - EPA 3050B

Blank (B3H0229-BLK1)		Prepared: 08/02/2023 Analyzed: 08/03/2023								
Arsenic	ND	0.000100	mg/kg							
Barium	ND	0.0100	"							
Cadmium	ND	0.000100	"							

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Buffalo WY 82834

Joel Mason
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Project: FEO - Damfino Delineation

Metals by EPA 6000/7000 Series Methods - Quality Control
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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B3H0229 - EPA 3050B

Blank (B3H0229-BLK1)

Prepared: 08/02/2023 Analyzed: 08/04/2023

Copper	ND	0.0100	mg/kg							
Lead	ND	0.0100	"							
Nickel	ND	0.0100	"							
Selenium	ND	0.000100	"							
Silver	ND	0.000100	"							
Zinc	ND	0.100	"							

LCS (B3H0229-BS1)

Prepared: 08/02/2023 Analyzed: 08/03/2023

Arsenic	0.0582	0.000100	mg/kg	0.0500		116	80-120			
Barium	5.47	0.0100	"	5.00		109	80-120			
Cadmium	0.0554	0.000100	"	0.0500		111	80-120			
Copper	0.574	0.0100	"	0.500		115	80-120			
Lead	0.0530	0.0100	"	0.0500		106	80-120			
Nickel	0.0567	0.0100	"	0.0500		113	80-120			
Selenium	0.0534	0.000100	"	0.0500		107	80-120			
Silver	0.0568	0.000100	"	0.0500		114	80-120			
Zinc	0.567	0.100	"	0.500		113	80-120			

Matrix Spike (B3H0229-MS1)

Source: Y308001-05

Prepared: 08/02/2023 Analyzed: 08/03/2023

Arsenic	7.65	0.0866	mg/kg	4.33	2.34	123	75-125			
Barium	461	8.66	"	433	39.5	97.4	75-125			
Cadmium	4.57	0.0866	"	4.33	0.0557	104	75-125			
Copper	49.4	8.66	"	43.3	4.87	103	75-125			
Lead	8.77	8.66	"	4.33	4.50	98.7	75-125			
Nickel	10.5	8.66	"	4.33	5.68	110	75-125			
Selenium	4.31	0.0866	"	4.33	0.180	95.4	75-125			
Silver	4.52	0.0866	"	4.33	0.0156	104	75-125			

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Absaroka
 112 High St.
 Buffalo WY 82834

Joel Mason
 Project Number: FEO.CO.0701.33
 Project: FEO - Damfino Delineation

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B3H0229 - EPA 3050B

Matrix Spike (B3H0229-MS1)

Source: Y308001-05

Prepared: 08/02/2023 Analyzed: 08/03/2023

Zinc	63.9	86.6	mg/kg	43.3	19.7	102	75-125			
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Matrix Spike Dup (B3H0229-MSD1)

Source: Y308001-05

Prepared: 08/02/2023 Analyzed: 08/03/2023

Arsenic	8.42	0.0953	mg/kg	4.76	2.34	128	75-125	9.55	20	QM-07
Barium	517	9.53	"	476	39.5	100	75-125	11.4	20	
Cadmium	4.99	0.0953	"	4.76	0.0557	104	75-125	8.95	20	
Copper	54.6	9.53	"	47.6	4.87	104	75-125	9.92	20	
Lead	11.9	9.53	"	4.76	4.50	154	75-125	29.9	20	QM-07
Nickel	11.4	9.53	"	4.76	5.68	120	75-125	8.47	20	
Selenium	4.72	0.0953	"	4.76	0.180	95.3	75-125	9.10	20	
Silver	4.96	0.0953	"	4.76	0.0156	104	75-125	9.31	20	
Zinc	70.1	95.3	"	47.6	19.7	106	75-125	9.35	20	

Batch B3H0404 - EPA 3050B

Blank (B3H0404-BLK1)

Prepared: 08/04/2023 Analyzed: 08/04/2023

Arsenic	ND	0.000100	mg/kg							
Barium	ND	0.0100	"							
Cadmium	ND	0.000100	"							
Copper	ND	0.0100	"							
Lead	ND	0.0100	"							
Nickel	ND	0.0100	"							
Selenium	ND	0.000100	"							
Silver	ND	0.000100	"							
Zinc	ND	0.100	"							

LCS (B3H0404-BS1)

Prepared: 08/04/2023 Analyzed: 08/04/2023

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Joel Mason
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Project: FEO - Damfino Delineation

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B3H0404 - EPA 3050B

LCS (B3H0404-BS1)

Prepared: 08/04/2023 Analyzed: 08/04/2023

Arsenic	0.0524	0.000100	mg/kg	0.0500		105	80-120			
Barium	5.00	0.0100	"	5.00		99.9	80-120			
Cadmium	0.0500	0.000100	"	0.0500		100	80-120			
Copper	0.531	0.0100	"	0.500		106	80-120			
Lead	0.0503	0.0100	"	0.0500		101	80-120			
Nickel	0.0537	0.0100	"	0.0500		107	80-120			
Selenium	0.0478	0.000100	"	0.0500		95.6	80-120			
Silver	0.0517	0.000100	"	0.0500		103	80-120			
Zinc	0.564	0.100	"	0.500		113	80-120			

Matrix Spike (B3H0404-MS1)

Source: Y308042-23

Prepared: 08/04/2023 Analyzed: 08/04/2023

Arsenic	7.48	0.0951	mg/kg	4.75	2.39	107	75-125			
Barium	786	9.51	"	475	237	115	75-125			
Cadmium	5.12	0.0951	"	4.75	0.113	105	75-125			
Copper	62.9	9.51	"	47.5	11.2	109	75-125			
Lead	12.4	9.51	"	4.75	6.89	116	75-125			
Nickel	15.1	9.51	"	4.75	9.46	119	75-125			
Selenium	5.03	0.0951	"	4.75	0.125	103	75-125			
Silver	5.09	0.0951	"	4.75	0.0588	106	75-125			
Zinc	97.9	95.1	"	47.5	42.7	116	75-125			

Matrix Spike Dup (B3H0404-MSD1)

Source: Y308042-23

Prepared: 08/04/2023 Analyzed: 08/04/2023

Arsenic	6.77	0.0916	mg/kg	4.58	2.39	95.6	75-125	9.86	20	
Barium	783	9.16	"	458	237	119	75-125	0.314	20	
Cadmium	4.88	0.0916	"	4.58	0.113	104	75-125	4.91	20	
Copper	60.3	9.16	"	45.8	11.2	107	75-125	4.24	20	
Lead	12.6	9.16	"	4.58	6.89	124	75-125	1.04	20	

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 112 High St.
 Buffalo WY 82834

Joel Mason
 Project Number: FEO.CO.0701.33
 Project: FEO - Damfino Delineation

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B3H0404 - EPA 3050B

Matrix Spike Dup (B3H0404-MSD1)

Source: Y308042-23

Prepared: 08/04/2023 Analyzed: 08/04/2023

Nickel	14.6	9.16	mg/kg	4.58	9.46	112	75-125	3.51	20	
Selenium	5.19	0.0916	"	4.58	0.125	111	75-125	3.12	20	
Silver	4.90	0.0916	"	4.58	0.0588	106	75-125	3.77	20	
Zinc	96.1	91.6	"	45.8	42.7	116	75-125	1.82	20	

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Buffalo WY 82834

Joel Mason
Project Number: FEO.CO.0701.33
Project: FEO - Damfino Delineation

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 B3H0410 - Saturated Paste Metals

Blank (B3H0410-BLK1)

Prepared: 08/04/2023 Analyzed: 08/07/2023

Calcium PPM	ND	10.0	mg/L							
SAR	0.00		SAR							
Magnesium PPM	ND	10.0	mg/L							
Sodium PPM	ND	10.0	"							

Duplicate (B3H0410-DUP1)

Source: Y308042-16

Prepared: 08/04/2023 Analyzed: 08/07/2023

SAR	0.00		SAR		1.22			200	200	
Calcium PPM	373	10.0	mg/L		328			13.0	50	
Magnesium PPM	84.6	10.0	"		74.6			12.6	50	
Sodium PPM	98.6	10.0	"		93.7			5.11	50	

Batch B3H0415 - DTPA Sorbitol Preparation

Blank (B3H0415-BLK1)

Prepared: 08/04/2023 Analyzed: 08/07/2023

Boron	ND	0.100	mg/L							
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Duplicate (B3H0415-DUP1)

Source: Y308042-16

Prepared: 08/04/2023 Analyzed: 08/07/2023

Boron	0.0516	0.0988	mg/L		0.0526			1.98	50	
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Batch B3H0804 - DTPA Sorbitol Preparation

Blank (B3H0804-BLK1)

Prepared: 08/08/2023 Analyzed: 08/09/2023

Boron	ND	0.100	mg/L							
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Duplicate (B3H0804-DUP1)

Source: Y308042-01

Prepared: 08/08/2023 Analyzed: 08/09/2023

Boron	0.0783	0.101	mg/L		0.0835			6.45	50	
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Joel Mason
 Project Number: FEO.CO.0701.33
 Project: FEO - Damfino Delineation

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 B3H0805 - DTPA Sorbitol Preparation

Blank (B3H0805-BLK1)

Prepared: 08/08/2023 Analyzed: 08/09/2023

Boron ND 0.100 mg/L

Duplicate (B3H0805-DUP1)

Source: Y308042-03

Prepared: 08/08/2023 Analyzed: 08/09/2023

Boron 0.188 0.100 mg/L 0.257 31.1 50

Batch B3H0808 - Saturated Paste Metals

Blank (B3H0808-BLK1)

Prepared: 08/08/2023 Analyzed: 08/09/2023

SAR 0.00 SAR

Calcium PPM ND 10.0 mg/L

Magnesium PPM ND 10.0 "

Sodium PPM ND 10.0 "

Duplicate (B3H0808-DUP1)

Source: Y308042-01

Prepared: 08/08/2023 Analyzed: 08/09/2023

Calcium PPM 282 10.0 mg/L 270 4.07 50

SAR 0.00 SAR 0.769 200 200

Magnesium PPM 51.1 10.0 mg/L 49.5 3.20 50

Sodium PPM 56.3 10.0 " 52.4 7.22 50

Batch B3H0809 - Saturated Paste Metals

Blank (B3H0809-BLK1)

Prepared: 08/08/2023 Analyzed: 08/09/2023

SAR 0.00 SAR

Calcium PPM ND 10.0 mg/L

Magnesium PPM ND 10.0 "

Sodium PPM ND 10.0 "

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 Project: FEO - Damfino Delineation

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 B3H0809 - Saturated Paste Metals

Duplicate (B3H0809-DUP1)	Source: Y308042-03			Prepared: 08/08/2023 Analyzed: 08/09/2023						
SAR	0.00		SAR	11.8				200	200	
Calcium PPM	497	10.0	mg/L	465				6.64	50	
Magnesium PPM	98.9	10.0	"	92.4				6.78	50	
Sodium PPM	1020	10.0	"	1060				3.80	50	

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 Project Number: FEO.CO.0701.33
 Project: FEO - Damfino Delineation

Saturated Paste - 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 B3H0420 - Saturated Paste pH/EC

Blank (B3H0420-BLK1)

Prepared: 08/04/2023 Analyzed: 08/05/2023

Specific Conductance (EC) ND 0.00500 mmhos/cm

Duplicate (B3H0420-DUP1)

Source: Y308042-16

Prepared: 08/04/2023 Analyzed: 08/05/2023

Specific Conductance (EC)	3.57	0.00500	mmhos/cm	3.31	7.65	25
pH	6.70		pH Units	6.73	0.447	25

Batch B3H0821 - Saturated Paste pH/EC

Blank (B3H0821-BLK1)

Prepared: 08/08/2023 Analyzed: 08/09/2023

Specific Conductance (EC) ND 0.00500 mmhos/cm

Duplicate (B3H0821-DUP1)

Source: Y308042-01

Prepared: 08/08/2023 Analyzed: 08/09/2023

pH	8.07		pH Units	8.06	0.124	25
Specific Conductance (EC)	2.16	0.00500	mmhos/cm	2.14	0.981	25

Batch B3H0822 - Saturated Paste pH/EC

Blank (B3H0822-BLK1)

Prepared: 08/08/2023 Analyzed: 08/09/2023

Specific Conductance (EC) ND 0.00500 mmhos/cm

Duplicate (B3H0822-DUP1)

Source: Y308042-03

Prepared: 08/08/2023 Analyzed: 08/09/2023

pH	7.68		pH Units	7.71	0.390	25
Specific Conductance (EC)	7.70	0.00500	mmhos/cm	7.54	2.03	25

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Buffalo WY 82834

Joel Mason
Project Number: FEO.CO.0701.33
Project: FEO - Damfino Delineation

Total Metals by 6020B - Quality Control
Waypoint Analytical, LLC.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L698181 - 3050B

LCS (LCS-L698181)

Prepared: 08/11/2023 Analyzed: 08/14/2023

Nickel	2.23	0.25	mg/Kg	2.5		89	80-120			
Arsenic	2.21	0.25	"	2.5		88	80-120			
Barium	4.45	0.25	"	5		89	80-120			
Cadmium	0.444	0.25	"	0.5		89	80-120			
Lead	2.07	0.25	"	2.5		83	80-120			
Selenium	4.63	0.25	"	5		93	80-120			
Silver	0.426	0.25	"	0.5		85	80-120			
Zinc	23.5	2.5	"	25		94	80-120			
Copper	2.24	0.25	"	2.5		90	80-120			

LRB (LRB-L698181)

Prepared: 08/11/2023 Analyzed: 08/14/2023

Silver	0.0819	0.25	mg/Kg				-			J
Arsenic	ND	0.25	"				-			
Selenium	ND	0.25	"				-			
Barium	ND	0.25	"				-			
Cadmium	ND	0.25	"				-			
Zinc	ND	2.5	"				-			
Copper	0.0965	0.25	"				-			J
Nickel	ND	0.25	"				-			
Lead	ND	0.25	"				-			

MSD (V 91784-MSD-L698181)

Source: 91784

Prepared: 08/11/2023 Analyzed: 08/14/2023

Barium	5.23	0.25	mg/Kg dry	4.87	0.678	93	75-125	1.3	80	
Selenium	4.12	0.25	"	4.87	0.149	81	75-125	2.3	80	
Silver	0.463	0.25	"	0.487	<0.0067	95	75-125	5.3	80	
Cadmium	0.458	0.25	"	0.487	<0.0260	94	75-125	1.9	80	
Lead	3.33	0.25	"	2.44	1.31	83	75-125	2	80	

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 Project Number: FEO.CO.0701.33
 Project: FEO - Damfino Delineation

Total Metals by 6020B - Quality Control
Waypoint Analytical, LLC.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L698181 - 3050B

MSD (V 91784-MSD-L698181)		Source: 91784			Prepared: 08/11/2023 Analyzed: 08/14/2023					
Zinc	25.1	2.5	mg/Kg dry	24.4	0.553	101	75-125	2.4	80	
Copper	3.02	0.25	"	2.44	0.61	99	75-125	9.3	80	
Nickel	2.64	0.25	"	2.44	0.0925	105	75-125	3.4	80	
Arsenic	2.31	0.25	"	2.44	0.318	82	75-125	0.8	80	
MS (V 91784-MS-L698181)		Source: 91784			Prepared: 08/11/2023 Analyzed: 08/14/2023					
Zinc	24.5	2.5	mg/Kg dry	24.4	0.553	98	75-125			
Silver	0.439	0.25	"	0.489	<0.0067	90	75-125			
Selenium	4.22	0.25	"	4.89	0.149	83	75-125			
Nickel	2.55	0.25	"	2.44	0.0925	101	75-125			
Lead	3.4	0.25	"	2.44	1.31	86	75-125			
Copper	2.75	0.25	"	2.44	0.61	88	75-125			
Cadmium	0.449	0.25	"	0.489	<0.0260	92	75-125			
Arsenic	2.29	0.25	"	2.44	0.318	81	75-125			
Barium	5.3	0.25	"	4.89	0.678	95	75-125			

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 Project Number: FEO.CO.0701.33
 Project: FEO - Damfino Delineation

PAH by 8270D SIM - Quality Control
Waypoint Analytical, LLC.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L696780 - 3550B

MSD (L 89798-MSD-L696780)		Source: Y308042-18			Prepared: 08/04/2023 Analyzed: 08/04/2023					
Benzo(k)fluoranthene	0.106	0.00335	mg/Kg	0.165	<0.00219	64.2	30-130	10.5	30	
Benzo(a)pyrene	0.109	0.00335	"	0.165	<0.00234	66	30-130	7.6	30	
1-Methylnaphthalene	0.0915	0.0101	"	0.165	<0.00549	55.4	30-130	7.7	30	
2-Methylnaphthalene	0.0943	0.0101	"	0.165	<0.00972	57.1	30-130	8.9	30	
Acenaphthene	0.0971	0.00335	"	0.165	0.00588	55.2	30-130	21.9	30	
Dibenz(a,h)anthracene	0.126	0.00335	"	0.165	<0.00307	76.3	30-130	10	30	
Benzo(a)anthracene	0.104	0.00335	"	0.165	<0.00247	63	30-130	5.4	30	
Pyrene	0.116	0.00335	"	0.165	0.0497	40.1	30-130	32.4	30	*
Benzo(b)fluoranthene	0.0911	0.00335	"	0.165	<0.00293	55.2	30-130	0.2	30	
Chrysene	0.111	0.00335	"	0.165	0.00401	64.8	30-130	4.6	30	
Fluoranthene	0.107	0.00335	"	0.165	0.00665	60.8	30-130	2.7	30	
Fluorene	0.103	0.00335	"	0.165	<0.00143	62.4	30-130	10.1	30	
Indeno(1,2,3-cd)pyrene	0.0918	0.00335	"	0.165	<0.00314	55.6	30-130	10.7	30	
Naphthalene	0.0864	0.0101	"	0.165	<0.00730	52.3	30-130	5.4	30	
Anthracene	0.11	0.00335	"	0.165	0.00846	61.5	30-130	8.5	30	
Surrogate: 2-Fluorobiphenyl	59.3		"	0.33	225	59.3	33-115			
Surrogate: 4-Terphenyl-d14	67.5		"	0.33	263	67.5	33-122			
Surrogate: Nitrobenzene-d5	49		"	0.33	198	49	29-110			

MS (L 89798-MS-L696780)		Source: Y308042-18			Prepared: 08/04/2023 Analyzed: 08/04/2023					
Benzo(b)fluoranthene	0.0909	0.00335	mg/Kg	0.164	<0.00293	55.4	30-130			
Fluoranthene	0.11	0.00335	"	0.164	0.00665	63	30-130			
Chrysene	0.106	0.00335	"	0.164	0.00401	62.1	30-130			
Pyrene	0.161	0.00335	"	0.164	0.0497	67.8	30-130			
Naphthalene	0.0912	0.0101	"	0.164	<0.00730	55.6	30-130			
Fluorene	0.114	0.00335	"	0.164	<0.00143	69.5	30-130			
Dibenz(a,h)anthracene	0.114	0.00335	"	0.164	<0.00307	69.5	30-130			

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 Buffalo WY 82834

Joel Mason
 Project Number: FEO.CO.0701.33
 Project: FEO - Damfino Delineation

PAH by 8270D SIM - Quality Control
Waypoint Analytical, LLC.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L696780 - 3550B

MS (L 89798-MS-L696780)	Source: Y308042-18			Prepared: 08/04/2023 Analyzed: 08/04/2023						
Benzo(k)fluoranthene	0.0954	0.00335	mg/Kg	0.164	<0.00219	58.1	30-130			
2-Methylnaphthalene	0.0862	0.0101	"	0.164	<0.00972	52.5	30-130			
Indeno(1,2,3-cd)pyrene	0.0824	0.00335	"	0.164	<0.00314	50.2	30-130			
Benzo(a)pyrene	0.101	0.00335	"	0.164	<0.00234	61.5	30-130			
Acenaphthene	0.121	0.00335	"	0.164	0.00588	70.1	30-130			
Anthracene	0.101	0.00335	"	0.164	0.00846	56.4	30-130			
Benzo(a)anthracene	0.0985	0.00335	"	0.164	<0.00247	60	30-130			
1-Methylnaphthalene	0.0847	0.0101	"	0.164	<0.00549	51.6	30-130			
Surrogate: Nitrobenzene-d5	47.7		"	0.329	198	47.7	29-110			
Surrogate: 2-Fluorobiphenyl	51.9		"	0.329	225	51.9	33-115			
Surrogate: 4-Terphenyl-d14	59.5		"	0.329	263	59.5	33-122			

LCS (LCS-L696780)	Prepared: 08/04/2023 Analyzed: 08/04/2023									
Anthracene	0.089	0.00067	mg/Kg	0.167		53.2	30-130			
Benzo(a)anthracene	0.0905	0.00067	"	0.167		54.1	30-130			
Benzo(a)pyrene	0.0968	0.00067	"	0.167		57.9	30-130			
1-Methylnaphthalene	0.08	0.00201	"	0.167		47.9	30-130			
2-Methylnaphthalene	0.0843	0.00201	"	0.167		50.4	30-130			
Fluorene	0.0925	0.00067	"	0.167		55.3	30-130			
Chrysene	0.0939	0.00067	"	0.167		56.2	30-130			
Pyrene	0.0853	0.00067	"	0.167		51	30-130			
Indeno(1,2,3-cd)pyrene	0.0934	0.00067	"	0.167		55.9	30-130			
Fluoranthene	0.0865	0.00067	"	0.167		51.7	30-130			
Dibenz(a,h)anthracene	0.114	0.00067	"	0.167		68.2	30-130			
Benzo(b)fluoranthene	0.0834	0.00067	"	0.167		49.9	30-130			
Benzo(k)fluoranthene	0.0984	0.00067	"	0.167		58.9	30-130			
Acenaphthene	0.0828	0.00067	"	0.167		49.5	30-130			

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Absaroka
 112 High St.
 Buffalo WY 82834

Joel Mason
 Project Number: FEO.CO.0701.33
 Project: FEO - Damfino Delineation

PAH by 8270D SIM - Quality Control
Waypoint Analytical, LLC.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L696780 - 3550B

LCS (LCS-L696780)

Prepared: 08/04/2023 Analyzed: 08/04/2023

Naphthalene	0.08	0.00201	mg/Kg	0.167		47.9	30-130			
Surrogate: 2-Fluorobiphenyl	54		"	0.333		54	33-115			
Surrogate: 4-Terphenyl-d14	56.4		"	0.333		56.4	33-122			
Surrogate: Nitrobenzene-d5	45.6		"	0.333		45.6	29-110			

LRB (LRB-L696780)

Prepared: 08/04/2023 Analyzed: 08/04/2023

Dibenz(a,h)anthracene	ND	0.00067	mg/Kg				-			
Chrysene	ND	0.00067	"				-			
Pyrene	ND	0.00067	"				-			
Fluoranthene	ND	0.00067	"				-			
Naphthalene	ND	0.00201	"				-			
Indeno(1,2,3-cd)pyrene	ND	0.00067	"				-			
1-Methylnaphthalene	ND	0.00201	"				-			
Fluorene	ND	0.00067	"				-			
2-Methylnaphthalene	ND	0.00201	"				-			
Benzo(k)fluoranthene	ND	0.00067	"				-			
Acenaphthene	ND	0.00067	"				-			
Anthracene	ND	0.00067	"				-			
Benzo(a)anthracene	ND	0.00067	"				-			
Benzo(a)pyrene	ND	0.00067	"				-			
Benzo(b)fluoranthene	ND	0.00067	"				-			
Surrogate: Nitrobenzene-d5	48.3		"	0.333		48.3	29-110			
Surrogate: 4-Terphenyl-d14	62.1		"	0.333		62.1	33-122			
Surrogate: 2-Fluorobiphenyl	54.3		"	0.333		54.3	33-115			

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Absaroka
 112 High St.
 Buffalo WY 82834

Joel Mason
 Project Number: FEO.CO.0701.33
 Project: FEO - Damfino Delineation

PAH by 8270D SIM - Quality Control
Waypoint Analytical, LLC.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L696748 - 3550B

MSD (L 89690-MSD-L696748)		Source: 89690			Prepared: 08/04/2023 Analyzed: 08/04/2023					
Anthracene	0.108	0.00067	mg/Kg	0.163	<0.000334	66.2	30-130	26.5	30	
Acenaphthene	0.0939	0.00067	"	0.163	<0.000304	57.6	30-130	13.9	30	
2-Methylnaphthalene	0.0936	0.00201	"	0.163	<0.00194	57.4	30-130	8.5	30	
Benzo(k)fluoranthene	0.0683	0.00067	"	0.163	<0.000437	41.9	30-130	43.2	30	*
Benzo(a)anthracene	0.0984	0.00067	"	0.163	<0.000493	60.3	30-130	12.9	30	
Pyrene	0.0928	0.00067	"	0.163	<0.000643	56.9	30-130	11.3	30	
Naphthalene	0.0897	0.00201	"	0.163	<0.00145	55	30-130	12.8	30	
1-Methylnaphthalene	0.0934	0.00201	"	0.163	<0.00109	57.3	30-130	13.5	30	
Benzo(b)fluoranthene	0.0653	0.00067	"	0.163	<0.000585	40	30-130	43.8	30	*
Chrysene	0.102	0.00067	"	0.163	<0.000624	62.5	30-130	4.7	30	
Dibenz(a,h)anthracene	0.166	0.00067	"	0.163	<0.000614	102	30-130	32.9	30	*
Indeno(1,2,3-cd)pyrene	0.101	0.00067	"	0.163	<0.000627	61.9	30-130	29.8	30	
Fluorene	0.106	0.00067	"	0.163	<0.000286	65	30-130	14	30	
Fluoranthene	0.084	0.00067	"	0.163	<0.000394	51.5	30-130	40	30	*
Benzo(a)pyrene	0.108	0.00067	"	0.163	<0.000468	66.2	30-130	9.6	30	
Surrogate: 4-Terphenyl-d14	43.7		"	0.327	205	43.7	33-122			
Surrogate: 2-Fluorobiphenyl	50.1		"	0.327	172	50.1	33-115			
Surrogate: Nitrobenzene-d5	45.8		"	0.327	154	45.8	29-110			

MS (L 89690-MS-L696748)		Source: 89690			Prepared: 08/04/2023 Analyzed: 08/04/2023					
Indeno(1,2,3-cd)pyrene	0.0748	0.00067	mg/Kg	0.167	<0.000627	44.7	30-130			
2-Methylnaphthalene	0.102	0.00201	"	0.167	<0.00194	61	30-130			
Naphthalene	0.102	0.00201	"	0.167	<0.00145	61	30-130			
Fluorene	0.122	0.00067	"	0.167	<0.000286	73	30-130			
Fluoranthene	0.126	0.00067	"	0.167	<0.000394	75.4	30-130			
Dibenz(a,h)anthracene	0.119	0.00067	"	0.167	<0.000614	71.2	30-130			
Chrysene	0.107	0.00067	"	0.167	<0.000624	64	30-130			

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Absaroka
 112 High St.
 Buffalo WY 82834

Joel Mason
 Project Number: FEO.CO.0701.33
 Project: FEO - Damfino Delineation

PAH by 8270D SIM - Quality Control
Waypoint Analytical, LLC.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L696748 - 3550B

MS (L 89690-MS-L696748)		Source: 89690			Prepared: 08/04/2023 Analyzed: 08/04/2023					
Benzo(k)fluoranthene	0.106	0.00067	mg/Kg	0.167	<0.000437	63.4	30-130			
Benzo(b)fluoranthene	0.102	0.00067	"	0.167	<0.000585	61	30-130			
Benzo(a)pyrene	0.119	0.00067	"	0.167	<0.000468	71.2	30-130			
Benzo(a)anthracene	0.112	0.00067	"	0.167	<0.000493	67	30-130			
Anthracene	0.141	0.00067	"	0.167	<0.000334	84.4	30-130			
1-Methylnaphthalene	0.107	0.00201	"	0.167	<0.00109	64	30-130			
Pyrene	0.104	0.00067	"	0.167	<0.000643	62.2	30-130			
Acenaphthene	0.108	0.00067	"	0.167	<0.000304	64.6	30-130			
Surrogate: Nitrobenzene-d5	51.3		"	0.333	154	51.3	29-110			
Surrogate: 4-Terphenyl-d14	64.8		"	0.333	205	64.8	33-122			
Surrogate: 2-Fluorobiphenyl	69.3		"	0.333	172	69.3	33-115			

LCS (LCS-L696748)		Prepared: 08/04/2023 Analyzed: 08/04/2023								
Naphthalene	0.107	0.00201	mg/Kg	0.167		64	30-130			
Indeno(1,2,3-cd)pyrene	0.104	0.00067	"	0.167		62.2	30-130			
Fluorene	0.158	0.00067	"	0.167		94.6	30-130			
Fluoranthene	0.123	0.00067	"	0.167		73.6	30-130			
Dibenz(a,h)anthracene	0.143	0.00067	"	0.167		85.6	30-130			
Chrysene	0.13	0.00067	"	0.167		77.8	30-130			
Benzo(k)fluoranthene	0.0957	0.00067	"	0.167		57.3	30-130			
Benzo(b)fluoranthene	0.0858	0.00067	"	0.167		51.3	30-130			
Benzo(a)pyrene	0.138	0.00067	"	0.167		82.6	30-130			
Anthracene	0.137	0.00067	"	0.167		82	30-130			
Acenaphthene	0.123	0.00067	"	0.167		73.6	30-130			
2-Methylnaphthalene	0.114	0.00201	"	0.167		68.2	30-130			
1-Methylnaphthalene	0.108	0.00201	"	0.167		64.6	30-130			
Benzo(a)anthracene	0.123	0.00067	"	0.167		73.6	30-130			

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Absaroka
 112 High St.
 Buffalo WY 82834

Joel Mason
 Project Number: FEO.CO.0701.33
 Project: FEO - Damfino Delineation

PAH by 8270D SIM - Quality Control
Waypoint Analytical, LLC.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L696748 - 3550B

LCS (LCS-L696748)

Prepared: 08/04/2023 Analyzed: 08/04/2023

Pyrene	0.119	0.00067	mg/Kg	0.167		71.2	30-130			
Surrogate: 4-Terphenyl-d14	75.6		"	0.333		75.6	33-122			
Surrogate: 2-Fluorobiphenyl	77.7		"	0.333		77.7	33-115			
Surrogate: Nitrobenzene-d5	55.5		"	0.333		55.5	29-110			

LRB (LRB-L696748)

Prepared: 08/04/2023 Analyzed: 08/04/2023

Chrysene	ND	0.00067	mg/Kg				-			
Benzo(k)fluoranthene	ND	0.00067	"				-			
Benzo(b)fluoranthene	ND	0.00067	"				-			
Benzo(a)pyrene	ND	0.00067	"				-			
Benzo(a)anthracene	ND	0.00067	"				-			
Acenaphthene	ND	0.00067	"				-			
Indeno(1,2,3-cd)pyrene	ND	0.00067	"				-			
2-Methylnaphthalene	ND	0.00201	"				-			
1-Methylnaphthalene	ND	0.00201	"				-			
Anthracene	ND	0.00067	"				-			
Dibenz(a,h)anthracene	ND	0.00067	"				-			
Fluorene	ND	0.00067	"				-			
Naphthalene	ND	0.00201	"				-			
Pyrene	ND	0.00067	"				-			
Fluoranthene	ND	0.00067	"				-			
Surrogate: 4-Terphenyl-d14	72.9		"	0.333		72.9	33-122			
Surrogate: 2-Fluorobiphenyl	65.1		"	0.333		65.1	33-115			
Surrogate: Nitrobenzene-d5	54.9		"	0.333		54.9	29-110			

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 112 High St.
 Buffalo WY 82834

Joel Mason
 Project Number: FEO.CO.0701.33
 Project: FEO - Damfino Delineation

**Total Metals by 7196A - Quality Control
 Waypoint Analytical, LLC.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch L697015 -										
DUP (L 89798-DUP)		Source: Y308042-18			Prepared: Analyzed: 08/08/2023					
Chromium, Hexavalent	ND	0.508	mg/Kg		<0.508		-	0	20	
MS (L 89798-MS)		Source: Y308042-18			Prepared: Analyzed: 08/08/2023					
Chromium, Hexavalent	29.2	2.5	mg/Kg	39.4	<1.22	74	75-125			*
LCS (LCS)		Prepared: Analyzed: 08/08/2023								
Chromium, Hexavalent	6.89	0.5	mg/Kg	8		86	75-125			
LRB (LRB)		Prepared: Analyzed: 08/08/2023								
Chromium, Hexavalent	ND	0.5	mg/Kg				-			

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 112 High St.
 Buffalo WY 82834

Joel Mason
 Project Number: FEO.CO.0701.33
 Project: FEO - Damfino Delineation

Total Metals by 7196A - Quality Control
Waypoint Analytical, LLC.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch L697014 -										
DUP (L 89790-DUP)		Source: Y308042-10			Prepared: Analyzed: 08/06/2023					
Chromium, Hexavalent	ND	0.5	mg/Kg		<0.500		-	0	20	
MS (L 89790-MS)		Source: Y308042-10			Prepared: Analyzed: 08/06/2023					
Chromium, Hexavalent	27.2	2.54	mg/Kg	40.6	<1.24	67	75-125			*

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 112 High St.
 Buffalo WY 82834

Joel Mason
 Project Number: FEO.CO.0701.33
 Project: FEO - Damfino Delineation

Total Metals by 7196A - Quality Control
Waypoint Analytical, LLC.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch L697013 -										
DUP (L 89785-DUP)		Source: Y308042-05			Prepared: Analyzed: 08/06/2023					
Chromium, Hexavalent	ND	0.5	mg/Kg		<0.500		-	0	20	
MS (L 89785-MS)		Source: Y308042-05			Prepared: Analyzed: 08/06/2023					
Chromium, Hexavalent	26.7	2.5	mg/Kg	40	<1.22	67	75-125			*

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Absaroka
112 High St.
Buffalo WY 82834

Joel Mason
Project Number: FEO.CO.0701.33
Project: FEO - Damfino Delineation

Notes and Definitions

U Sample is Non-Detect.

QR-02 The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.

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

JB [Undefined]

J Estimated Value. Analyte below reported quantitation limit.

* QC Failure

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported on a wet weight basis.

Calculated results may use J-flag data (instead of reported "ND") as part of calculation to provide a more accurate result.

Origins Laboratory, Inc.



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August 18, 2023

Absaroka

Joel Mason

112 High St.

Buffalo

WY

82834

Project Name - FEO - Damfino Delineation

Project Number - FEO.CO.0701.33

Attached are your analytical results for FEO - Damfino Delineation received by Origins Laboratory, Inc. August 04, 2023. This project is associated with Origins project number Y308127-01.

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



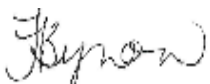
Absaroka
 112 High St.
 Buffalo WY 82834

Joel Mason
 Project Number: FEO.CO.0701.33
 Project: FEO - Damfino Delineation

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SD_3@40	Y308127-01	Soil	August 3, 2023 14:00	08/04/2023 10:15
SDSP2@36	Y308127-02	Soil	August 3, 2023 12:00	08/04/2023 10:15
SDSP3@36	Y308127-03	Soil	August 3, 2023 12:15	08/04/2023 10:15
SD_7-1@96	Y308127-04	Soil	August 3, 2023 11:30	08/04/2023 10:15
SD_7-2@96	Y308127-05	Soil	August 3, 2023 11:45	08/04/2023 10:15
SD_17@36	Y308127-06	Soil	August 3, 2023 12:30	08/04/2023 10:15
SD_18@36	Y308127-07	Soil	August 3, 2023 12:45	08/04/2023 10:15
SD_19@36	Y308127-08	Soil	August 3, 2023 13:00	08/04/2023 10:15
SD_20@36	Y308127-09	Soil	August 3, 2023 13:15	08/04/2023 10:15
SD_21@36	Y308127-10	Soil	August 3, 2023 13:30	08/04/2023 10:15

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Absaroka
 112 High St.
 Buffalo WY 82834

Joel Mason
 Project Number: FEO.CO.0701.33
 Project: FEO - Damfino Delineation

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



4508127

page 1 of 2

Client: Absaroka Solutions
 Address: 112 High St, Buffalo WY
 Telephone Number: 307-262-8975
 Email Address: Joel.Mason@absarakasolutions.com

Project Manager: Joel Mason
 Project Name: FEO Damfino Delineation
 Project Number: FEO.CO.0701.33
 Samples Collected By: Joel.Mason@absarakasolutions.com

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix				Analysis	Sample Instructions	
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	Air Summa Canister #	Other			
SD_3@40	8/3/2023	14:00	2	2				X				X	Table 915-1 Parameters	Rush BTEX, TMB, TPH 1
SDSP2@36	8/3/2023	12:00	2	2				X				X		Rush BTEX, TMB, TPH 2
SDSP3@36	8/3/2023	12:00 ¹⁵	2	2				X				X		Rush BTEX, TMB, TPH 3
SD_7-1@96	8/3/2023	11:30	2	2				X				X		Rush BTEX, TMB, TPH 4
SD_7-2@96	8/3/2023	11:45	2	2				X				X		Rush BTEX, TMB, TPH 5
SD_17@36	8/3/2023	12:30	2	2				X				X		Rush BTEX, TMB, TPH 6
SD_18@36	8/3/2023	12:45	2	2				X				X		Rush BTEX, TMB, TPH 7
SD_19@36	8/3/2023	13:00	2	2				X				X		Rush BTEX, TMB, TPH 8
SD_20@36	8/3/2023	13:15	2	2				X				X		Rush BTEX, TMB, TPH 9
SD_21@36	8/3/2023	13:30	2	2				X				X		Rush BTEX, TMB, TPH 10

Relinquished By: [Signature]
 Date: 8/3/23
 Time: 18:00

Received By: J. Bynon
 Date: 8-4-23
 Time: 10:15

1.5°C Date Results Needed []

Turnaround Time:
 Some Day
 24 Hr
 48 Hr
 72 Hr
 Standard

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112 High St.
Buffalo WY 82834

Joel Mason
Project Number: FEO.CO.0701.33
Project: FEO - Damfino Delineation

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W30R27

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page 2 of 2

Client: Absaroka Energy and Environmental Solutions
Address: 112 High St. Buffalo, WY 82834
Telephone Number: 303-262-8975
Email Address: Joel Mason

Project Manager: Joel Mason
Project Name: FEO Damfino Delineation
Project Number: 0701.33
Samples Collected By: Joel Mason

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative			Matrix		Analysis	Sample Instructions
				Unpreserved	HCl	HNO ₃	Other	Groundwater		
Damfino 5-6 BHD	8/2/2023	14:00	1	X				X	see email for details	

Relinquished By: [Signature]
Date: 8/3/23
Time: 18:00

Received By: [Signature]
Date: 8-4-23
Time: 10:15

Turnaround Time:
 Same Day
 24 Hr
 48 Hr
 72 Hr
 Standard

150 Date Results Needed

Origins Laboratory, Inc.
[Signature]

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Absaroka
112 High St.
Buffalo WY 82834

Joel Mason
Project Number: FEO.CO.0701.33
Project: FEO - Damfino Delineation

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: 4302127

Client: Absaroka

Client Project ID: FEO Damfino Delineation

Checklist Completed by: JJM

Shipped Via: 2UP
(UPS, FedEx, Hand Delivered, Pick-up, etc.)

Date/time completed: 8/14/23

Airbill #: N/A

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

Cooler Number/Temperature: 1 / 1.5 °C _____ °C _____ °C _____ °C

Thermometer ID: 1004

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C ^{(1)?}	/			
Is there ice present (document if blue ice is used)	/			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)			/	
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)			/	
Were all samples received intact ^{(1)?}	/			
Was adequate sample volume provided ^{(1)?}	/			
Are short holding time analytes or samples with HTs due within 48 hours present ^{(1)?}		/		
Is a chain-of-custody (COC) present and filled out completely ^{(1)?}	/			
Does the COC agree with the number and type of sample bottles received ^{(1)?}	/			
Do the sample IDs on the bottle labels match the COC ^{(1)?}	/			
Is the COC properly relinquished by the client with date and time recorded ^{(1)?}	/			
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.			/	
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)			/	
Additional Comments (if any):				

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

Reviewed by (Project Manager) JJM

Date/Time Reviewed 8/14/23

Origins Laboratory, Inc.



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Absaroka
 112 High St.
 Buffalo WY 82834

Joel Mason
 Project Number: FEO.CO.0701.33
 Project: FEO - Damfino Delineation

SD 3@40
 8/3/2023 2:00:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 Y308127-01 (Soil)

Boron (DTPA Sorbitol)

Boron	ND		0.101	mg/L	1	B3H0706	08/07/2023	08/08/2023	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B3H0405	08/04/2023	08/04/2023	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	87.9 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B3H0429	08/04/2023	08/04/2023	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	120 %		70-130			"	"	"	
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Origins Laboratory, Inc.



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Absaroka
112 High St.
Buffalo WY 82834

Joel Mason
Project Number: FEO.CO.0701.33
Project: FEO - Damfino Delineation

SD 3@40
8/3/2023 2:00:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y308127-01 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	100 %		70-130			B3H04 29	08/04/2023	08/04/2023	
Surrogate: 4-Bromofluorobenzene	88.4 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	0.889		0.499	meq/L	10	[CALC]	08/05/2023	08/07/2023	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	2.09		0.435	"	"	"	"	"	

PAH by EPA 8270E

1-Methylnaphthalene	ND		0.002	mg/kg	1	B3H0430	08/04/2023	08/07/2023	U
2-Methylnaphthalene	0.002		0.002	"	"	"	"	"	
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

Origins Laboratory, Inc.



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Absaroka
 112 High St.
 Buffalo WY 82834

Joel Mason
 Project Number: FEO.CO.0701.33
 Project: FEO - Damfino Delineation

SD 3@40
 8/3/2023 2:00:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 Y308127-01 (Soil)

PAH by EPA 8270E

Fluorene	ND		0.020	mg/kg	1	B3H0430	08/04/2023	08/07/2023	U
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	U
Naphthalene	ND		0.002	"	"	"	"	"	U
Pyrene	ND		0.020	"	"	"	"	"	U

Surrogate: Fluorene-d10	99.9 %		60-130			"	"	"	
Surrogate: Anthracene-d10	96.8 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	98.3 %		60-130			"	"	"	
Surrogate: Pyrene-d10	109 %		60-130			"	"	"	

pH in Soil by 9045D

pH	8.31			pH Units	1	B3H0504	08/05/2023	08/06/2023	
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SAR by 20B Saturated Paste

SAR	2.73			SAR	1	B3H0501	08/05/2023	08/07/2023	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.362		0.00500	mmhos/cm	1	B3H0504	08/05/2023	08/06/2023	
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Table 915 metals by EPA 6020B

Origins Laboratory, Inc.



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Absaroka
 112 High St.
 Buffalo WY 82834

Joel Mason
 Project Number: FEO.CO.0701.33
 Project: FEO - Damfino Delineation

SD 3@40

8/3/2023 2:00:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 Y308127-01 (Soil)

Table 915 metals by EPA 6020B

Arsenic	1.66	0.0883	0.0883	mg/kg	10	B3H0436	08/04/2023	08/07/2023	
Barium	114	8.83	8.83	"	"	"	"	"	
Cadmium	0.110	0.0883	0.0883	"	"	"	"	"	
Copper	11.9	8.83	8.83	"	"	"	"	"	
Lead	ND	8.83	8.83	"	"	"	"	"	
Nickel	13.2	8.83	8.83	"	"	"	"	"	
Selenium	0.0989	0.0883	0.0883	"	"	"	"	"	
Silver	ND	0.0883	0.0883	"	"	"	"	"	
Zinc	ND	88.3	88.3	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L697580	08/03/2023	08/09/2023	
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Origins Laboratory, Inc.



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Absaroka
 112 High St.
 Buffalo WY 82834

Joel Mason
 Project Number: FEO.CO.0701.33
 Project: FEO - Damfino Delineation

SDSP2@36
8/3/2023 12:00:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y308127-02 (Soil)

Boron (DTPA Sorbitol)

Boron	0.657		0.101	mg/L	1	B3H0706	08/07/2023	08/08/2023	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B3H0405	08/04/2023	08/04/2023	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	87.3 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B3H0429	08/04/2023	08/04/2023	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	121 %		70-130			"	"	"	
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Origins Laboratory, Inc.



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Absaroka
 112 High St.
 Buffalo WY 82834

Joel Mason
 Project Number: FEO.CO.0701.33
 Project: FEO - Damfino Delineation

SDSP2@36
8/3/2023 12:00:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y308127-02 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	102 %		70-130			B3H04 29	08/04/2023	08/04/2023	
Surrogate: 4-Bromofluorobenzene	85.7 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	3.76	0.499	meq/L	10	[CALC]		08/05/2023	08/07/2023	
Magnesium	2.37	0.823	"	"	"	"	"	"	
Sodium	0.832	0.435	"	"	"	"	"	"	

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B3H0430		08/04/2023	08/07/2023	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

Origins Laboratory, Inc.



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Absaroka
 112 High St.
 Buffalo WY 82834

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 Project Number: FEO.CO.0701.33
 Project: FEO - Damfino Delineation

SDSP2@36
8/3/2023 12:00:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y308127-02 (Soil)

PAH by EPA 8270E

Fluorene	ND		0.020	mg/kg	1	B3H0430	08/04/2023	08/07/2023	U
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	U
Naphthalene	ND		0.002	"	"	"	"	"	U
Pyrene	ND		0.020	"	"	"	"	"	U

Surrogate: Fluorene-d10	100 %		60-130			"	"	"	
Surrogate: Anthracene-d10	96.9 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	99.9 %		60-130			"	"	"	
Surrogate: Pyrene-d10	103 %		60-130			"	"	"	

pH in Soil by 9045D

pH	7.74			pH Units	1	B3H0504	08/05/2023	08/06/2023	
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SAR by 20B Saturated Paste

SAR	0.475			SAR	1	B3H0501	08/05/2023	08/07/2023	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.818		0.00500	mmhos/cm	1	B3H0504	08/05/2023	08/06/2023	
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Table 915 metals by EPA 6020B

Origins Laboratory, Inc.



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Absaroka
 112 High St.
 Buffalo WY 82834

Joel Mason
 Project Number: FEO.CO.0701.33
 Project: FEO - Damfino Delineation

SDSP2@36

8/3/2023 12:00:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y308127-02 (Soil)

Table 915 metals by EPA 6020B

Arsenic	3.56	0.0885	0.0885	mg/kg	10	B3H0436	08/04/2023	08/07/2023	
Barium	186	8.85	8.85	"	"	"	"	"	
Cadmium	0.230	0.0885	0.0885	"	"	"	"	"	
Copper	21.7	8.85	8.85	"	"	"	"	"	
Lead	9.04	8.85	8.85	"	"	"	"	"	
Nickel	16.0	8.85	8.85	"	"	"	"	"	
Selenium	0.277	0.0885	0.0885	"	"	"	"	"	
Silver	ND	0.0885	0.0885	"	"	"	"	"	
Zinc	ND	88.5	88.5	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L698113	08/03/2023	08/11/2023	
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Absaroka
 112 High St.
 Buffalo WY 82834

Joel Mason
 Project Number: FEO.CO.0701.33
 Project: FEO - Damfino Delineation

SDSP3@36

8/3/2023 12:15:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y308127-03 (Soil)

Boron (DTPA Sorbitol)

Boron	0.241		0.100	mg/L	1	B3H0706	08/07/2023	08/08/2023	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B3H0405	08/04/2023	08/04/2023	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	93.3 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B3H0429	08/04/2023	08/04/2023	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	128 %		70-130			"	"	"	
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Origins Laboratory, Inc.



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 Project: FEO - Damfino Delineation

SDSP3@36

8/3/2023 12:15:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y308127-03 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	101 %		70-130			B3H04 29	08/04/2023	08/04/2023	
Surrogate: 4-Bromofluorobenzene	86.0 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	2.00		0.499	meq/L	10	[CALC]	08/05/2023	08/07/2023	
Magnesium	1.10		0.823	"	"	"	"	"	
Sodium	ND		0.435	"	"	"	"	"	

PAH by EPA 8270E

1-Methylnaphthalene	ND		0.002	mg/kg	1	B3H0430	08/04/2023	08/07/2023	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

Origins Laboratory, Inc.



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 Project: FEO - Damfino Delineation

SDSP3@36
8/3/2023 12:15:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y308127-03 (Soil)

PAH by EPA 8270E

Fluorene	ND		0.020	mg/kg	1	B3H0430	08/04/2023	08/07/2023	U
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	U
Naphthalene	ND		0.002	"	"	"	"	"	U
Pyrene	ND		0.020	"	"	"	"	"	U

Surrogate: Fluorene-d10	100 %		60-130			"	"	"	
Surrogate: Anthracene-d10	94.3 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	99.8 %		60-130			"	"	"	
Surrogate: Pyrene-d10	108 %		60-130			"	"	"	

pH in Soil by 9045D

pH	7.51			pH Units	1	B3H0504	08/05/2023	08/06/2023	
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SAR by 20B Saturated Paste

SAR	0.241			SAR	1	B3H0501	08/05/2023	08/07/2023	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.417		0.00500	mmhos/cm	1	B3H0504	08/05/2023	08/06/2023	
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Table 915 metals by EPA 6020B

Origins Laboratory, Inc.



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Absaroka
 112 High St.
 Buffalo WY 82834

Joel Mason
 Project Number: FEO.CO.0701.33
 Project: FEO - Damfino Delineation

SDSP3@36

8/3/2023 12:15:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y308127-03 (Soil)

Table 915 metals by EPA 6020B

Arsenic	3.78	0.0920	0.0920	mg/kg	10	B3H0436	08/04/2023	08/07/2023	
Barium	193	9.20	9.20	"	"	"	"	"	
Cadmium	0.266	0.0920	0.0920	"	"	"	"	"	
Copper	23.6	9.20	9.20	"	"	"	"	"	
Lead	10.4	9.20	9.20	"	"	"	"	"	
Nickel	18.4	9.20	9.20	"	"	"	"	"	
Selenium	0.285	0.0920	0.0920	"	"	"	"	"	
Silver	ND	0.0920	0.0920	"	"	"	"	"	
Zinc	ND	92.0	92.0	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.248	0.509	mg/Kg	1	L697580	08/03/2023	08/09/2023	
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Absaroka
 112 High St.
 Buffalo WY 82834

Joel Mason
 Project Number: FEO.CO.0701.33
 Project: FEO - Damfino Delineation

SD 7-1@96
 8/3/2023 11:30:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 Y308127-04 (Soil)

Boron (DTPA Sorbitol)

Boron	ND		0.0991	mg/L	1	B3H0706	08/07/2023	08/08/2023	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B3H0405	08/04/2023	08/04/2023	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	96.0 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B3H0429	08/04/2023	08/04/2023	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	119 %		70-130			"	"	"	
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 112 High St.
 Buffalo WY 82834

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 Project: FEO - Damfino Delineation

SD 7-1@96
 8/3/2023 11:30:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 Y308127-04 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	102 %		70-130			B3H04 29	08/04/2023	08/04/2023	
Surrogate: 4-Bromofluorobenzene	87.4 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	ND	0.499	meq/L	10	[CALC]		08/05/2023	08/07/2023	
Magnesium	ND	0.823	"	"	"		"	"	
Sodium	3.40	0.435	"	"	"		"	"	

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B3H0430		08/04/2023	08/07/2023	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

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 Project Number: FEO.CO.0701.33
 Project: FEO - Damfino Delineation

SD 7-1@96
 8/3/2023 11:30:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 Y308127-04 (Soil)

PAH by EPA 8270E

Fluorene	ND		0.020	mg/kg	1	B3H0430	08/04/2023	08/07/2023	U
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	U
Naphthalene	ND		0.002	"	"	"	"	"	U
Pyrene	ND		0.020	"	"	"	"	"	U

Surrogate: Fluorene-d10	102 %		60-130			"	"	"	
Surrogate: Anthracene-d10	95.1 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	101 %		60-130			"	"	"	
Surrogate: Pyrene-d10	95.6 %		60-130			"	"	"	

pH in Soil by 9045D

pH	8.40			pH Units	1	B3H0504	08/05/2023	08/06/2023	
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SAR by 20B Saturated Paste

SAR	8.97			SAR	1	B3H0501	08/05/2023	08/07/2023	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.776		0.00500	mmhos/cm	1	B3H0504	08/05/2023	08/06/2023	
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Table 915 metals by EPA 6020B

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 Project Number: FEO.CO.0701.33
 Project: FEO - Damfino Delineation

SD 7-1@96
8/3/2023 11:30:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y308127-04 (Soil)

Table 915 metals by EPA 6020B

Arsenic	0.797		0.0903	mg/kg	10	B3H0436	08/04/2023	08/07/2023	
Barium	61.7		9.03	"	"	"	"	"	
Cadmium	ND		0.0903	"	"	"	"	"	
Copper	ND		9.03	"	"	"	"	"	
Lead	ND		9.03	"	"	"	"	"	
Nickel	ND		9.03	"	"	"	"	"	
Selenium	ND		0.0903	"	"	"	"	"	
Silver	ND		0.0903	"	"	"	"	"	
Zinc	ND		90.3	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.25	0.514	mg/Kg	1	L697580	08/03/2023	08/09/2023	
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Joel Mason
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 Project: FEO - Damfino Delineation

SD 7-2@96
8/3/2023 11:45:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y308127-05 (Soil)

Boron (DTPA Sorbitol)

Boron	ND		0.0989	mg/L	1	B3H0706	08/07/2023	08/08/2023	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B3H0405	08/04/2023	08/04/2023	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	86.7 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B3H0429	08/04/2023	08/04/2023	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	121 %		70-130			"	"	"	
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Joel Mason
 Project Number: FEO.CO.0701.33
 Project: FEO - Damfino Delineation

SD 7-2@96
 8/3/2023 11:45:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 Y308127-05 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	98.9 %		70-130			B3H04 29	08/04/2023	08/04/2023	
Surrogate: 4-Bromofluorobenzene	91.2 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	7.36	0.499	meq/L	10	[CALC]		08/05/2023	08/07/2023	
Magnesium	2.04	0.823	"	"	"	"	"	"	
Sodium	8.21	0.435	"	"	"	"	"	"	

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B3H0430		08/04/2023	08/07/2023	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

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 Project: FEO - Damfino Delineation

SD 7-2@96
8/3/2023 11:45:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y308127-05 (Soil)

PAH by EPA 8270E

Fluorene	ND		0.020	mg/kg	1	B3H0430	08/04/2023	08/07/2023	U
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	U
Naphthalene	ND		0.002	"	"	"	"	"	U
Pyrene	ND		0.020	"	"	"	"	"	U

Surrogate: Fluorene-d10	100 %		60-130			"	"	"	
Surrogate: Anthracene-d10	96.2 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	100 %		60-130			"	"	"	
Surrogate: Pyrene-d10	99.5 %		60-130			"	"	"	

pH in Soil by 9045D

pH	7.84			pH Units	1	B3H0504	08/05/2023	08/06/2023	
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SAR by 20B Saturated Paste

SAR	3.79			SAR	1	B3H0501	08/05/2023	08/07/2023	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	2.51		0.00500	mmhos/cm	1	B3H0504	08/05/2023	08/06/2023	
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Table 915 metals by EPA 6020B

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 Project: FEO - Damfino Delineation

SD 7-2@96
8/3/2023 11:45:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y308127-05 (Soil)

Table 915 metals by EPA 6020B

Arsenic	0.657		0.0898	mg/kg	10	B3H0436	08/04/2023	08/07/2023	
Barium	46.8		8.98	"	"	"	"	"	
Cadmium	ND		0.0898	"	"	"	"	"	
Copper	ND		8.98	"	"	"	"	"	
Lead	ND		8.98	"	"	"	"	"	
Nickel	10.3		8.98	"	"	"	"	"	
Selenium	ND		0.0898	"	"	"	"	"	
Silver	ND		0.0898	"	"	"	"	"	
Zinc	ND		89.8	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L697580	08/03/2023	08/09/2023	
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Absaroka
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Joel Mason
 Project Number: FEO.CO.0701.33
 Project: FEO - Damfino Delineation

SD 17@36
 8/3/2023 12:30:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 Y308127-06 (Soil)

Boron (DTPA Sorbitol)

Boron	0.399		0.100	mg/L	1	B3H0706	08/07/2023	08/08/2023	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B3H0405	08/04/2023	08/04/2023	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	79.8 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B3H0429	08/04/2023	08/04/2023	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	121 %		70-130			"	"	"	
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Absaroka
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Joel Mason
Project Number: FEO.CO.0701.33
Project: FEO - Damfino Delineation

SD 17@36
8/3/2023 12:30:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y308127-06 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	102 %		70-130			B3H04 29	08/04/2023	08/04/2023	
Surrogate: 4-Bromofluorobenzene	89.1 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	2.09	0.499	meq/L	10	[CALC]		08/05/2023	08/07/2023	
Magnesium	1.01	0.823	"	"	"	"	"	"	
Sodium	0.753	0.435	"	"	"	"	"	"	

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B3H0430		08/04/2023	08/07/2023	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

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Project: FEO - Damfino Delineation

SD 17@36
8/3/2023 12:30:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y308127-06 (Soil)

PAH by EPA 8270E

Fluorene	ND		0.020	mg/kg	1	B3H0430	08/04/2023	08/07/2023	U
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	U
Naphthalene	ND		0.002	"	"	"	"	"	U
Pyrene	ND		0.020	"	"	"	"	"	U

Surrogate: Fluorene-d10	99.4 %		60-130			"	"	"	
Surrogate: Anthracene-d10	94.3 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	99.3 %		60-130			"	"	"	
Surrogate: Pyrene-d10	108 %		60-130			"	"	"	

pH in Soil by 9045D

pH	7.89			pH Units	1	B3H0504	08/05/2023	08/06/2023	
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SAR by 20B Saturated Paste

SAR	0.605			SAR	1	B3H0501	08/05/2023	08/07/2023	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.463		0.00500	mmhos/cm	1	B3H0504	08/05/2023	08/06/2023	
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Table 915 metals by EPA 6020B

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 112 High St.
 Buffalo WY 82834

Joel Mason
 Project Number: FEO.CO.0701.33
 Project: FEO - Damfino Delineation

SD 17@36
8/3/2023 12:30:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y308127-06 (Soil)

Table 915 metals by EPA 6020B

Arsenic	3.73	0.0931	0.0931	mg/kg	10	B3H0436	08/04/2023	08/07/2023	
Barium	223	9.31	9.31	"	"	"	"	"	
Cadmium	0.247	0.0931	0.0931	"	"	"	"	"	
Copper	23.5	9.31	9.31	"	"	"	"	"	
Lead	10.2	9.31	9.31	"	"	"	"	"	
Nickel	17.5	9.31	9.31	"	"	"	"	"	
Selenium	0.304	0.0931	0.0931	"	"	"	"	"	
Silver	ND	0.0931	0.0931	"	"	"	"	"	
Zinc	ND	93.1	93.1	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L697580	08/03/2023	08/09/2023	
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Origins Laboratory, Inc.



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Absaroka
 112 High St.
 Buffalo WY 82834

Joel Mason
 Project Number: FEO.CO.0701.33
 Project: FEO - Damfino Delineation

SD 18@36
 8/3/2023 12:45:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 Y308127-07 (Soil)

Boron (DTPA Sorbitol)

Boron	0.375		0.101	mg/L	1	B3H0706	08/07/2023	08/08/2023	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B3H0405	08/04/2023	08/04/2023	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	87.9 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B3H0429	08/04/2023	08/04/2023	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	122 %		70-130			"	"	"	
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Absaroka
 112 High St.
 Buffalo WY 82834

Joel Mason
 Project Number: FEO.CO.0701.33
 Project: FEO - Damfino Delineation

SD 18@36
 8/3/2023 12:45:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 Y308127-07 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	99.4 %		70-130			B3H04 29	08/04/2023	08/04/2023	
Surrogate: 4-Bromofluorobenzene	86.7 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	1.54		0.499	meq/L	10	[CALC]	08/05/2023	08/07/2023	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	ND		0.435	"	"	"	"	"	

PAH by EPA 8270E

1-Methylnaphthalene	ND		0.002	mg/kg	1	B3H0430	08/04/2023	08/07/2023	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

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 Buffalo WY 82834

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 Project Number: FEO.CO.0701.33
 Project: FEO - Damfino Delineation

SD 18@36
 8/3/2023 12:45:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 Y308127-07 (Soil)

PAH by EPA 8270E

Fluorene	ND		0.020	mg/kg	1	B3H0430	08/04/2023	08/07/2023	U
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	U
Naphthalene	ND		0.002	"	"	"	"	"	U
Pyrene	ND		0.020	"	"	"	"	"	U

Surrogate: Fluorene-d10	98.0 %		60-130			"	"	"	
Surrogate: Anthracene-d10	94.3 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	101 %		60-130			"	"	"	
Surrogate: Pyrene-d10	123 %		60-130			"	"	"	

pH in Soil by 9045D

pH	7.96			pH Units	1	B3H0504	08/05/2023	08/06/2023	
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SAR by 20B Saturated Paste

SAR	0.383			SAR	1	B3H0501	08/05/2023	08/07/2023	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.309		0.00500	mmhos/cm	1	B3H0504	08/05/2023	08/06/2023	
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Table 915 metals by EPA 6020B

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 Project Number: FEO.CO.0701.33
 Project: FEO - Damfino Delineation

SD 18@36
 8/3/2023 12:45:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 Y308127-07 (Soil)

Table 915 metals by EPA 6020B

Arsenic	3.87	0.0917	mg/kg	10	B3H0436	08/04/2023	08/07/2023
Barium	209	9.17	"	"	"	"	"
Cadmium	0.241	0.0917	"	"	"	"	"
Copper	21.0	9.17	"	"	"	"	"
Lead	10.0	9.17	"	"	"	"	"
Nickel	18.4	9.17	"	"	"	"	"
Selenium	0.289	0.0917	"	"	"	"	"
Silver	ND	0.0917	"	"	"	"	"
Zinc	ND	91.7	"	"	"	"	"

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L697580	08/03/2023	08/09/2023
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Joel Mason
 Project Number: FEO.CO.0701.33
 Project: FEO - Damfino Delineation

SD 19@36

8/3/2023 1:00:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 Y308127-08 (Soil)

Boron (DTPA Sorbitol)

Boron	0.204		0.0982	mg/L	1	B3H0706	08/07/2023	08/08/2023	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B3H0405	08/04/2023	08/04/2023	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	86.6 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B3H0429	08/04/2023	08/04/2023	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	120 %		70-130			"	"	"	
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Absaroka
 112 High St.
 Buffalo WY 82834

Joel Mason
 Project Number: FEO.CO.0701.33
 Project: FEO - Damfino Delineation

SD 19@36

8/3/2023 1:00:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 Y308127-08 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	100 %		70-130			B3H04 29	08/04/2023	08/04/2023	
Surrogate: 4-Bromofluorobenzene	86.6 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	3.04		0.499	meq/L	10	[CALC]	08/05/2023	08/07/2023	
Magnesium	1.35		0.823	"	"	"	"	"	
Sodium	0.894		0.435	"	"	"	"	"	

PAH by EPA 8270E

1-Methylnaphthalene	ND		0.002	mg/kg	1	B3H0430	08/04/2023	08/07/2023	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

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 Project Number: FEO.CO.0701.33
 Project: FEO - Damfino Delineation

SD 19@36

8/3/2023 1:00:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 Y308127-08 (Soil)

PAH by EPA 8270E

Fluorene	ND		0.020	mg/kg	1	B3H0430	08/04/2023	08/07/2023	U
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	U
Naphthalene	ND		0.002	"	"	"	"	"	U
Pyrene	ND		0.020	"	"	"	"	"	U

Surrogate: Fluorene-d10	99.3 %		60-130			"	"	"	
Surrogate: Anthracene-d10	96.2 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	101 %		60-130			"	"	"	
Surrogate: Pyrene-d10	102 %		60-130			"	"	"	

pH in Soil by 9045D

pH	8.05			pH Units	1	B3H0504	08/05/2023	08/06/2023	
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SAR by 20B Saturated Paste

SAR	0.603			SAR	1	B3H0501	08/05/2023	08/07/2023	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.564		0.00500	mmhos/cm	1	B3H0504	08/05/2023	08/06/2023	
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Table 915 metals by EPA 6020B

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Joel Mason
 Project Number: FEO.CO.0701.33
 Project: FEO - Damfino Delineation

SD 19@36

8/3/2023 1:00:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 Y308127-08 (Soil)

Table 915 metals by EPA 6020B

Arsenic	3.53		0.0887	mg/kg	10	B3H0436	08/04/2023	08/07/2023	
Barium	182		8.87	"	"	"	"	"	
Cadmium	0.286		0.0887	"	"	"	"	"	
Copper	24.3		8.87	"	"	"	"	"	
Lead	9.92		8.87	"	"	"	"	"	
Nickel	20.7		8.87	"	"	"	"	"	
Selenium	0.327		0.0887	"	"	"	"	"	
Silver	ND		0.0887	"	"	"	"	"	
Zinc	ND		88.7	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.248	0.509	mg/Kg	1	L697580	08/03/2023	08/09/2023	
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Absaroka
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Joel Mason
 Project Number: FEO.CO.0701.33
 Project: FEO - Damfino Delineation

SD 20@36

8/3/2023 1:15:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 Y308127-09 (Soil)

Boron (DTPA Sorbitol)

Boron	1.51		0.101	mg/L	1	B3H0706	08/07/2023	08/08/2023	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B3H0405	08/04/2023	08/04/2023	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	85.0 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B3H0429	08/04/2023	08/04/2023	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	125 %		70-130			"	"	"	
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 112 High St.
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Joel Mason
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 Project: FEO - Damfino Delineation

SD 20@36

8/3/2023 1:15:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 Y308127-09 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	102 %		70-130			B3H04 29	08/04/2023	08/04/2023	
Surrogate: 4-Bromofluorobenzene	87.9 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	3.58	0.499	meq/L	10	[CALC]		08/05/2023	08/07/2023	
Magnesium	1.21	0.823	"	"	"	"	"	"	
Sodium	14.0	0.435	"	"	"	"	"	"	

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B3H0430		08/04/2023	08/07/2023	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

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 Project: FEO - Damfino Delineation

SD 20@36

8/3/2023 1:15:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y308127-09 (Soil)

PAH by EPA 8270E

Fluorene	ND		0.020	mg/kg	1	B3H0430	08/04/2023	08/07/2023	U
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	U
Naphthalene	ND		0.002	"	"	"	"	"	U
Pyrene	ND		0.020	"	"	"	"	"	U

Surrogate: Fluorene-d10	98.2 %		60-130			"	"	"	
Surrogate: Anthracene-d10	94.3 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	100 %		60-130			"	"	"	
Surrogate: Pyrene-d10	130 %		60-130			"	"	"	

pH in Soil by 9045D

pH	8.14			pH Units	1	B3H0505	08/05/2023	08/06/2023	
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SAR by 20B Saturated Paste

SAR	9.07			SAR	1	B3H0502	08/05/2023	08/07/2023	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	1.97		0.00500	mmhos/cm	1	B3H0505	08/05/2023	08/06/2023	
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Table 915 metals by EPA 6020B

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 Project Number: FEO.CO.0701.33
 Project: FEO - Damfino Delineation

SD 20@36

8/3/2023 1:15:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y308127-09 (Soil)

Table 915 metals by EPA 6020B

Arsenic	2.63		0.0876	mg/kg	10	B3H0436	08/04/2023	08/07/2023	
Barium	802		8.76	"	"	"	"	"	
Cadmium	0.202		0.0876	"	"	"	"	"	
Copper	17.6		8.76	"	"	"	"	"	
Lead	ND		8.76	"	"	"	"	"	
Nickel	15.1		8.76	"	"	"	"	"	
Selenium	0.201		0.0876	"	"	"	"	"	
Silver	ND		0.0876	"	"	"	"	"	
Zinc	ND		87.6	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L697580	08/03/2023	08/09/2023	
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Joel Mason
 Project Number: FEO.CO.0701.33
 Project: FEO - Damfino Delineation

SD 21@36

8/3/2023 1:30:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 Y308127-10 (Soil)

Boron (DTPA Sorbitol)

Boron	ND		0.100	mg/L	1	B3H0706	08/07/2023	08/08/2023	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B3H0405	08/04/2023	08/04/2023	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	87.1 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B3H0429	08/04/2023	08/04/2023	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	120 %		70-130			"	"	"	
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 112 High St.
 Buffalo WY 82834

Joel Mason
 Project Number: FEO.CO.0701.33
 Project: FEO - Damfino Delineation

SD 21@36

8/3/2023 1:30:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 Y308127-10 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	104 %		70-130			B3H04 29	08/04/2023	08/04/2023	
Surrogate: 4-Bromofluorobenzene	87.5 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	1.37		0.499	meq/L	10	[CALC]	08/05/2023	08/07/2023	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	ND		0.435	"	"	"	"	"	

PAH by EPA 8270E

1-Methylnaphthalene	ND		0.002	mg/kg	1	B3H0430	08/04/2023	08/07/2023	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

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Absaroka
 112 High St.
 Buffalo WY 82834

Joel Mason
 Project Number: FEO.CO.0701.33
 Project: FEO - Damfino Delineation

SD 21@36

8/3/2023 1:30:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y308127-10 (Soil)

PAH by EPA 8270E

Fluorene	ND		0.020	mg/kg	1	B3H0430	08/04/2023	08/07/2023	U
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	U
Naphthalene	ND		0.002	"	"	"	"	"	U
Pyrene	ND		0.020	"	"	"	"	"	U

Surrogate: Fluorene-d10	100 %		60-130			"	"	"	
Surrogate: Anthracene-d10	95.3 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	99.6 %		60-130			"	"	"	
Surrogate: Pyrene-d10	103 %		60-130			"	"	"	

pH in Soil by 9045D

pH	8.48			pH Units	1	B3H0505	08/05/2023	08/06/2023	
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SAR by 20B Saturated Paste

SAR	0.242			SAR	1	B3H0502	08/05/2023	08/07/2023	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.235		0.00500	mmhos/cm	1	B3H0505	08/05/2023	08/06/2023	
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Table 915 metals by EPA 6020B

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 Project: FEO - Damfino Delineation

SD 21@36

8/3/2023 1:30:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y308127-10 (Soil)

Table 915 metals by EPA 6020B

Arsenic	0.577		0.0938	mg/kg	10	B3H0436	08/04/2023	08/07/2023	
Barium	37.5		9.38	"	"	"	"	"	
Cadmium	ND		0.0938	"	"	"	"	"	
Copper	ND		9.38	"	"	"	"	"	
Lead	ND		9.38	"	"	"	"	"	
Nickel	ND		9.38	"	"	"	"	"	
Selenium	ND		0.0938	"	"	"	"	"	
Silver	ND		0.0938	"	"	"	"	"	
Zinc	ND		93.8	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L697581	08/03/2023	08/09/2023	
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 Project: FEO - Damfino Delineation

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 B3H0405 - EPA 3550B										
Blank (B3H0405-BLK1)										
					Prepared: 08/04/2023 Analyzed: 08/04/2023					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	28		"	24.9		112	50-150			

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 Project: FEO - Damfino Delineation

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 B3H0405 - EPA 3550B

LCS (B3H0405-BS1)

Prepared: 08/04/2023 Analyzed: 08/04/2023

Diesel (C10-C28)	944	50.0	mg/kg	1000		94.4	70-130			
Residual Range Organics (C28-C40)	974	200	"	1000		97.4	70-130			
Surrogate: o-Terphenyl	55		"	49.8		110	50-150			

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 Project: FEO - Damfino Delineation

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 B3H0405 - EPA 3550B

Matrix Spike (B3H0405-MS1)	Source: Y308127-01			Prepared: 08/04/2023 Analyzed: 08/04/2023						
Diesel (C10-C28)	846	50.0	mg/kg	1000	ND	84.6	70-130			
Residual Range Organics (C28-C40)	874	200	"	1000	ND	87.4	70-130			
Surrogate: o-Terphenyl	48		"	49.8		96.5	50-150			

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 Project: FEO - Damfino Delineation

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 B3H0405 - EPA 3550B										
Matrix Spike Dup (B3H0405-MSD1)		Source: Y308127-01			Prepared: 08/04/2023 Analyzed: 08/04/2023					
Diesel (C10-C28)	985	50.0	mg/kg	1000	ND	98.5	70-130	15.2	35	
Residual Range Organics (C28-C40)	1010	200	"	1000	ND	101	70-130	14.5	35	
Surrogate: o-Terphenyl	59		"	49.8		119	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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Batch B3H0429 - EPA 5030 (soil)

Blank (B3H0429-BLK1)

Prepared: 08/04/2023 Analyzed: 08/04/2023

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							U
1,3,5-Trimethylbenzene	ND	0.00200	"							U
Benzene	ND	0.00200	"							U
Ethylbenzene	ND	0.00200	"							U
Naphthalene	ND	0.00380	"							U
Toluene	ND	0.00200	"							U
Xylenes, total	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125	100		70-130			
Surrogate: Toluene-d8	0.13		"	0.125	100		70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125	97.7		70-130			

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Joel Mason
 Project Number: FEO.CO.0701.33
 Project: FEO - Damfino Delineation

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 B3H0429 - EPA 5030 (soil)

LCS (B3H0429-BS1)

Prepared: 08/04/2023 Analyzed: 08/04/2023

1,2,4-Trimethylbenzene	0.101	0.00200	mg/kg	0.100		101	70-130			
1,3,5-Trimethylbenzene	0.104	0.00200	"	0.100		104	70-130			
Benzene	0.0914	0.00200	"	0.100		91.4	70-130			
Ethylbenzene	0.0944	0.00200	"	0.100		94.4	70-130			
Naphthalene	0.105	0.00380	"	0.100		105	70-130			
Toluene	0.0953	0.00200	"	0.100		95.3	70-130			
o-Xylene	0.0963	0.00200	"	0.100		96.3	70-130			
m,p-Xylene	0.188	0.00400	"	0.200		94.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		113	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		103	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		95.1	70-130			

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Joel Mason
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 Project: FEO - Damfino Delineation

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 B3H0429 - EPA 5030 (soil)

Matrix Spike (B3H0429-MS1)	Source: Y308127-01			Prepared: 08/04/2023 Analyzed: 08/04/2023						
1,2,4-Trimethylbenzene	0.0750	0.00200	mg/kg	0.100	ND	75.0	70-130			
1,3,5-Trimethylbenzene	0.0756	0.00200	"	0.100	ND	75.6	70-130			
Benzene	0.0651	0.00200	"	0.100	ND	65.1	70-130			QM-07
Ethylbenzene	0.0758	0.00200	"	0.100	ND	75.8	70-130			
Naphthalene	0.0742	0.00380	"	0.100	0.00198	72.2	70-130			
Toluene	0.0685	0.00200	"	0.100	ND	68.5	70-130			QM-07
o-Xylene	0.0761	0.00200	"	0.100	ND	76.1	70-130			
m,p-Xylene	0.149	0.00400	"	0.200	ND	74.3	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		114	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.5	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		103	70-130			

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 Project: FEO - Damfino Delineation

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 B3H0429 - EPA 5030 (soil)

Matrix Spike Dup (B3H0429-MSD1)	Source: Y308127-01			Prepared: 08/04/2023 Analyzed: 08/04/2023						
1,2,4-Trimethylbenzene	0.0847	0.00200	mg/kg	0.100	ND	84.7	70-130	12.2	20	
1,3,5-Trimethylbenzene	0.0851	0.00200	"	0.100	ND	85.1	70-130	11.9	20	
Benzene	0.0700	0.00200	"	0.100	ND	70.0	70-130	7.19	20	
Ethylbenzene	0.0789	0.00200	"	0.100	ND	78.9	70-130	4.01	20	
Naphthalene	0.0844	0.00380	"	0.100	0.00198	82.4	70-130	12.9	20	
Toluene	0.0755	0.00200	"	0.100	ND	75.5	70-130	9.78	20	
o-Xylene	0.0824	0.00200	"	0.100	ND	82.4	70-130	7.95	20	
m,p-Xylene	0.156	0.00400	"	0.200	ND	78.2	70-130	5.09	20	
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		114	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		99.3	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		97.2	70-130			

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 Buffalo WY 82834

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 Project Number: FEO.CO.0701.33
 Project: FEO - Damfino Delineation

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B3H0436 - EPA 3050B

Blank (B3H0436-BLK1)

Prepared: 08/04/2023 Analyzed: 08/07/2023

Arsenic	ND	0.000100	mg/kg							
Barium	ND	0.0100	"							
Cadmium	ND	0.000100	"							
Copper	ND	0.0100	"							
Lead	ND	0.0100	"							
Nickel	ND	0.0100	"							
Selenium	ND	0.000100	"							
Silver	ND	0.000100	"							
Zinc	ND	0.100	"							

LCS (B3H0436-BS1)

Prepared: 08/04/2023 Analyzed: 08/07/2023

Arsenic	4.64	0.00860	mg/kg	4.30		108	80-120			
Barium	441	0.860	"	430		102	80-120			
Cadmium	4.53	0.00860	"	4.30		105	80-120			
Copper	42.0	0.860	"	43.0		97.7	80-120			
Lead	4.44	0.860	"	4.30		103	80-120			
Nickel	4.74	0.860	"	4.30		110	80-120			
Selenium	4.17	0.00860	"	4.30		96.8	80-120			
Silver	4.46	0.00860	"	4.30		104	80-120			
Zinc	45.1	8.60	"	43.0		105	80-120			

Matrix Spike (B3H0436-MS1)

Source: Y308127-01

Prepared: 08/04/2023 Analyzed: 08/07/2023

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B3H0436 - EPA 3050B

Matrix Spike (B3H0436-MS1)		Source: Y308127-01			Prepared: 08/04/2023 Analyzed: 08/07/2023					
Arsenic	6.16	0.0942	mg/kg	4.71	1.66	95.4	75-125			
Barium	588	9.42	"	471	114	101	75-125			
Cadmium	5.11	0.0942	"	4.71	0.110	106	75-125			
Copper	58.7	9.42	"	47.1	11.9	99.4	75-125			
Lead	10.7	9.42	"	4.71	6.21	95.7	75-125			
Nickel	16.3	9.42	"	4.71	13.2	65.2	75-125			QM-07
Selenium	4.60	0.0942	"	4.71	0.0989	95.5	75-125			
Silver	4.83	0.0942	"	4.71	0.0336	102	75-125			
Zinc	83.7	94.2	"	47.1	42.0	88.5	75-125			

Matrix Spike Dup (B3H0436-MSD1)		Source: Y308127-01			Prepared: 08/04/2023 Analyzed: 08/07/2023					
Arsenic	6.12	0.0878	mg/kg	4.39	1.66	101	75-125	0.668	20	
Barium	553	8.78	"	439	114	100	75-125	6.17	20	
Cadmium	4.67	0.0878	"	4.39	0.110	104	75-125	9.00	20	
Copper	56.5	8.78	"	43.9	11.9	102	75-125	3.88	20	
Lead	10.7	8.78	"	4.39	6.21	103	75-125	0.0769	20	
Nickel	17.2	8.78	"	4.39	13.2	91.2	75-125	5.55	20	
Selenium	4.48	0.0878	"	4.39	0.0989	99.9	75-125	2.55	20	
Silver	4.44	0.0878	"	4.39	0.0336	100	75-125	8.44	20	
Zinc	87.9	87.8	"	43.9	42.0	105	75-125	4.88	20	

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 Buffalo WY 82834

Joel Mason
 Project Number: FEO.CO.0701.33
 Project: FEO - Damfino Delineation

EPA 8270E (SW846) - Semivolatile Organic Compounds - 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 B3H0430 - EPA 3580

Blank (B3H0430-BLK1)

Prepared: 08/04/2023 Analyzed: 08/07/2023

1-Methylnaphthalene	ND	0.002	mg/kg							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 (g,h,i) perylene	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
Phenanthrene	ND	0.020	"							U
Pyrene	ND	0.020	"							U
Surrogate: Fluorene-d10	200		ug/kg	200		100	60-130			
Surrogate: Anthracene-d10	200		"	200		98.9	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		100	60-130			
Surrogate: Pyrene-d10	200		"	200		99.9	60-130			

LCS (B3H0430-BS1)

Prepared: 08/04/2023 Analyzed: 08/07/2023

1-Methylnaphthalene	0.189	0.002	mg/kg	0.200		94.3	70-130			
2-Methylnaphthalene	0.183	0.002	"	0.200		91.5	70-130			
Acenaphthene	0.175	0.020	"	0.200		87.6	70-130			
Anthracene	0.166	0.020	"	0.200		82.9	70-130			

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 Buffalo WY 82834

Joel Mason
 Project Number: FEO.CO.0701.33
 Project: FEO - Damfino Delineation

EPA 8270E (SW846) - Semivolatile Organic Compounds - 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 B3H0430 - EPA 3580

LCS (B3H0430-BS1)

Prepared: 08/04/2023 Analyzed: 08/07/2023

Benzo (a) anthracene	0.166	0.005	mg/kg	0.200		82.8	70-130			
Benzo (a) pyrene	0.170	0.020	"	0.200		85.1	70-130			
Benzo (b) fluoranthene	0.183	0.020	"	0.200		91.4	70-130			
Benzo (g,h,i) perylene	0.174	0.020	"	0.200		86.9	70-130			
Benzo (k) fluoranthene	0.169	0.020	"	0.200		84.7	70-130			
Chrysene	0.185	0.020	"	0.200		92.6	70-130			
Dibenz (a,h) anthracene	0.200	0.020	"	0.200		100	70-130			
Fluoranthene	0.177	0.020	"	0.200		88.6	70-130			
Fluorene	0.180	0.020	"	0.200		90.0	70-130			
Indeno (1,2,3-cd) pyrene	0.170	0.020	"	0.200		84.8	70-130			
Naphthalene	0.183	0.002	"	0.200		91.6	70-130			
Phenanthrene	0.176	0.020	"	0.200		88.0	70-130			
Pyrene	0.183	0.020	"	0.200		91.7	70-130			
Surrogate: Fluorene-d10	200		ug/kg	200		100	60-130			
Surrogate: Anthracene-d10	200		"	200		97.9	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		100	60-130			
Surrogate: Pyrene-d10	200		"	200		102	60-130			

Matrix Spike (B3H0430-MS1)

Source: Y308127-01

Prepared: 08/04/2023 Analyzed: 08/07/2023

1-Methylnaphthalene	0.182	0.002	mg/kg	0.200	0.002	90.0	70-130			
2-Methylnaphthalene	0.183	0.002	"	0.200	0.002	90.6	70-130			
Acenaphthene	0.172	0.020	"	0.200	0.0002	86.0	70-130			
Anthracene	0.174	0.020	"	0.200	ND	86.9	70-130			
Benzo (a) anthracene	0.169	0.005	"	0.200	ND	84.5	70-130			
Benzo (a) pyrene	0.165	0.020	"	0.200	0.001	82.0	70-130			
Benzo (b) fluoranthene	0.184	0.020	"	0.200	ND	92.0	70-130			
Benzo (g,h,i) perylene	0.168	0.020	"	0.200	ND	84.0	70-130			

Origins Laboratory, Inc.



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Absaroka
112 High St.
Buffalo WY 82834

Joel Mason
Project Number: FEO.CO.0701.33
Project: FEO - Damfino Delineation

EPA 8270E (SW846) - Semivolatile Organic Compounds - 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 B3H0430 - EPA 3580

Matrix Spike (B3H0430-MS1)	Source: Y308127-01			Prepared: 08/04/2023 Analyzed: 08/07/2023						
Benzo (k) fluoranthene	0.178	0.020	mg/kg	0.200	ND	88.8	70-130			
Chrysene	0.180	0.020	"	0.200	0.0006	89.5	70-130			
Dibenz (a,h) anthracene	0.195	0.020	"	0.200	ND	97.5	70-130			
Fluoranthene	0.167	0.020	"	0.200	ND	83.4	70-130			
Fluorene	0.174	0.020	"	0.200	ND	86.8	70-130			
Indeno (1,2,3-cd) pyrene	0.169	0.020	"	0.200	ND	84.6	70-130			
Naphthalene	0.180	0.002	"	0.200	0.001	89.3	70-130			
Phenanthrene	0.175	0.020	"	0.200	0.0007	87.1	70-130			
Pyrene	0.187	0.020	"	0.200	ND	93.5	70-130			
Surrogate: Fluorene-d10	200		ug/kg	200		99.7	60-130			
Surrogate: Anthracene-d10	190		"	200		96.3	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		102	60-130			
Surrogate: Pyrene-d10	210		"	200		106	60-130			

Matrix Spike Dup (B3H0430-MSD1)	Source: Y308127-01			Prepared: 08/04/2023 Analyzed: 08/07/2023						
1-Methylnaphthalene	0.175	0.002	mg/kg	0.200	0.002	86.4	70-130	4.04	20	
2-Methylnaphthalene	0.177	0.002	"	0.200	0.002	87.4	70-130	3.57	20	
Acenaphthene	0.167	0.020	"	0.200	0.0002	83.4	70-130	3.07	20	
Anthracene	0.161	0.020	"	0.200	ND	80.4	70-130	7.81	20	
Benzo (a) anthracene	0.168	0.005	"	0.200	ND	83.8	70-130	0.815	20	
Benzo (a) pyrene	0.161	0.020	"	0.200	0.001	80.0	70-130	2.46	20	
Benzo (b) fluoranthene	0.183	0.020	"	0.200	ND	91.6	70-130	0.471	20	
Benzo (g,h,i) perylene	0.171	0.020	"	0.200	ND	85.4	70-130	1.69	20	
Benzo (k) fluoranthene	0.162	0.020	"	0.200	ND	81.0	70-130	9.29	20	
Chrysene	0.176	0.020	"	0.200	0.0006	87.8	70-130	1.98	20	
Dibenz (a,h) anthracene	0.192	0.020	"	0.200	ND	96.2	70-130	1.37	20	
Fluoranthene	0.167	0.020	"	0.200	ND	83.7	70-130	0.349	20	

Origins Laboratory, Inc.



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Absaroka
 112 High St.
 Buffalo WY 82834

Joel Mason
 Project Number: FEO.CO.0701.33
 Project: FEO - Damfino Delineation

EPA 8270E (SW846) - Semivolatile Organic Compounds - 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 B3H0430 - EPA 3580

Matrix Spike Dup (B3H0430-MSD1)	Source: Y308127-01			Prepared: 08/04/2023 Analyzed: 08/07/2023						
Fluorene	0.168	0.020	mg/kg	0.200	ND	83.8	70-130	3.51	20	
Indeno (1,2,3-cd) pyrene	0.173	0.020	"	0.200	ND	86.5	70-130	2.27	20	
Naphthalene	0.174	0.002	"	0.200	0.001	86.6	70-130	3.10	20	
Phenanthrene	0.170	0.020	"	0.200	0.0007	84.7	70-130	2.77	20	
Pyrene	0.170	0.020	"	0.200	ND	84.9	70-130	9.65	20	
Surrogate: Fluorene-d10	200		ug/kg	200		99.8	60-130			
Surrogate: Anthracene-d10	190		"	200		96.4	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		102	60-130			
Surrogate: Pyrene-d10	190		"	200		97.2	60-130			

Origins Laboratory, Inc.



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Absaroka
112 High St.
Buffalo WY 82834

Joel Mason
Project Number: FEO.CO.0701.33
Project: FEO - Damfino Delineation

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 B3H0501 - Saturated Paste Metals

Blank (B3H0501-BLK1)

Prepared: 08/05/2023 Analyzed: 08/07/2023

SAR	0.00		SAR
Calcium PPM	ND	10.0	mg/L
Magnesium PPM	ND	10.0	"
Sodium PPM	ND	10.0	"

Duplicate (B3H0501-DUP1)

Source: Y308105-11

Prepared: 08/05/2023 Analyzed: 08/07/2023

SAR	0.00		SAR	1.19		200	200
Calcium PPM	23.3	10.0	mg/L	19.8		16.4	50
Magnesium PPM	23.5	10.0	"	21.4		9.58	50
Sodium PPM	33.1	10.0	"	32.0		3.25	50

Batch B3H0502 - Saturated Paste Metals

Blank (B3H0502-BLK1)

Prepared: 08/05/2023 Analyzed: 08/07/2023

Calcium PPM	ND	10.0	mg/L
SAR	0.00		SAR
Magnesium PPM	ND	10.0	mg/L
Sodium PPM	ND	10.0	"

Duplicate (B3H0502-DUP1)

Source: Y308127-09

Prepared: 08/05/2023 Analyzed: 08/07/2023

Calcium PPM	87.5	10.0	mg/L	71.7		19.8	50
SAR	0.00		SAR	9.07		200	200
Magnesium PPM	18.1	10.0	mg/L	14.7		20.7	50
Sodium PPM	340	10.0	"	323		5.06	50

Batch B3H0706 - DTPA Sorbitol Preparation

Blank (B3H0706-BLK1)

Prepared: 08/07/2023 Analyzed: 08/08/2023

Origins Laboratory, Inc.



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Absaroka
 112 High St.
 Buffalo WY 82834

Joel Mason
 Project Number: FEO.CO.0701.33
 Project: FEO - Damfino Delineation

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 B3H0706 - DTPA Sorbitol Preparation

Blank (B3H0706-BLK1)

Prepared: 08/07/2023 Analyzed: 08/08/2023

Boron ND 0.100 mg/L

Duplicate (B3H0706-DUP1)

Source: Y306127-15

Prepared: 08/07/2023 Analyzed: 08/08/2023

Boron 0.301 0.101 mg/L 0.271 10.3 50

Origins Laboratory, Inc.



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Absaroka
 112 High St.
 Buffalo WY 82834

Joel Mason
 Project Number: FEO.CO.0701.33
 Project: FEO - Damfino Delineation

Saturated Paste - 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 B3H0504 - Saturated Paste pH/EC

Blank (B3H0504-BLK1)

Prepared: 08/05/2023 Analyzed: 08/06/2023

Specific Conductance (EC) ND 0.00500 mmhos/cm

Duplicate (B3H0504-DUP1)

Source: Y308105-11

Prepared: 08/05/2023 Analyzed: 08/06/2023

pH 8.04 pH Units 8.30 3.18 25

Specific Conductance (EC) 0.468 0.00500 mmhos/cm 0.570 19.6 25

Batch B3H0505 - Saturated Paste pH/EC

Blank (B3H0505-BLK1)

Prepared: 08/05/2023 Analyzed: 08/06/2023

Specific Conductance (EC) ND 0.00500 mmhos/cm

Duplicate (B3H0505-DUP1)

Source: Y308127-09

Prepared: 08/05/2023 Analyzed: 08/06/2023

pH 8.08 pH Units 8.14 0.740 25

Specific Conductance (EC) 2.30 0.00500 mmhos/cm 1.97 15.2 25

Origins Laboratory, Inc.



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Absaroka
 112 High St.
 Buffalo WY 82834

Joel Mason
 Project Number: FEO.CO.0701.33
 Project: FEO - Damfino Delineation

Total Metals by 7196A - Quality Control
Waypoint Analytical, LLC.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L698113 -

DUP (L 92142-DUP)		Source: 92142			Prepared: Analyzed: 08/11/2023					
Chromium, Hexavalent	ND	0.5	mg/Kg		<0.500		-	0	20	
MS (L 92142-MS)		Source: 92142			Prepared: Analyzed: 08/11/2023					
Chromium, Hexavalent	31	2.55	mg/Kg	40.8	<1.24	76	75-125			
LRB (LRB)					Prepared: Analyzed: 08/11/2023					
Chromium, Hexavalent	ND	0.5	mg/Kg				-			

Origins Laboratory, Inc.



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Absaroka
 112 High St.
 Buffalo WY 82834

Joel Mason
 Project Number: FEO.CO.0701.33
 Project: FEO - Damfino Delineation

Total Metals by 7196A - Quality Control
Waypoint Analytical, LLC.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch L697581 -										
DUP (L 90837-DUP)		Source: Y308127-10			Prepared: Analyzed: 08/09/2023					
Chromium, Hexavalent	ND	0.506	mg/Kg		<0.506		-	0	20	
MS (L 90837-MS)		Source: Y308127-10			Prepared: Analyzed: 08/09/2023					
Chromium, Hexavalent	32	2.52	mg/Kg	40.3	<1.23	79	75-125			
LCS (LCS)		Prepared: Analyzed: 08/09/2023								
Chromium, Hexavalent	7	0.5	mg/Kg	8		88	75-125			

Origins Laboratory, Inc.



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Absaroka
 112 High St.
 Buffalo WY 82834

Joel Mason
 Project Number: FEO.CO.0701.33
 Project: FEO - Damfino Delineation

Total Metals by 7196A - Quality Control
Waypoint Analytical, LLC.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch L697580 -										
DUP (L 90832-DUP)		Source: Y308127-05			Prepared: Analyzed: 08/09/2023					
Chromium, Hexavalent	ND	0.5	mg/Kg		<0.500		-	0	20	
MS (L 90832-MS)		Source: Y308127-05			Prepared: Analyzed: 08/09/2023					
Chromium, Hexavalent	34.7	2.5	mg/Kg	39.6	<1.22	88	75-125			

Origins Laboratory, Inc.



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Absaroka
112 High St.
Buffalo WY 82834

Joel Mason
Project Number: FEO.CO.0701.33
Project: FEO - Damfino Delineation

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 Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported on a wet weight basis.

Calculated results may use J-flag data (instead of reported "ND") as part of calculation to provide a more accurate result.

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

August 17, 2023

Absaroka

Joel Mason

112 High St.

Buffalo

WY 82834

Project Name - Surprise Damfino S6 Pad

Project Number - FEO.CO.0703

Attached are your analytical results for Surprise Damfino S6 Pad received by Origins Laboratory, Inc. August 11, 2023. This project is associated with Origins project number Y308311-01.

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



Absaroka
112 High St.
Buffalo WY 82834

Joel Mason
Project Number: FEO.CO.0703
Project: Surprise Damfino S6 Pad

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SD 20@48"	Y308311-01	Soil	August 10, 2023 12:18	08/11/2023 13:19

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Absaroka
 112 High St.
 Buffalo WY 82834

Joel Mason
 Project Number: FEO.CO.0703
 Project: Surprise Damfino S6 Pad

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: 4308311

Client: Absaroka

Client Project ID: Surprise Damfino S6 Pad

Checklist Completed by: EHS/ACW

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

Date/time completed: 8/11/23

Airbill #: N/A

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

Cooler Number/Temperature: 1 13.3 °C 1 °C 1 °C (Describe) 1 °C

Thermometer ID: 7001

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

Joel Mason
 Reviewed by (Project Manager)

8/11/23
 Date/Time Reviewed

Origins Laboratory, Inc.

Jordan A. Bynon

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Absaroka
 112 High St.
 Buffalo WY 82834

Joel Mason
 Project Number: FEO.CO.0703
 Project: Surprise Damfino S6 Pad

SD 20@48"

8/10/2023 12:18:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y308311-01 (Soil)

Boron (DTPA Sorbitol)

Boron	0.177	0.0984	mg/L	1	B3H1407	KAP	08/14/2023	08/15/2023
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Metals by Saturated Paste by EPA 6010

Calcium	3.28	0.499	meq/L	10	[CALC]	KAP	08/12/2023	08/14/2023
Magnesium	1.73	0.823	"	"	"	KAP	"	"
Sodium	3.19	0.435	"	"	"	KAP	"	"

pH in Soil by 9045D

pH	8.09		pH Units	1	B3H1206	ACN	08/12/2023	08/13/2023
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SAR by 20B Saturated Paste

SAR	2.01		SAR	1	B3H1203	KAP	08/12/2023	08/14/2023
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	1.10	0.00500	mmhos/cm	1	B3H1206	ACN	08/12/2023	08/13/2023
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Origins Laboratory, Inc.



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Absaroka
 112 High St.
 Buffalo WY 82834

Joel Mason
 Project Number: FEO.CO.0703
 Project: Surprise Damfino S6 Pad

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 B3H1203 - Saturated Paste Metals

Blank (B3H1203-BLK1)

Prepared: 08/12/2023 Analyzed: 08/14/2023

SAR	0.00		SAR							
Calcium PPM	ND	10.0	mg/L							
Magnesium PPM	ND	10.0	"							
Sodium PPM	ND	10.0	"							

Duplicate (B3H1203-DUP1)

Source: Y308311-01

Prepared: 08/12/2023 Analyzed: 08/14/2023

SAR	0.00		SAR		2.01			200	200	
Calcium PPM	59.1	10.0	mg/L		65.7			10.6	50	
Magnesium PPM	18.4	10.0	"		21.0			13.4	50	
Sodium PPM	72.6	10.0	"		73.3			0.960	50	

Batch B3H1407 - DTPA Sorbitol Preparation

Blank (B3H1407-BLK1)

Prepared: 08/14/2023 Analyzed: 08/15/2023

Boron	ND	0.100	mg/L							
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Duplicate (B3H1407-DUP1)

Source: Y308294-01

Prepared: 08/14/2023 Analyzed: 08/15/2023

Boron	0.132	0.0993	mg/L		0.0963			31.2	50	
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Origins Laboratory, Inc.



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Absaroka
 112 High St.
 Buffalo WY 82834

Joel Mason
 Project Number: FEO.CO.0703
 Project: Surprise Damfino S6 Pad

Saturated Paste - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B3H1206 - Saturated Paste pH/EC										
Blank (B3H1206-BLK1)					Prepared: 08/12/2023 Analyzed: 08/13/2023					
Specific Conductance (EC)	ND	0.00500	mmhos/cm							
Duplicate (B3H1206-DUP1)					Source: Y308311-01 Prepared: 08/12/2023 Analyzed: 08/13/2023					
Specific Conductance (EC)	1.13	0.00500	mmhos/cm		1.10		2.92	25		
pH	7.87		pH Units		8.09		2.76	25		

Origins Laboratory, Inc.



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Absaroka

112 High St.

Buffalo WY 82834

Joel Mason

Project Number: FEO.CO.0703

Project: Surprise Damfino S6 Pad

Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported at a wet weight basis.

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



August 17, 2023

Absaroka

Joel Mason

112 High St.

Buffalo

WY 82834

Project Name - Surprise Damfino S6 Pad

Project Number - FEO.CO.0703

Attached are your analytical results for Surprise Damfino S6 Pad received by Origins Laboratory, Inc. August 11, 2023. This project is associated with Origins project number Y308312-01.

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

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

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

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

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

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



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

Absaroka
112 High St.
Buffalo WY 82834

Joel Mason
Project Number: FEO.CO.0703
Project: Surprise Damfino S6 Pad

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SD_WH1_E@48"	Y308312-01	Soil	August 11, 2023 11:33	08/11/2023 13:19

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Absaroka
 112 High St.
 Buffalo WY 82834

Joel Mason
 Project Number: FEO.CO.0703
 Project: Surprise Damfino S6 Pad

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: 4308312

Client: Absaroka

Client Project ID: Surprise Damfino S6

Checklist Completed by: EHS/ACW

Shipped Via: FD Pad

Date/time completed: 8/11/23

(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 B3 °C 1 °C 1 °C (Describe) °C

Thermometer ID: 7004

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"/>			
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 HNO ₃ , HCl, H ₂ SO ₄) / (pH >10 for samples preserved with Na ₂ CO ₃ +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.

Abby Kaler
 Reviewed by (Project Manager)

8/11/23
 Date/Time Reviewed

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Absaroka
 112 High St.
 Buffalo WY 82834

Joel Mason
 Project Number: FEO.CO.0703
 Project: Surprise Damfino S6 Pad

SD WH1 E@48"
8/11/2023 11:33:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y308312-01 (Soil)

Boron (DTPA Sorbitol)

Boron	0.140	0.0998	mg/L	1	B3H1407	KAP	08/14/2023	08/15/2023
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Metals by Saturated Paste by EPA 6010

Calcium	1.43	0.499	meq/L	10	[CALC]	KAP	08/12/2023	08/14/2023
Magnesium	ND	0.823	"	"	"	KAP	"	"
Sodium	1.06	0.435	"	"	"	KAP	"	"

pH in Soil by 9045D

pH	8.14		pH Units	1	B3H1206	ACN	08/12/2023	08/13/2023
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SAR by 20B Saturated Paste

SAR	1.10		SAR	1	B3H1203	KAP	08/12/2023	08/14/2023
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.404	0.00500	mmhos/cm	1	B3H1206	ACN	08/12/2023	08/13/2023
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Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Absaroka
 112 High St.
 Buffalo WY 82834

Joel Mason
 Project Number: FEO.CO.0703
 Project: Surprise Damfino S6 Pad

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 B3H1203 - Saturated Paste Metals

Blank (B3H1203-BLK1)

Prepared: 08/12/2023 Analyzed: 08/14/2023

SAR	0.00		SAR							
Calcium PPM	ND	10.0	mg/L							
Magnesium PPM	ND	10.0	"							
Sodium PPM	ND	10.0	"							

Duplicate (B3H1203-DUP1)

Source: Y308311-01

Prepared: 08/12/2023 Analyzed: 08/14/2023

SAR	0.00		SAR		2.01			200	200	
Calcium PPM	59.1	10.0	mg/L		65.7			10.6	50	
Magnesium PPM	18.4	10.0	"		21.0			13.4	50	
Sodium PPM	72.6	10.0	"		73.3			0.960	50	

Batch B3H1407 - DTPA Sorbitol Preparation

Blank (B3H1407-BLK1)

Prepared: 08/14/2023 Analyzed: 08/15/2023

Boron	ND	0.100	mg/L							
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Duplicate (B3H1407-DUP1)

Source: Y308294-01

Prepared: 08/14/2023 Analyzed: 08/15/2023

Boron	0.132	0.0993	mg/L		0.0963			31.2	50	
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Origins Laboratory, Inc.



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Absaroka
 112 High St.
 Buffalo WY 82834

Joel Mason
 Project Number: FEO.CO.0703
 Project: Surprise Damfino S6 Pad

Saturated Paste - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B3H1206 - Saturated Paste pH/EC										
Blank (B3H1206-BLK1)					Prepared: 08/12/2023 Analyzed: 08/13/2023					
Specific Conductance (EC)	ND	0.00500	mmhos/cm							
Duplicate (B3H1206-DUP1)					Source: Y308311-01 Prepared: 08/12/2023 Analyzed: 08/13/2023					
Specific Conductance (EC)	1.13	0.00500	mmhos/cm		1.10		2.92		25	
pH	7.87		pH Units		8.09		2.76		25	

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Absaroka
112 High St.
Buffalo WY 82834

Joel Mason
Project Number: FEO.CO.0703
Project: Surprise Damfino S6 Pad

Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported at a wet weight basis.

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

August 17, 2023

Absaroka

Joel Mason

112 High St.

Buffalo

WY 82834

Project Name - Surprise Damfino S6 Pad

Project Number - FEO.CO.0703

Attached are your analytical results for Surprise Damfino S6 Pad received by Origins Laboratory, Inc. August 11, 2023. This project is associated with Origins project number Y308314-01.

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.

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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



Absaroka
112 High St.
Buffalo WY 82834

Joel Mason
Project Number: FEO.CO.0703
Project: Surprise Damfino S6 Pad

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SD_7_1@108"	Y308314-01	Soil	August 10, 2023 11:11	08/11/2023 13:19

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Absaroka
 112 High St.
 Buffalo WY 82834

Joel Mason
 Project Number: FEO.CO.0703
 Project: Surprise Damfino S6 Pad

Origins Laboratory

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

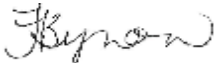
Sample Receipt Checklist

Origins Work Order: 4308314 Client: Absaroka
 Checklist Completed by: EHS/ACN Client Project ID: Surprise Damfino
 Date/time completed: 8/11/23 Shipped Via: HD 56 Pa
 (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 13.3 °C 1 °C 1 °C (Describe) °C
 Thermometer ID: 7004

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

Joel Mason
 Reviewed by (Project Manager) 8/11/23
 Date/Time Reviewed

Origins Laboratory, Inc.


The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Absaroka
 112 High St.
 Buffalo WY 82834

Joel Mason
 Project Number: FEO.CO.0703
 Project: Surprise Damfino S6 Pad

SD 7 1@108"
8/10/2023 11:11:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y308314-01 (Soil)

Boron (DTPA Sorbitol)

Boron	0.133	0.0991	mg/L	1	B3H1407	KAP	08/14/2023	08/15/2023	
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Metals by Saturated Paste by EPA 6010

Calcium	2.48	0.499	meq/L	10	[CALC]	KAP	08/12/2023	08/14/2023	
Magnesium	ND	0.823	"	"	"	KAP	"	"	
Sodium	9.87	0.435	"	"	"	KAP	"	"	

pH in Soil by 9045D

pH	8.17		pH Units	1	B3H1206	ACN	08/12/2023	08/13/2023	
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SAR by 20B Saturated Paste

SAR	7.85		SAR	1	B3H1203	KAP	08/12/2023	08/14/2023	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	1.87	0.00500	mmhos/cm	1	B3H1206	ACN	08/12/2023	08/13/2023	
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Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Absaroka
 112 High St.
 Buffalo WY 82834

Joel Mason
 Project Number: FEO.CO.0703
 Project: Surprise Damfino S6 Pad

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 B3H1203 - Saturated Paste Metals

Blank (B3H1203-BLK1)

Prepared: 08/12/2023 Analyzed: 08/14/2023

SAR	0.00		SAR							
Calcium PPM	ND	10.0	mg/L							
Magnesium PPM	ND	10.0	"							
Sodium PPM	ND	10.0	"							

Duplicate (B3H1203-DUP1)

Source: Y308311-01

Prepared: 08/12/2023 Analyzed: 08/14/2023

SAR	0.00		SAR		2.01			200	200	
Calcium PPM	59.1	10.0	mg/L		65.7			10.6	50	
Magnesium PPM	18.4	10.0	"		21.0			13.4	50	
Sodium PPM	72.6	10.0	"		73.3			0.960	50	

Batch B3H1407 - DTPA Sorbitol Preparation

Blank (B3H1407-BLK1)

Prepared: 08/14/2023 Analyzed: 08/15/2023

Boron	ND	0.100	mg/L							
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Duplicate (B3H1407-DUP1)

Source: Y308294-01

Prepared: 08/14/2023 Analyzed: 08/15/2023

Boron	0.132	0.0993	mg/L		0.0963			31.2	50	
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Origins Laboratory, Inc.



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Absaroka
 112 High St.
 Buffalo WY 82834

Joel Mason
 Project Number: FEO.CO.0703
 Project: Surprise Damfino S6 Pad

Saturated Paste - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B3H1206 - Saturated Paste pH/EC										
Blank (B3H1206-BLK1)					Prepared: 08/12/2023 Analyzed: 08/13/2023					
Specific Conductance (EC)	ND	0.00500	mmhos/cm							
Duplicate (B3H1206-DUP1)					Source: Y308311-01 Prepared: 08/12/2023 Analyzed: 08/13/2023					
Specific Conductance (EC)	1.13	0.00500	mmhos/cm		1.10		2.92		25	
pH	7.87		pH Units		8.09		2.76		25	

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Absaroka
112 High St.
Buffalo WY 82834

Joel Mason
Project Number: FEO.CO.0703
Project: Surprise Damfino S6 Pad

Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported at a wet weight basis.

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

August 17, 2023

Absaroka

Joel Mason

112 High St.

Buffalo

WY 82834

Project Name - Surprise Damfino S6 Pad

Project Number - FEO.CO.0703

Attached are your analytical results for Surprise Damfino S6 Pad received by Origins Laboratory, Inc. August 11, 2023. This project is associated with Origins project number Y308313-01.

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.

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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



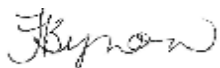
Absaroka
112 High St.
Buffalo WY 82834

Joel Mason
Project Number: FEO.CO.0703
Project: Surprise Damfino S6 Pad

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SD_7_1@120"	Y308313-01	Soil	August 10, 2023 11:15	08/11/2023 13:19

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Absaroka
 112 High St.
 Buffalo WY 82834

Joel Mason
 Project Number: FEO.CO.0703
 Project: Surprise Damfino S6 Pad

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: 4308313

Client: Absaroka

Client Project ID: Surprise Damfino S

Checklist Completed by: EHS/ACW

Shipped Via: HO Pad

Date/time completed: 8/11/23

(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 3.3 °C / _____ °C / _____ °C (Describe) _____ °C

Thermometer ID: 7004

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

Chelynn Kuhn
 Reviewed by (Project Manager)

8/11/23
 Date/Time Reviewed

Origins Laboratory, Inc.

Jordan A. Bynon

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Absaroka
 112 High St.
 Buffalo WY 82834

Joel Mason
 Project Number: FEO.CO.0703
 Project: Surprise Damfino S6 Pad

SD 7 1@120"
8/10/2023 11:15:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
---------	--------	-----------------	-------	----------	-------	---------	----------	----------	-------

Origins Laboratory, Inc.
Y308313-01 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.0995	mg/L	1	B3H1407	KAP	08/14/2023	08/15/2023	
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Metals by Saturated Paste by EPA 6010

Calcium	ND	0.499	meq/L	10	[CALC]	KAP	08/12/2023	08/14/2023	
Magnesium	ND	0.823	"	"	"	KAP	"	"	
Sodium	1.19	0.435	"	"	"	KAP	"	"	

pH in Soil by 9045D

pH	8.32		pH Units	1	B3H1206	ACN	08/12/2023	08/13/2023	
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SAR by 20B Saturated Paste

SAR	3.77		SAR	1	B3H1203	KAP	08/12/2023	08/14/2023	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.181	0.00500	mmhos/cm	1	B3H1206	ACN	08/12/2023	08/13/2023	
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Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Absaroka
 112 High St.
 Buffalo WY 82834

Joel Mason
 Project Number: FEO.CO.0703
 Project: Surprise Damfino S6 Pad

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 B3H1203 - Saturated Paste Metals

Blank (B3H1203-BLK1)

Prepared: 08/12/2023 Analyzed: 08/14/2023

SAR	0.00		SAR							
Calcium PPM	ND	10.0	mg/L							
Magnesium PPM	ND	10.0	"							
Sodium PPM	ND	10.0	"							

Duplicate (B3H1203-DUP1)

Source: Y308311-01

Prepared: 08/12/2023 Analyzed: 08/14/2023

SAR	0.00		SAR		2.01			200	200	
Calcium PPM	59.1	10.0	mg/L		65.7			10.6	50	
Magnesium PPM	18.4	10.0	"		21.0			13.4	50	
Sodium PPM	72.6	10.0	"		73.3			0.960	50	

Batch B3H1407 - DTPA Sorbitol Preparation

Blank (B3H1407-BLK1)

Prepared: 08/14/2023 Analyzed: 08/15/2023

Boron	ND	0.100	mg/L							
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Duplicate (B3H1407-DUP1)

Source: Y308294-01

Prepared: 08/14/2023 Analyzed: 08/15/2023

Boron	0.132	0.0993	mg/L		0.0963			31.2	50	
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Origins Laboratory, Inc.



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Absaroka
 112 High St.
 Buffalo WY 82834

Joel Mason
 Project Number: FEO.CO.0703
 Project: Surprise Damfino S6 Pad

Saturated Paste - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B3H1206 - Saturated Paste pH/EC										
Blank (B3H1206-BLK1)					Prepared: 08/12/2023 Analyzed: 08/13/2023					
Specific Conductance (EC)	ND	0.00500	mmhos/cm							
Duplicate (B3H1206-DUP1)					Source: Y308311-01 Prepared: 08/12/2023 Analyzed: 08/13/2023					
Specific Conductance (EC)	1.13	0.00500	mmhos/cm		1.10		2.92		25	
pH	7.87		pH Units		8.09		2.76		25	

Origins Laboratory, Inc.



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Absaroka
112 High St.
Buffalo WY 82834

Joel Mason
Project Number: FEO.CO.0703
Project: Surprise Damfino S6 Pad

Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported at a wet weight basis.

Origins Laboratory, Inc.



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August 23, 2023

Absaroka

Joel Mason

112 High St.

Buffalo

WY

82834

Project Name - Surprise Damfino S6 Pad

Project Number - FEO.CO.0701

Attached are your analytical results for Surprise Damfino S6 Pad received by Origins Laboratory, Inc. August 16, 2023. This project is associated with Origins project number Y308413-01.

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



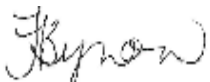
Absaroka
112 High St.
Buffalo WY 82834

Joel Mason
Project Number: FEO.CO.0701
Project: Surprise Damfino S6 Pad

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SD_10@36"	Y308413-01	Soil	August 15, 2023 10:30	08/16/2023 13:00

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Absaroka
112 High St.
Buffalo WY 82834

Joel Mason
Project Number: FEO.CO.0701
Project: Surprise Damfino S6 Pad

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: Y302413

Client: Abianka
Client Project ID: Surprise Damfino

Checklist Completed by: JSM/CHS
Date/time completed: 8/16/23

Shipped Via: _____
(UPS, FedEx, Hand Delivered, Pick-up, etc.)
Airbill #: N/A

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

Cooler Number/Temperature: 115 °C _____ °C _____ °C (Describe) _____ °C

Thermometer ID: 7004

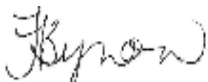
Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C ⁽¹⁾ ?	/			
Is there ice present (document if blue ice is used)	/			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)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

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

Reviewed by (Project Manager) JSM

Date/Time Reviewed 8/16/23

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Absaroka
 112 High St.
 Buffalo WY 82834

Joel Mason
 Project Number: FEO.CO.0701
 Project: Surprise Damfino S6 Pad

SD 10@36"

8/15/2023 10:30:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y308413-01 (Soil)

Boron (DTPA Sorbitol)

Boron	0.103		0.100	mg/L	1	B3H2114	08/21/2023	08/22/2023	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B3H1634	08/16/2023	08/16/2023	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	105 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B3H1640	08/16/2023	08/16/2023	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	116 %		70-130			"	"	"	
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Origins Laboratory, Inc.



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Absaroka
 112 High St.
 Buffalo WY 82834

Joel Mason
 Project Number: FEO.CO.0701
 Project: Surprise Damfino S6 Pad

SD 10@36"

8/15/2023 10:30:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y308413-01 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	102 %		70-130			B3H16 40	08/16/2023	08/16/2023	
Surrogate: 4-Bromofluorobenzene	102 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	17.7	0.499	meq/L	10	[CALC]		08/21/2023	08/22/2023	
Magnesium	5.58	0.823	"	"	"	"	"	"	
Sodium	1.11	0.435	"	"	"	"	"	"	

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B3H1724		08/17/2023	08/17/2023	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

Origins Laboratory, Inc.



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Absaroka
 112 High St.
 Buffalo WY 82834

Joel Mason
 Project Number: FEO.CO.0701
 Project: Surprise Damfino S6 Pad

SD 10@36"

8/15/2023 10:30:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y308413-01 (Soil)

PAH by EPA 8270E

Fluorene	ND		0.020	mg/kg	1	B3H1724	08/17/2023	08/17/2023	U
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	U
Naphthalene	ND		0.002	"	"	"	"	"	U
Pyrene	ND		0.020	"	"	"	"	"	U

Surrogate: Fluorene-d10	99.7 %		60-130			"	"	"	
Surrogate: Anthracene-d10	99.7 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	103 %		60-130			"	"	"	
Surrogate: Pyrene-d10	126 %		60-130			"	"	"	

pH in Soil by 9045D

pH	7.47			pH Units	1	B3H2118	08/21/2023	08/22/2023	
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SAR by 20B Saturated Paste

SAR	0.325		0.0100	SAR	1	B3H2109	08/21/2023	08/22/2023	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	2.77		0.00500	mmhos/cm	1	B3H2118	08/21/2023	08/22/2023	
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Table 915 metals by EPA 6020B

Origins Laboratory, Inc.



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Absaroka
 112 High St.
 Buffalo WY 82834

Joel Mason
 Project Number: FEO.CO.0701
 Project: Surprise Damfino S6 Pad

SD 10@36"

8/15/2023 10:30:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y308413-01 (Soil)

Table 915 metals by EPA 6020B

Arsenic	1.25		0.0900	mg/kg	10	B3H1635	08/16/2023	08/18/2023	
Barium	82.4		9.00	"	"	"	"	"	
Cadmium	0.0909		0.0900	"	"	"	"	"	
Copper	18.1		9.00	"	"	"	"	"	
Lead	ND		9.00	"	"	"	"	"	
Nickel	18.3		9.00	"	"	"	"	"	
Selenium	0.160		0.0900	"	"	"	"	"	
Silver	ND		0.0900	"	"	"	"	"	
Zinc	ND		90.0	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L699691	08/15/2023	08/21/2023	
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Origins Laboratory, Inc.



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Absaroka
 112 High St.
 Buffalo WY 82834

Joel Mason
 Project Number: FEO.CO.0701
 Project: Surprise Damfino S6 Pad

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 B3H1634 - EPA 3550B										
Blank (B3H1634-BLK1)										
					Prepared: 08/16/2023 Analyzed: 08/16/2023					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	28		"	24.9		111	50-150			

Origins Laboratory, Inc.



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 112 High St.
 Buffalo WY 82834

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 Project Number: FEO.CO.0701
 Project: Surprise Damfino S6 Pad

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 B3H1634 - EPA 3550B

LCS (B3H1634-BS1)

Prepared: 08/16/2023 Analyzed: 08/16/2023

Diesel (C10-C28)	786	50.0	mg/kg	1000		78.6	70-130			
Residual Range Organics (C28-C40)	927	200	"	1000		92.7	70-130			
Surrogate: o-Terphenyl	56		"	49.8		112	50-150			

Origins Laboratory, Inc.



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 Buffalo WY 82834

Joel Mason
 Project Number: FEO.CO.0701
 Project: Surprise Damfino S6 Pad

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 B3H1634 - EPA 3550B

Matrix Spike (B3H1634-MS1)	Source: Y308412-01			Prepared: 08/16/2023 Analyzed: 08/16/2023						
Diesel (C10-C28)	770	50.0	mg/kg	1000	ND	77.0	70-130			
Residual Range Organics (C28-C40)	840	200	"	1000	ND	84.0	70-130			
Surrogate: o-Terphenyl	53		"	49.8		106	50-150			

Origins Laboratory, Inc.



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Absaroka
 112 High St.
 Buffalo WY 82834

Joel Mason
 Project Number: FEO.CO.0701
 Project: Surprise Damfino S6 Pad

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 B3H1634 - EPA 3550B										
Matrix Spike Dup (B3H1634-MSD1)		Source: Y308412-01			Prepared: 08/16/2023 Analyzed: 08/16/2023					
Diesel (C10-C28)	744	50.0	mg/kg	1000	ND	74.4	70-130	3.49	35	
Residual Range Organics (C28-C40)	826	200	"	1000	ND	82.6	70-130	1.67	35	
Surrogate: o-Terphenyl	51		"	49.8		103	50-150			

Origins Laboratory, Inc.



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Absaroka
 112 High St.
 Buffalo WY 82834

Joel Mason
 Project Number: FEO.CO.0701
 Project: Surprise Damfino S6 Pad

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 B3H1640 - EPA 5030 (soil)

Blank (B3H1640-BLK1)

Prepared: 08/16/2023 Analyzed: 08/16/2023

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							U
1,3,5-Trimethylbenzene	ND	0.00200	"							U
Benzene	ND	0.00200	"							U
Ethylbenzene	ND	0.00200	"							U
Naphthalene	ND	0.00380	"							U
Toluene	ND	0.00200	"							U
Xylenes, total	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125	111		70-130			
Surrogate: Toluene-d8	0.13		"	0.125	105		70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125	105		70-130			

Origins Laboratory, Inc.



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Absaroka
 112 High St.
 Buffalo WY 82834

Joel Mason
 Project Number: FEO.CO.0701
 Project: Surprise Damfino S6 Pad

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 B3H1640 - EPA 5030 (soil)

LCS (B3H1640-BS1)

Prepared: 08/16/2023 Analyzed: 08/16/2023

1,2,4-Trimethylbenzene	0.0966	0.00200	mg/kg	0.100		96.6	70-130			
1,3,5-Trimethylbenzene	0.103	0.00200	"	0.100		103	70-130			
Benzene	0.0946	0.00200	"	0.100		94.6	70-130			
Ethylbenzene	0.0938	0.00200	"	0.100		93.8	70-130			
Naphthalene	0.0897	0.00380	"	0.100		89.7	70-130			
Toluene	0.101	0.00200	"	0.100		101	70-130			
o-Xylene	0.0859	0.00200	"	0.100		85.9	70-130			
m,p-Xylene	0.177	0.00400	"	0.200		88.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		104	70-130			
Surrogate: Toluene-d8	0.14		"	0.125		111	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		92.6	70-130			

Origins Laboratory, Inc.



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Absaroka
 112 High St.
 Buffalo WY 82834

Joel Mason
 Project Number: FEO.CO.0701
 Project: Surprise Damfino S6 Pad

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 B3H1640 - EPA 5030 (soil)

Matrix Spike (B3H1640-MS1)	Source: Y308375-01			Prepared: 08/16/2023 Analyzed: 08/17/2023						
1,2,4-Trimethylbenzene	0.0435	0.00200	mg/kg	0.100	ND	43.5	70-130			QM-07
1,3,5-Trimethylbenzene	0.0434	0.00200	"	0.100	ND	43.4	70-130			QM-07
Benzene	0.0674	0.00200	"	0.100	ND	67.4	70-130			QM-07
Ethylbenzene	0.102	0.00200	"	0.100	0.00170	101	70-130			
Naphthalene	0.0250	0.00380	"	0.100	0.00112	23.9	70-130			QM-07
Toluene	0.0685	0.00200	"	0.100	ND	68.5	70-130			QM-07
o-Xylene	0.0901	0.00200	"	0.100	0.00160	88.5	70-130			
m,p-Xylene	0.180	0.00400	"	0.200	0.00196	89.1	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		115	70-130			
Surrogate: Toluene-d8	0.15		"	0.125		119	70-130			
Surrogate: 4-Bromofluorobenzene	0.21		"	0.125		169	70-130			S-GC

Origins Laboratory, Inc.



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Absaroka
 112 High St.
 Buffalo WY 82834

Joel Mason
 Project Number: FEO.CO.0701
 Project: Surprise Damfino S6 Pad

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 B3H1640 - EPA 5030 (soil)

Matrix Spike Dup (B3H1640-MSD1)	Source: Y308375-01			Prepared: 08/16/2023 Analyzed: 08/17/2023						
1,2,4-Trimethylbenzene	0.0294	0.00200	mg/kg	0.100	ND	29.4	70-130	38.7	20	QM-07
1,3,5-Trimethylbenzene	0.0296	0.00200	"	0.100	ND	29.6	70-130	37.9	20	QM-07
Benzene	0.0446	0.00200	"	0.100	ND	44.6	70-130	40.7	20	QM-07
Ethylbenzene	0.0708	0.00200	"	0.100	0.00170	69.1	70-130	36.4	20	QM-07
Naphthalene	0.0188	0.00380	"	0.100	0.00112	17.7	70-130	28.2	20	QM-07
Toluene	0.0459	0.00200	"	0.100	ND	45.9	70-130	39.4	20	QM-07
o-Xylene	0.0622	0.00200	"	0.100	0.00160	60.6	70-130	36.6	20	QM-07
m,p-Xylene	0.124	0.00400	"	0.200	0.00196	61.2	70-130	36.6	20	QM-07
Surrogate: 1,2-Dichloroethane-d4	0.15		"	0.125		124	70-130			
Surrogate: Toluene-d8	0.15		"	0.125		120	70-130			
Surrogate: 4-Bromofluorobenzene	0.22		"	0.125		176	70-130			S-GC

Origins Laboratory, Inc.



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Absaroka
 112 High St.
 Buffalo WY 82834

Joel Mason
 Project Number: FEO.CO.0701
 Project: Surprise Damfino S6 Pad

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B3H1635 - EPA 3050B

Blank (B3H1635-BLK1)

Prepared: 08/16/2023 Analyzed: 08/18/2023

Arsenic	ND	0.000100	mg/kg							
Barium	ND	0.0100	"							
Cadmium	ND	0.000100	"							
Copper	ND	0.0100	"							
Lead	ND	0.0100	"							
Nickel	ND	0.0100	"							
Selenium	ND	0.000100	"							
Silver	ND	0.000100	"							
Zinc	ND	0.100	"							

LCS (B3H1635-BS1)

Prepared: 08/16/2023 Analyzed: 08/18/2023

Arsenic	0.0528	0.000100	mg/kg	0.0500		106	80-120			
Barium	4.93	0.0100	"	5.00		98.5	80-120			
Cadmium	0.0511	0.000100	"	0.0500		102	80-120			
Copper	0.523	0.0100	"	0.500		105	80-120			
Lead	0.0488	0.0100	"	0.0500		97.5	80-120			
Nickel	0.0488	0.0100	"	0.0500		97.7	80-120			
Selenium	0.0489	0.000100	"	0.0500		97.8	80-120			
Silver	0.0509	0.000100	"	0.0500		102	80-120			
Zinc	0.484	0.100	"	0.500		96.9	80-120			

Matrix Spike (B3H1635-MS1)

Source: Y308383-10

Prepared: 08/16/2023 Analyzed: 08/18/2023

Origins Laboratory, Inc.



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Absaroka
 112 High St.
 Buffalo WY 82834

Joel Mason
 Project Number: FEO.CO.0701
 Project: Surprise Damfino S6 Pad

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B3H1635 - EPA 3050B

Matrix Spike (B3H1635-MS1)		Source: Y308383-10			Prepared: 08/16/2023 Analyzed: 08/18/2023					
Arsenic	10.7	0.0947	mg/kg	4.73	2.96	164	75-125			QM-07
Barium	546	9.47	"	473	75.7	99.3	75-125			
Cadmium	5.00	0.0947	"	4.73	0.0891	104	75-125			
Copper	58.9	9.47	"	47.3	8.59	106	75-125			
Lead	14.5	9.47	"	4.73	5.74	186	75-125			QM-07
Nickel	14.3	9.47	"	4.73	7.94	133	75-125			QM-07
Selenium	4.62	0.0947	"	4.73	0.110	95.3	75-125			
Silver	4.75	0.0947	"	4.73	0.0182	100	75-125			
Zinc	85.0	94.7	"	47.3	29.2	118	75-125			
Matrix Spike Dup (B3H1635-MSD1)		Source: Y308383-10			Prepared: 08/16/2023 Analyzed: 08/18/2023					
Arsenic	9.34	0.0923	mg/kg	4.61	2.96	138	75-125	13.6	20	QM-07
Barium	528	9.23	"	461	75.7	98.1	75-125	3.27	20	
Cadmium	4.90	0.0923	"	4.61	0.0891	104	75-125	1.82	20	
Copper	56.1	9.23	"	46.1	8.59	103	75-125	4.98	20	
Lead	13.3	9.23	"	4.61	5.74	164	75-125	8.97	20	QM-07
Nickel	13.7	9.23	"	4.61	7.94	125	75-125	3.86	20	
Selenium	4.49	0.0923	"	4.61	0.110	95.0	75-125	2.80	20	
Silver	4.64	0.0923	"	4.61	0.0182	100	75-125	2.24	20	
Zinc	84.8	92.3	"	46.1	29.2	121	75-125	0.272	20	

Origins Laboratory, Inc.



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Absaroka
 112 High St.
 Buffalo WY 82834

Joel Mason
 Project Number: FEO.CO.0701
 Project: Surprise Damfino S6 Pad

EPA 8270E (SW846) - Semivolatile Organic Compounds - 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 B3H1724 - EPA 3580

Blank (B3H1724-BLK1)

Prepared: 08/17/2023 Analyzed: 08/17/2023

1-Methylnaphthalene	ND	0.002	mg/kg							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 (g,h,i) perylene	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
Phenanthrene	ND	0.020	"							U
Pyrene	ND	0.020	"							U
Surrogate: Fluorene-d10	200		ug/kg	200		98.3	60-130			
Surrogate: Anthracene-d10	200		"	200		98.9	60-130			
Surrogate: Benzo (a) pyrene-d12	210		"	200		105	60-130			
Surrogate: Pyrene-d10	250		"	200		126	60-130			

LCS (B3H1724-BS1)

Prepared: 08/17/2023 Analyzed: 08/17/2023

1-Methylnaphthalene	0.207	0.002	mg/kg	0.200		104	70-130			
2-Methylnaphthalene	0.203	0.002	"	0.200		101	70-130			
Acenaphthene	0.198	0.020	"	0.200		98.8	70-130			
Anthracene	0.190	0.020	"	0.200		95.2	70-130			

Origins Laboratory, Inc.



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 112 High St.
 Buffalo WY 82834

Joel Mason
 Project Number: FEO.CO.0701
 Project: Surprise Damfino S6 Pad

EPA 8270E (SW846) - Semivolatile Organic Compounds - 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 B3H1724 - EPA 3580

LCS (B3H1724-BS1)

Prepared: 08/17/2023 Analyzed: 08/17/2023

Benzo (a) anthracene	0.179	0.005	mg/kg	0.200		89.3	70-130			
Benzo (a) pyrene	0.186	0.020	"	0.200		92.8	70-130			
Benzo (b) fluoranthene	0.198	0.020	"	0.200		98.8	70-130			
Benzo (g,h,i) perylene	0.195	0.020	"	0.200		97.6	70-130			
Benzo (k) fluoranthene	0.199	0.020	"	0.200		99.5	70-130			
Chrysene	0.197	0.020	"	0.200		98.7	70-130			
Dibenz (a,h) anthracene	0.191	0.020	"	0.200		95.4	70-130			
Fluoranthene	0.198	0.020	"	0.200		98.9	70-130			
Fluorene	0.202	0.020	"	0.200		101	70-130			
Indeno (1,2,3-cd) pyrene	0.186	0.020	"	0.200		92.8	70-130			
Naphthalene	0.201	0.002	"	0.200		100	70-130			
Phenanthrene	0.193	0.020	"	0.200		96.3	70-130			
Pyrene	0.189	0.020	"	0.200		94.5	70-130			
Surrogate: Fluorene-d10	200		ug/kg	200		101	60-130			
Surrogate: Anthracene-d10	190		"	200		94.1	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		99.4	60-130			
Surrogate: Pyrene-d10	180		"	200		89.6	60-130			

Matrix Spike (B3H1724-MS1)

Source: Y308404-01

Prepared: 08/17/2023 Analyzed: 08/17/2023

1-Methylnaphthalene	0.199	0.002	mg/kg	0.200	ND	99.6	70-130			
2-Methylnaphthalene	0.197	0.002	"	0.200	ND	98.7	70-130			
Acenaphthene	0.196	0.020	"	0.200	ND	97.8	70-130			
Anthracene	0.186	0.020	"	0.200	ND	93.1	70-130			
Benzo (a) anthracene	0.188	0.005	"	0.200	0.001	93.2	70-130			
Benzo (a) pyrene	0.192	0.020	"	0.200	0.001	95.4	70-130			
Benzo (b) fluoranthene	0.196	0.020	"	0.200	ND	97.8	70-130			
Benzo (g,h,i) perylene	0.193	0.020	"	0.200	ND	96.7	70-130			

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Absaroka
 112 High St.
 Buffalo WY 82834

Joel Mason
 Project Number: FEO.CO.0701
 Project: Surprise Damfino S6 Pad

EPA 8270E (SW846) - Semivolatile Organic Compounds - 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 B3H1724 - EPA 3580

Matrix Spike (B3H1724-MS1)		Source: Y308404-01			Prepared: 08/17/2023 Analyzed: 08/17/2023					
Benzo (k) fluoranthene	0.210	0.020	mg/kg	0.200	ND	105	70-130			
Chrysene	0.193	0.020	"	0.200	0.0009	95.9	70-130			
Dibenz (a,h) anthracene	0.197	0.020	"	0.200	ND	98.4	70-130			
Fluoranthene	0.193	0.020	"	0.200	ND	96.4	70-130			
Fluorene	0.196	0.020	"	0.200	ND	98.2	70-130			
Indeno (1,2,3-cd) pyrene	0.184	0.020	"	0.200	ND	92.2	70-130			
Naphthalene	0.202	0.002	"	0.200	ND	101	70-130			
Phenanthrene	0.187	0.020	"	0.200	ND	93.3	70-130			
Pyrene	0.179	0.020	"	0.200	ND	89.4	70-130			
Surrogate: Fluorene-d10	200		ug/kg	200		99.3	60-130			
Surrogate: Anthracene-d10	190		"	200		94.7	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		101	60-130			
Surrogate: Pyrene-d10	170		"	200		86.2	60-130			

Matrix Spike Dup (B3H1724-MSD1)		Source: Y308404-01			Prepared: 08/17/2023 Analyzed: 08/17/2023					
1-Methylnaphthalene	0.201	0.002	mg/kg	0.200	ND	100	70-130	0.914	20	
2-Methylnaphthalene	0.198	0.002	"	0.200	ND	98.8	70-130	0.122	20	
Acenaphthene	0.202	0.020	"	0.200	ND	101	70-130	3.25	20	
Anthracene	0.178	0.020	"	0.200	ND	89.2	70-130	4.27	20	
Benzo (a) anthracene	0.190	0.005	"	0.200	0.001	94.1	70-130	1.01	20	
Benzo (a) pyrene	0.170	0.020	"	0.200	0.001	84.7	70-130	11.9	20	
Benzo (b) fluoranthene	0.199	0.020	"	0.200	ND	99.4	70-130	1.64	20	
Benzo (g,h,i) perylene	0.191	0.020	"	0.200	ND	95.6	70-130	1.15	20	
Benzo (k) fluoranthene	0.208	0.020	"	0.200	ND	104	70-130	0.937	20	
Chrysene	0.199	0.020	"	0.200	0.0009	98.9	70-130	3.05	20	
Dibenz (a,h) anthracene	0.184	0.020	"	0.200	ND	92.0	70-130	6.71	20	
Fluoranthene	0.177	0.020	"	0.200	ND	88.3	70-130	8.79	20	

Origins Laboratory, Inc.



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Absaroka
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 Buffalo WY 82834

Joel Mason
 Project Number: FEO.CO.0701
 Project: Surprise Damfino S6 Pad

EPA 8270E (SW846) - Semivolatile Organic Compounds - 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 B3H1724 - EPA 3580

Matrix Spike Dup (B3H1724-MSD1)	Source: Y308404-01			Prepared: 08/17/2023 Analyzed: 08/17/2023						
Fluorene	0.197	0.020	mg/kg	0.200	ND	98.7	70-130	0.480	20	
Indeno (1,2,3-cd) pyrene	0.189	0.020	"	0.200	ND	94.3	70-130	2.26	20	
Naphthalene	0.201	0.002	"	0.200	ND	101	70-130	0.209	20	
Phenanthrene	0.178	0.020	"	0.200	ND	89.1	70-130	4.55	20	
Pyrene	0.209	0.020	"	0.200	ND	104	70-130	15.5	20	
Surrogate: Fluorene-d10	200		ug/kg	200		100	60-130			
Surrogate: Anthracene-d10	190		"	200		96.5	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		101	60-130			
Surrogate: Pyrene-d10	200		"	200		102	60-130			

Origins Laboratory, Inc.



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Absaroka
 112 High St.
 Buffalo WY 82834

Joel Mason
 Project Number: FEO.CO.0701
 Project: Surprise Damfino S6 Pad

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 B3H2109 - Saturated Paste Metals

Blank (B3H2109-BLK1)

Prepared: 08/21/2023 Analyzed: 08/22/2023

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

Duplicate (B3H2109-DUP1)

Source: Y308407-09

Prepared: 08/21/2023 Analyzed: 08/22/2023

SAR	ND	0.0100	SAR		2.54				200	
Calcium PPM	46.0	10.0	mg/L		46.3			0.650	50	
Magnesium PPM	18.0	10.0	"		18.5			2.35	50	
Sodium PPM	81.0	10.0	"		80.7			0.359	50	

Batch B3H2114 - DTPA Sorbitol Preparation

Blank (B3H2114-BLK1)

Prepared: 08/21/2023 Analyzed: 08/22/2023

Boron	ND	0.100	mg/L							
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Duplicate (B3H2114-DUP1)

Source: Y308391-02

Prepared: 08/21/2023 Analyzed: 08/22/2023

Boron	2.25	0.0982	mg/L		2.22			1.38	50	
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Joel Mason
 Project Number: FEO.CO.0701
 Project: Surprise Damfino S6 Pad

Saturated Paste - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B3H2118 - Saturated Paste pH/EC										
Blank (B3H2118-BLK1)					Prepared: 08/21/2023 Analyzed: 08/22/2023					
Specific Conductance (EC)	ND	0.00500	mmhos/cm							
Duplicate (B3H2118-DUP1)					Source: Y308407-09 Prepared: 08/21/2023 Analyzed: 08/22/2023					
pH	8.14		pH Units		8.16		0.245	25		
Specific Conductance (EC)	0.783	0.00500	mmhos/cm		0.775		1.04	25		

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 112 High St.
 Buffalo WY 82834

Joel Mason
 Project Number: FEO.CO.0701
 Project: Surprise Damfino S6 Pad

Total Metals by 7196A - Quality Control
Waypoint Analytical, LLC.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch L699691 -										
DUP (L 95387-DUP)		Source: 95387			Prepared: Analyzed: 08/21/2023					
Chromium, Hexavalent	ND	0.514	mg/Kg		<0.514		-	0	20	
MS (L 95387-MS)		Source: 95387			Prepared: Analyzed: 08/21/2023					
Chromium, Hexavalent	32.8	2.59	mg/Kg	41.4	<1.26	79	75-125			
LCS (LCS)		Prepared: Analyzed: 08/21/2023								
Chromium, Hexavalent	7.47	0.5	mg/Kg	8		93	75-125			
LRB (LRB)		Prepared: Analyzed: 08/21/2023								
Chromium, Hexavalent	ND	0.5	mg/Kg				-			

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Absaroka
112 High St.
Buffalo WY 82834

Joel Mason
Project Number: FEO.CO.0701
Project: Surprise Damfino S6 Pad

Notes and Definitions

U Sample is Non-Detect.

S-GC Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogate.

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

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported on a wet weight basis.

Calculated results may use J-flag data (instead of reported "ND") as part of calculation to provide a more accurate result.

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August 23, 2023

Absaroka

Joel Mason

112 High St.

Buffalo WY 82834

Project Name - Surprise Damfino S6 Pad

Project Number - FEO.CO.0701

Attached are your analytical results for Surprise Damfino S6 Pad received by Origins Laboratory, Inc. August 16, 2023. This project is associated with Origins project number Y308423-01.

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



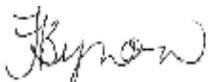
Absaroka
112 High St.
Buffalo WY 82834

Joel Mason
Project Number: FEO.CO.0701
Project: Surprise Damfino S6 Pad

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SD_12@48"	Y308423-01	Soil	August 15, 2023 10:45	08/16/2023 13:00

Origins Laboratory, Inc.



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Absaroka
112 High St.
Buffalo WY 82834

Joel Mason
Project Number: FEO.CO.0701
Project: Surprise Damfino S6 Pad

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: 4308423

Client: Absaroka

Client Project ID: Surprise Damfino S6

Checklist Completed by: EHS

Shipped Via: HO

Date/time completed: 8/16/23

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

Airbill #: N/A

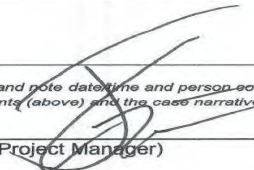
Matrix(s) Received: (Check all that apply): Soil/Solid Water Other: _____

Cooler Number/Temperature: 115 °C / _____ °C / _____ °C (Describe)

Thermometer ID: T004

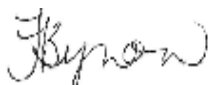
Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>			
Are custody seals present on cooler? (if so, 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"/>			
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 HNO ₃ , HCL, H ₂ SO ₄) / (pH >10 for samples preserved with NaAsO ₂ +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 (Project Manager) 

Date/Time Reviewed 8/18/23

Origins Laboratory, Inc.



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Absaroka
 112 High St.
 Buffalo WY 82834

Joel Mason
 Project Number: FEO.CO.0701
 Project: Surprise Damfino S6 Pad

SD 12@48"

8/15/2023 10:45:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y308423-01 (Soil)

Boron (DTPA Sorbitol)

Boron	ND		0.100	mg/L	1	B3H2114	08/21/2023	08/22/2023	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B3H1801	08/18/2023	08/21/2023	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	83.1 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B3H1831	08/18/2023	08/19/2023	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	103 %		70-130			"	"	"	
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Origins Laboratory, Inc.



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Buffalo WY 82834

Joel Mason
Project Number: FEO.CO.0701
Project: Surprise Damfino S6 Pad

SD 12@48"

8/15/2023 10:45:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y308423-01 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	98.6 %		70-130			B3H18 31	08/18/2023	08/19/2023	
Surrogate: 4-Bromofluorobenzene	99.2 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	24.8	0.499	meq/L	10	[CALC]		08/21/2023	08/22/2023	
Magnesium	9.81	0.823	"	"	"		"	"	
Sodium	4.54	0.435	"	"	"		"	"	

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B3H1724		08/17/2023	08/18/2023	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

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SD 12@48"

8/15/2023 10:45:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y308423-01 (Soil)

PAH by EPA 8270E

Fluorene	ND		0.020	mg/kg	1	B3H1724	08/17/2023	08/18/2023	U
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	U
Naphthalene	ND		0.002	"	"	"	"	"	U
Pyrene	ND		0.020	"	"	"	"	"	U

Surrogate: Fluorene-d10	99.2 %		60-130			"	"	"	
Surrogate: Anthracene-d10	94.0 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	102 %		60-130			"	"	"	
Surrogate: Pyrene-d10	111 %		60-130			"	"	"	

pH in Soil by 9045D

pH	6.95			pH Units	1	B3H2118	08/21/2023	08/22/2023	
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SAR by 20B Saturated Paste

SAR	1.09		0.0100	SAR	1	B3H2109	08/21/2023	08/22/2023	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	4.36		0.00500	mmhos/cm	1	B3H2118	08/21/2023	08/22/2023	
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Table 915 metals by EPA 6020B

Origins Laboratory, Inc.



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SD 12@48"

8/15/2023 10:45:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y308423-01 (Soil)

Table 915 metals by EPA 6020B

Arsenic	2.03		0.0957	mg/kg	10	B3H1702	08/17/2023	08/18/2023	
Barium	153		9.57	"	"	"	"	"	
Cadmium	0.149		0.0957	"	"	"	"	"	
Copper	25.5		9.57	"	"	"	"	"	
Lead	10.6		9.57	"	"	"	"	"	
Nickel	22.9		9.57	"	"	"	"	"	
Selenium	0.257		0.0957	"	"	"	"	"	
Silver	ND		0.0957	"	"	"	"	"	
Zinc	ND		95.7	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.253	0.52	mg/Kg	1	L699767	08/15/2023	08/21/2023	
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Absaroka
 112 High St.
 Buffalo WY 82834

Joel Mason
 Project Number: FEO.CO.0701
 Project: Surprise Damfino S6 Pad

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 B3H1801 - EPA 3550B										
Blank (B3H1801-BLK1)										
					Prepared: 08/18/2023 Analyzed: 08/21/2023					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	27		"	24.9		107	50-150			

Origins Laboratory, Inc.



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 Project: Surprise Damfino S6 Pad

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 B3H1801 - EPA 3550B

LCS (B3H1801-BS1)

Prepared: 08/18/2023 Analyzed: 08/21/2023

Diesel (C10-C28)	877	50.0	mg/kg	1000		87.7	70-130			
Residual Range Organics (C28-C40)	897	200	"	1000		89.7	70-130			
Surrogate: o-Terphenyl	54		"	49.8		109	50-150			

Origins Laboratory, Inc.



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Joel Mason
 Project Number: FEO.CO.0701
 Project: Surprise Damfino S6 Pad

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 B3H1801 - EPA 3550B

Matrix Spike (B3H1801-MS1)	Source: Y308405-01			Prepared: 08/18/2023 Analyzed: 08/21/2023						
Diesel (C10-C28)	922	50.0	mg/kg	1000	ND	92.2	70-130			
Residual Range Organics (C28-C40)	941	200	"	1000	ND	94.1	70-130			
Surrogate: o-Terphenyl	47		"	49.8		94.2	50-150			

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 Project Number: FEO.CO.0701
 Project: Surprise Damfino S6 Pad

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 B3H1801 - EPA 3550B										
Matrix Spike Dup (B3H1801-MSD1)					Source: Y308405-01					Prepared: 08/18/2023 Analyzed: 08/21/2023
Diesel (C10-C28)	850	50.0	mg/kg	1000	ND	85.0	70-130	8.10	35	
Residual Range Organics (C28-C40)	895	200	"	1000	ND	89.5	70-130	5.05	35	
Surrogate: o-Terphenyl	55		"	49.8		111	50-150			

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 Project: Surprise Damfino S6 Pad

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 B3H1831 - EPA 5030 (soil)

Blank (B3H1831-BLK1)

Prepared: 08/18/2023 Analyzed: 08/18/2023

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							U
1,3,5-Trimethylbenzene	ND	0.00200	"							U
Benzene	ND	0.00200	"							U
Ethylbenzene	ND	0.00200	"							U
Naphthalene	ND	0.00380	"							U
Toluene	ND	0.00200	"							U
Xylenes, total	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125	91.2		70-130			
Surrogate: Toluene-d8	0.12		"	0.125	99.2		70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125	95.5		70-130			

Origins Laboratory, Inc.



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Absaroka
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 Buffalo WY 82834

Joel Mason
 Project Number: FEO.CO.0701
 Project: Surprise Damfino S6 Pad

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 B3H1831 - EPA 5030 (soil)

LCS (B3H1831-BS1)

Prepared: 08/18/2023 Analyzed: 08/18/2023

1,2,4-Trimethylbenzene	0.0984	0.00200	mg/kg	0.100		98.4	70-130			
1,3,5-Trimethylbenzene	0.0998	0.00200	"	0.100		99.8	70-130			
Benzene	0.0939	0.00200	"	0.100		93.9	70-130			
Ethylbenzene	0.0950	0.00200	"	0.100		95.0	70-130			
Naphthalene	0.112	0.00380	"	0.100		112	70-130			
Toluene	0.0917	0.00200	"	0.100		91.7	70-130			
o-Xylene	0.100	0.00200	"	0.100		100	70-130			
m,p-Xylene	0.195	0.00400	"	0.200		97.3	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		92.3	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.5	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		97.8	70-130			

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 Project: Surprise Damfino S6 Pad

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 B3H1831 - EPA 5030 (soil)

Matrix Spike (B3H1831-MS1)	Source: Y308273-09			Prepared: 08/18/2023 Analyzed: 08/18/2023						
1,2,4-Trimethylbenzene	0.0775	0.00200	mg/kg	0.100	ND	77.5	70-130			
1,3,5-Trimethylbenzene	0.0787	0.00200	"	0.100	ND	78.7	70-130			
Benzene	0.0740	0.00200	"	0.100	ND	74.0	70-130			
Ethylbenzene	0.0774	0.00200	"	0.100	ND	77.4	70-130			
Naphthalene	0.0760	0.00380	"	0.100	ND	76.0	70-130			
Toluene	0.0747	0.00200	"	0.100	0.000920	73.8	70-130			
o-Xylene	0.0749	0.00200	"	0.100	0.000460	74.5	70-130			
m,p-Xylene	0.154	0.00400	"	0.200	0.00226	76.1	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		92.5	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		101	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		98.7	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 B3H1831 - EPA 5030 (soil)

Matrix Spike Dup (B3H1831-MSD1)	Source: Y308273-09		Prepared: 08/18/2023 Analyzed: 08/18/2023							
1,2,4-Trimethylbenzene	0.0638	0.00200	mg/kg	0.100	ND	63.8	70-130	19.4	20	QM-07
1,3,5-Trimethylbenzene	0.0655	0.00200	"	0.100	ND	65.5	70-130	18.3	20	QM-07
Benzene	0.0675	0.00200	"	0.100	ND	67.5	70-130	9.18	20	QM-07
Ethylbenzene	0.0658	0.00200	"	0.100	ND	65.8	70-130	16.2	20	QM-07
Naphthalene	0.0630	0.00380	"	0.100	ND	63.0	70-130	18.7	20	QM-07
Toluene	0.0658	0.00200	"	0.100	0.000920	64.9	70-130	12.7	20	QM-07
o-Xylene	0.0632	0.00200	"	0.100	0.000460	62.7	70-130	17.0	20	QM-07
m,p-Xylene	0.131	0.00400	"	0.200	0.00226	64.4	70-130	16.3	20	QM-07
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		99.8	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		97.8	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		98.9	70-130			

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 Project Number: FEO.CO.0701
 Project: Surprise Damfino S6 Pad

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B3H1702 - EPA 3050B

Blank (B3H1702-BLK1)

Prepared: 08/17/2023 Analyzed: 08/18/2023

Arsenic	ND	0.000100	mg/kg							
Barium	ND	0.0100	"							
Cadmium	ND	0.000100	"							
Copper	ND	0.0100	"							
Lead	ND	0.0100	"							
Nickel	ND	0.0100	"							
Selenium	ND	0.000100	"							
Silver	ND	0.000100	"							
Zinc	ND	0.100	"							

LCS (B3H1702-BS1)

Prepared: 08/17/2023 Analyzed: 08/18/2023

Arsenic	0.0529	0.000100	mg/kg	0.0500		106	80-120			
Barium	4.96	0.0100	"	5.00		99.3	80-120			
Cadmium	0.0513	0.000100	"	0.0500		103	80-120			
Copper	0.540	0.0100	"	0.500		108	80-120			
Lead	0.0502	0.0100	"	0.0500		100	80-120			
Nickel	0.0495	0.0100	"	0.0500		99.1	80-120			
Selenium	0.0491	0.000100	"	0.0500		98.2	80-120			
Silver	0.0510	0.000100	"	0.0500		102	80-120			
Zinc	0.482	0.100	"	0.500		96.4	80-120			

Matrix Spike (B3H1702-MS1)

Source: Y308370-01

Prepared: 08/17/2023 Analyzed: 08/18/2023

Origins Laboratory, Inc.



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 Buffalo WY 82834

Joel Mason
 Project Number: FEO.CO.0701
 Project: Surprise Damfino S6 Pad

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B3H1702 - EPA 3050B

Matrix Spike (B3H1702-MS1)		Source: Y308370-01			Prepared: 08/17/2023 Analyzed: 08/18/2023					
Arsenic	8.20	0.0854	mg/kg	4.27	5.76	56.9	75-125			QM-07
Barium	408	8.54	"	427	30.9	88.2	75-125			
Cadmium	4.41	0.0854	"	4.27	0.0840	101	75-125			
Copper	45.2	8.54	"	42.7	5.08	93.9	75-125			
Lead	8.05	8.54	"	4.27	6.52	35.8	75-125			QM-07
Nickel	8.10	8.54	"	4.27	5.91	51.2	75-125			QM-07
Selenium	4.18	0.0854	"	4.27	0.154	94.3	75-125			
Silver	4.30	0.0854	"	4.27	0.0104	100	75-125			
Zinc	56.2	85.4	"	42.7	24.5	74.4	75-125			QM-07
Matrix Spike Dup (B3H1702-MSD1)		Source: Y308370-01			Prepared: 08/17/2023 Analyzed: 08/18/2023					
Arsenic	12.8	0.0950	mg/kg	4.75	5.76	147	75-125	43.6	20	QM-07
Barium	464	9.50	"	475	30.9	91.3	75-125	13.0	20	
Cadmium	5.13	0.0950	"	4.75	0.0840	106	75-125	14.9	20	
Copper	53.0	9.50	"	47.5	5.08	101	75-125	15.9	20	
Lead	10.8	9.50	"	4.75	6.52	90.7	75-125	29.4	20	QM-07
Nickel	11.3	9.50	"	4.75	5.91	114	75-125	33.4	20	QM-07
Selenium	4.91	0.0950	"	4.75	0.154	100	75-125	16.1	20	
Silver	4.88	0.0950	"	4.75	0.0104	103	75-125	12.7	20	
Zinc	68.8	95.0	"	47.5	24.5	93.4	75-125	20.1	20	QM-07

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Absaroka
 112 High St.
 Buffalo WY 82834

Joel Mason
 Project Number: FEO.CO.0701
 Project: Surprise Damfino S6 Pad

EPA 8270E (SW846) - Semivolatile Organic Compounds - 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 B3H1724 - EPA 3580

Blank (B3H1724-BLK1)

Prepared: 08/17/2023 Analyzed: 08/17/2023

1-Methylnaphthalene	ND	0.002	mg/kg							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 (g,h,i) perylene	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
Phenanthrene	ND	0.020	"							U
Pyrene	ND	0.020	"							U
Surrogate: Fluorene-d10	200		ug/kg	200		98.3	60-130			
Surrogate: Anthracene-d10	200		"	200		98.9	60-130			
Surrogate: Benzo (a) pyrene-d12	210		"	200		105	60-130			
Surrogate: Pyrene-d10	250		"	200		126	60-130			

LCS (B3H1724-BS1)

Prepared: 08/17/2023 Analyzed: 08/17/2023

1-Methylnaphthalene	0.207	0.002	mg/kg	0.200		104	70-130			
2-Methylnaphthalene	0.203	0.002	"	0.200		101	70-130			
Acenaphthene	0.198	0.020	"	0.200		98.8	70-130			
Anthracene	0.190	0.020	"	0.200		95.2	70-130			

Origins Laboratory, Inc.



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Absaroka
 112 High St.
 Buffalo WY 82834

Joel Mason
 Project Number: FEO.CO.0701
 Project: Surprise Damfino S6 Pad

EPA 8270E (SW846) - Semivolatile Organic Compounds - 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 B3H1724 - EPA 3580

LCS (B3H1724-BS1)

Prepared: 08/17/2023 Analyzed: 08/17/2023

Benzo (a) anthracene	0.179	0.005	mg/kg	0.200		89.3	70-130			
Benzo (a) pyrene	0.186	0.020	"	0.200		92.8	70-130			
Benzo (b) fluoranthene	0.198	0.020	"	0.200		98.8	70-130			
Benzo (g,h,i) perylene	0.195	0.020	"	0.200		97.6	70-130			
Benzo (k) fluoranthene	0.199	0.020	"	0.200		99.5	70-130			
Chrysene	0.197	0.020	"	0.200		98.7	70-130			
Dibenz (a,h) anthracene	0.191	0.020	"	0.200		95.4	70-130			
Fluoranthene	0.198	0.020	"	0.200		98.9	70-130			
Fluorene	0.202	0.020	"	0.200		101	70-130			
Indeno (1,2,3-cd) pyrene	0.186	0.020	"	0.200		92.8	70-130			
Naphthalene	0.201	0.002	"	0.200		100	70-130			
Phenanthrene	0.193	0.020	"	0.200		96.3	70-130			
Pyrene	0.189	0.020	"	0.200		94.5	70-130			
Surrogate: Fluorene-d10	200		ug/kg	200		101	60-130			
Surrogate: Anthracene-d10	190		"	200		94.1	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		99.4	60-130			
Surrogate: Pyrene-d10	180		"	200		89.6	60-130			

Matrix Spike (B3H1724-MS1)

Source: Y308404-01

Prepared: 08/17/2023 Analyzed: 08/17/2023

1-Methylnaphthalene	0.199	0.002	mg/kg	0.200	ND	99.6	70-130			
2-Methylnaphthalene	0.197	0.002	"	0.200	ND	98.7	70-130			
Acenaphthene	0.196	0.020	"	0.200	ND	97.8	70-130			
Anthracene	0.186	0.020	"	0.200	ND	93.1	70-130			
Benzo (a) anthracene	0.188	0.005	"	0.200	0.001	93.2	70-130			
Benzo (a) pyrene	0.192	0.020	"	0.200	0.001	95.4	70-130			
Benzo (b) fluoranthene	0.196	0.020	"	0.200	ND	97.8	70-130			
Benzo (g,h,i) perylene	0.193	0.020	"	0.200	ND	96.7	70-130			

Origins Laboratory, Inc.



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Absaroka
 112 High St.
 Buffalo WY 82834

Joel Mason
 Project Number: FEO.CO.0701
 Project: Surprise Damfino S6 Pad

EPA 8270E (SW846) - Semivolatile Organic Compounds - 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 B3H1724 - EPA 3580

Matrix Spike (B3H1724-MS1)		Source: Y308404-01			Prepared: 08/17/2023 Analyzed: 08/17/2023					
Benzo (k) fluoranthene	0.210	0.020	mg/kg	0.200	ND	105	70-130			
Chrysene	0.193	0.020	"	0.200	0.0009	95.9	70-130			
Dibenz (a,h) anthracene	0.197	0.020	"	0.200	ND	98.4	70-130			
Fluoranthene	0.193	0.020	"	0.200	ND	96.4	70-130			
Fluorene	0.196	0.020	"	0.200	ND	98.2	70-130			
Indeno (1,2,3-cd) pyrene	0.184	0.020	"	0.200	ND	92.2	70-130			
Naphthalene	0.202	0.002	"	0.200	ND	101	70-130			
Phenanthrene	0.187	0.020	"	0.200	ND	93.3	70-130			
Pyrene	0.179	0.020	"	0.200	ND	89.4	70-130			
Surrogate: Fluorene-d10	200		ug/kg	200		99.3	60-130			
Surrogate: Anthracene-d10	190		"	200		94.7	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		101	60-130			
Surrogate: Pyrene-d10	170		"	200		86.2	60-130			

Matrix Spike Dup (B3H1724-MSD1)		Source: Y308404-01			Prepared: 08/17/2023 Analyzed: 08/17/2023					
1-Methylnaphthalene	0.201	0.002	mg/kg	0.200	ND	100	70-130	0.914	20	
2-Methylnaphthalene	0.198	0.002	"	0.200	ND	98.8	70-130	0.122	20	
Acenaphthene	0.202	0.020	"	0.200	ND	101	70-130	3.25	20	
Anthracene	0.178	0.020	"	0.200	ND	89.2	70-130	4.27	20	
Benzo (a) anthracene	0.190	0.005	"	0.200	0.001	94.1	70-130	1.01	20	
Benzo (a) pyrene	0.170	0.020	"	0.200	0.001	84.7	70-130	11.9	20	
Benzo (b) fluoranthene	0.199	0.020	"	0.200	ND	99.4	70-130	1.64	20	
Benzo (g,h,i) perylene	0.191	0.020	"	0.200	ND	95.6	70-130	1.15	20	
Benzo (k) fluoranthene	0.208	0.020	"	0.200	ND	104	70-130	0.937	20	
Chrysene	0.199	0.020	"	0.200	0.0009	98.9	70-130	3.05	20	
Dibenz (a,h) anthracene	0.184	0.020	"	0.200	ND	92.0	70-130	6.71	20	
Fluoranthene	0.177	0.020	"	0.200	ND	88.3	70-130	8.79	20	

Origins Laboratory, Inc.



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Absaroka
 112 High St.
 Buffalo WY 82834

Joel Mason
 Project Number: FEO.CO.0701
 Project: Surprise Damfino S6 Pad

EPA 8270E (SW846) - Semivolatile Organic Compounds - 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 B3H1724 - EPA 3580

Matrix Spike Dup (B3H1724-MSD1)	Source: Y308404-01			Prepared: 08/17/2023 Analyzed: 08/17/2023						
Fluorene	0.197	0.020	mg/kg	0.200	ND	98.7	70-130	0.480	20	
Indeno (1,2,3-cd) pyrene	0.189	0.020	"	0.200	ND	94.3	70-130	2.26	20	
Naphthalene	0.201	0.002	"	0.200	ND	101	70-130	0.209	20	
Phenanthrene	0.178	0.020	"	0.200	ND	89.1	70-130	4.55	20	
Pyrene	0.209	0.020	"	0.200	ND	104	70-130	15.5	20	
Surrogate: Fluorene-d10	200		ug/kg	200		100	60-130			
Surrogate: Anthracene-d10	190		"	200		96.5	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		101	60-130			
Surrogate: Pyrene-d10	200		"	200		102	60-130			

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Absaroka
 112 High St.
 Buffalo WY 82834

Joel Mason
 Project Number: FEO.CO.0701
 Project: Surprise Damfino S6 Pad

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 B3H2109 - Saturated Paste Metals

Blank (B3H2109-BLK1)

Prepared: 08/21/2023 Analyzed: 08/22/2023

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

Duplicate (B3H2109-DUP1)

Source: Y308407-09

Prepared: 08/21/2023 Analyzed: 08/22/2023

SAR	ND	0.0100	SAR		2.54				200	
Calcium PPM	46.0	10.0	mg/L		46.3			0.650	50	
Magnesium PPM	18.0	10.0	"		18.5			2.35	50	
Sodium PPM	81.0	10.0	"		80.7			0.359	50	

Batch B3H2114 - DTPA Sorbitol Preparation

Blank (B3H2114-BLK1)

Prepared: 08/21/2023 Analyzed: 08/22/2023

Boron	ND	0.100	mg/L							
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Duplicate (B3H2114-DUP1)

Source: Y308391-02

Prepared: 08/21/2023 Analyzed: 08/22/2023

Boron	2.25	0.0982	mg/L		2.22			1.38	50	
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Absaroka
 112 High St.
 Buffalo WY 82834

Joel Mason
 Project Number: FEO.CO.0701
 Project: Surprise Damfino S6 Pad

Saturated Paste - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B3H2118 - Saturated Paste pH/EC										
Blank (B3H2118-BLK1)					Prepared: 08/21/2023 Analyzed: 08/22/2023					
Specific Conductance (EC)	ND	0.00500	mmhos/cm							
Duplicate (B3H2118-DUP1)					Source: Y308407-09 Prepared: 08/21/2023 Analyzed: 08/22/2023					
pH	8.14		pH Units		8.16		0.245	25		
Specific Conductance (EC)	0.783	0.00500	mmhos/cm		0.775		1.04	25		

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Absaroka
 112 High St.
 Buffalo WY 82834

Joel Mason
 Project Number: FEO.CO.0701
 Project: Surprise Damfino S6 Pad

Total Metals by 7196A - Quality Control
Waypoint Analytical, LLC.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch L699767 -										
DUP (L 95448-DUP)		Source: 95448			Prepared: Analyzed: 08/21/2023					
Chromium, Hexavalent	ND	0.506	mg/Kg		<0.506		-	0	20	
MS (L 95448-MS)		Source: 95448			Prepared: Analyzed: 08/21/2023					
Chromium, Hexavalent	22.8	2.6	mg/Kg	41.6	<1.27	55	75-125			*
LCS (LCS)		Prepared: Analyzed: 08/21/2023								
Chromium, Hexavalent	7.38	0.5	mg/Kg	8		92	75-125			
LRB (LRB)		Prepared: Analyzed: 08/21/2023								
Chromium, Hexavalent	ND	0.5	mg/Kg				-			

Origins Laboratory, Inc.



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Absaroka
112 High St.
Buffalo WY 82834

Joel Mason
Project Number: FEO.CO.0701
Project: Surprise Damfino S6 Pad

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.

* QC Failure

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported on a wet weight basis.

Calculated results may use J-flag data (instead of reported "ND") as part of calculation to provide a more accurate result.

Origins Laboratory, Inc.



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August 23, 2023

Absaroka

Joel Mason

112 High St.

Buffalo WY 82834

Project Name - Surprise Damfino S6 Pad

Project Number - FEO.CO.0701

Attached are your analytical results for Surprise Damfino S6 Pad received by Origins Laboratory, Inc. August 16, 2023. This project is associated with Origins project number Y308412-01.

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



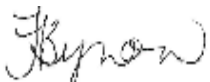
Absaroka
112 High St.
Buffalo WY 82834

Joel Mason
Project Number: FEO.CO.0701
Project: Surprise Damfino S6 Pad

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SD_SP1@48"	Y308412-01	Soil	August 15, 2023 11:30	08/16/2023 13:00

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Absaroka
 112 High St.
 Buffalo WY 82834

Joel Mason
 Project Number: FEO.CO.0701
 Project: Surprise Damfino S6 Pad

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: YB07412

Client: Arjarska

Client Project ID: Surprise Damfino S6 P1

Checklist Completed by: JST/CHS

Shipped Via: HD

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

Date/time completed: 8/10/12

Airbill #: N/A

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

Cooler Number/Temperature: 115 °C / _____ °C / _____ °C (Describe)

Thermometer ID: 7004

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

8/10/12
 Date/Time Reviewed

Origins Laboratory, Inc.

[Signature]

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Absaroka
 112 High St.
 Buffalo WY 82834

Joel Mason
 Project Number: FEO.CO.0701
 Project: Surprise Damfino S6 Pad

SD SP1@48"
8/15/2023 11:30:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y308412-01 (Soil)

Boron (DTPA Sorbitol)

Boron	0.419		0.101	mg/L	1	B3H2114	08/21/2023	08/22/2023	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B3H1634	08/16/2023	08/16/2023	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	101 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B3H1640	08/16/2023	08/16/2023	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	113 %		70-130			"	"	"	
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Origins Laboratory, Inc.



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Absaroka
112 High St.
Buffalo WY 82834

Joel Mason
Project Number: FEO.CO.0701
Project: Surprise Damfino S6 Pad

SD SP1@48"

8/15/2023 11:30:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y308412-01 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	105 %		70-130			B3H16 40	08/16/2023	08/16/2023	
Surrogate: 4-Bromofluorobenzene	104 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	2.72	0.499	meq/L	10	[CALC]		08/21/2023	08/22/2023	
Magnesium	2.42	0.823	"	"	"	"	"	"	
Sodium	3.94	0.435	"	"	"	"	"	"	

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B3H1724		08/17/2023	08/17/2023	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

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Absaroka
 112 High St.
 Buffalo WY 82834

Joel Mason
 Project Number: FEO.CO.0701
 Project: Surprise Damfino S6 Pad

SD SP1@48"
8/15/2023 11:30:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y308412-01 (Soil)

PAH by EPA 8270E

Fluorene	ND		0.020	mg/kg	1	B3H1724	08/17/2023	08/17/2023	U
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	U
Naphthalene	ND		0.002	"	"	"	"	"	U
Pyrene	ND		0.020	"	"	"	"	"	U

Surrogate: Fluorene-d10	98.2 %		60-130			"	"	"	
Surrogate: Anthracene-d10	97.6 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	105 %		60-130			"	"	"	
Surrogate: Pyrene-d10	125 %		60-130			"	"	"	

pH in Soil by 9045D

pH	8.18			pH Units	1	B3H2118	08/21/2023	08/22/2023	
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SAR by 20B Saturated Paste

SAR	2.46		0.0100	SAR	1	B3H2109	08/21/2023	08/22/2023	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.960		0.00500	mmhos/cm	1	B3H2118	08/21/2023	08/22/2023	
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Table 915 metals by EPA 6020B

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 Project: Surprise Damfino S6 Pad

SD SP1@48"

8/15/2023 11:30:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y308412-01 (Soil)

Table 915 metals by EPA 6020B

Arsenic	2.67	0.0921	0.0921	mg/kg	10	B3H1635	08/16/2023	08/18/2023	
Barium	174	9.21	9.21	"	"	"	"	"	
Cadmium	0.321	0.0921	0.0921	"	"	"	"	"	
Copper	23.9	9.21	9.21	"	"	"	"	"	
Lead	13.6	9.21	9.21	"	"	"	"	"	
Nickel	16.8	9.21	9.21	"	"	"	"	"	
Selenium	0.422	0.0921	0.0921	"	"	"	"	"	
Silver	ND	0.0921	0.0921	"	"	"	"	"	
Zinc	ND	92.1	92.1	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L699691	08/15/2023	08/21/2023	
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 Project: Surprise Damfino S6 Pad

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 B3H1634 - EPA 3550B										
Blank (B3H1634-BLK1)										
					Prepared: 08/16/2023 Analyzed: 08/16/2023					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	28		"	24.9		111	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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Batch B3H1634 - EPA 3550B

LCS (B3H1634-BS1)

Prepared: 08/16/2023 Analyzed: 08/16/2023

Diesel (C10-C28)	786	50.0	mg/kg	1000		78.6	70-130			
Residual Range Organics (C28-C40)	927	200	"	1000		92.7	70-130			
Surrogate: o-Terphenyl	56		"	49.8		112	50-150			

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 Project: Surprise Damfino S6 Pad

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 B3H1634 - EPA 3550B

Matrix Spike (B3H1634-MS1)	Source: Y308412-01			Prepared: 08/16/2023 Analyzed: 08/16/2023						
Diesel (C10-C28)	770	50.0	mg/kg	1000	ND	77.0	70-130			
Residual Range Organics (C28-C40)	840	200	"	1000	ND	84.0	70-130			
Surrogate: o-Terphenyl	53		"	49.8		106	50-150			

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 Project: Surprise Damfino S6 Pad

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 B3H1634 - EPA 3550B										
Matrix Spike Dup (B3H1634-MSD1)		Source: Y308412-01			Prepared: 08/16/2023 Analyzed: 08/16/2023					
Diesel (C10-C28)	744	50.0	mg/kg	1000	ND	74.4	70-130	3.49	35	
Residual Range Organics (C28-C40)	826	200	"	1000	ND	82.6	70-130	1.67	35	
Surrogate: o-Terphenyl	51		"	49.8		103	50-150			

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 Project: Surprise Damfino S6 Pad

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 B3H1640 - EPA 5030 (soil)

Blank (B3H1640-BLK1)

Prepared: 08/16/2023 Analyzed: 08/16/2023

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							U
1,3,5-Trimethylbenzene	ND	0.00200	"							U
Benzene	ND	0.00200	"							U
Ethylbenzene	ND	0.00200	"							U
Naphthalene	ND	0.00380	"							U
Toluene	ND	0.00200	"							U
Xylenes, total	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125	111		70-130			
Surrogate: Toluene-d8	0.13		"	0.125	105		70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125	105		70-130			

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Joel Mason
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 Project: Surprise Damfino S6 Pad

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 B3H1640 - EPA 5030 (soil)

LCS (B3H1640-BS1)

Prepared: 08/16/2023 Analyzed: 08/16/2023

1,2,4-Trimethylbenzene	0.0966	0.00200	mg/kg	0.100		96.6	70-130			
1,3,5-Trimethylbenzene	0.103	0.00200	"	0.100		103	70-130			
Benzene	0.0946	0.00200	"	0.100		94.6	70-130			
Ethylbenzene	0.0938	0.00200	"	0.100		93.8	70-130			
Naphthalene	0.0897	0.00380	"	0.100		89.7	70-130			
Toluene	0.101	0.00200	"	0.100		101	70-130			
o-Xylene	0.0859	0.00200	"	0.100		85.9	70-130			
m,p-Xylene	0.177	0.00400	"	0.200		88.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		104	70-130			
Surrogate: Toluene-d8	0.14		"	0.125		111	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		92.6	70-130			

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 Project: Surprise Damfino S6 Pad

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 B3H1640 - EPA 5030 (soil)

Matrix Spike (B3H1640-MS1)	Source: Y308375-01			Prepared: 08/16/2023 Analyzed: 08/17/2023						
1,2,4-Trimethylbenzene	0.0435	0.00200	mg/kg	0.100	ND	43.5	70-130			QM-07
1,3,5-Trimethylbenzene	0.0434	0.00200	"	0.100	ND	43.4	70-130			QM-07
Benzene	0.0674	0.00200	"	0.100	ND	67.4	70-130			QM-07
Ethylbenzene	0.102	0.00200	"	0.100	0.00170	101	70-130			
Naphthalene	0.0250	0.00380	"	0.100	0.00112	23.9	70-130			QM-07
Toluene	0.0685	0.00200	"	0.100	ND	68.5	70-130			QM-07
o-Xylene	0.0901	0.00200	"	0.100	0.00160	88.5	70-130			
m,p-Xylene	0.180	0.00400	"	0.200	0.00196	89.1	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		115	70-130			
Surrogate: Toluene-d8	0.15		"	0.125		119	70-130			
Surrogate: 4-Bromofluorobenzene	0.21		"	0.125		169	70-130			S-GC

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 Project: Surprise Damfino S6 Pad

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 B3H1640 - EPA 5030 (soil)

Matrix Spike Dup (B3H1640-MSD1)	Source: Y308375-01			Prepared: 08/16/2023 Analyzed: 08/17/2023						
1,2,4-Trimethylbenzene	0.0294	0.00200	mg/kg	0.100	ND	29.4	70-130	38.7	20	QM-07
1,3,5-Trimethylbenzene	0.0296	0.00200	"	0.100	ND	29.6	70-130	37.9	20	QM-07
Benzene	0.0446	0.00200	"	0.100	ND	44.6	70-130	40.7	20	QM-07
Ethylbenzene	0.0708	0.00200	"	0.100	0.00170	69.1	70-130	36.4	20	QM-07
Naphthalene	0.0188	0.00380	"	0.100	0.00112	17.7	70-130	28.2	20	QM-07
Toluene	0.0459	0.00200	"	0.100	ND	45.9	70-130	39.4	20	QM-07
o-Xylene	0.0622	0.00200	"	0.100	0.00160	60.6	70-130	36.6	20	QM-07
m,p-Xylene	0.124	0.00400	"	0.200	0.00196	61.2	70-130	36.6	20	QM-07
Surrogate: 1,2-Dichloroethane-d4	0.15		"	0.125		124	70-130			
Surrogate: Toluene-d8	0.15		"	0.125		120	70-130			
Surrogate: 4-Bromofluorobenzene	0.22		"	0.125		176	70-130			S-GC

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 Project Number: FEO.CO.0701
 Project: Surprise Damfino S6 Pad

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B3H1635 - EPA 3050B

Blank (B3H1635-BLK1)

Prepared: 08/16/2023 Analyzed: 08/18/2023

Arsenic	ND	0.000100	mg/kg							
Barium	ND	0.0100	"							
Cadmium	ND	0.000100	"							
Copper	ND	0.0100	"							
Lead	ND	0.0100	"							
Nickel	ND	0.0100	"							
Selenium	ND	0.000100	"							
Silver	ND	0.000100	"							
Zinc	ND	0.100	"							

LCS (B3H1635-BS1)

Prepared: 08/16/2023 Analyzed: 08/18/2023

Arsenic	0.0528	0.000100	mg/kg	0.0500		106	80-120			
Barium	4.93	0.0100	"	5.00		98.5	80-120			
Cadmium	0.0511	0.000100	"	0.0500		102	80-120			
Copper	0.523	0.0100	"	0.500		105	80-120			
Lead	0.0488	0.0100	"	0.0500		97.5	80-120			
Nickel	0.0488	0.0100	"	0.0500		97.7	80-120			
Selenium	0.0489	0.000100	"	0.0500		97.8	80-120			
Silver	0.0509	0.000100	"	0.0500		102	80-120			
Zinc	0.484	0.100	"	0.500		96.9	80-120			

Matrix Spike (B3H1635-MS1)

Source: Y308383-10

Prepared: 08/16/2023 Analyzed: 08/18/2023

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B3H1635 - EPA 3050B

Matrix Spike (B3H1635-MS1)		Source: Y308383-10			Prepared: 08/16/2023 Analyzed: 08/18/2023					
Arsenic	10.7	0.0947	mg/kg	4.73	2.96	164	75-125			QM-07
Barium	546	9.47	"	473	75.7	99.3	75-125			
Cadmium	5.00	0.0947	"	4.73	0.0891	104	75-125			
Copper	58.9	9.47	"	47.3	8.59	106	75-125			
Lead	14.5	9.47	"	4.73	5.74	186	75-125			QM-07
Nickel	14.3	9.47	"	4.73	7.94	133	75-125			QM-07
Selenium	4.62	0.0947	"	4.73	0.110	95.3	75-125			
Silver	4.75	0.0947	"	4.73	0.0182	100	75-125			
Zinc	85.0	94.7	"	47.3	29.2	118	75-125			
Matrix Spike Dup (B3H1635-MSD1)		Source: Y308383-10			Prepared: 08/16/2023 Analyzed: 08/18/2023					
Arsenic	9.34	0.0923	mg/kg	4.61	2.96	138	75-125	13.6	20	QM-07
Barium	528	9.23	"	461	75.7	98.1	75-125	3.27	20	
Cadmium	4.90	0.0923	"	4.61	0.0891	104	75-125	1.82	20	
Copper	56.1	9.23	"	46.1	8.59	103	75-125	4.98	20	
Lead	13.3	9.23	"	4.61	5.74	164	75-125	8.97	20	QM-07
Nickel	13.7	9.23	"	4.61	7.94	125	75-125	3.86	20	
Selenium	4.49	0.0923	"	4.61	0.110	95.0	75-125	2.80	20	
Silver	4.64	0.0923	"	4.61	0.0182	100	75-125	2.24	20	
Zinc	84.8	92.3	"	46.1	29.2	121	75-125	0.272	20	

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Joel Mason
 Project Number: FEO.CO.0701
 Project: Surprise Damfino S6 Pad

EPA 8270E (SW846) - Semivolatile Organic Compounds - 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 B3H1724 - EPA 3580

Blank (B3H1724-BLK1)

Prepared: 08/17/2023 Analyzed: 08/17/2023

1-Methylnaphthalene	ND	0.002	mg/kg							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 (g,h,i) perylene	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
Phenanthrene	ND	0.020	"							U
Pyrene	ND	0.020	"							U
Surrogate: Fluorene-d10	200		ug/kg	200		98.3	60-130			
Surrogate: Anthracene-d10	200		"	200		98.9	60-130			
Surrogate: Benzo (a) pyrene-d12	210		"	200		105	60-130			
Surrogate: Pyrene-d10	250		"	200		126	60-130			

LCS (B3H1724-BS1)

Prepared: 08/17/2023 Analyzed: 08/17/2023

1-Methylnaphthalene	0.207	0.002	mg/kg	0.200		104	70-130			
2-Methylnaphthalene	0.203	0.002	"	0.200		101	70-130			
Acenaphthene	0.198	0.020	"	0.200		98.8	70-130			
Anthracene	0.190	0.020	"	0.200		95.2	70-130			

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Buffalo WY 82834

Joel Mason
Project Number: FEO.CO.0701
Project: Surprise Damfino S6 Pad

EPA 8270E (SW846) - Semivolatile Organic Compounds - 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 B3H1724 - EPA 3580

LCS (B3H1724-BS1)

Prepared: 08/17/2023 Analyzed: 08/17/2023

Benzo (a) anthracene	0.179	0.005	mg/kg	0.200		89.3	70-130			
Benzo (a) pyrene	0.186	0.020	"	0.200		92.8	70-130			
Benzo (b) fluoranthene	0.198	0.020	"	0.200		98.8	70-130			
Benzo (g,h,i) perylene	0.195	0.020	"	0.200		97.6	70-130			
Benzo (k) fluoranthene	0.199	0.020	"	0.200		99.5	70-130			
Chrysene	0.197	0.020	"	0.200		98.7	70-130			
Dibenz (a,h) anthracene	0.191	0.020	"	0.200		95.4	70-130			
Fluoranthene	0.198	0.020	"	0.200		98.9	70-130			
Fluorene	0.202	0.020	"	0.200		101	70-130			
Indeno (1,2,3-cd) pyrene	0.186	0.020	"	0.200		92.8	70-130			
Naphthalene	0.201	0.002	"	0.200		100	70-130			
Phenanthrene	0.193	0.020	"	0.200		96.3	70-130			
Pyrene	0.189	0.020	"	0.200		94.5	70-130			
Surrogate: Fluorene-d10	200		ug/kg	200		101	60-130			
Surrogate: Anthracene-d10	190		"	200		94.1	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		99.4	60-130			
Surrogate: Pyrene-d10	180		"	200		89.6	60-130			

Matrix Spike (B3H1724-MS1)

Source: Y308404-01

Prepared: 08/17/2023 Analyzed: 08/17/2023

1-Methylnaphthalene	0.199	0.002	mg/kg	0.200	ND	99.6	70-130			
2-Methylnaphthalene	0.197	0.002	"	0.200	ND	98.7	70-130			
Acenaphthene	0.196	0.020	"	0.200	ND	97.8	70-130			
Anthracene	0.186	0.020	"	0.200	ND	93.1	70-130			
Benzo (a) anthracene	0.188	0.005	"	0.200	0.001	93.2	70-130			
Benzo (a) pyrene	0.192	0.020	"	0.200	0.001	95.4	70-130			
Benzo (b) fluoranthene	0.196	0.020	"	0.200	ND	97.8	70-130			
Benzo (g,h,i) perylene	0.193	0.020	"	0.200	ND	96.7	70-130			

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Absaroka
 112 High St.
 Buffalo WY 82834

Joel Mason
 Project Number: FEO.CO.0701
 Project: Surprise Damfino S6 Pad

EPA 8270E (SW846) - Semivolatile Organic Compounds - 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 B3H1724 - EPA 3580

Matrix Spike (B3H1724-MS1)		Source: Y308404-01			Prepared: 08/17/2023 Analyzed: 08/17/2023					
Benzo (k) fluoranthene	0.210	0.020	mg/kg	0.200	ND	105	70-130			
Chrysene	0.193	0.020	"	0.200	0.0009	95.9	70-130			
Dibenz (a,h) anthracene	0.197	0.020	"	0.200	ND	98.4	70-130			
Fluoranthene	0.193	0.020	"	0.200	ND	96.4	70-130			
Fluorene	0.196	0.020	"	0.200	ND	98.2	70-130			
Indeno (1,2,3-cd) pyrene	0.184	0.020	"	0.200	ND	92.2	70-130			
Naphthalene	0.202	0.002	"	0.200	ND	101	70-130			
Phenanthrene	0.187	0.020	"	0.200	ND	93.3	70-130			
Pyrene	0.179	0.020	"	0.200	ND	89.4	70-130			
Surrogate: Fluorene-d10	200		ug/kg	200		99.3	60-130			
Surrogate: Anthracene-d10	190		"	200		94.7	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		101	60-130			
Surrogate: Pyrene-d10	170		"	200		86.2	60-130			

Matrix Spike Dup (B3H1724-MSD1)		Source: Y308404-01			Prepared: 08/17/2023 Analyzed: 08/17/2023					
1-Methylnaphthalene	0.201	0.002	mg/kg	0.200	ND	100	70-130	0.914	20	
2-Methylnaphthalene	0.198	0.002	"	0.200	ND	98.8	70-130	0.122	20	
Acenaphthene	0.202	0.020	"	0.200	ND	101	70-130	3.25	20	
Anthracene	0.178	0.020	"	0.200	ND	89.2	70-130	4.27	20	
Benzo (a) anthracene	0.190	0.005	"	0.200	0.001	94.1	70-130	1.01	20	
Benzo (a) pyrene	0.170	0.020	"	0.200	0.001	84.7	70-130	11.9	20	
Benzo (b) fluoranthene	0.199	0.020	"	0.200	ND	99.4	70-130	1.64	20	
Benzo (g,h,i) perylene	0.191	0.020	"	0.200	ND	95.6	70-130	1.15	20	
Benzo (k) fluoranthene	0.208	0.020	"	0.200	ND	104	70-130	0.937	20	
Chrysene	0.199	0.020	"	0.200	0.0009	98.9	70-130	3.05	20	
Dibenz (a,h) anthracene	0.184	0.020	"	0.200	ND	92.0	70-130	6.71	20	
Fluoranthene	0.177	0.020	"	0.200	ND	88.3	70-130	8.79	20	

Origins Laboratory, Inc.



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Absaroka
 112 High St.
 Buffalo WY 82834

Joel Mason
 Project Number: FEO.CO.0701
 Project: Surprise Damfino S6 Pad

EPA 8270E (SW846) - Semivolatile Organic Compounds - 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 B3H1724 - EPA 3580

Matrix Spike Dup (B3H1724-MSD1)	Source: Y308404-01			Prepared: 08/17/2023 Analyzed: 08/17/2023						
Fluorene	0.197	0.020	mg/kg	0.200	ND	98.7	70-130	0.480	20	
Indeno (1,2,3-cd) pyrene	0.189	0.020	"	0.200	ND	94.3	70-130	2.26	20	
Naphthalene	0.201	0.002	"	0.200	ND	101	70-130	0.209	20	
Phenanthrene	0.178	0.020	"	0.200	ND	89.1	70-130	4.55	20	
Pyrene	0.209	0.020	"	0.200	ND	104	70-130	15.5	20	
Surrogate: Fluorene-d10	200		ug/kg	200		100	60-130			
Surrogate: Anthracene-d10	190		"	200		96.5	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		101	60-130			
Surrogate: Pyrene-d10	200		"	200		102	60-130			

Origins Laboratory, Inc.



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Absaroka
 112 High St.
 Buffalo WY 82834

Joel Mason
 Project Number: FEO.CO.0701
 Project: Surprise Damfino S6 Pad

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 B3H2109 - Saturated Paste Metals

Blank (B3H2109-BLK1)

Prepared: 08/21/2023 Analyzed: 08/22/2023

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

Duplicate (B3H2109-DUP1)

Source: Y308407-09

Prepared: 08/21/2023 Analyzed: 08/22/2023

SAR	ND	0.0100	SAR		2.54				200	
Calcium PPM	46.0	10.0	mg/L		46.3			0.650	50	
Magnesium PPM	18.0	10.0	"		18.5			2.35	50	
Sodium PPM	81.0	10.0	"		80.7			0.359	50	

Batch B3H2114 - DTPA Sorbitol Preparation

Blank (B3H2114-BLK1)

Prepared: 08/21/2023 Analyzed: 08/22/2023

Boron	ND	0.100	mg/L							
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Duplicate (B3H2114-DUP1)

Source: Y308391-02

Prepared: 08/21/2023 Analyzed: 08/22/2023

Boron	2.25	0.0982	mg/L		2.22			1.38	50	
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Origins Laboratory, Inc.



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Absaroka
 112 High St.
 Buffalo WY 82834

Joel Mason
 Project Number: FEO.CO.0701
 Project: Surprise Damfino S6 Pad

Saturated Paste - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B3H2118 - Saturated Paste pH/EC										
Blank (B3H2118-BLK1)					Prepared: 08/21/2023 Analyzed: 08/22/2023					
Specific Conductance (EC)	ND	0.00500	mmhos/cm							
Duplicate (B3H2118-DUP1)					Source: Y308407-09 Prepared: 08/21/2023 Analyzed: 08/22/2023					
pH	8.14		pH Units		8.16		0.245		25	
Specific Conductance (EC)	0.783	0.00500	mmhos/cm		0.775		1.04		25	

Origins Laboratory, Inc.



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Absaroka
 112 High St.
 Buffalo WY 82834

Joel Mason
 Project Number: FEO.CO.0701
 Project: Surprise Damfino S6 Pad

Total Metals by 7196A - Quality Control
Waypoint Analytical, LLC.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch L699691 -										
DUP (L 95387-DUP)		Source: 95387			Prepared: Analyzed: 08/21/2023					
Chromium, Hexavalent	ND	0.514	mg/Kg		<0.514		-	0	20	
MS (L 95387-MS)		Source: 95387			Prepared: Analyzed: 08/21/2023					
Chromium, Hexavalent	32.8	2.59	mg/Kg	41.4	<1.26	79	75-125			
LCS (LCS)		Prepared: Analyzed: 08/21/2023								
Chromium, Hexavalent	7.47	0.5	mg/Kg	8		93	75-125			
LRB (LRB)		Prepared: Analyzed: 08/21/2023								
Chromium, Hexavalent	ND	0.5	mg/Kg				-			

Origins Laboratory, Inc.



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Absaroka
112 High St.
Buffalo WY 82834

Joel Mason
Project Number: FEO.CO.0701
Project: Surprise Damfino S6 Pad

Notes and Definitions

U Sample is Non-Detect.

S-GC Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogate.

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

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported on a wet weight basis.

Calculated results may use J-flag data (instead of reported "ND") as part of calculation to provide a more accurate result.

Origins Laboratory, Inc.



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September 08, 2023

Absaroka

Joel Mason

112 High St.

Buffalo

WY

82834

Project Name - FEO - Damfino Delineation

Project Number - FEO.CO.0701.33

Attached are your analytical results for FEO - Damfino Delineation received by Origins Laboratory, Inc. August 25, 2023. This project is associated with Origins project number Y308674-01.

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



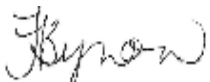
Absaroka
112 High St.
Buffalo WY 82834

Joel Mason
Project Number: FEO.CO.0701.33
Project: FEO - Damfino Delineation

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SD_WH4_S_@60	Y308674-01	Soil	August 23, 2023 13:00	08/25/2023 12:30

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Absaroka
112 High St.
Buffalo WY 82834

Joel Mason
Project Number: FEO.CO.0701.33
Project: FEO - Damfino Delineation

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page 1 of 1
430 8674

ORIGINS
LABORATORY, INC

Client: Absaroka Energy and Environmental Solutions
Address: 112 High St. Buffalo, WY 82834
Telephone Number: 303-262-8975
Email Address: Joel.Mason@originslab.com

Project Manager: Joel Mason
Project Name: FEO Damfino Delineation
Project Number: 0701.33
Samples Collected By: Joel Mason

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis	Sample Instructions	
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	Air			Summa #
SD_WH4_S_@60	8/23/2023	13:00	2	X				X				X	
Relinquished By: <i>[Signature]</i>	Date: 8/25/23	Time: 11:30	Received By: <i>[Signature]</i>	Date: 8/25/23	Time: 12:30	Turnaround Time: Same Day <input type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input type="checkbox"/> 72 Hr <input type="checkbox"/> Standard <input checked="" type="checkbox"/>							
Relinquished By:	Date:	Time:	Received By:	Date:	Time:								

1725 Elk Place | Denver, CO 80211 | Phone: 303.433.1322 | Fax: 303.265.9643

Origins Laboratory, Inc.
[Signature]

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Absaroka
 112 High St.
 Buffalo WY 82834

Joel Mason
 Project Number: FEO.CO.0701.33
 Project: FEO - Damfino Delineation

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: 4308674

Client: Absaroka

Client Project ID: FEO Damfino Delineation

Checklist Completed by: EHS

Shipped Via: HO

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

Date/time completed: 8/25/23

Airbill #: N/A

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

Cooler Number/Temperature: 119 °C / _____ °C / _____ °C (Describe)

Thermometer ID: TO 041

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"/>			
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 HNO ₃ , HCL, H ₂ SO ₄) / (pH >10 for samples preserved with NaAsO ₂ +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 (Project Manager) [Signature] Date/Time Reviewed 8/28/23

Origins Laboratory, Inc.

[Signature]

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Absaroka
 112 High St.
 Buffalo WY 82834

Joel Mason
 Project Number: FEO.CO.0701.33
 Project: FEO - Damfino Delineation

SD WH4 S @60
8/23/2023 1:00:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y308674-01 (Soil)

Boron (DTPA Sorbitol)

Boron	0.272		0.101	mg/L	1	B3H3011	08/30/2023	09/01/2023	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	27.2		25.0	mg/kg	1	B3H2830	08/28/2023	08/31/2023	
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: <i>o</i> -Terphenyl	81.2 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B3H2537	08/25/2023	08/26/2023	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	112 %		70-130			"	"	"	
Surrogate: Toluene-d8	95.1 %		70-130			"	"	"	

Origins Laboratory, Inc.



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Absaroka
 112 High St.
 Buffalo WY 82834

Joel Mason
 Project Number: FEO.CO.0701.33
 Project: FEO - Damfino Delineation

SD WH4 S @60
8/23/2023 1:00:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y308674-01 (Soil)

GBTEX+TMBs by 8260D

Surrogate: 4-Bromofluorobenzene 101 % 70-130 B3H25 37 08/25/2023 08/26/2023

Metals by Saturated Paste by EPA 6010

Calcium	2.11	0.499	meq/L	10	[CALC]	09/01/2023	09/05/2023
Magnesium	ND	0.823	"	"	"	"	"
Sodium	5.72	0.435	"	"	"	"	"

PAH by EPA 8270E

1-Methylnaphthalene	0.006	0.002	mg/kg	1	B3H2820	08/28/2023	08/30/2023
2-Methylnaphthalene	0.014	0.002	"	"	"	"	"
Acenaphthene	ND	0.020	"	"	"	"	U
Anthracene	ND	0.020	"	"	"	"	U
Benzo (a) anthracene	ND	0.005	"	"	"	"	U
Benzo (a) pyrene	0.025	0.020	"	"	"	"	"
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	0.020	0.020	"	"	"	"	"

Origins Laboratory, Inc.



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Absaroka
 112 High St.
 Buffalo WY 82834

Joel Mason
 Project Number: FEO.CO.0701.33
 Project: FEO - Damfino Delineation

SD WH4 S @60
8/23/2023 1:00:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y308674-01 (Soil)

PAH by EPA 8270E

Indeno (1,2,3-cd) pyrene	ND		0.020	mg/kg	1	B3H2820	08/28/2023	08/30/2023	U
Naphthalene	0.003		0.002	"	"	"	"	"	
Pyrene	ND		0.020	"	"	"	"	"	U

Surrogate: Fluorene-d10	98.5 %		60-130			"	"	"	
Surrogate: Anthracene-d10	93.0 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	95.7 %		60-130			"	"	"	
Surrogate: Pyrene-d10	76.9 %		60-130			"	"	"	

pH in Soil by 9045D

pH	7.74			pH Units	1	B3I0121	09/01/2023	09/02/2023	
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SAR by 20B Saturated Paste

SAR	4.94		0.0100	SAR	1	B3I0110	09/01/2023	09/05/2023	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.962		0.00500	mmhos/cm	1	B3I0121	09/01/2023	09/02/2023	
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Table 915 metals by EPA 6020B

Arsenic	2.00		0.0902	mg/kg	10	B3H2819	08/28/2023	08/29/2023	
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Origins Laboratory, Inc.



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Absaroka
 112 High St.
 Buffalo WY 82834

Joel Mason
 Project Number: FEO.CO.0701.33
 Project: FEO - Damfino Delineation

SD WH4 S @60
8/23/2023 1:00:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y308674-01 (Soil)

Table 915 metals by EPA 6020B

Barium	247		9.02	mg/kg	10	B3H2819	08/28/2023	08/29/2023	
Cadmium	0.185		0.0902	"	"	"	"	"	
Copper	21.3		9.02	"	"	"	"	"	
Lead	10.3		9.02	"	"	"	"	"	
Nickel	19.6		9.02	"	"	"	"	"	
Selenium	0.259		0.0902	"	"	"	"	08/30/2023	
Silver	ND		0.0902	"	"	"	"	08/29/2023	
Zinc	ND		90.2	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L701594	08/23/2023	08/30/2023	
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 Buffalo WY 82834

Joel Mason
 Project Number: FEO.CO.0701.33
 Project: FEO - Damfino Delineation

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 B3H2537 - EPA 5030 (soil)

Blank (B3H2537-BLK1)

Prepared: 08/25/2023 Analyzed: 08/25/2023

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							U
1,3,5-Trimethylbenzene	ND	0.00200	"							U
Benzene	ND	0.00200	"							U
Ethylbenzene	ND	0.00200	"							U
Naphthalene	ND	0.00380	"							U
Toluene	ND	0.00200	"							U
Xylenes, total	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125	106		70-130			
Surrogate: Toluene-d8	0.12		"	0.125	97.1		70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125	99.0		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 B3H2537 - EPA 5030 (soil)

LCS (B3H2537-BS1)

Prepared: 08/25/2023 Analyzed: 08/25/2023

1,2,4-Trimethylbenzene	0.101	0.00200	mg/kg	0.100		101	70-130			
1,3,5-Trimethylbenzene	0.101	0.00200	"	0.100		101	70-130			
Benzene	0.0891	0.00200	"	0.100		89.1	70-130			
Ethylbenzene	0.0930	0.00200	"	0.100		93.0	70-130			
Naphthalene	0.0947	0.00380	"	0.100		94.7	70-130			
Toluene	0.0886	0.00200	"	0.100		88.6	70-130			
o-Xylene	0.0993	0.00200	"	0.100		99.3	70-130			
m,p-Xylene	0.186	0.00400	"	0.200		92.9	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		109	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		99.2	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		98.4	70-130			

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 Project: FEO - Damfino Delineation

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 B3H2537 - EPA 5030 (soil)

Matrix Spike (B3H2537-MS1)	Source: Y308649-01			Prepared: 08/25/2023 Analyzed: 08/25/2023						
1,2,4-Trimethylbenzene	0.0925	0.00200	mg/kg	0.100	0.00534	87.2	70-130			
1,3,5-Trimethylbenzene	0.0959	0.00200	"	0.100	0.0150	80.9	70-130			
Benzene	0.0825	0.00200	"	0.100	ND	82.5	70-130			
Ethylbenzene	0.0931	0.00200	"	0.100	0.0206	72.5	70-130			
Naphthalene	0.140	0.00380	"	0.100	0.0721	68.0	70-130			QM-07
Toluene	0.0784	0.00200	"	0.100	ND	78.4	70-130			
o-Xylene	0.0805	0.00200	"	0.100	0.000480	80.1	70-130			
m,p-Xylene	0.166	0.00400	"	0.200	0.00230	82.0	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		108	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		94.6	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		102	70-130			

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 Project: FEO - Damfino Delineation

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 B3H2537 - EPA 5030 (soil)

Matrix Spike Dup (B3H2537-MSD1)	Source: Y308649-01			Prepared: 08/25/2023 Analyzed: 08/25/2023						
1,2,4-Trimethylbenzene	0.0915	0.00200	mg/kg	0.100	0.00534	86.1	70-130	1.13	20	
1,3,5-Trimethylbenzene	0.100	0.00200	"	0.100	0.0150	85.0	70-130	4.15	20	
Benzene	0.0826	0.00200	"	0.100	ND	82.6	70-130	0.0969	20	
Ethylbenzene	0.0949	0.00200	"	0.100	0.0206	74.4	70-130	1.96	20	
Naphthalene	0.162	0.00380	"	0.100	0.0721	89.7	70-130	14.4	20	
Toluene	0.0788	0.00200	"	0.100	ND	78.8	70-130	0.509	20	
o-Xylene	0.0800	0.00200	"	0.100	0.000480	79.5	70-130	0.648	20	
m,p-Xylene	0.162	0.00400	"	0.200	0.00230	79.7	70-130	2.79	20	
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		110	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		97.7	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		104	70-130			

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 Project: FEO - Damfino Delineation

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
Batch B3H2830 - EPA 3550B										
Blank (B3H2830-BLK1)										
					Prepared: 08/28/2023 Analyzed: 08/31/2023					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	23		"	24.9		90.7	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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Batch B3H2830 - EPA 3550B

LCS (B3H2830-BS1)

Prepared: 08/28/2023 Analyzed: 09/01/2023

Diesel (C10-C28)	707	50.0	mg/kg	1000		70.7	70-130			
Residual Range Organics (C28-C40)	963	200	"	1000		96.3	70-130			
Surrogate: o-Terphenyl	42		"	49.8		84.1	50-150			

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 Project: FEO - Damfino Delineation

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 B3H2830 - EPA 3550B

Matrix Spike (B3H2830-MS1)	Source: Y308673-01			Prepared: 08/28/2023 Analyzed: 09/01/2023						
Diesel (C10-C28)	815	50.0	mg/kg	1000	ND	81.5	70-130			
Residual Range Organics (C28-C40)	1150	200	"	1000	ND	115	70-130			
Surrogate: o-Terphenyl	52		"	49.8		105	50-150			

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 Project: FEO - Damfino Delineation

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 B3H2830 - EPA 3550B										
Matrix Spike Dup (B3H2830-MSD1)					Source: Y308673-01					Prepared: 08/28/2023 Analyzed: 08/31/2023
Diesel (C10-C28)	800	50.0	mg/kg	1000	ND	80.0	70-130	1.94	35	
Residual Range Organics (C28-C40)	1090	200	"	1000	ND	109	70-130	6.15	35	
Surrogate: o-Terphenyl	45		"	49.8		89.8	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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Metals by EPA 6000/7000 Series Methods - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B3H2819 - EPA 3050B

Blank (B3H2819-BLK1)

Prepared: 08/28/2023 Analyzed: 08/29/2023

Arsenic	ND	0.000100	mg/kg							
Barium	ND	0.0100	"							
Cadmium	ND	0.000100	"							
Copper	ND	0.0100	"							
Lead	ND	0.0100	"							
Nickel	ND	0.0100	"							
Selenium	ND	0.000100	"							
Silver	ND	0.000100	"							
Zinc	ND	0.100	"							

LCS (B3H2819-BS1)

Prepared: 08/28/2023 Analyzed: 08/29/2023

Arsenic	0.0527	0.000100	mg/kg	0.0500		105	80-120			
Barium	4.99	0.0100	"	5.00		99.8	80-120			
Cadmium	0.0511	0.000100	"	0.0500		102	80-120			
Copper	0.549	0.0100	"	0.500		110	80-120			
Lead	0.0526	0.0100	"	0.0500		105	80-120			
Nickel	0.0506	0.0100	"	0.0500		101	80-120			
Selenium	0.0554	0.000100	"	0.0500		111	80-120			
Silver	0.0501	0.000100	"	0.0500		100	80-120			
Zinc	0.506	0.100	"	0.500		101	80-120			

Matrix Spike (B3H2819-MS1)

Source: Y308636-02

Prepared: 08/28/2023 Analyzed: 08/29/2023

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 Project Number: FEO.CO.0701.33
 Project: FEO - Damfino Delineation

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B3H2819 - EPA 3050B

Matrix Spike (B3H2819-MS1)

Source: Y308636-02

Prepared: 08/28/2023 Analyzed: 08/29/2023

Arsenic	9.23	0.0957	mg/kg	4.79	4.18	106	75-125			
Barium	565	9.57	"	479	98.3	97.5	75-125			
Cadmium	4.96	0.0957	"	4.79	0.0992	102	75-125			
Copper	65.9	9.57	"	47.9	10.3	116	75-125			
Lead	12.4	9.57	"	4.79	7.42	105	75-125			
Nickel	12.8	9.57	"	4.79	8.46	90.6	75-125			
Selenium	4.92	0.0957	"	4.79	0.0702	101	75-125			
Silver	4.73	0.0957	"	4.79	ND	98.9	75-125			
Zinc	82.3	95.7	"	47.9	33.7	101	75-125			

Matrix Spike Dup (B3H2819-MSD1)

Source: Y308636-02

Prepared: 08/28/2023 Analyzed: 08/29/2023

Arsenic	8.73	0.0915	mg/kg	4.57	4.18	99.6	75-125	5.53	20	
Barium	545	9.15	"	457	98.3	97.6	75-125	3.61	20	
Cadmium	4.61	0.0915	"	4.57	0.0992	98.6	75-125	7.36	20	
Copper	55.8	9.15	"	45.7	10.3	99.4	75-125	16.7	20	
Lead	12.7	9.15	"	4.57	7.42	116	75-125	2.08	20	
Nickel	12.9	9.15	"	4.57	8.46	97.5	75-125	0.976	20	
Selenium	4.60	0.0915	"	4.57	0.0702	98.9	75-125	6.75	20	
Silver	4.45	0.0915	"	4.57	ND	97.3	75-125	6.16	20	
Zinc	78.5	91.5	"	45.7	33.7	97.8	75-125	4.74	20	

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Joel Mason
 Project Number: FEO.CO.0701.33
 Project: FEO - Damfino Delineation

EPA 8270E (SW846) - Semivolatile Organic Compounds - 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 B3H2820 - EPA 3580

Blank (B3H2820-BLK1)

Prepared: 08/28/2023 Analyzed: 08/28/2023

1-Methylnaphthalene	ND	0.002	mg/kg							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 (g,h,i) perylene	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
Phenanthrene	ND	0.020	"							U
Pyrene	ND	0.020	"							U
Surrogate: Fluorene-d10	190		ug/kg	200		96.5	60-130			
Surrogate: Anthracene-d10	200		"	200		99.3	60-130			
Surrogate: Benzo (a) pyrene-d12	190		"	200		93.3	60-130			
Surrogate: Pyrene-d10	220		"	200		109	60-130			

LCS (B3H2820-BS1)

Prepared: 08/28/2023 Analyzed: 08/28/2023

1-Methylnaphthalene	0.218	0.002	mg/kg	0.200		109	70-130			
2-Methylnaphthalene	0.200	0.002	"	0.200		100	70-130			
Acenaphthene	0.204	0.020	"	0.200		102	70-130			
Anthracene	0.200	0.020	"	0.200		99.9	70-130			

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 Project Number: FEO.CO.0701.33
 Project: FEO - Damfino Delineation

EPA 8270E (SW846) - Semivolatile Organic Compounds - 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 B3H2820 - EPA 3580

LCS (B3H2820-BS1)

Prepared: 08/28/2023 Analyzed: 08/28/2023

Benzo (a) anthracene	0.190	0.005	mg/kg	0.200		94.9	70-130			
Benzo (a) pyrene	0.181	0.020	"	0.200		90.4	70-130			
Benzo (b) fluoranthene	0.180	0.020	"	0.200		89.9	70-130			
Benzo (g,h,i) perylene	0.198	0.020	"	0.200		98.8	70-130			
Benzo (k) fluoranthene	0.209	0.020	"	0.200		105	70-130			
Chrysene	0.203	0.020	"	0.200		101	70-130			
Dibenz (a,h) anthracene	0.199	0.020	"	0.200		99.5	70-130			
Fluoranthene	0.186	0.020	"	0.200		92.9	70-130			
Fluorene	0.201	0.020	"	0.200		100	70-130			
Indeno (1,2,3-cd) pyrene	0.203	0.020	"	0.200		102	70-130			
Naphthalene	0.207	0.002	"	0.200		104	70-130			
Phenanthrene	0.191	0.020	"	0.200		95.5	70-130			
Pyrene	0.213	0.020	"	0.200		106	70-130			
Surrogate: Fluorene-d10	200		ug/kg	200		98.5	60-130			
Surrogate: Anthracene-d10	190		"	200		93.4	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		100	60-130			
Surrogate: Pyrene-d10	200		"	200		99.7	60-130			

Matrix Spike (B3H2820-MS1)

Source: Y308654-01

Prepared: 08/28/2023 Analyzed: 08/28/2023

1-Methylnaphthalene	0.224	0.002	mg/kg	0.200	ND	112	70-130			
2-Methylnaphthalene	0.206	0.002	"	0.200	ND	103	70-130			
Acenaphthene	0.204	0.020	"	0.200	0.004	100	70-130			
Anthracene	0.185	0.020	"	0.200	ND	92.3	70-130			
Benzo (a) anthracene	0.193	0.005	"	0.200	0.001	96.1	70-130			
Benzo (a) pyrene	0.175	0.020	"	0.200	ND	87.3	70-130			
Benzo (b) fluoranthene	0.178	0.020	"	0.200	ND	89.2	70-130			
Benzo (g,h,i) perylene	0.200	0.020	"	0.200	ND	100	70-130			

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 Buffalo WY 82834

Joel Mason
 Project Number: FEO.CO.0701.33
 Project: FEO - Damfino Delineation

EPA 8270E (SW846) - Semivolatile Organic Compounds - 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 B3H2820 - EPA 3580

Matrix Spike (B3H2820-MS1)		Source: Y308654-01			Prepared: 08/28/2023 Analyzed: 08/28/2023					
Benzo (k) fluoranthene	0.205	0.020	mg/kg	0.200	ND	103	70-130			
Chrysene	0.206	0.020	"	0.200	ND	103	70-130			
Dibenz (a,h) anthracene	0.189	0.020	"	0.200	ND	94.5	70-130			
Fluoranthene	0.163	0.020	"	0.200	ND	81.3	70-130			
Fluorene	0.196	0.020	"	0.200	ND	97.9	70-130			
Indeno (1,2,3-cd) pyrene	0.198	0.020	"	0.200	0.004	96.8	70-130			
Naphthalene	0.209	0.002	"	0.200	ND	104	70-130			
Phenanthrene	0.188	0.020	"	0.200	0.0003	94.0	70-130			
Pyrene	0.251	0.020	"	0.200	ND	125	70-130			
Surrogate: Fluorene-d10	190		ug/kg	200		95.8	60-130			
Surrogate: Anthracene-d10	190		"	200		95.7	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		102	60-130			
Surrogate: Pyrene-d10	240		"	200		121	60-130			

Matrix Spike Dup (B3H2820-MSD1)		Source: Y308654-01			Prepared: 08/28/2023 Analyzed: 08/28/2023					
1-Methylnaphthalene	0.224	0.002	mg/kg	0.200	ND	112	70-130	0.0562	20	
2-Methylnaphthalene	0.200	0.002	"	0.200	ND	100	70-130	2.94	20	
Acenaphthene	0.199	0.020	"	0.200	0.004	97.1	70-130	2.86	20	
Anthracene	0.169	0.020	"	0.200	ND	84.3	70-130	8.98	20	
Benzo (a) anthracene	0.189	0.005	"	0.200	0.001	93.7	70-130	2.51	20	
Benzo (a) pyrene	0.178	0.020	"	0.200	ND	88.9	70-130	1.81	20	
Benzo (b) fluoranthene	0.179	0.020	"	0.200	ND	89.6	70-130	0.473	20	
Benzo (g,h,i) perylene	0.209	0.020	"	0.200	ND	105	70-130	4.37	20	
Benzo (k) fluoranthene	0.238	0.020	"	0.200	ND	119	70-130	14.7	20	
Chrysene	0.200	0.020	"	0.200	ND	99.8	70-130	3.21	20	
Dibenz (a,h) anthracene	0.193	0.020	"	0.200	ND	96.3	70-130	1.97	20	
Fluoranthene	0.161	0.020	"	0.200	ND	80.3	70-130	1.22	20	

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Absaroka
 112 High St.
 Buffalo WY 82834

Joel Mason
 Project Number: FEO.CO.0701.33
 Project: FEO - Damfino Delineation

EPA 8270E (SW846) - Semivolatile Organic Compounds - 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 B3H2820 - EPA 3580

Matrix Spike Dup (B3H2820-MSD1)	Source: Y308654-01			Prepared: 08/28/2023 Analyzed: 08/28/2023						
Fluorene	0.191	0.020	mg/kg	0.200	ND	95.4	70-130	2.61	20	
Indeno (1,2,3-cd) pyrene	0.185	0.020	"	0.200	0.004	90.1	70-130	6.93	20	
Naphthalene	0.204	0.002	"	0.200	ND	102	70-130	2.47	20	
Phenanthrene	0.186	0.020	"	0.200	0.0003	92.7	70-130	1.44	20	
Pyrene	0.248	0.020	"	0.200	ND	124	70-130	0.977	20	
Surrogate: Fluorene-d10	190		ug/kg	200		96.0	60-130			
Surrogate: Anthracene-d10	200		"	200		97.7	60-130			
Surrogate: Benzo (a) pyrene-d12	210		"	200		103	60-130			
Surrogate: Pyrene-d10	230		"	200		117	60-130			

Origins Laboratory, Inc.



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Absaroka
 112 High St.
 Buffalo WY 82834

Joel Mason
 Project Number: FEO.CO.0701.33
 Project: FEO - Damfino Delineation

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 B3H3011 - DTPA Sorbitol Preparation

Blank (B3H3011-BLK1)

Prepared: 08/30/2023 Analyzed: 09/01/2023

Boron ND 0.100 mg/L

Duplicate (B3H3011-DUP1)

Source: Y308654-07

Prepared: 08/30/2023 Analyzed: 09/01/2023

Boron ND 0.0992 mg/L ND 50

Batch B3I0110 - Saturated Paste Metals

Blank (B3I0110-BLK1)

Prepared: 09/01/2023 Analyzed: 09/05/2023

Calcium PPM ND 10.0 mg/L

SAR ND 0.0100 SAR

Magnesium PPM ND 10.0 mg/L

Sodium PPM ND 10.0 "

Duplicate (B3I0110-DUP1)

Source: Y308673-01

Prepared: 09/01/2023 Analyzed: 09/05/2023

Calcium PPM 598 10.0 mg/L 542 9.66 50

SAR ND 0.0100 SAR 0.933 200

Magnesium PPM 110 10.0 mg/L 100 9.90 50

Sodium PPM 98.3 10.0 " 90.1 8.69 50

Origins Laboratory, Inc.



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Absaroka
 112 High St.
 Buffalo WY 82834

Joel Mason
 Project Number: FEO.CO.0701.33
 Project: FEO - Damfino Delineation

Saturated Paste - 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 B3I0121 - Saturated Paste pH/EC

Blank (B3I0121-BLK1)

Prepared: 09/01/2023 Analyzed: 09/02/2023

Specific Conductance (EC) ND 0.00500 mmhos/cm

Duplicate (B3I0121-DUP1)

Source: Y308673-01

Prepared: 09/01/2023 Analyzed: 09/02/2023

pH	7.28		pH Units		7.35		0.957	25		
Specific Conductance (EC)	4.84	0.00500	mmhos/cm		4.45		8.32	25		

Origins Laboratory, Inc.



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Absaroka
 112 High St.
 Buffalo WY 82834

Joel Mason
 Project Number: FEO.CO.0701.33
 Project: FEO - Damfino Delineation

Total Metals by 7196A - Quality Control
Waypoint Analytical, LLC.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch L701594 -										
DUP (L 97879-DUP)		Source: 97879			Prepared: Analyzed: 08/30/2023					
Chromium, Hexavalent	ND	0.5	mg/Kg		<0.500		-	0	20	
MS (L 97879-MS)		Source: 97879			Prepared: Analyzed: 08/30/2023					
Chromium, Hexavalent	13.7	2.5	mg/Kg	38.6	<1.22	35	75-125			*
LCS (LCS)		Prepared: Analyzed: 08/30/2023								
Chromium, Hexavalent	7.07	0.5	mg/Kg	8		88	75-125			
LRB (LRB)		Prepared: Analyzed: 08/30/2023								
Chromium, Hexavalent	ND	0.5	mg/Kg				-			

Origins Laboratory, Inc.



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Absaroka
112 High St.
Buffalo WY 82834

Joel Mason
Project Number: FEO.CO.0701.33
Project: FEO - Damfino Delineation

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.

* QC Failure

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported on a wet weight basis.

Calculated results may use J-flag data (instead of reported "ND") as part of calculation to provide a more accurate result.

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

September 07, 2023

Absaroka

Joel Mason

112 High St.

Buffalo WY 82834

Project Name - FEO - Damfino Delineation

Project Number - FEO.CO.0701.33

Attached are your analytical results for FEO - Damfino Delineation received by Origins Laboratory, Inc. August 25, 2023. This project is associated with Origins project number Y308673-01.

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



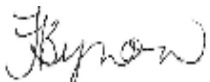
Absaroka
112 High St.
Buffalo WY 82834

Joel Mason
Project Number: FEO.CO.0701.33
Project: FEO - Damfino Delineation

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SD_WH5_SW_@60	Y308673-01	Soil	August 23, 2023 13:30	08/25/2023 12:30

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Absaroka
112 High St.
Buffalo WY 82834

Joel Mason
Project Number: FEO.CO.0701.33
Project: FEO - Damfino Delineation

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: 4308073

Client: Absaroka

Client Project ID: FEO Damfino Pelington

Checklist Completed by: EHS

Shipped Via: HO

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

Date/time completed: 8/25/23

Airbill #: N/A

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

Cooler Number/Temperature: 119 °C / _____ °C / _____ °C (Describe)

Thermometer ID: 7004

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C ⁽¹⁾ ?		/		
Is there ice present (document if blue ice is used)	X			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		X		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)		X		
Were all samples received intact ⁽¹⁾ ?	X			
Was adequate sample volume provided ⁽¹⁾ ?	X			
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?		X		
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	X			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	X			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	X			
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	X			
For volatiles in water – is there headspace (> ¼ inch bubble) present? if yes, contact client and note in narrative.			X	
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)			X	
Additional Comments (if any):				

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

Reviewed by (Project Manager) [Signature] Date/Time Reviewed 8/28/23

Origins Laboratory, Inc.

[Signature]

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Absaroka
 112 High St.
 Buffalo WY 82834

Joel Mason
 Project Number: FEO.CO.0701.33
 Project: FEO - Damfino Delineation

SD WH5 SW @60
8/23/2023 1:30:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y308673-01 (Soil)

Boron (DTPA Sorbitol)

Boron	ND		0.101	mg/L	1	B3H3011	08/30/2023	09/01/2023	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B3H2830	08/28/2023	08/31/2023	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: *o*-Terphenyl 84.0 % 50-150 " " "

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B3H2537	08/25/2023	08/26/2023	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 113 % 70-130 " " "

Origins Laboratory, Inc.



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Absaroka
 112 High St.
 Buffalo WY 82834

Joel Mason
 Project Number: FEO.CO.0701.33
 Project: FEO - Damfino Delineation

SD WH5 SW @60
8/23/2023 1:30:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y308673-01 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	96.1 %		70-130			B3H25 37	08/25/2023	08/26/2023	
Surrogate: 4-Bromofluorobenzene	100 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	27.1	0.499	meq/L	10	[CALC]		09/01/2023	09/05/2023	
Magnesium	8.23	0.823	"	"	"	"	"	"	
Sodium	3.92	0.435	"	"	"	"	"	"	

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B3H2820		08/28/2023	08/29/2023	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

Origins Laboratory, Inc.



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Absaroka
 112 High St.
 Buffalo WY 82834

Joel Mason
 Project Number: FEO.CO.0701.33
 Project: FEO - Damfino Delineation

SD WH5 SW @60
8/23/2023 1:30:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y308673-01 (Soil)

PAH by EPA 8270E

Fluorene	ND		0.020	mg/kg	1	B3H2820	08/28/2023	08/29/2023	U
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	U
Naphthalene	ND		0.002	"	"	"	"	"	U
Pyrene	ND		0.020	"	"	"	"	"	U

Surrogate: Fluorene-d10	97.1 %		60-130			"	"	"	
Surrogate: Anthracene-d10	102 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	88.4 %		60-130			"	"	"	
Surrogate: Pyrene-d10	113 %		60-130			"	"	"	

pH in Soil by 9045D

pH	7.35			pH Units	1	B3I0121	09/01/2023	09/02/2023	
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SAR by 20B Saturated Paste

SAR	0.933		0.0100	SAR	1	B3I0110	09/01/2023	09/05/2023	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	4.45		0.00500	mmhos/cm	1	B3I0121	09/01/2023	09/02/2023	
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Table 915 metals by EPA 6020B

Origins Laboratory, Inc.



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Absaroka
 112 High St.
 Buffalo WY 82834

Joel Mason
 Project Number: FEO.CO.0701.33
 Project: FEO - Damfino Delineation

SD WH5 SW @60
8/23/2023 1:30:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y308673-01 (Soil)

Table 915 metals by EPA 6020B

Arsenic	1.19		0.0974	mg/kg	10	B3H2819	08/28/2023	08/29/2023	
Barium	116		9.74	"	"	"	"	"	
Cadmium	ND		0.0974	"	"	"	"	"	
Copper	22.1		9.74	"	"	"	"	"	
Lead	10.2		9.74	"	"	"	"	"	
Nickel	24.1		9.74	"	"	"	"	"	
Selenium	0.331		0.0974	"	"	"	"	08/30/2023	
Silver	ND		0.0974	"	"	"	"	08/29/2023	
Zinc	ND		97.4	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.273	0.56	mg/Kg	1	L701594	08/23/2023	08/30/2023	
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Origins Laboratory, Inc.



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Absaroka
 112 High St.
 Buffalo WY 82834

Joel Mason
 Project Number: FEO.CO.0701.33
 Project: FEO - Damfino Delineation

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 B3H2537 - EPA 5030 (soil)

Blank (B3H2537-BLK1)

Prepared: 08/25/2023 Analyzed: 08/25/2023

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							U
1,3,5-Trimethylbenzene	ND	0.00200	"							U
Benzene	ND	0.00200	"							U
Ethylbenzene	ND	0.00200	"							U
Naphthalene	ND	0.00380	"							U
Toluene	ND	0.00200	"							U
Xylenes, total	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125	106		70-130			
Surrogate: Toluene-d8	0.12		"	0.125	97.1		70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125	99.0		70-130			

Origins Laboratory, Inc.



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Absaroka
 112 High St.
 Buffalo WY 82834

Joel Mason
 Project Number: FEO.CO.0701.33
 Project: FEO - Damfino Delineation

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 B3H2537 - EPA 5030 (soil)

LCS (B3H2537-BS1)

Prepared: 08/25/2023 Analyzed: 08/25/2023

1,2,4-Trimethylbenzene	0.101	0.00200	mg/kg	0.100		101	70-130			
1,3,5-Trimethylbenzene	0.101	0.00200	"	0.100		101	70-130			
Benzene	0.0891	0.00200	"	0.100		89.1	70-130			
Ethylbenzene	0.0930	0.00200	"	0.100		93.0	70-130			
Naphthalene	0.0947	0.00380	"	0.100		94.7	70-130			
Toluene	0.0886	0.00200	"	0.100		88.6	70-130			
o-Xylene	0.0993	0.00200	"	0.100		99.3	70-130			
m,p-Xylene	0.186	0.00400	"	0.200		92.9	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		109	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		99.2	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		98.4	70-130			

Origins Laboratory, Inc.



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Absaroka
 112 High St.
 Buffalo WY 82834

Joel Mason
 Project Number: FEO.CO.0701.33
 Project: FEO - Damfino Delineation

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 B3H2537 - EPA 5030 (soil)

Matrix Spike (B3H2537-MS1)	Source: Y308649-01			Prepared: 08/25/2023 Analyzed: 08/25/2023						
1,2,4-Trimethylbenzene	0.0925	0.00200	mg/kg	0.100	0.00534	87.2	70-130			
1,3,5-Trimethylbenzene	0.0959	0.00200	"	0.100	0.0150	80.9	70-130			
Benzene	0.0825	0.00200	"	0.100	ND	82.5	70-130			
Ethylbenzene	0.0931	0.00200	"	0.100	0.0206	72.5	70-130			
Naphthalene	0.140	0.00380	"	0.100	0.0721	68.0	70-130			QM-07
Toluene	0.0784	0.00200	"	0.100	ND	78.4	70-130			
o-Xylene	0.0805	0.00200	"	0.100	0.000480	80.1	70-130			
m,p-Xylene	0.166	0.00400	"	0.200	0.00230	82.0	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		108	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		94.6	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		102	70-130			

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 112 High St.
 Buffalo WY 82834

Joel Mason
 Project Number: FEO.CO.0701.33
 Project: FEO - Damfino Delineation

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 B3H2537 - EPA 5030 (soil)

Matrix Spike Dup (B3H2537-MSD1)	Source: Y308649-01			Prepared: 08/25/2023 Analyzed: 08/25/2023						
1,2,4-Trimethylbenzene	0.0915	0.00200	mg/kg	0.100	0.00534	86.1	70-130	1.13	20	
1,3,5-Trimethylbenzene	0.100	0.00200	"	0.100	0.0150	85.0	70-130	4.15	20	
Benzene	0.0826	0.00200	"	0.100	ND	82.6	70-130	0.0969	20	
Ethylbenzene	0.0949	0.00200	"	0.100	0.0206	74.4	70-130	1.96	20	
Naphthalene	0.162	0.00380	"	0.100	0.0721	89.7	70-130	14.4	20	
Toluene	0.0788	0.00200	"	0.100	ND	78.8	70-130	0.509	20	
o-Xylene	0.0800	0.00200	"	0.100	0.000480	79.5	70-130	0.648	20	
m,p-Xylene	0.162	0.00400	"	0.200	0.00230	79.7	70-130	2.79	20	
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		110	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		97.7	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		104	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
Batch B3H2830 - EPA 3550B										
Blank (B3H2830-BLK1)										
					Prepared: 08/28/2023 Analyzed: 08/31/2023					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	23		"	24.9		90.7	50-150			

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 Project: FEO - Damfino Delineation

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 B3H2830 - EPA 3550B

LCS (B3H2830-BS1)

Prepared: 08/28/2023 Analyzed: 09/01/2023

Diesel (C10-C28)	707	50.0	mg/kg	1000		70.7	70-130			
Residual Range Organics (C28-C40)	963	200	"	1000		96.3	70-130			
Surrogate: o-Terphenyl	42		"	49.8		84.1	50-150			

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Joel Mason
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 Project: FEO - Damfino Delineation

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 B3H2830 - EPA 3550B

Matrix Spike (B3H2830-MS1)	Source: Y308673-01			Prepared: 08/28/2023 Analyzed: 09/01/2023						
Diesel (C10-C28)	815	50.0	mg/kg	1000	ND	81.5	70-130			
Residual Range Organics (C28-C40)	1150	200	"	1000	ND	115	70-130			
Surrogate: o-Terphenyl	52		"	49.8		105	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
Batch B3H2830 - EPA 3550B										
Matrix Spike Dup (B3H2830-MSD1)		Source: Y308673-01			Prepared: 08/28/2023 Analyzed: 08/31/2023					
Diesel (C10-C28)	800	50.0	mg/kg	1000	ND	80.0	70-130	1.94	35	
Residual Range Organics (C28-C40)	1090	200	"	1000	ND	109	70-130	6.15	35	
Surrogate: o-Terphenyl	45		"	49.8		89.8	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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Metals by EPA 6000/7000 Series Methods - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B3H2819 - EPA 3050B

Blank (B3H2819-BLK1)

Prepared: 08/28/2023 Analyzed: 08/29/2023

Arsenic	ND	0.000100	mg/kg							
Barium	ND	0.0100	"							
Cadmium	ND	0.000100	"							
Copper	ND	0.0100	"							
Lead	ND	0.0100	"							
Nickel	ND	0.0100	"							
Selenium	ND	0.000100	"							
Silver	ND	0.000100	"							
Zinc	ND	0.100	"							

LCS (B3H2819-BS1)

Prepared: 08/28/2023 Analyzed: 08/29/2023

Arsenic	0.0527	0.000100	mg/kg	0.0500		105	80-120			
Barium	4.99	0.0100	"	5.00		99.8	80-120			
Cadmium	0.0511	0.000100	"	0.0500		102	80-120			
Copper	0.549	0.0100	"	0.500		110	80-120			
Lead	0.0526	0.0100	"	0.0500		105	80-120			
Nickel	0.0506	0.0100	"	0.0500		101	80-120			
Selenium	0.0554	0.000100	"	0.0500		111	80-120			
Silver	0.0501	0.000100	"	0.0500		100	80-120			
Zinc	0.506	0.100	"	0.500		101	80-120			

Matrix Spike (B3H2819-MS1)

Source: Y308636-02

Prepared: 08/28/2023 Analyzed: 08/29/2023

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 Project: FEO - Damfino Delineation

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B3H2819 - EPA 3050B

Matrix Spike (B3H2819-MS1)

Source: Y308636-02

Prepared: 08/28/2023 Analyzed: 08/29/2023

Arsenic	9.23	0.0957	mg/kg	4.79	4.18	106	75-125			
Barium	565	9.57	"	479	98.3	97.5	75-125			
Cadmium	4.96	0.0957	"	4.79	0.0992	102	75-125			
Copper	65.9	9.57	"	47.9	10.3	116	75-125			
Lead	12.4	9.57	"	4.79	7.42	105	75-125			
Nickel	12.8	9.57	"	4.79	8.46	90.6	75-125			
Selenium	4.92	0.0957	"	4.79	0.0702	101	75-125			
Silver	4.73	0.0957	"	4.79	ND	98.9	75-125			
Zinc	82.3	95.7	"	47.9	33.7	101	75-125			

Matrix Spike Dup (B3H2819-MSD1)

Source: Y308636-02

Prepared: 08/28/2023 Analyzed: 08/29/2023

Arsenic	8.73	0.0915	mg/kg	4.57	4.18	99.6	75-125	5.53	20	
Barium	545	9.15	"	457	98.3	97.6	75-125	3.61	20	
Cadmium	4.61	0.0915	"	4.57	0.0992	98.6	75-125	7.36	20	
Copper	55.8	9.15	"	45.7	10.3	99.4	75-125	16.7	20	
Lead	12.7	9.15	"	4.57	7.42	116	75-125	2.08	20	
Nickel	12.9	9.15	"	4.57	8.46	97.5	75-125	0.976	20	
Selenium	4.60	0.0915	"	4.57	0.0702	98.9	75-125	6.75	20	
Silver	4.45	0.0915	"	4.57	ND	97.3	75-125	6.16	20	
Zinc	78.5	91.5	"	45.7	33.7	97.8	75-125	4.74	20	

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 Project: FEO - Damfino Delineation

EPA 8270E (SW846) - Semivolatile Organic Compounds - 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 B3H2820 - EPA 3580

Blank (B3H2820-BLK1)

Prepared: 08/28/2023 Analyzed: 08/28/2023

1-Methylnaphthalene	ND	0.002	mg/kg							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 (g,h,i) perylene	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
Phenanthrene	ND	0.020	"							U
Pyrene	ND	0.020	"							U
Surrogate: Fluorene-d10	190		ug/kg	200		96.5	60-130			
Surrogate: Anthracene-d10	200		"	200		99.3	60-130			
Surrogate: Benzo (a) pyrene-d12	190		"	200		93.3	60-130			
Surrogate: Pyrene-d10	220		"	200		109	60-130			

LCS (B3H2820-BS1)

Prepared: 08/28/2023 Analyzed: 08/28/2023

1-Methylnaphthalene	0.218	0.002	mg/kg	0.200		109	70-130			
2-Methylnaphthalene	0.200	0.002	"	0.200		100	70-130			
Acenaphthene	0.204	0.020	"	0.200		102	70-130			
Anthracene	0.200	0.020	"	0.200		99.9	70-130			

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 Project: FEO - Damfino Delineation

EPA 8270E (SW846) - Semivolatile Organic Compounds - 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 B3H2820 - EPA 3580

LCS (B3H2820-BS1)

Prepared: 08/28/2023 Analyzed: 08/28/2023

Benzo (a) anthracene	0.190	0.005	mg/kg	0.200		94.9	70-130			
Benzo (a) pyrene	0.181	0.020	"	0.200		90.4	70-130			
Benzo (b) fluoranthene	0.180	0.020	"	0.200		89.9	70-130			
Benzo (g,h,i) perylene	0.198	0.020	"	0.200		98.8	70-130			
Benzo (k) fluoranthene	0.209	0.020	"	0.200		105	70-130			
Chrysene	0.203	0.020	"	0.200		101	70-130			
Dibenz (a,h) anthracene	0.199	0.020	"	0.200		99.5	70-130			
Fluoranthene	0.186	0.020	"	0.200		92.9	70-130			
Fluorene	0.201	0.020	"	0.200		100	70-130			
Indeno (1,2,3-cd) pyrene	0.203	0.020	"	0.200		102	70-130			
Naphthalene	0.207	0.002	"	0.200		104	70-130			
Phenanthrene	0.191	0.020	"	0.200		95.5	70-130			
Pyrene	0.213	0.020	"	0.200		106	70-130			
Surrogate: Fluorene-d10	200		ug/kg	200		98.5	60-130			
Surrogate: Anthracene-d10	190		"	200		93.4	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		100	60-130			
Surrogate: Pyrene-d10	200		"	200		99.7	60-130			

Matrix Spike (B3H2820-MS1)

Source: Y308654-01

Prepared: 08/28/2023 Analyzed: 08/28/2023

1-Methylnaphthalene	0.224	0.002	mg/kg	0.200	ND	112	70-130			
2-Methylnaphthalene	0.206	0.002	"	0.200	ND	103	70-130			
Acenaphthene	0.204	0.020	"	0.200	0.004	100	70-130			
Anthracene	0.185	0.020	"	0.200	ND	92.3	70-130			
Benzo (a) anthracene	0.193	0.005	"	0.200	0.001	96.1	70-130			
Benzo (a) pyrene	0.175	0.020	"	0.200	ND	87.3	70-130			
Benzo (b) fluoranthene	0.178	0.020	"	0.200	ND	89.2	70-130			
Benzo (g,h,i) perylene	0.200	0.020	"	0.200	ND	100	70-130			

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 Project: FEO - Damfino Delineation

EPA 8270E (SW846) - Semivolatile Organic Compounds - 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 B3H2820 - EPA 3580

Matrix Spike (B3H2820-MS1)		Source: Y308654-01			Prepared: 08/28/2023 Analyzed: 08/28/2023					
Benzo (k) fluoranthene	0.205	0.020	mg/kg	0.200	ND	103	70-130			
Chrysene	0.206	0.020	"	0.200	ND	103	70-130			
Dibenz (a,h) anthracene	0.189	0.020	"	0.200	ND	94.5	70-130			
Fluoranthene	0.163	0.020	"	0.200	ND	81.3	70-130			
Fluorene	0.196	0.020	"	0.200	ND	97.9	70-130			
Indeno (1,2,3-cd) pyrene	0.198	0.020	"	0.200	0.004	96.8	70-130			
Naphthalene	0.209	0.002	"	0.200	ND	104	70-130			
Phenanthrene	0.188	0.020	"	0.200	0.0003	94.0	70-130			
Pyrene	0.251	0.020	"	0.200	ND	125	70-130			
Surrogate: Fluorene-d10	190		ug/kg	200		95.8	60-130			
Surrogate: Anthracene-d10	190		"	200		95.7	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		102	60-130			
Surrogate: Pyrene-d10	240		"	200		121	60-130			

Matrix Spike Dup (B3H2820-MSD1)		Source: Y308654-01			Prepared: 08/28/2023 Analyzed: 08/28/2023					
1-Methylnaphthalene	0.224	0.002	mg/kg	0.200	ND	112	70-130	0.0562	20	
2-Methylnaphthalene	0.200	0.002	"	0.200	ND	100	70-130	2.94	20	
Acenaphthene	0.199	0.020	"	0.200	0.004	97.1	70-130	2.86	20	
Anthracene	0.169	0.020	"	0.200	ND	84.3	70-130	8.98	20	
Benzo (a) anthracene	0.189	0.005	"	0.200	0.001	93.7	70-130	2.51	20	
Benzo (a) pyrene	0.178	0.020	"	0.200	ND	88.9	70-130	1.81	20	
Benzo (b) fluoranthene	0.179	0.020	"	0.200	ND	89.6	70-130	0.473	20	
Benzo (g,h,i) perylene	0.209	0.020	"	0.200	ND	105	70-130	4.37	20	
Benzo (k) fluoranthene	0.238	0.020	"	0.200	ND	119	70-130	14.7	20	
Chrysene	0.200	0.020	"	0.200	ND	99.8	70-130	3.21	20	
Dibenz (a,h) anthracene	0.193	0.020	"	0.200	ND	96.3	70-130	1.97	20	
Fluoranthene	0.161	0.020	"	0.200	ND	80.3	70-130	1.22	20	

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 Project: FEO - Damfino Delineation

EPA 8270E (SW846) - Semivolatile Organic Compounds - 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 B3H2820 - EPA 3580

Matrix Spike Dup (B3H2820-MSD1)	Source: Y308654-01			Prepared: 08/28/2023 Analyzed: 08/28/2023						
Fluorene	0.191	0.020	mg/kg	0.200	ND	95.4	70-130	2.61	20	
Indeno (1,2,3-cd) pyrene	0.185	0.020	"	0.200	0.004	90.1	70-130	6.93	20	
Naphthalene	0.204	0.002	"	0.200	ND	102	70-130	2.47	20	
Phenanthrene	0.186	0.020	"	0.200	0.0003	92.7	70-130	1.44	20	
Pyrene	0.248	0.020	"	0.200	ND	124	70-130	0.977	20	
Surrogate: Fluorene-d10	190		ug/kg	200		96.0	60-130			
Surrogate: Anthracene-d10	200		"	200		97.7	60-130			
Surrogate: Benzo (a) pyrene-d12	210		"	200		103	60-130			
Surrogate: Pyrene-d10	230		"	200		117	60-130			

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 Project: FEO - Damfino Delineation

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 B3H3011 - DTPA Sorbitol Preparation

Blank (B3H3011-BLK1)

Prepared: 08/30/2023 Analyzed: 09/01/2023

Boron ND 0.100 mg/L

Duplicate (B3H3011-DUP1)

Source: Y308654-07

Prepared: 08/30/2023 Analyzed: 09/01/2023

Boron ND 0.0992 mg/L ND 50

Batch B3I0110 - Saturated Paste Metals

Blank (B3I0110-BLK1)

Prepared: 09/01/2023 Analyzed: 09/05/2023

SAR ND 0.0100 SAR

Calcium PPM ND 10.0 mg/L

Magnesium PPM ND 10.0 "

Sodium PPM ND 10.0 "

Duplicate (B3I0110-DUP1)

Source: Y308673-01

Prepared: 09/01/2023 Analyzed: 09/05/2023

Calcium PPM 598 10.0 mg/L 542 9.66 50

SAR ND 0.0100 SAR 0.933 200

Magnesium PPM 110 10.0 mg/L 100 9.90 50

Sodium PPM 98.3 10.0 " 90.1 8.69 50

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 Buffalo WY 82834

Joel Mason
 Project Number: FEO.CO.0701.33
 Project: FEO - Damfino Delineation

Saturated Paste - 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 B3I0121 - Saturated Paste pH/EC

Blank (B3I0121-BLK1)

Prepared: 09/01/2023 Analyzed: 09/02/2023

Specific Conductance (EC) ND 0.00500 mmhos/cm

Duplicate (B3I0121-DUP1)

Source: Y308673-01

Prepared: 09/01/2023 Analyzed: 09/02/2023

pH	7.28		pH Units		7.35		0.957	25		
Specific Conductance (EC)	4.84	0.00500	mmhos/cm		4.45		8.32	25		

Origins Laboratory, Inc.



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Absaroka
 112 High St.
 Buffalo WY 82834

Joel Mason
 Project Number: FEO.CO.0701.33
 Project: FEO - Damfino Delineation

Total Metals by 7196A - Quality Control
Waypoint Analytical, LLC.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch L701594 -										
DUP (L 97879-DUP)		Source: 97879			Prepared: Analyzed: 08/30/2023					
Chromium, Hexavalent	ND	0.5	mg/Kg		<0.500		-	0	20	
MS (L 97879-MS)		Source: 97879			Prepared: Analyzed: 08/30/2023					
Chromium, Hexavalent	13.7	2.5	mg/Kg	38.6	<1.22	35	75-125			*
LCS (LCS)		Prepared: Analyzed: 08/30/2023								
Chromium, Hexavalent	7.07	0.5	mg/Kg	8		88	75-125			
LRB (LRB)		Prepared: Analyzed: 08/30/2023								
Chromium, Hexavalent	ND	0.5	mg/Kg				-			

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112 High St.
Buffalo WY 82834

Joel Mason
Project Number: FEO.CO.0701.33
Project: FEO - Damfino Delineation

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.

* QC Failure

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported on a wet weight basis.

Calculated results may use J-flag data (instead of reported "ND") as part of calculation to provide a more accurate result.

Origins Laboratory, Inc.



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September 07, 2023

Absaroka

Joel Mason

112 High St.

Buffalo

WY

82834

Project Name - FEO - Damfino Delineation

Project Number - FEO.CO.0701.33

Attached are your analytical results for FEO - Damfino Delineation received by Origins Laboratory, Inc. August 25, 2023. This project is associated with Origins project number Y308671-01.

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



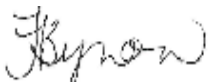
Absaroka
112 High St.
Buffalo WY 82834

Joel Mason
Project Number: FEO.CO.0701.33
Project: FEO - Damfino Delineation

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SD_11@36	Y308671-01	Soil	August 23, 2023 14:00	08/25/2023 12:30

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Absaroka
112 High St.
Buffalo WY 82834

Joel Mason
Project Number: FEO.CO.0701.33
Project: FEO - Damfino Delineation

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: 4308671

Client: Absaroka
Client Project ID: FEO Damfino Delineation

Checklist Completed by: EHS

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

Date/time completed: 8/25/23

Airbill #: N/A

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

Cooler Number/Temperature: 1 / 9 °c / _____ °c / _____ °c (Describe)

Thermometer ID: T004

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

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

Reviewed by (Project Manager) [Signature]

Date/Time Reviewed 8/25/23

Origins Laboratory, Inc.

[Signature]

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Absaroka
 112 High St.
 Buffalo WY 82834

Joel Mason
 Project Number: FEO.CO.0701.33
 Project: FEO - Damfino Delineation

SD 11@36
 8/23/2023 2:00:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 Y308671-01 (Soil)

Boron (DTPA Sorbitol)

Boron	0.180		0.100	mg/L	1	B3H3011	08/30/2023	09/01/2023	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B3H2801	08/28/2023	09/01/2023	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	89.3 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B3H2537	08/25/2023	08/26/2023	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	113 %		70-130			"	"	"	
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Origins Laboratory, Inc.



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Absaroka
112 High St.
Buffalo WY 82834

Joel Mason
Project Number: FEO.CO.0701.33
Project: FEO - Damfino Delineation

SD 11@36
8/23/2023 2:00:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y308671-01 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	94.7 %		70-130			B3H25 37	08/25/2023	08/26/2023	
Surrogate: 4-Bromofluorobenzene	100 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	5.14	0.499	meq/L	10	[CALC]		08/31/2023	09/01/2023	
Magnesium	1.92	0.823	"	"	"	"	"	"	
Sodium	3.08	0.435	"	"	"	"	"	"	

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B3H2820		08/28/2023	08/29/2023	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

Origins Laboratory, Inc.



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Absaroka
 112 High St.
 Buffalo WY 82834

Joel Mason
 Project Number: FEO.CO.0701.33
 Project: FEO - Damfino Delineation

SD 11@36
 8/23/2023 2:00:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 Y308671-01 (Soil)

PAH by EPA 8270E

Fluorene	ND		0.020	mg/kg	1	B3H2820	08/28/2023	08/29/2023	U
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	U
Naphthalene	ND		0.002	"	"	"	"	"	U
Pyrene	ND		0.020	"	"	"	"	"	U

Surrogate: Fluorene-d10	93.5 %		60-130			"	"	"	
Surrogate: Anthracene-d10	98.8 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	86.0 %		60-130			"	"	"	
Surrogate: Pyrene-d10	113 %		60-130			"	"	"	

pH in Soil by 9045D

pH	7.90			pH Units	1	B3H3112	08/31/2023	09/01/2023	
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SAR by 20B Saturated Paste

SAR	1.64		0.0100	SAR	1	B3H3109	08/31/2023	09/01/2023	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	1.14		0.00500	mmhos/cm	1	B3H3112	08/31/2023	09/01/2023	
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Table 915 metals by EPA 6020B

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Absaroka
 112 High St.
 Buffalo WY 82834

Joel Mason
 Project Number: FEO.CO.0701.33
 Project: FEO - Damfino Delineation

SD 11@36
8/23/2023 2:00:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y308671-01 (Soil)

Table 915 metals by EPA 6020B

Arsenic	1.33	0.0979	0.0979	mg/kg	10	B3H2819	08/28/2023	08/29/2023	
Barium	117	9.79	9.79	"	"	"	"	"	
Cadmium	0.0989	0.0979	0.0979	"	"	"	"	"	
Copper	19.9	9.79	9.79	"	"	"	"	"	
Lead	10.6	9.79	9.79	"	"	"	"	"	
Nickel	19.8	9.79	9.79	"	"	"	"	"	
Selenium	0.203	0.0979	0.0979	"	"	"	"	08/30/2023	
Silver	ND	0.0979	0.0979	"	"	"	"	08/29/2023	
Zinc	ND	97.9	97.9	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L701594	08/23/2023	08/30/2023	
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Absaroka
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 Buffalo WY 82834

Joel Mason
 Project Number: FEO.CO.0701.33
 Project: FEO - Damfino Delineation

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 B3H2537 - EPA 5030 (soil)

Blank (B3H2537-BLK1)

Prepared: 08/25/2023 Analyzed: 08/25/2023

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							U
1,3,5-Trimethylbenzene	ND	0.00200	"							U
Benzene	ND	0.00200	"							U
Ethylbenzene	ND	0.00200	"							U
Naphthalene	ND	0.00380	"							U
Toluene	ND	0.00200	"							U
Xylenes, total	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125	106		70-130			
Surrogate: Toluene-d8	0.12		"	0.125	97.1		70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125	99.0		70-130			

Origins Laboratory, Inc.



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 Buffalo WY 82834

Joel Mason
 Project Number: FEO.CO.0701.33
 Project: FEO - Damfino Delineation

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 B3H2537 - EPA 5030 (soil)

LCS (B3H2537-BS1)

Prepared: 08/25/2023 Analyzed: 08/25/2023

1,2,4-Trimethylbenzene	0.101	0.00200	mg/kg	0.100		101	70-130			
1,3,5-Trimethylbenzene	0.101	0.00200	"	0.100		101	70-130			
Benzene	0.0891	0.00200	"	0.100		89.1	70-130			
Ethylbenzene	0.0930	0.00200	"	0.100		93.0	70-130			
Naphthalene	0.0947	0.00380	"	0.100		94.7	70-130			
Toluene	0.0886	0.00200	"	0.100		88.6	70-130			
o-Xylene	0.0993	0.00200	"	0.100		99.3	70-130			
m,p-Xylene	0.186	0.00400	"	0.200		92.9	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		109	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		99.2	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		98.4	70-130			

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Absaroka
 112 High St.
 Buffalo WY 82834

Joel Mason
 Project Number: FEO.CO.0701.33
 Project: FEO - Damfino Delineation

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 B3H2537 - EPA 5030 (soil)

Matrix Spike (B3H2537-MS1)	Source: Y308649-01			Prepared: 08/25/2023 Analyzed: 08/25/2023						
1,2,4-Trimethylbenzene	0.0925	0.00200	mg/kg	0.100	0.00534	87.2	70-130			
1,3,5-Trimethylbenzene	0.0959	0.00200	"	0.100	0.0150	80.9	70-130			
Benzene	0.0825	0.00200	"	0.100	ND	82.5	70-130			
Ethylbenzene	0.0931	0.00200	"	0.100	0.0206	72.5	70-130			
Naphthalene	0.140	0.00380	"	0.100	0.0721	68.0	70-130			QM-07
Toluene	0.0784	0.00200	"	0.100	ND	78.4	70-130			
o-Xylene	0.0805	0.00200	"	0.100	0.000480	80.1	70-130			
m,p-Xylene	0.166	0.00400	"	0.200	0.00230	82.0	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		108	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		94.6	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		102	70-130			

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Absaroka
 112 High St.
 Buffalo WY 82834

Joel Mason
 Project Number: FEO.CO.0701.33
 Project: FEO - Damfino Delineation

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 B3H2537 - EPA 5030 (soil)

Matrix Spike Dup (B3H2537-MSD1)	Source: Y308649-01			Prepared: 08/25/2023 Analyzed: 08/25/2023						
1,2,4-Trimethylbenzene	0.0915	0.00200	mg/kg	0.100	0.00534	86.1	70-130	1.13	20	
1,3,5-Trimethylbenzene	0.100	0.00200	"	0.100	0.0150	85.0	70-130	4.15	20	
Benzene	0.0826	0.00200	"	0.100	ND	82.6	70-130	0.0969	20	
Ethylbenzene	0.0949	0.00200	"	0.100	0.0206	74.4	70-130	1.96	20	
Naphthalene	0.162	0.00380	"	0.100	0.0721	89.7	70-130	14.4	20	
Toluene	0.0788	0.00200	"	0.100	ND	78.8	70-130	0.509	20	
o-Xylene	0.0800	0.00200	"	0.100	0.000480	79.5	70-130	0.648	20	
m,p-Xylene	0.162	0.00400	"	0.200	0.00230	79.7	70-130	2.79	20	
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		110	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		97.7	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		104	70-130			

Origins Laboratory, Inc.



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Absaroka
 112 High St.
 Buffalo WY 82834

Joel Mason
 Project Number: FEO.CO.0701.33
 Project: FEO - Damfino Delineation

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
Batch B3H2801 - EPA 3550B										
Blank (B3H2801-BLK1)										
					Prepared: 08/28/2023 Analyzed: 09/01/2023					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	24		"	24.9		96.2	50-150			

Origins Laboratory, Inc.



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Absaroka
 112 High St.
 Buffalo WY 82834

Joel Mason
 Project Number: FEO.CO.0701.33
 Project: FEO - Damfino Delineation

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 B3H2801 - EPA 3550B

LCS (B3H2801-BS1)

Prepared: 08/28/2023 Analyzed: 09/01/2023

Diesel (C10-C28)	963	50.0	mg/kg	1000		96.3	70-130			
Residual Range Organics (C28-C40)	946	200	"	1000		94.6	70-130			
Surrogate: o-Terphenyl	47		"	49.8		93.9	50-150			

Origins Laboratory, Inc.



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Absaroka
 112 High St.
 Buffalo WY 82834

Joel Mason
 Project Number: FEO.CO.0701.33
 Project: FEO - Damfino Delineation

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 B3H2801 - EPA 3550B

Matrix Spike (B3H2801-MS1)	Source: Y308650-01			Prepared: 08/28/2023 Analyzed: 09/01/2023						
Diesel (C10-C28)	968	50.0	mg/kg	1000	ND	96.8	70-130			
Residual Range Organics (C28-C40)	969	200	"	1000	ND	96.9	70-130			
Surrogate: o-Terphenyl	46		"	49.8		92.0	50-150			

Origins Laboratory, Inc.



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Absaroka
 112 High St.
 Buffalo WY 82834

Joel Mason
 Project Number: FEO.CO.0701.33
 Project: FEO - Damfino Delineation

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 B3H2801 - EPA 3550B

Matrix Spike Dup (B3H2801-MSD1)	Source: Y308650-01		Prepared: 08/28/2023 Analyzed: 09/01/2023							
Diesel (C10-C28)	1020	50.0	mg/kg	1000	ND	102	70-130	4.77	35	
Residual Range Organics (C28-C40)	995	200	"	1000	ND	99.5	70-130	2.69	35	
Surrogate: o-Terphenyl	54		"	49.8		109	50-150			

Origins Laboratory, Inc.



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Absaroka
 112 High St.
 Buffalo WY 82834

Joel Mason
 Project Number: FEO.CO.0701.33
 Project: FEO - Damfino Delineation

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B3H2819 - EPA 3050B

Blank (B3H2819-BLK1)

Prepared: 08/28/2023 Analyzed: 08/29/2023

Arsenic	ND	0.000100	mg/kg							
Barium	ND	0.0100	"							
Cadmium	ND	0.000100	"							
Copper	ND	0.0100	"							
Lead	ND	0.0100	"							
Nickel	ND	0.0100	"							
Selenium	ND	0.000100	"							
Silver	ND	0.000100	"							
Zinc	ND	0.100	"							

LCS (B3H2819-BS1)

Prepared: 08/28/2023 Analyzed: 08/29/2023

Arsenic	0.0527	0.000100	mg/kg	0.0500		105	80-120			
Barium	4.99	0.0100	"	5.00		99.8	80-120			
Cadmium	0.0511	0.000100	"	0.0500		102	80-120			
Copper	0.549	0.0100	"	0.500		110	80-120			
Lead	0.0526	0.0100	"	0.0500		105	80-120			
Nickel	0.0506	0.0100	"	0.0500		101	80-120			
Selenium	0.0554	0.000100	"	0.0500		111	80-120			
Silver	0.0501	0.000100	"	0.0500		100	80-120			
Zinc	0.506	0.100	"	0.500		101	80-120			

Matrix Spike (B3H2819-MS1)

Source: Y308636-02

Prepared: 08/28/2023 Analyzed: 08/29/2023

Origins Laboratory, Inc.



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Absaroka
 112 High St.
 Buffalo WY 82834

Joel Mason
 Project Number: FEO.CO.0701.33
 Project: FEO - Damfino Delineation

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B3H2819 - EPA 3050B

Matrix Spike (B3H2819-MS1)

Source: Y308636-02

Prepared: 08/28/2023 Analyzed: 08/29/2023

Arsenic	9.23	0.0957	mg/kg	4.79	4.18	106	75-125			
Barium	565	9.57	"	479	98.3	97.5	75-125			
Cadmium	4.96	0.0957	"	4.79	0.0992	102	75-125			
Copper	65.9	9.57	"	47.9	10.3	116	75-125			
Lead	12.4	9.57	"	4.79	7.42	105	75-125			
Nickel	12.8	9.57	"	4.79	8.46	90.6	75-125			
Selenium	4.92	0.0957	"	4.79	0.0702	101	75-125			
Silver	4.73	0.0957	"	4.79	ND	98.9	75-125			
Zinc	82.3	95.7	"	47.9	33.7	101	75-125			

Matrix Spike Dup (B3H2819-MSD1)

Source: Y308636-02

Prepared: 08/28/2023 Analyzed: 08/29/2023

Arsenic	8.73	0.0915	mg/kg	4.57	4.18	99.6	75-125	5.53	20	
Barium	545	9.15	"	457	98.3	97.6	75-125	3.61	20	
Cadmium	4.61	0.0915	"	4.57	0.0992	98.6	75-125	7.36	20	
Copper	55.8	9.15	"	45.7	10.3	99.4	75-125	16.7	20	
Lead	12.7	9.15	"	4.57	7.42	116	75-125	2.08	20	
Nickel	12.9	9.15	"	4.57	8.46	97.5	75-125	0.976	20	
Selenium	4.60	0.0915	"	4.57	0.0702	98.9	75-125	6.75	20	
Silver	4.45	0.0915	"	4.57	ND	97.3	75-125	6.16	20	
Zinc	78.5	91.5	"	45.7	33.7	97.8	75-125	4.74	20	

Origins Laboratory, Inc.



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Absaroka
 112 High St.
 Buffalo WY 82834

Joel Mason
 Project Number: FEO.CO.0701.33
 Project: FEO - Damfino Delineation

EPA 8270E (SW846) - Semivolatile Organic Compounds - 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 B3H2820 - EPA 3580

Blank (B3H2820-BLK1)

Prepared: 08/28/2023 Analyzed: 08/28/2023

1-Methylnaphthalene	ND	0.002	mg/kg							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 (g,h,i) perylene	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
Phenanthrene	ND	0.020	"							U
Pyrene	ND	0.020	"							U
Surrogate: Fluorene-d10	190		ug/kg	200		96.5	60-130			
Surrogate: Anthracene-d10	200		"	200		99.3	60-130			
Surrogate: Benzo (a) pyrene-d12	190		"	200		93.3	60-130			
Surrogate: Pyrene-d10	220		"	200		109	60-130			

LCS (B3H2820-BS1)

Prepared: 08/28/2023 Analyzed: 08/28/2023

1-Methylnaphthalene	0.218	0.002	mg/kg	0.200		109	70-130			
2-Methylnaphthalene	0.200	0.002	"	0.200		100	70-130			
Acenaphthene	0.204	0.020	"	0.200		102	70-130			
Anthracene	0.200	0.020	"	0.200		99.9	70-130			

Origins Laboratory, Inc.



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Absaroka
 112 High St.
 Buffalo WY 82834

Joel Mason
 Project Number: FEO.CO.0701.33
 Project: FEO - Damfino Delineation

EPA 8270E (SW846) - Semivolatile Organic Compounds - 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 B3H2820 - EPA 3580

LCS (B3H2820-BS1)

Prepared: 08/28/2023 Analyzed: 08/28/2023

Benzo (a) anthracene	0.190	0.005	mg/kg	0.200		94.9	70-130			
Benzo (a) pyrene	0.181	0.020	"	0.200		90.4	70-130			
Benzo (b) fluoranthene	0.180	0.020	"	0.200		89.9	70-130			
Benzo (g,h,i) perylene	0.198	0.020	"	0.200		98.8	70-130			
Benzo (k) fluoranthene	0.209	0.020	"	0.200		105	70-130			
Chrysene	0.203	0.020	"	0.200		101	70-130			
Dibenz (a,h) anthracene	0.199	0.020	"	0.200		99.5	70-130			
Fluoranthene	0.186	0.020	"	0.200		92.9	70-130			
Fluorene	0.201	0.020	"	0.200		100	70-130			
Indeno (1,2,3-cd) pyrene	0.203	0.020	"	0.200		102	70-130			
Naphthalene	0.207	0.002	"	0.200		104	70-130			
Phenanthrene	0.191	0.020	"	0.200		95.5	70-130			
Pyrene	0.213	0.020	"	0.200		106	70-130			
Surrogate: Fluorene-d10	200		ug/kg	200		98.5	60-130			
Surrogate: Anthracene-d10	190		"	200		93.4	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		100	60-130			
Surrogate: Pyrene-d10	200		"	200		99.7	60-130			

Matrix Spike (B3H2820-MS1)

Source: Y308654-01

Prepared: 08/28/2023 Analyzed: 08/28/2023

1-Methylnaphthalene	0.224	0.002	mg/kg	0.200	ND	112	70-130			
2-Methylnaphthalene	0.206	0.002	"	0.200	ND	103	70-130			
Acenaphthene	0.204	0.020	"	0.200	0.004	100	70-130			
Anthracene	0.185	0.020	"	0.200	ND	92.3	70-130			
Benzo (a) anthracene	0.193	0.005	"	0.200	0.001	96.1	70-130			
Benzo (a) pyrene	0.175	0.020	"	0.200	ND	87.3	70-130			
Benzo (b) fluoranthene	0.178	0.020	"	0.200	ND	89.2	70-130			
Benzo (g,h,i) perylene	0.200	0.020	"	0.200	ND	100	70-130			

Origins Laboratory, Inc.



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Absaroka
 112 High St.
 Buffalo WY 82834

Joel Mason
 Project Number: FEO.CO.0701.33
 Project: FEO - Damfino Delineation

EPA 8270E (SW846) - Semivolatile Organic Compounds - 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 B3H2820 - EPA 3580

Matrix Spike (B3H2820-MS1)		Source: Y308654-01			Prepared: 08/28/2023 Analyzed: 08/28/2023					
Benzo (k) fluoranthene	0.205	0.020	mg/kg	0.200	ND	103	70-130			
Chrysene	0.206	0.020	"	0.200	ND	103	70-130			
Dibenz (a,h) anthracene	0.189	0.020	"	0.200	ND	94.5	70-130			
Fluoranthene	0.163	0.020	"	0.200	ND	81.3	70-130			
Fluorene	0.196	0.020	"	0.200	ND	97.9	70-130			
Indeno (1,2,3-cd) pyrene	0.198	0.020	"	0.200	0.004	96.8	70-130			
Naphthalene	0.209	0.002	"	0.200	ND	104	70-130			
Phenanthrene	0.188	0.020	"	0.200	0.0003	94.0	70-130			
Pyrene	0.251	0.020	"	0.200	ND	125	70-130			
Surrogate: Fluorene-d10	190		ug/kg	200		95.8	60-130			
Surrogate: Anthracene-d10	190		"	200		95.7	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		102	60-130			
Surrogate: Pyrene-d10	240		"	200		121	60-130			

Matrix Spike Dup (B3H2820-MSD1)		Source: Y308654-01			Prepared: 08/28/2023 Analyzed: 08/28/2023					
1-Methylnaphthalene	0.224	0.002	mg/kg	0.200	ND	112	70-130	0.0562	20	
2-Methylnaphthalene	0.200	0.002	"	0.200	ND	100	70-130	2.94	20	
Acenaphthene	0.199	0.020	"	0.200	0.004	97.1	70-130	2.86	20	
Anthracene	0.169	0.020	"	0.200	ND	84.3	70-130	8.98	20	
Benzo (a) anthracene	0.189	0.005	"	0.200	0.001	93.7	70-130	2.51	20	
Benzo (a) pyrene	0.178	0.020	"	0.200	ND	88.9	70-130	1.81	20	
Benzo (b) fluoranthene	0.179	0.020	"	0.200	ND	89.6	70-130	0.473	20	
Benzo (g,h,i) perylene	0.209	0.020	"	0.200	ND	105	70-130	4.37	20	
Benzo (k) fluoranthene	0.238	0.020	"	0.200	ND	119	70-130	14.7	20	
Chrysene	0.200	0.020	"	0.200	ND	99.8	70-130	3.21	20	
Dibenz (a,h) anthracene	0.193	0.020	"	0.200	ND	96.3	70-130	1.97	20	
Fluoranthene	0.161	0.020	"	0.200	ND	80.3	70-130	1.22	20	

Origins Laboratory, Inc.



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Absaroka
 112 High St.
 Buffalo WY 82834

Joel Mason
 Project Number: FEO.CO.0701.33
 Project: FEO - Damfino Delineation

EPA 8270E (SW846) - Semivolatile Organic Compounds - 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 B3H2820 - EPA 3580

Matrix Spike Dup (B3H2820-MSD1)	Source: Y308654-01			Prepared: 08/28/2023 Analyzed: 08/28/2023						
Fluorene	0.191	0.020	mg/kg	0.200	ND	95.4	70-130	2.61	20	
Indeno (1,2,3-cd) pyrene	0.185	0.020	"	0.200	0.004	90.1	70-130	6.93	20	
Naphthalene	0.204	0.002	"	0.200	ND	102	70-130	2.47	20	
Phenanthrene	0.186	0.020	"	0.200	0.0003	92.7	70-130	1.44	20	
Pyrene	0.248	0.020	"	0.200	ND	124	70-130	0.977	20	
Surrogate: Fluorene-d10	190		ug/kg	200		96.0	60-130			
Surrogate: Anthracene-d10	200		"	200		97.7	60-130			
Surrogate: Benzo (a) pyrene-d12	210		"	200		103	60-130			
Surrogate: Pyrene-d10	230		"	200		117	60-130			

Origins Laboratory, Inc.



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Absaroka
 112 High St.
 Buffalo WY 82834

Joel Mason
 Project Number: FEO.CO.0701.33
 Project: FEO - Damfino Delineation

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 B3H3011 - DTPA Sorbitol Preparation

Blank (B3H3011-BLK1)

Prepared: 08/30/2023 Analyzed: 09/01/2023

Boron ND 0.100 mg/L

Duplicate (B3H3011-DUP1)

Source: Y308654-07

Prepared: 08/30/2023 Analyzed: 09/01/2023

Boron ND 0.0992 mg/L ND 50

Batch B3H3109 - Saturated Paste Metals

Blank (B3H3109-BLK1)

Prepared: 08/31/2023 Analyzed: 09/01/2023

Calcium PPM ND 10.0 mg/L

SAR ND 0.0100 SAR

Magnesium PPM ND 10.0 mg/L

Sodium PPM ND 10.0 "

Duplicate (B3H3109-DUP1)

Source: Y308670-01

Prepared: 08/31/2023 Analyzed: 09/01/2023

Calcium PPM 280 10.0 mg/L 280 0.161 50

SAR ND 0.0100 SAR 0.524 200

Magnesium PPM 62.2 10.0 mg/L 62.8 0.896 50

Sodium PPM 37.8 10.0 " 37.3 1.36 50

Origins Laboratory, Inc.



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 112 High St.
 Buffalo WY 82834

Joel Mason
 Project Number: FEO.CO.0701.33
 Project: FEO - Damfino Delineation

Saturated Paste - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B3H3112 - Saturated Paste pH/EC										
Blank (B3H3112-BLK1)					Prepared: 08/31/2023 Analyzed: 09/01/2023					
Specific Conductance (EC)	ND	0.00500	mmhos/cm							
Duplicate (B3H3112-DUP1)					Source: Y308670-01 Prepared: 08/31/2023 Analyzed: 09/01/2023					
pH	7.63		pH Units		7.74		1.43		25	
Specific Conductance (EC)	2.29	0.00500	mmhos/cm		2.31		0.683		25	

Origins Laboratory, Inc.



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Absaroka
 112 High St.
 Buffalo WY 82834

Joel Mason
 Project Number: FEO.CO.0701.33
 Project: FEO - Damfino Delineation

Total Metals by 7196A - Quality Control
Waypoint Analytical, LLC.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch L701594 -										
DUP (L 97879-DUP)		Source: 97879			Prepared: Analyzed: 08/30/2023					
Chromium, Hexavalent	ND	0.5	mg/Kg		<0.500		-	0	20	
MS (L 97879-MS)		Source: 97879			Prepared: Analyzed: 08/30/2023					
Chromium, Hexavalent	13.7	2.5	mg/Kg	38.6	<1.22	35	75-125			*
LCS (LCS)		Prepared: Analyzed: 08/30/2023								
Chromium, Hexavalent	7.07	0.5	mg/Kg	8		88	75-125			
LRB (LRB)		Prepared: Analyzed: 08/30/2023								
Chromium, Hexavalent	ND	0.5	mg/Kg				-			

Origins Laboratory, Inc.



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Absaroka
112 High St.
Buffalo WY 82834

Joel Mason
Project Number: FEO.CO.0701.33
Project: FEO - Damfino Delineation

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.

* QC Failure

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported on a wet weight basis.

Calculated results may use J-flag data (instead of reported "ND") as part of calculation to provide a more accurate result.

Origins Laboratory, Inc.



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September 07, 2023

Absaroka

Joel Mason

112 High St.

Buffalo WY 82834

Project Name - FEO - Damfino Delineation

Project Number - FEO.CO.0701.33

Attached are your analytical results for FEO - Damfino Delineation received by Origins Laboratory, Inc. August 25, 2023. This project is associated with Origins project number Y308670-01.

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



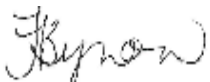
Absaroka
112 High St.
Buffalo WY 82834

Joel Mason
Project Number: FEO.CO.0701.33
Project: FEO - Damfino Delineation

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SD_12@60	Y308670-01	Soil	August 23, 2023 12:30	08/25/2023 12:30

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Absaroka
 112 High St.
 Buffalo WY 82834

Joel Mason
 Project Number: FEO.CO.0701.33
 Project: FEO - Damfino Delineation

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: 4308670

Client: Absaroka

Client Project ID: FEO Damfino Delineation

Checklist Completed by: ETH

Shipped Via: HO

Date/time completed: 8/25/23

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

Airbill #: N/A

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

Cooler Number/Temperature: 1/9 °C / _____ °C / _____ °C (Describe)

Thermometer ID: 7004

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C ⁽¹⁾ ?		X		
Is there ice present (document if blue ice is used)	X			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		X		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)		X		
Were all samples received intact ⁽¹⁾ ?	X			
Was adequate sample volume provided ⁽¹⁾ ?	X			
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?		X		
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	X			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	X			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	X			
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	X			
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.			X	
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)			X	
Additional Comments (if any):				

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

Reviewed by (Project Manager) [Signature]

Date/Time Reviewed 8/28/23

Origins Laboratory, Inc.

[Signature]

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Absaroka
 112 High St.
 Buffalo WY 82834

Joel Mason
 Project Number: FEO.CO.0701.33
 Project: FEO - Damfino Delineation

SD 12@60

8/23/2023 12:30:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 Y308670-01 (Soil)

Boron (DTPA Sorbitol)

Boron	ND		0.0994	mg/L	1	B3H3011	08/30/2023	09/01/2023	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B3H2801	08/28/2023	09/01/2023	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	87.2 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B3H2537	08/25/2023	08/26/2023	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	112 %		70-130			"	"	"	
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Absaroka
 112 High St.
 Buffalo WY 82834

Joel Mason
 Project Number: FEO.CO.0701.33
 Project: FEO - Damfino Delineation

SD 12@60

8/23/2023 12:30:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 Y308670-01 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	97.5 %		70-130			B3H25 37	08/25/2023	08/26/2023	
Surrogate: 4-Bromofluorobenzene	98.2 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	14.0		0.499	meq/L	10	[CALC]	08/31/2023	09/01/2023	
Magnesium	5.16		0.823	"	"	"	"	"	
Sodium	1.62		0.435	"	"	"	"	"	

PAH by EPA 8270E

1-Methylnaphthalene	ND		0.002	mg/kg	1	B3H2820	08/28/2023	08/29/2023	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

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Absaroka
 112 High St.
 Buffalo WY 82834

Joel Mason
 Project Number: FEO.CO.0701.33
 Project: FEO - Damfino Delineation

SD 12@60
 8/23/2023 12:30:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 Y308670-01 (Soil)

PAH by EPA 8270E

Fluorene	ND		0.020	mg/kg	1	B3H2820	08/28/2023	08/29/2023	U
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	U
Naphthalene	ND		0.002	"	"	"	"	"	U
Pyrene	ND		0.020	"	"	"	"	"	U

Surrogate: Fluorene-d10	94.9 %		60-130			"	"	"	
Surrogate: Anthracene-d10	109 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	85.8 %		60-130			"	"	"	
Surrogate: Pyrene-d10	121 %		60-130			"	"	"	

pH in Soil by 9045D

pH	7.74			pH Units	1	B3H3112	08/31/2023	09/01/2023	
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SAR by 20B Saturated Paste

SAR	0.524		0.0100	SAR	1	B3H3109	08/31/2023	09/01/2023	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	2.31		0.00500	mmhos/cm	1	B3H3112	08/31/2023	09/01/2023	
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Table 915 metals by EPA 6020B

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 112 High St.
 Buffalo WY 82834

Joel Mason
 Project Number: FEO.CO.0701.33
 Project: FEO - Damfino Delineation

SD 12@60

8/23/2023 12:30:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 Y308670-01 (Soil)

Table 915 metals by EPA 6020B

Arsenic	1.52	0.0970	0.0970	mg/kg	10	B3H2819	08/28/2023	08/29/2023	
Barium	151	9.70	9.70	"	"	"	"	"	
Cadmium	0.129	0.0970	0.0970	"	"	"	"	"	
Copper	21.8	9.70	9.70	"	"	"	"	"	
Lead	10.4	9.70	9.70	"	"	"	"	"	
Nickel	23.7	9.70	9.70	"	"	"	"	"	
Selenium	0.238	0.0970	0.0970	"	"	"	"	08/30/2023	
Silver	ND	0.0970	0.0970	"	"	"	"	08/29/2023	
Zinc	ND	97.0	97.0	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.488	1	mg/Kg	2	L701589	08/23/2023	08/30/2023	
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Absaroka
 112 High St.
 Buffalo WY 82834

Joel Mason
 Project Number: FEO.CO.0701.33
 Project: FEO - Damfino Delineation

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 B3H2537 - EPA 5030 (soil)

Blank (B3H2537-BLK1)

Prepared: 08/25/2023 Analyzed: 08/25/2023

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							U
1,3,5-Trimethylbenzene	ND	0.00200	"							U
Benzene	ND	0.00200	"							U
Ethylbenzene	ND	0.00200	"							U
Naphthalene	ND	0.00380	"							U
Toluene	ND	0.00200	"							U
Xylenes, total	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125	106		70-130			
Surrogate: Toluene-d8	0.12		"	0.125	97.1		70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125	99.0		70-130			

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Joel Mason
 Project Number: FEO.CO.0701.33
 Project: FEO - Damfino Delineation

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 B3H2537 - EPA 5030 (soil)

LCS (B3H2537-BS1)

Prepared: 08/25/2023 Analyzed: 08/25/2023

1,2,4-Trimethylbenzene	0.101	0.00200	mg/kg	0.100		101	70-130			
1,3,5-Trimethylbenzene	0.101	0.00200	"	0.100		101	70-130			
Benzene	0.0891	0.00200	"	0.100		89.1	70-130			
Ethylbenzene	0.0930	0.00200	"	0.100		93.0	70-130			
Naphthalene	0.0947	0.00380	"	0.100		94.7	70-130			
Toluene	0.0886	0.00200	"	0.100		88.6	70-130			
o-Xylene	0.0993	0.00200	"	0.100		99.3	70-130			
m,p-Xylene	0.186	0.00400	"	0.200		92.9	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		109	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		99.2	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		98.4	70-130			

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Joel Mason
 Project Number: FEO.CO.0701.33
 Project: FEO - Damfino Delineation

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 B3H2537 - EPA 5030 (soil)

Matrix Spike (B3H2537-MS1)	Source: Y308649-01			Prepared: 08/25/2023 Analyzed: 08/25/2023						
1,2,4-Trimethylbenzene	0.0925	0.00200	mg/kg	0.100	0.00534	87.2	70-130			
1,3,5-Trimethylbenzene	0.0959	0.00200	"	0.100	0.0150	80.9	70-130			
Benzene	0.0825	0.00200	"	0.100	ND	82.5	70-130			
Ethylbenzene	0.0931	0.00200	"	0.100	0.0206	72.5	70-130			
Naphthalene	0.140	0.00380	"	0.100	0.0721	68.0	70-130			QM-07
Toluene	0.0784	0.00200	"	0.100	ND	78.4	70-130			
o-Xylene	0.0805	0.00200	"	0.100	0.000480	80.1	70-130			
m,p-Xylene	0.166	0.00400	"	0.200	0.00230	82.0	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		108	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		94.6	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		102	70-130			

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Absaroka
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Joel Mason
 Project Number: FEO.CO.0701.33
 Project: FEO - Damfino Delineation

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 B3H2537 - EPA 5030 (soil)

Matrix Spike Dup (B3H2537-MSD1)	Source: Y308649-01			Prepared: 08/25/2023 Analyzed: 08/25/2023						
1,2,4-Trimethylbenzene	0.0915	0.00200	mg/kg	0.100	0.00534	86.1	70-130	1.13	20	
1,3,5-Trimethylbenzene	0.100	0.00200	"	0.100	0.0150	85.0	70-130	4.15	20	
Benzene	0.0826	0.00200	"	0.100	ND	82.6	70-130	0.0969	20	
Ethylbenzene	0.0949	0.00200	"	0.100	0.0206	74.4	70-130	1.96	20	
Naphthalene	0.162	0.00380	"	0.100	0.0721	89.7	70-130	14.4	20	
Toluene	0.0788	0.00200	"	0.100	ND	78.8	70-130	0.509	20	
o-Xylene	0.0800	0.00200	"	0.100	0.000480	79.5	70-130	0.648	20	
m,p-Xylene	0.162	0.00400	"	0.200	0.00230	79.7	70-130	2.79	20	
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		110	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		97.7	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		104	70-130			

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Joel Mason
 Project Number: FEO.CO.0701.33
 Project: FEO - Damfino Delineation

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
Batch B3H2801 - EPA 3550B										
Blank (B3H2801-BLK1)										
					Prepared: 08/28/2023 Analyzed: 09/01/2023					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	24		"	24.9		96.2	50-150			

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Joel Mason
 Project Number: FEO.CO.0701.33
 Project: FEO - Damfino Delineation

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 B3H2801 - EPA 3550B

LCS (B3H2801-BS1)

Prepared: 08/28/2023 Analyzed: 09/01/2023

Diesel (C10-C28)	963	50.0	mg/kg	1000		96.3	70-130			
Residual Range Organics (C28-C40)	946	200	"	1000		94.6	70-130			
Surrogate: o-Terphenyl	47		"	49.8		93.9	50-150			

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Absaroka
 112 High St.
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Joel Mason
 Project Number: FEO.CO.0701.33
 Project: FEO - Damfino Delineation

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 B3H2801 - EPA 3550B

Matrix Spike (B3H2801-MS1)	Source: Y308650-01			Prepared: 08/28/2023 Analyzed: 09/01/2023						
Diesel (C10-C28)	968	50.0	mg/kg	1000	ND	96.8	70-130			
Residual Range Organics (C28-C40)	969	200	"	1000	ND	96.9	70-130			
Surrogate: o-Terphenyl	46		"	49.8		92.0	50-150			

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Absaroka
 112 High St.
 Buffalo WY 82834

Joel Mason
 Project Number: FEO.CO.0701.33
 Project: FEO - Damfino Delineation

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 B3H2801 - EPA 3550B

Matrix Spike Dup (B3H2801-MSD1)	Source: Y308650-01			Prepared: 08/28/2023 Analyzed: 09/01/2023						
Diesel (C10-C28)	1020	50.0	mg/kg	1000	ND	102	70-130	4.77	35	
Residual Range Organics (C28-C40)	995	200	"	1000	ND	99.5	70-130	2.69	35	
Surrogate: o-Terphenyl	54		"	49.8		109	50-150			

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 112 High St.
 Buffalo WY 82834

Joel Mason
 Project Number: FEO.CO.0701.33
 Project: FEO - Damfino Delineation

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B3H2819 - EPA 3050B

Blank (B3H2819-BLK1)

Prepared: 08/28/2023 Analyzed: 08/29/2023

Arsenic	ND	0.000100	mg/kg							
Barium	ND	0.0100	"							
Cadmium	ND	0.000100	"							
Copper	ND	0.0100	"							
Lead	ND	0.0100	"							
Nickel	ND	0.0100	"							
Selenium	ND	0.000100	"							
Silver	ND	0.000100	"							
Zinc	ND	0.100	"							

LCS (B3H2819-BS1)

Prepared: 08/28/2023 Analyzed: 08/29/2023

Arsenic	0.0527	0.000100	mg/kg	0.0500		105	80-120			
Barium	4.99	0.0100	"	5.00		99.8	80-120			
Cadmium	0.0511	0.000100	"	0.0500		102	80-120			
Copper	0.549	0.0100	"	0.500		110	80-120			
Lead	0.0526	0.0100	"	0.0500		105	80-120			
Nickel	0.0506	0.0100	"	0.0500		101	80-120			
Selenium	0.0554	0.000100	"	0.0500		111	80-120			
Silver	0.0501	0.000100	"	0.0500		100	80-120			
Zinc	0.506	0.100	"	0.500		101	80-120			

Matrix Spike (B3H2819-MS1)

Source: Y308636-02

Prepared: 08/28/2023 Analyzed: 08/29/2023

Origins Laboratory, Inc.



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 112 High St.
 Buffalo WY 82834

Joel Mason
 Project Number: FEO.CO.0701.33
 Project: FEO - Damfino Delineation

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B3H2819 - EPA 3050B

Matrix Spike (B3H2819-MS1)

Source: Y308636-02

Prepared: 08/28/2023 Analyzed: 08/29/2023

Arsenic	9.23	0.0957	mg/kg	4.79	4.18	106	75-125			
Barium	565	9.57	"	479	98.3	97.5	75-125			
Cadmium	4.96	0.0957	"	4.79	0.0992	102	75-125			
Copper	65.9	9.57	"	47.9	10.3	116	75-125			
Lead	12.4	9.57	"	4.79	7.42	105	75-125			
Nickel	12.8	9.57	"	4.79	8.46	90.6	75-125			
Selenium	4.92	0.0957	"	4.79	0.0702	101	75-125			
Silver	4.73	0.0957	"	4.79	ND	98.9	75-125			
Zinc	82.3	95.7	"	47.9	33.7	101	75-125			

Matrix Spike Dup (B3H2819-MSD1)

Source: Y308636-02

Prepared: 08/28/2023 Analyzed: 08/29/2023

Arsenic	8.73	0.0915	mg/kg	4.57	4.18	99.6	75-125	5.53	20	
Barium	545	9.15	"	457	98.3	97.6	75-125	3.61	20	
Cadmium	4.61	0.0915	"	4.57	0.0992	98.6	75-125	7.36	20	
Copper	55.8	9.15	"	45.7	10.3	99.4	75-125	16.7	20	
Lead	12.7	9.15	"	4.57	7.42	116	75-125	2.08	20	
Nickel	12.9	9.15	"	4.57	8.46	97.5	75-125	0.976	20	
Selenium	4.60	0.0915	"	4.57	0.0702	98.9	75-125	6.75	20	
Silver	4.45	0.0915	"	4.57	ND	97.3	75-125	6.16	20	
Zinc	78.5	91.5	"	45.7	33.7	97.8	75-125	4.74	20	

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Absaroka
 112 High St.
 Buffalo WY 82834

Joel Mason
 Project Number: FEO.CO.0701.33
 Project: FEO - Damfino Delineation

EPA 8270E (SW846) - Semivolatile Organic Compounds - 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 B3H2820 - EPA 3580

Blank (B3H2820-BLK1)

Prepared: 08/28/2023 Analyzed: 08/28/2023

1-Methylnaphthalene	ND	0.002	mg/kg							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 (g,h,i) perylene	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
Phenanthrene	ND	0.020	"							U
Pyrene	ND	0.020	"							U
Surrogate: Fluorene-d10	190		ug/kg	200		96.5	60-130			
Surrogate: Anthracene-d10	200		"	200		99.3	60-130			
Surrogate: Benzo (a) pyrene-d12	190		"	200		93.3	60-130			
Surrogate: Pyrene-d10	220		"	200		109	60-130			

LCS (B3H2820-BS1)

Prepared: 08/28/2023 Analyzed: 08/28/2023

1-Methylnaphthalene	0.218	0.002	mg/kg	0.200		109	70-130			
2-Methylnaphthalene	0.200	0.002	"	0.200		100	70-130			
Acenaphthene	0.204	0.020	"	0.200		102	70-130			
Anthracene	0.200	0.020	"	0.200		99.9	70-130			

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B3H2820 - EPA 3580

LCS (B3H2820-BS1)

Prepared: 08/28/2023 Analyzed: 08/28/2023

Benzo (a) anthracene	0.190	0.005	mg/kg	0.200		94.9	70-130			
Benzo (a) pyrene	0.181	0.020	"	0.200		90.4	70-130			
Benzo (b) fluoranthene	0.180	0.020	"	0.200		89.9	70-130			
Benzo (g,h,i) perylene	0.198	0.020	"	0.200		98.8	70-130			
Benzo (k) fluoranthene	0.209	0.020	"	0.200		105	70-130			
Chrysene	0.203	0.020	"	0.200		101	70-130			
Dibenz (a,h) anthracene	0.199	0.020	"	0.200		99.5	70-130			
Fluoranthene	0.186	0.020	"	0.200		92.9	70-130			
Fluorene	0.201	0.020	"	0.200		100	70-130			
Indeno (1,2,3-cd) pyrene	0.203	0.020	"	0.200		102	70-130			
Naphthalene	0.207	0.002	"	0.200		104	70-130			
Phenanthrene	0.191	0.020	"	0.200		95.5	70-130			
Pyrene	0.213	0.020	"	0.200		106	70-130			
Surrogate: Fluorene-d10	200		ug/kg	200		98.5	60-130			
Surrogate: Anthracene-d10	190		"	200		93.4	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		100	60-130			
Surrogate: Pyrene-d10	200		"	200		99.7	60-130			

Matrix Spike (B3H2820-MS1)

Source: Y308654-01

Prepared: 08/28/2023 Analyzed: 08/28/2023

1-Methylnaphthalene	0.224	0.002	mg/kg	0.200	ND	112	70-130			
2-Methylnaphthalene	0.206	0.002	"	0.200	ND	103	70-130			
Acenaphthene	0.204	0.020	"	0.200	0.004	100	70-130			
Anthracene	0.185	0.020	"	0.200	ND	92.3	70-130			
Benzo (a) anthracene	0.193	0.005	"	0.200	0.001	96.1	70-130			
Benzo (a) pyrene	0.175	0.020	"	0.200	ND	87.3	70-130			
Benzo (b) fluoranthene	0.178	0.020	"	0.200	ND	89.2	70-130			
Benzo (g,h,i) perylene	0.200	0.020	"	0.200	ND	100	70-130			

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EPA 8270E (SW846) - Semivolatile Organic Compounds - 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 B3H2820 - EPA 3580

Matrix Spike (B3H2820-MS1)		Source: Y308654-01			Prepared: 08/28/2023 Analyzed: 08/28/2023					
Benzo (k) fluoranthene	0.205	0.020	mg/kg	0.200	ND	103	70-130			
Chrysene	0.206	0.020	"	0.200	ND	103	70-130			
Dibenz (a,h) anthracene	0.189	0.020	"	0.200	ND	94.5	70-130			
Fluoranthene	0.163	0.020	"	0.200	ND	81.3	70-130			
Fluorene	0.196	0.020	"	0.200	ND	97.9	70-130			
Indeno (1,2,3-cd) pyrene	0.198	0.020	"	0.200	0.004	96.8	70-130			
Naphthalene	0.209	0.002	"	0.200	ND	104	70-130			
Phenanthrene	0.188	0.020	"	0.200	0.0003	94.0	70-130			
Pyrene	0.251	0.020	"	0.200	ND	125	70-130			
Surrogate: Fluorene-d10	190		ug/kg	200		95.8	60-130			
Surrogate: Anthracene-d10	190		"	200		95.7	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		102	60-130			
Surrogate: Pyrene-d10	240		"	200		121	60-130			

Matrix Spike Dup (B3H2820-MSD1)		Source: Y308654-01			Prepared: 08/28/2023 Analyzed: 08/28/2023					
1-Methylnaphthalene	0.224	0.002	mg/kg	0.200	ND	112	70-130	0.0562	20	
2-Methylnaphthalene	0.200	0.002	"	0.200	ND	100	70-130	2.94	20	
Acenaphthene	0.199	0.020	"	0.200	0.004	97.1	70-130	2.86	20	
Anthracene	0.169	0.020	"	0.200	ND	84.3	70-130	8.98	20	
Benzo (a) anthracene	0.189	0.005	"	0.200	0.001	93.7	70-130	2.51	20	
Benzo (a) pyrene	0.178	0.020	"	0.200	ND	88.9	70-130	1.81	20	
Benzo (b) fluoranthene	0.179	0.020	"	0.200	ND	89.6	70-130	0.473	20	
Benzo (g,h,i) perylene	0.209	0.020	"	0.200	ND	105	70-130	4.37	20	
Benzo (k) fluoranthene	0.238	0.020	"	0.200	ND	119	70-130	14.7	20	
Chrysene	0.200	0.020	"	0.200	ND	99.8	70-130	3.21	20	
Dibenz (a,h) anthracene	0.193	0.020	"	0.200	ND	96.3	70-130	1.97	20	
Fluoranthene	0.161	0.020	"	0.200	ND	80.3	70-130	1.22	20	

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EPA 8270E (SW846) - Semivolatile Organic Compounds - 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 B3H2820 - EPA 3580

Matrix Spike Dup (B3H2820-MSD1)	Source: Y308654-01			Prepared: 08/28/2023 Analyzed: 08/28/2023						
Fluorene	0.191	0.020	mg/kg	0.200	ND	95.4	70-130	2.61	20	
Indeno (1,2,3-cd) pyrene	0.185	0.020	"	0.200	0.004	90.1	70-130	6.93	20	
Naphthalene	0.204	0.002	"	0.200	ND	102	70-130	2.47	20	
Phenanthrene	0.186	0.020	"	0.200	0.0003	92.7	70-130	1.44	20	
Pyrene	0.248	0.020	"	0.200	ND	124	70-130	0.977	20	
Surrogate: Fluorene-d10	190		ug/kg	200		96.0	60-130			
Surrogate: Anthracene-d10	200		"	200		97.7	60-130			
Surrogate: Benzo (a) pyrene-d12	210		"	200		103	60-130			
Surrogate: Pyrene-d10	230		"	200		117	60-130			

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Joel Mason
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 Project: FEO - Damfino Delineation

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 B3H3011 - DTPA Sorbitol Preparation

Blank (B3H3011-BLK1)

Prepared: 08/30/2023 Analyzed: 09/01/2023

Boron ND 0.100 mg/L

Duplicate (B3H3011-DUP1)

Source: Y308654-07

Prepared: 08/30/2023 Analyzed: 09/01/2023

Boron ND 0.0992 mg/L ND 50

Batch B3H3109 - Saturated Paste Metals

Blank (B3H3109-BLK1)

Prepared: 08/31/2023 Analyzed: 09/01/2023

SAR ND 0.0100 SAR

Calcium PPM ND 10.0 mg/L

Magnesium PPM ND 10.0 "

Sodium PPM ND 10.0 "

Duplicate (B3H3109-DUP1)

Source: Y308670-01

Prepared: 08/31/2023 Analyzed: 09/01/2023

Calcium PPM 280 10.0 mg/L 280 0.161 50

SAR ND 0.0100 SAR 0.524 200

Magnesium PPM 62.2 10.0 mg/L 62.8 0.896 50

Sodium PPM 37.8 10.0 " 37.3 1.36 50

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 Buffalo WY 82834

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 Project Number: FEO.CO.0701.33
 Project: FEO - Damfino Delineation

Saturated Paste - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B3H3112 - Saturated Paste pH/EC										
Blank (B3H3112-BLK1)					Prepared: 08/31/2023 Analyzed: 09/01/2023					
Specific Conductance (EC)	ND	0.00500	mmhos/cm							
Duplicate (B3H3112-DUP1)					Source: Y308670-01 Prepared: 08/31/2023 Analyzed: 09/01/2023					
pH	7.63		pH Units		7.74		1.43		25	
Specific Conductance (EC)	2.29	0.00500	mmhos/cm		2.31		0.683		25	

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 Project: FEO - Damfino Delineation

Total Metals by 7196A - Quality Control
Waypoint Analytical, LLC.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch L701589 -										
DUP (L 98904-DUP)		Source: 98904			Prepared: Analyzed: 08/30/2023					
Chromium, Hexavalent	ND	0.5	mg/Kg		<0.500		-	0	20	
MS (L 98904-MS)		Source: 98904			Prepared: Analyzed: 08/30/2023					
Chromium, Hexavalent	32.3	2.5	mg/Kg	38.9	<1.22	83	75-125			
LCS (LCS)		Prepared: Analyzed: 08/30/2023								
Chromium, Hexavalent	7.07	0.5	mg/Kg	8		88	75-125			
LRB (LRB)		Prepared: Analyzed: 08/30/2023								
Chromium, Hexavalent	ND	0.5	mg/Kg				-			

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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 Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported on a wet weight basis.

Calculated results may use J-flag data (instead of reported "ND") as part of calculation to provide a more accurate result.

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