



Eagle Environmental Consulting, LLC

June 12, 2025

Dan Coloccia

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - Lomax 16-3/Logan 15-3A Facility Project Number - [none]

Attached are your analytical results for Lomax 16-3/Logan 15-3A Facility received by Origins Laboratory May 29, 2025. This project is associated with Origins project number E5E1028-01.

The analytical results in the following report were analyzed under the guidelines of EPA Methods. These methods are identified as follows; "SW" are defined in SW-846, "EPA" are defined in 40CFR part 136 and "SM" are defined in the most current revision of Standard Methods For the Examination of Water and Wastewater.

The analytical results apply specifically to the samples and analyses specified per the attached Chain of Custody. As such, this report shall not be reproduced except in full, without the written approval of Origin's laboratory.

Unless otherwise noted, the analytical results for all soil samples are reported on a wet weight basis. All analytical analyses were performed under NELAP guidelines unless noted by a data qualifier.

Any holding time exceedances, deviations from the method specifications or deviations from Origins Laboratory's Standard Operating Procedures are outlined in the case narrative.

Thank you for selecting Origins for your analytical needs. Please contact us with any questions concerning this report, or if we can help with anything at all.

Origins Laboratory
303.433.1322
projectmanager@originslab.com



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



Eagle Environmental Consulting, LLC
8000 W 44th Ave
Wheat Ridge CO 80033

Dan Coloccia
Project Number: [none]
Project: Lomax 16-3/Logan 15-3A Facility

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
AST-B01@3"	E5E1028-01	Soil	May 29, 2025 8:20	05/29/2025 13:51
PW-B01@5'	E5E1028-02	Soil	May 29, 2025 8:32	05/29/2025 13:51
PW-W01@2.5'	E5E1028-03	Soil	May 29, 2025 8:36	05/29/2025 13:51
SEP-B01@4'	E5E1028-04	Soil	May 29, 2025 11:40	05/29/2025 13:51
SEP-B02@4'	E5E1028-05	Soil	May 29, 2025 11:42	05/29/2025 13:51
AST-BG01@6"	E5E1028-06	Soil	May 29, 2025 9:30	05/29/2025 13:51
AST-BG02@6"	E5E1028-07	Soil	May 29, 2025 9:32	05/29/2025 13:51
AST-BG03@6"	E5E1028-08	Soil	May 29, 2025 9:34	05/29/2025 13:51
AST-BG04@6"	E5E1028-09	Soil	May 29, 2025 9:36	05/29/2025 13:51

Origins Laboratory

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ORIGINS LABORATORY

Eagle Environmental Consulting, LLC
 8000 W 44th Ave
 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: Lomax 16-3/Logan 15-3A Facility



ORIGINS WORK ORDER

ES2E10126

Page 1 of 1

Client: Eagle Environmental

Project Manager: D. Coloccia

Key: W=Water

Address: 8000 W 44th Ave

Project Name: Lomax 16-3/Logan 15-3A Facility

Key: GW=Groundwater

Telephone Number: 303-453-0479

Project Number: -

Key: SW=Surface Water

Email Address: d.coloccia@eagle-environmental.com

Collected By: RF, CW

Key: WW=Waste Water

Invoice/Billing Info: Initial (only)

Temp Received: -6.1

Key: L=Liquid

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

#	Sample ID	Date Sampled	Time Sampled	# of Containers	Matrix Preservative	Analysis						Comments
						Full Table 315-1	pH	SAR	Boron	EC	Metals	
1	AST-801@3"	5/29/15	8:20	3	UNP	X						
2	PA-801@5'		8:32	1								
3	PA-101@2.5'		8:36	1								
4	SEP-801@1'		8:36	1								
5	SEP-802@4'		8:36	1								
6	AST-801@6"		9:30	2			X	X	X	X		
7	AST-802@6"		9:32	1			X	X	X	X		
8	AST-803@6"		9:34	1			X	X	X	X		
9	AST-804@6"		9:36	1			X	X	X	X		
10	AST-805@6"											

Relinquished By: [Signature] Date: 5/19/15 Time: 13:40 Received By: JWA Date: 5/29/15 Time: 1351

Temp Received: -6.1 Received On Ice? Yes No

Turnaround Time: 48 Hr 72 Hr SAME DAY 24 Hr

Standard

Origins Laboratory

[Signature]

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Dan Coloccia
 Project Number: [none]
 Project: Lomax 16-3/Logan 15-3A Facility

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: ESE102E

Client: Eagle
 Client Project ID: Lomax 16-3/Logan

Checklist Completed by: SEM/RPF

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

Date/time completed: 05/21/25

Airbill #: _____

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

Cooler Number/Temperature: 1 / 10.1 °C _____ / _____ °C _____ / _____ °C _____ / _____ °C (Describe)

Thermometer ID: T-007

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C ⁽¹⁾ ?		X		SD
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.

[Signature]
 Reviewed by (Project Manager)

06.02.25
 Date/Time Reviewed

Origins Laboratory

[Signature]

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Eagle Environmental Consulting, LLC
 8000 W 44th Ave
 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: Lomax 16-3/Logan 15-3A Facility

AST-B01@3"

5/29/2025 8:20:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5E1028-01 (Soil)									
Origins Laboratory									
Boron (DTPA Sorbitol)									
Boron	ND		0.100	mg/L	1	B5E3002	05/30/2025	06/03/2025	
DRO/ORO by EPA 8015D									
Diesel (C10-C28)	ND		25.0	mg/kg	1	B5E3030	05/30/2025	05/31/2025	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U
Surrogate: o-Terphenyl	106 %				50-150	"	"	"	
GBTEX+TMBs by 8260D									
1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B5E3022	05/30/2025	05/31/2025	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	"	"	"	
Surrogate: Toluene-d8	97.8 %				70-130	"	"	"	
Surrogate: 4-Bromofluorobenzene	100 %				70-130	"	"	"	

Origins Laboratory

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Dan Coloccia
 Project Number: [none]
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AST-B01@3"
5/29/2025 8:20:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5E1028-01 (Soil)
Origins Laboratory

Metals by Saturated Paste by EPA 6010

Calcium	ND		0.499	meq/L	10	[CALC]	06/04/2025	06/05/2025	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	4.04		0.435	"	"	"	"	"	

PAH by EPA 8270E extracted via 3580A

1-Methylnaphthalene	ND		0.002	mg/kg	1	B5E3028	05/30/2025	05/31/2025	U
2-Methylnaphthalene	ND		0.002	"	"	"	"	"	U
Acenaphthene	ND		0.020	"	"	"	"	"	U
Anthracene	ND		0.020	"	"	"	"	"	U
Benzo (a) anthracene	ND		0.005	"	"	"	"	"	U
Benzo (a) pyrene	ND		0.020	"	"	"	"	"	U
Benzo (b) fluoranthene	ND		0.020	"	"	"	"	"	U
Benzo (k) fluoranthene	ND		0.020	"	"	"	"	"	U
Chrysene	ND		0.020	"	"	"	"	"	U
Dibenz (a,h) anthracene	ND		0.020	"	"	"	"	"	U
Fluoranthene	ND		0.020	"	"	"	"	"	U
Fluorene	ND		0.020	"	"	"	"	"	U
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	U
Naphthalene	ND		0.002	"	"	"	"	"	U

Origins Laboratory

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 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: Lomax 16-3/Logan 15-3A Facility

AST-B01@3"

5/29/2025 8:20:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**E5E1028-01 (Soil)
 Origins Laboratory**

PAH by EPA 8270E extracted via 3580A

Pyrene	ND		0.020	mg/kg	1	B5E3028	05/30/2025	05/31/2025	U
Surrogate: Fluorene-d10	101 %			60-130		"	"	"	
Surrogate: Anthracene-d10	97.1 %			60-130		"	"	"	
Surrogate: Pyrene-d10	106 %			60-130		"	"	"	
Surrogate: Benzo (a) pyrene-d12	97.9 %			60-130		"	"	"	

pH in Soil by 9045D

pH	9.76			pH Units	1	B5F0416	06/04/2025	06/05/2025	
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SAR by 20B Saturated Paste

SAR	10.7		0.0100	SAR	1	B5F0410	06/04/2025	06/05/2025	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.468		0.00500	mmhos/cm	1	B5F0416	06/04/2025	06/05/2025	
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Table 915 metals by EPA 6020B

Arsenic	11.3		0.286	mg/kg	10	B5F0244	06/02/2025	06/03/2025	
Barium	81.1		81.0	"	"	"	"	"	
Cadmium	ND		0.375	"	"	"	"	"	
Copper	ND		45.4	"	"	"	"	"	

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 Project Number: [none]
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AST-B01@3"

5/29/2025 8:20:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**E5E1028-01 (Soil)
 Origins Laboratory**

Table 915 metals by EPA 6020B

Lead	ND		13.8	mg/kg	10	B5F0244	06/02/2025	06/03/2025	
Nickel	ND		25.7	"	"	"	"	"	
Selenium	1.93		0.257	"	"	"	"	"	
Silver	ND		0.790	"	"	"	"	"	
Zinc	ND		365	"	"	"	"	"	

Waypoint Analytical, LLC.

Total Metals 7196A

Chromium, Hexavalent	ND	0.5	0.5	mg/Kg	1	A103343	05/29/2025	06/06/2025	
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Origins Laboratory

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Eagle Environmental Consulting, LLC
 8000 W 44th Ave
 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: Lomax 16-3/Logan 15-3A Facility

PW-B01@5'

5/29/2025 8:32:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5E1028-02 (Soil)									
Origins Laboratory									
Boron (DTPA Sorbitol)									
Boron	0.116		0.100	mg/L	1	B5E3002	05/30/2025	06/03/2025	
DRO/ORO by EPA 8015D									
Diesel (C10-C28)	ND		25.0	mg/kg	1	B5E3030	05/30/2025	05/31/2025	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U
Surrogate: o-Terphenyl	110 %								
GBTEX+TMBs by 8260D									
1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B5E3022	05/30/2025	05/31/2025	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 %								
Surrogate: Toluene-d8	102 %								
Surrogate: 4-Bromofluorobenzene	100 %								

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Eagle Environmental Consulting, LLC
 8000 W 44th Ave
 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: Lomax 16-3/Logan 15-3A Facility

PW-B01@5'

5/29/2025 8:32:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5E1028-02 (Soil)
Origins Laboratory

Metals by Saturated Paste by EPA 6010

Calcium	1.26		0.499	meq/L	10	[CALC]	06/04/2025	06/05/2025	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	ND		0.435	"	"	"	"	"	

PAH by EPA 8270E extracted via 3580A

1-Methylnaphthalene	ND		0.002	mg/kg	1	B5E3028	05/30/2025	05/31/2025	U
2-Methylnaphthalene	ND		0.002	"	"	"	"	"	U
Acenaphthene	ND		0.020	"	"	"	"	"	U
Anthracene	ND		0.020	"	"	"	"	"	U
Benzo (a) anthracene	ND		0.005	"	"	"	"	"	U
Benzo (a) pyrene	ND		0.020	"	"	"	"	"	U
Benzo (b) fluoranthene	ND		0.020	"	"	"	"	"	U
Benzo (k) fluoranthene	ND		0.020	"	"	"	"	"	U
Chrysene	ND		0.020	"	"	"	"	"	U
Dibenz (a,h) anthracene	ND		0.020	"	"	"	"	"	U
Fluoranthene	ND		0.020	"	"	"	"	"	U
Fluorene	ND		0.020	"	"	"	"	"	U
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	U
Naphthalene	ND		0.002	"	"	"	"	"	U

Origins Laboratory

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Eagle Environmental Consulting, LLC
 8000 W 44th Ave
 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: Lomax 16-3/Logan 15-3A Facility

PW-B01@5'

5/29/2025 8:32:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5E1028-02 (Soil)
Origins Laboratory

PAH by EPA 8270E extracted via 3580A

Pyrene	ND		0.020	mg/kg	1	B5E3028	05/30/2025	05/31/2025	U
Surrogate: Fluorene-d10	102 %			60-130		"	"	"	
Surrogate: Anthracene-d10	97.4 %			60-130		"	"	"	
Surrogate: Pyrene-d10	105 %			60-130		"	"	"	
Surrogate: Benzo (a) pyrene-d12	98.8 %			60-130		"	"	"	

pH in Soil by 9045D

pH	8.31			pH Units	1	B5F0416	06/04/2025	06/05/2025	
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SAR by 20B Saturated Paste

SAR	0.183		0.0100	SAR	1	B5F0410	06/04/2025	06/05/2025	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.228		0.00500	mmhos/cm	1	B5F0416	06/04/2025	06/05/2025	
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Table 915 metals by EPA 6020B

Arsenic	3.61		0.275	mg/kg	10	B5F0244	06/02/2025	06/03/2025	
Barium	106		77.7	"	"	"	"	"	
Cadmium	ND		0.360	"	"	"	"	"	
Copper	ND		43.6	"	"	"	"	"	

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Dan Coloccia
 Project Number: [none]
 Project: Lomax 16-3/Logan 15-3A Facility

PW-B01@5'

5/29/2025 8:32:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**E5E1028-02 (Soil)
 Origins Laboratory**

Table 915 metals by EPA 6020B

Lead	ND		13.3	mg/kg	10	B5F0244	06/02/2025	06/03/2025	
Nickel	ND		24.6	"	"	"	"	"	
Selenium	ND		0.246	"	"	"	"	"	
Silver	ND		0.758	"	"	"	"	"	
Zinc	ND		350	"	"	"	"	"	

Waypoint Analytical, LLC.

Total Metals 7196A

Chromium, Hexavalent	ND	0.5	0.5	mg/Kg	1	A103343	05/29/2025	06/06/2025	
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Eagle Environmental Consulting, LLC
 8000 W 44th Ave
 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: Lomax 16-3/Logan 15-3A Facility

PW-W01@2.5'

5/29/2025 8:36:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5E1028-03 (Soil)									
Origins Laboratory									
Boron (DTPA Sorbitol)									
Boron	0.156		0.100	mg/L	1	B5E3002	05/30/2025	06/03/2025	
DRO/ORO by EPA 8015D									
Diesel (C10-C28)	ND		25.0	mg/kg	1	B5E3030	05/30/2025	05/31/2025	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U
Surrogate: o-Terphenyl	107 %			50-150		"	"	"	
GBTEX+TMBs by 8260D									
1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B5E3022	05/30/2025	06/01/2025	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	107 %			70-130		"	"	"	
Surrogate: Toluene-d8	96.4 %			70-130		"	"	"	
Surrogate: 4-Bromofluorobenzene	107 %			70-130		"	"	"	

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Eagle Environmental Consulting, LLC
 8000 W 44th Ave
 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: Lomax 16-3/Logan 15-3A Facility

PW-W01@2.5'

5/29/2025 8:36:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5E1028-03 (Soil)
Origins Laboratory

Metals by Saturated Paste by EPA 6010

Calcium	1.20		0.499	meq/L	10	[CALC]	06/04/2025	06/05/2025	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	ND		0.435	"	"	"	"	"	

PAH by EPA 8270E extracted via 3580A

1-Methylnaphthalene	ND		0.002	mg/kg	1	B5E3028	05/30/2025	05/31/2025	U
2-Methylnaphthalene	ND		0.002	"	"	"	"	"	U
Acenaphthene	ND		0.020	"	"	"	"	"	U
Anthracene	ND		0.020	"	"	"	"	"	U
Benzo (a) anthracene	ND		0.005	"	"	"	"	"	U
Benzo (a) pyrene	ND		0.020	"	"	"	"	"	U
Benzo (b) fluoranthene	ND		0.020	"	"	"	"	"	U
Benzo (k) fluoranthene	ND		0.020	"	"	"	"	"	U
Chrysene	ND		0.020	"	"	"	"	"	U
Dibenz (a,h) anthracene	ND		0.020	"	"	"	"	"	U
Fluoranthene	ND		0.020	"	"	"	"	"	U
Fluorene	ND		0.020	"	"	"	"	"	U
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	U
Naphthalene	ND		0.002	"	"	"	"	"	U

Origins Laboratory

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Eagle Environmental Consulting, LLC
 8000 W 44th Ave
 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: Lomax 16-3/Logan 15-3A Facility

PW-W01@2.5'
5/29/2025 8:36:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5E1028-03 (Soil)
Origins Laboratory

PAH by EPA 8270E extracted via 3580A

Pyrene	ND		0.020	mg/kg	1	B5E3028	05/30/2025	05/31/2025	U
Surrogate: Fluorene-d10	104 %			60-130		"	"	"	
Surrogate: Anthracene-d10	97.6 %			60-130		"	"	"	
Surrogate: Pyrene-d10	105 %			60-130		"	"	"	
Surrogate: Benzo (a) pyrene-d12	98.2 %			60-130		"	"	"	

pH in Soil by 9045D

pH	8.29			pH Units	1	B5F0416	06/04/2025	06/05/2025	
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SAR by 20B Saturated Paste

SAR	0.146		0.0100	SAR	1	B5F0410	06/04/2025	06/05/2025	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.241		0.00500	mmhos/cm	1	B5F0416	06/04/2025	06/05/2025	
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Table 915 metals by EPA 6020B

Arsenic	3.72		0.275	mg/kg	10	B5F0244	06/02/2025	06/03/2025	
Barium	94.5		77.6	"	"	"	"	"	
Cadmium	ND		0.360	"	"	"	"	"	
Copper	ND		43.6	"	"	"	"	"	

Origins Laboratory

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Eagle Environmental Consulting, LLC
 8000 W 44th Ave
 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: Lomax 16-3/Logan 15-3A Facility

PW-W01@2.5'
5/29/2025 8:36:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5E1028-03 (Soil)
Origins Laboratory

Table 915 metals by EPA 6020B

Lead	ND		13.3	mg/kg	10	B5F0244	06/02/2025	06/03/2025	
Nickel	ND		24.6	"	"	"	"	"	
Selenium	ND		0.246	"	"	"	"	"	
Silver	ND		0.757	"	"	"	"	"	
Zinc	ND		350	"	"	"	"	"	

Waypoint Analytical, LLC.

Total Metals 7196A

Chromium, Hexavalent	ND	0.506	0.506	mg/Kg	1	A103343	05/29/2025	06/06/2025	J
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Origins Laboratory

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Eagle Environmental Consulting, LLC
 8000 W 44th Ave
 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: Lomax 16-3/Logan 15-3A Facility

SEP-B01@4'

5/29/2025 11:40:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5E1028-04 (Soil)									
Origins Laboratory									
Boron (DTPA Sorbitol)									
Boron	0.172		0.100	mg/L	1	B5E3002	05/30/2025	06/03/2025	
DRO/ORO by EPA 8015D									
Diesel (C10-C28)	ND		25.0	mg/kg	1	B5E3030	05/30/2025	05/31/2025	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U
Surrogate: o-Terphenyl	103 %				50-150	"	"	"	
GBTEX+TMBs by 8260D									
1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B5E3022	05/30/2025	05/31/2025	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	124 %				70-130	"	"	"	
Surrogate: Toluene-d8	98.1 %				70-130	"	"	"	
Surrogate: 4-Bromofluorobenzene	101 %				70-130	"	"	"	

Origins Laboratory

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Eagle Environmental Consulting, LLC
 8000 W 44th Ave
 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: Lomax 16-3/Logan 15-3A Facility

SEP-B01@4'
 5/29/2025 11:40:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5E1028-04 (Soil)
Origins Laboratory

Metals by Saturated Paste by EPA 6010

Calcium	1.34		0.499	meq/L	10	[CALC]	06/04/2025	06/05/2025	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	ND		0.435	"	"	"	"	"	

PAH by EPA 8270E extracted via 3580A

1-Methylnaphthalene	ND		0.002	mg/kg	1	B5E3028	05/30/2025	05/31/2025	U
2-Methylnaphthalene	ND		0.002	"	"	"	"	"	U
Acenaphthene	ND		0.020	"	"	"	"	"	U
Anthracene	ND		0.020	"	"	"	"	"	U
Benzo (a) anthracene	ND		0.005	"	"	"	"	"	U
Benzo (a) pyrene	ND		0.020	"	"	"	"	"	U
Benzo (b) fluoranthene	ND		0.020	"	"	"	"	"	U
Benzo (k) fluoranthene	ND		0.020	"	"	"	"	"	U
Chrysene	ND		0.020	"	"	"	"	"	U
Dibenz (a,h) anthracene	ND		0.020	"	"	"	"	"	U
Fluoranthene	ND		0.020	"	"	"	"	"	U
Fluorene	ND		0.020	"	"	"	"	"	U
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	U
Naphthalene	ND		0.002	"	"	"	"	"	U

Origins Laboratory

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 8000 W 44th Ave
 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: Lomax 16-3/Logan 15-3A Facility

SEP-B01@4'
 5/29/2025 11:40:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5E1028-04 (Soil)
Origins Laboratory

PAH by EPA 8270E extracted via 3580A

Pyrene	ND		0.020	mg/kg	1	B5E3028	05/30/2025	05/31/2025	U
Surrogate: Fluorene-d10	104 %			60-130		"	"	"	
Surrogate: Anthracene-d10	96.7 %			60-130		"	"	"	
Surrogate: Pyrene-d10	104 %			60-130		"	"	"	
Surrogate: Benzo (a) pyrene-d12	98.1 %			60-130		"	"	"	

pH in Soil by 9045D

pH	8.31			pH Units	1	B5F0416	06/04/2025	06/05/2025	
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SAR by 20B Saturated Paste

SAR	0.177		0.0100	SAR	1	B5F0410	06/04/2025	06/05/2025	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.298		0.00500	mmhos/cm	1	B5F0416	06/04/2025	06/05/2025	
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Table 915 metals by EPA 6020B

Arsenic	3.82		0.245	mg/kg	10	B5F0244	06/02/2025	06/03/2025	
Barium	94.6		69.3	"	"	"	"	"	
Cadmium	ND		0.321	"	"	"	"	"	
Copper	ND		38.9	"	"	"	"	"	

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Dan Coloccia
 Project Number: [none]
 Project: Lomax 16-3/Logan 15-3A Facility

SEP-B01@4'
 5/29/2025 11:40:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5E1028-04 (Soil)
 Origins Laboratory

Table 915 metals by EPA 6020B

Lead	ND		11.8	mg/kg	10	B5F0244	06/02/2025	06/03/2025	
Nickel	ND		22.0	"	"	"	"	"	
Selenium	0.221		0.220	"	"	"	"	"	
Silver	ND		0.676	"	"	"	"	"	
Zinc	ND		313	"	"	"	"	"	

Waypoint Analytical, LLC.

Total Metals 7196A

Chromium, Hexavalent	ND	0.5	0.5	mg/Kg	1	A103343	05/29/2025	06/06/2025	
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Origins Laboratory

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 8000 W 44th Ave
 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: Lomax 16-3/Logan 15-3A Facility

SEP-B02@4'
 5/29/2025 11:42:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5E1028-05 (Soil)									
Origins Laboratory									
Boron (DTPA Sorbitol)									
Boron	0.216		0.101	mg/L	1	B5E3002	05/30/2025	06/03/2025	
DRO/ORO by EPA 8015D									
Diesel (C10-C28)	ND		25.0	mg/kg	1	B5E3030	05/30/2025	05/31/2025	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U
Surrogate: o-Terphenyl	104 %			50-150		"	"	"	
GBTEX+TMBs by 8260D									
1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B5E3022	05/30/2025	05/31/2025	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		"	"	"	
Surrogate: Toluene-d8	101 %			70-130		"	"	"	
Surrogate: 4-Bromofluorobenzene	99.8 %			70-130		"	"	"	

Origins Laboratory

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Eagle Environmental Consulting, LLC
 8000 W 44th Ave
 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: Lomax 16-3/Logan 15-3A Facility

SEP-B02@4'

5/29/2025 11:42:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5E1028-05 (Soil)									
Origins Laboratory									
Metals by Saturated Paste by EPA 6010									
Calcium	1.39		0.499	meq/L	10	[CALC]	06/04/2025	06/05/2025	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	ND		0.435	"	"	"	"	"	
PAH by EPA 8270E extracted via 3580A									
1-Methylnaphthalene	ND		0.002	mg/kg	1	B5E3028	05/30/2025	05/31/2025	U
2-Methylnaphthalene	ND		0.002	"	"	"	"	"	U
Acenaphthene	ND		0.020	"	"	"	"	"	U
Anthracene	ND		0.020	"	"	"	"	"	U
Benzo (a) anthracene	ND		0.005	"	"	"	"	"	U
Benzo (a) pyrene	ND		0.020	"	"	"	"	"	U
Benzo (b) fluoranthene	ND		0.020	"	"	"	"	"	U
Benzo (k) fluoranthene	ND		0.020	"	"	"	"	"	U
Chrysene	ND		0.020	"	"	"	"	"	U
Dibenz (a,h) anthracene	ND		0.020	"	"	"	"	"	U
Fluoranthene	ND		0.020	"	"	"	"	"	U
Fluorene	ND		0.020	"	"	"	"	"	U
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	U
Naphthalene	ND		0.002	"	"	"	"	"	U

Origins Laboratory

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 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: Lomax 16-3/Logan 15-3A Facility

SEP-B02@4'
 5/29/2025 11:42:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5E1028-05 (Soil)
 Origins Laboratory

PAH by EPA 8270E extracted via 3580A

Pyrene	ND		0.020	mg/kg	1	B5E3028	05/30/2025	05/31/2025	U
Surrogate: Fluorene-d10	102 %			60-130		"	"	"	
Surrogate: Anthracene-d10	97.8 %			60-130		"	"	"	
Surrogate: Pyrene-d10	103 %			60-130		"	"	"	
Surrogate: Benzo (a) pyrene-d12	98.6 %			60-130		"	"	"	

pH in Soil by 9045D

pH	8.26			pH Units	1	B5F0416	06/04/2025	06/05/2025	
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SAR by 20B Saturated Paste

SAR	0.149		0.0100	SAR	1	B5F0410	06/04/2025	06/05/2025	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.299		0.00500	mmhos/cm	1	B5F0416	06/04/2025	06/05/2025	
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Table 915 metals by EPA 6020B

Arsenic	3.86		0.287	mg/kg	10	B5F0244	06/02/2025	06/03/2025	
Barium	111		81.1	"	"	"	"	"	
Cadmium	ND		0.376	"	"	"	"	"	
Copper	ND		45.5	"	"	"	"	"	

Origins Laboratory

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Eagle Environmental Consulting, LLC
 8000 W 44th Ave
 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: Lomax 16-3/Logan 15-3A Facility

SEP-B02@4'
5/29/2025 11:42:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5E1028-05 (Soil)
Origins Laboratory

Table 915 metals by EPA 6020B

Lead	17.2		13.8	mg/kg	10	B5F0244	06/02/2025	06/03/2025	
Nickel	ND		25.7	"	"	"	"	"	
Selenium	ND		0.257	"	"	"	"	"	
Silver	ND		0.791	"	"	"	"	"	
Zinc	ND		366	"	"	"	"	"	

Waypoint Analytical, LLC.

Total Metals 7196A

Chromium, Hexavalent	ND	0.5	0.5	mg/Kg	1	A103343	05/29/2025	06/06/2025	
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Origins Laboratory

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Eagle Environmental Consulting, LLC
 8000 W 44th Ave
 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: Lomax 16-3/Logan 15-3A Facility

AST-BG01@6"

5/29/2025 9:30:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5E1028-06 (Soil)									
Origins Laboratory									
Boron (DTPA Sorbitol)									
Boron	ND		0.0995	mg/L	1	B5E3003	05/30/2025	06/03/2025	
Metals by Saturated Paste by EPA 6010									
Calcium	ND		0.499	meq/L	10	[CALC]	06/04/2025	06/05/2025	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	ND		0.435	"	"	"	"	"	
pH in Soil by 9045D									
pH	5.50			pH Units	1	B5F0416	06/04/2025	06/05/2025	
SAR by 20B Saturated Paste									
SAR	0.0192		0.0100	SAR	1	B5F0410	06/04/2025	06/05/2025	
Specific Conductance Mod. 9050A									
Specific Conductance (EC)	0.153		0.00500	mmhos/cm	1	B5F0416	06/04/2025	06/05/2025	
Table 915 metals by EPA 6020B									
Arsenic	1.76		0.261	mg/kg	10	B5F0244	06/02/2025	06/03/2025	
Barium	ND		73.9	"	"	"	"	"	
Cadmium	ND		0.343	"	"	"	"	"	

Origins Laboratory

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Eagle Environmental Consulting, LLC
 8000 W 44th Ave
 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: Lomax 16-3/Logan 15-3A Facility

AST-BG01@6"

5/29/2025 9:30:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**E5E1028-06 (Soil)
 Origins Laboratory**

Table 915 metals by EPA 6020B

Copper	ND		41.5	mg/kg	10	B5F0244	06/02/2025	06/03/2025	
Lead	ND		12.6	"	"	"	"	"	
Nickel	ND		23.4	"	"	"	"	"	
Selenium	ND		0.234	"	"	"	"	"	
Silver	ND		0.721	"	"	"	"	"	
Zinc	ND		334	"	"	"	"	"	

Waypoint Analytical, LLC.

Total Metals 7196A

Chromium, Hexavalent	ND	0.5	0.5	mg/Kg	1	A103343	05/29/2025	06/06/2025	
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Origins Laboratory

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Eagle Environmental Consulting, LLC
 8000 W 44th Ave
 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: Lomax 16-3/Logan 15-3A Facility

AST-BG02@6"

5/29/2025 9:32:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**E5E1028-07 (Soil)
 Origins Laboratory**

Boron (DTPA Sorbitol)

Boron	ND		0.101	mg/L	1	B5E3003	05/30/2025	06/03/2025	
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Metals by Saturated Paste by EPA 6010

Calcium	ND		0.499	meq/L	10	[CALC]	06/04/2025	06/05/2025	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	ND		0.435	"	"	"	"	"	

pH in Soil by 9045D

pH	6.91			pH Units	1	B5F0416	06/04/2025	06/05/2025	
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SAR by 20B Saturated Paste

SAR	0.0374		0.0100	SAR	1	B5F0410	06/04/2025	06/05/2025	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.0882		0.00500	mmhos/cm	1	B5F0416	06/04/2025	06/05/2025	
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Table 915 metals by EPA 6020B

Arsenic	1.76		0.286	mg/kg	10	B5F0244	06/02/2025	06/03/2025	
Barium	ND		80.8	"	"	"	"	"	
Cadmium	ND		0.375	"	"	"	"	"	

Origins Laboratory

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Eagle Environmental Consulting, LLC
 8000 W 44th Ave
 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: Lomax 16-3/Logan 15-3A Facility

AST-BG02@6"

5/29/2025 9:32:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**E5E1028-07 (Soil)
 Origins Laboratory**

Table 915 metals by EPA 6020B

Copper	ND		45.3	mg/kg	10	B5F0244	06/02/2025	06/03/2025	
Lead	ND		13.8	"	"	"	"	"	
Nickel	ND		25.6	"	"	"	"	"	
Selenium	ND		0.256	"	"	"	"	"	
Silver	ND		0.788	"	"	"	"	"	
Zinc	ND		365	"	"	"	"	"	

Waypoint Analytical, LLC.

Total Metals 7196A

Chromium, Hexavalent	ND	0.505	0.505	mg/Kg	1	A103343	05/29/2025	06/06/2025	J
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Origins Laboratory

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 8000 W 44th Ave
 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: Lomax 16-3/Logan 15-3A Facility

AST-BG03@6"

5/29/2025 9:34:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5E1028-08 (Soil) Origins Laboratory									
Boron (DTPA Sorbitol)									
Boron	ND		0.0998	mg/L	1	B5E3003	05/30/2025	06/03/2025	
Metals by Saturated Paste by EPA 6010									
Calcium	ND		0.499	meq/L	10	[CALC]	06/04/2025	06/05/2025	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	ND		0.435	"	"	"	"	"	
pH in Soil by 9045D									
pH	6.07			pH Units	1	B5F0416	06/04/2025	06/05/2025	
SAR by 20B Saturated Paste									
SAR	0.0585		0.0100	SAR	1	B5F0410	06/04/2025	06/05/2025	
Specific Conductance Mod. 9050A									
Specific Conductance (EC)	0.117		0.00500	mmhos/cm	1	B5F0416	06/04/2025	06/05/2025	
Table 915 metals by EPA 6020B									
Arsenic	1.93		0.264	mg/kg	10	B5F0244	06/02/2025	06/03/2025	
Barium	ND		74.6	"	"	"	"	"	
Cadmium	ND		0.346	"	"	"	"	"	

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Dan Coloccia
 Project Number: [none]
 Project: Lomax 16-3/Logan 15-3A Facility

AST-BG03@6"

5/29/2025 9:34:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**E5E1028-08 (Soil)
 Origins Laboratory**

Table 915 metals by EPA 6020B

Copper	ND		41.8	mg/kg	10	B5F0244	06/02/2025	06/03/2025	
Lead	ND		12.7	"	"	"	"	"	
Nickel	ND		23.6	"	"	"	"	"	
Selenium	ND		0.236	"	"	"	"	"	
Silver	ND		0.728	"	"	"	"	"	
Zinc	ND		336	"	"	"	"	"	

Waypoint Analytical, LLC.

Total Metals 7196A

Chromium, Hexavalent	ND	0.505	0.505	mg/Kg	1	A103343	05/29/2025	06/06/2025	J
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Dan Coloccia
 Project Number: [none]
 Project: Lomax 16-3/Logan 15-3A Facility

AST-BG04@6"

5/29/2025 9:36:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5E1028-09 (Soil)									
Origins Laboratory									
Boron (DTPA Sorbitol)									
Boron	ND		0.101	mg/L	1	B5E3003	05/30/2025	06/03/2025	
Metals by Saturated Paste by EPA 6010									
Calcium	ND		0.499	meq/L	10	[CALC]	06/04/2025	06/05/2025	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	ND		0.435	"	"	"	"	"	
pH in Soil by 9045D									
pH	6.41			pH Units	1	B5F0416	06/04/2025	06/05/2025	
SAR by 20B Saturated Paste									
SAR	0.0527		0.0100	SAR	1	B5F0410	06/04/2025	06/05/2025	
Specific Conductance Mod. 9050A									
Specific Conductance (EC)	0.110		0.00500	mmhos/cm	1	B5F0416	06/04/2025	06/05/2025	
Table 915 metals by EPA 6020B									
Arsenic	2.14		0.285	mg/kg	10	B5F0244	06/02/2025	06/03/2025	
Barium	ND		80.6	"	"	"	"	"	
Cadmium	ND		0.374	"	"	"	"	"	

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Dan Coloccia
 Project Number: [none]
 Project: Lomax 16-3/Logan 15-3A Facility

AST-BG04@6"
5/29/2025 9:36:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5E1028-09 (Soil)
Origins Laboratory

Table 915 metals by EPA 6020B

Copper	ND		45.2	mg/kg	10	B5F0244	06/02/2025	06/03/2025	
Lead	ND		13.8	"	"	"	"	"	
Nickel	ND		25.6	"	"	"	"	"	
Selenium	ND		0.256	"	"	"	"	"	
Silver	ND		0.787	"	"	"	"	"	
Zinc	ND		364	"	"	"	"	"	

Waypoint Analytical, LLC.

Total Metals 7196A

Chromium, Hexavalent	ND	0.505	0.505	mg/Kg	1	A103343	05/29/2025	06/06/2025	J
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Origins Laboratory

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Dan Coloccia
 Project Number: [none]
 Project: Lomax 16-3/Logan 15-3A Facility

Classical Chemistry Parameters - Quality Control
Origins Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B5E3002 - DTPA Sorbitol Preparation										
Blank (B5E3002-BLK1)					Prepared: 05/30/2025 Analyzed: 06/03/2025					
Boron	ND	0.100	mg/L							
Duplicate (B5E3002-DUP1)		Source: E5E1024-01				Prepared: 05/30/2025 Analyzed: 06/03/2025				
Boron	0.212	0.101	mg/L		0.211			0.323	50	
Batch B5E3003 - DTPA Sorbitol Preparation										
Blank (B5E3003-BLK1)					Prepared: 05/30/2025 Analyzed: 06/03/2025					
Boron	ND	0.100	mg/L							
Duplicate (B5E3003-DUP1)		Source: E5E1028-06				Prepared: 05/30/2025 Analyzed: 06/03/2025				
Boron	0.0438	0.0996	mg/L		0.0320			31.1	50	
Batch B5F0410 - Saturated Paste Metals										
Blank (B5F0410-BLK1)					Prepared: 06/04/2025 Analyzed: 06/05/2025					
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 (B5F0410-DUP1)		Source: E5E1016-03				Prepared: 06/04/2025 Analyzed: 06/05/2025				
SAR	ND	0.0100	SAR		2.04				200	
Calcium PPM	64.2	10.0	mg/L		64.9			1.16	50	
Magnesium PPM	62.2	10.0	"		63.7			2.35	50	
Sodium PPM	96.2	10.0	"		96.5			0.280	50	

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Dan Coloccia
 Project Number: [none]
 Project: Lomax 16-3/Logan 15-3A Facility

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B5E3028 - EPA 3580

Blank (B5E3028-BLK1)

Prepared: 05/30/2025 Analyzed: 05/30/2025

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 (k) fluoranthene	ND	0.020	"							U
Chrysene	ND	0.020	"							U
Dibenz (a,h) anthracene	ND	0.020	"							U
Fluoranthene	ND	0.020	"							U
Fluorene	ND	0.020	"							U
Indeno (1,2,3-cd) pyrene	ND	0.020	"							U
Naphthalene	ND	0.002	"							U
Pyrene	ND	0.020	"							U

Surrogate: Fluorene-d10	210		ug/kg	200		103	60-130			
Surrogate: Anthracene-d10	190		"	200		97.0	60-130			
Surrogate: Pyrene-d10	210		"	200		104	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		98.1	60-130			

LCS (B5E3028-BS1)

Prepared: 05/30/2025 Analyzed: 05/31/2025

1-Methylnaphthalene	0.215	0.002	mg/kg	0.200		107	70-130			
2-Methylnaphthalene	0.212	0.002	"	0.200		106	70-130			
Acenaphthene	0.201	0.020	"	0.200		101	70-130			
Anthracene	0.204	0.020	"	0.200		102	70-130			
Benzo (a) anthracene	0.210	0.005	"	0.200		105	70-130			
Benzo (a) pyrene	0.199	0.020	"	0.200		99.3	70-130			

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Dan Coloccia
 Project Number: [none]
 Project: Lomax 16-3/Logan 15-3A Facility

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B5E3028 - EPA 3580

LCS (B5E3028-BS1)

Prepared: 05/30/2025 Analyzed: 05/31/2025

Benzo (b) fluoranthene	0.201	0.020	mg/kg	0.200		101	70-130			
Benzo (k) fluoranthene	0.207	0.020	"	0.200		103	70-130			
Chrysene	0.204	0.020	"	0.200		102	70-130			
Dibenz (a,h) anthracene	0.199	0.020	"	0.200		99.3	70-130			
Fluoranthene	0.213	0.020	"	0.200		107	70-130			
Fluorene	0.206	0.020	"	0.200		103	70-130			
Indeno (1,2,3-cd) pyrene	0.198	0.020	"	0.200		99.2	70-130			
Naphthalene	0.203	0.002	"	0.200		102	70-130			
Pyrene	0.213	0.020	"	0.200		107	70-130			

Surrogate: Fluorene-d10	210		ug/kg	200		103	60-130			
Surrogate: Anthracene-d10	200		"	200		97.9	60-130			
Surrogate: Pyrene-d10	210		"	200		103	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		97.8	60-130			

Matrix Spike (B5E3028-MS1)

Source: E5E0986-01

Prepared: 05/30/2025 Analyzed: 05/31/2025

1-Methylnaphthalene	0.213	0.002	mg/kg	0.200	ND	106	70-130			
2-Methylnaphthalene	0.215	0.002	"	0.200	ND	108	70-130			
Acenaphthene	0.203	0.020	"	0.200	0.001	101	70-130			
Anthracene	0.201	0.020	"	0.200	0.0009	100	70-130			
Benzo (a) anthracene	0.215	0.005	"	0.200	0.002	107	70-130			
Benzo (a) pyrene	0.205	0.020	"	0.200	0.003	101	70-130			
Benzo (b) fluoranthene	0.208	0.020	"	0.200	0.002	103	70-130			
Benzo (k) fluoranthene	0.212	0.020	"	0.200	0.0008	106	70-130			
Chrysene	0.205	0.020	"	0.200	0.004	101	70-130			
Dibenz (a,h) anthracene	0.202	0.020	"	0.200	0.0008	101	70-130			
Fluoranthene	0.225	0.020	"	0.200	0.006	110	70-130			
Fluorene	0.206	0.020	"	0.200	ND	103	70-130			

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Dan Coloccia
 Project Number: [none]
 Project: Lomax 16-3/Logan 15-3A Facility

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B5E3028 - EPA 3580

Matrix Spike (B5E3028-MS1)

Source: E5E0986-01

Prepared: 05/30/2025 Analyzed: 05/31/2025

Indeno (1,2,3-cd) pyrene	0.200	0.020	mg/kg	0.200	0.001	99.5	70-130			
Naphthalene	0.206	0.002	"	0.200	ND	103	70-130			
Pyrene	0.220	0.020	"	0.200	0.004	108	70-130			
Surrogate: Fluorene-d10	210		ug/kg	200		103	60-130			
Surrogate: Anthracene-d10	190		"	200		96.5	60-130			
Surrogate: Pyrene-d10	210		"	200		103	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		98.8	60-130			

Matrix Spike Dup (B5E3028-MSD1)

Source: E5E0986-01

Prepared: 05/30/2025 Analyzed: 05/31/2025

1-Methylnaphthalene	0.222	0.002	mg/kg	0.200	ND	111	70-130	4.18	20	
2-Methylnaphthalene	0.220	0.002	"	0.200	ND	110	70-130	2.20	20	
Acenaphthene	0.210	0.020	"	0.200	0.001	104	70-130	3.73	20	
Anthracene	0.205	0.020	"	0.200	0.0009	102	70-130	1.77	20	
Benzo (a) anthracene	0.224	0.005	"	0.200	0.002	111	70-130	4.08	20	
Benzo (a) pyrene	0.214	0.020	"	0.200	0.003	106	70-130	4.53	20	
Benzo (b) fluoranthene	0.215	0.020	"	0.200	0.002	107	70-130	3.51	20	
Benzo (k) fluoranthene	0.220	0.020	"	0.200	0.0008	109	70-130	3.54	20	
Chrysene	0.216	0.020	"	0.200	0.004	106	70-130	4.97	20	
Dibenz (a,h) anthracene	0.212	0.020	"	0.200	0.0008	106	70-130	4.79	20	
Fluoranthene	0.227	0.020	"	0.200	0.006	111	70-130	0.966	20	
Fluorene	0.216	0.020	"	0.200	ND	108	70-130	4.52	20	
Indeno (1,2,3-cd) pyrene	0.207	0.020	"	0.200	0.001	103	70-130	3.16	20	
Naphthalene	0.210	0.002	"	0.200	ND	105	70-130	1.81	20	
Pyrene	0.226	0.020	"	0.200	0.004	111	70-130	2.47	20	
Surrogate: Fluorene-d10	210		ug/kg	200		103	60-130			
Surrogate: Anthracene-d10	190		"	200		96.2	60-130			
Surrogate: Pyrene-d10	210		"	200		103	60-130			

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Dan Coloccia
 Project Number: [none]
 Project: Lomax 16-3/Logan 15-3A Facility

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B5E3028 - EPA 3580

Matrix Spike Dup (B5E3028-MSD1)

Source: E5E0986-01

Prepared: 05/30/2025 Analyzed: 05/31/2025

Surrogate: Benzo (a) pyrene-d12	200		ug/kg	200		100	60-130			
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Dan Coloccia
 Project Number: [none]
 Project: Lomax 16-3/Logan 15-3A Facility

Extractable Petroleum Hydrocarbons by 8015D - Quality Control
Origins Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B5E3030 - EPA 3550B										
Blank (B5E3030-BLK1) Prepared: 05/30/2025 Analyzed: 05/31/2025										
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	28		"	24.9		113	50-150			
LCS (B5E3030-BS1) Prepared: 05/30/2025 Analyzed: 05/31/2025										
Diesel (C10-C28)	922	50.0	mg/kg	1000		92.2	70-130			
Residual Range Organics (C28-C40)	911	200	"	1000		91.1	70-130			
Surrogate: o-Terphenyl	54		"	49.8		109	50-150			
Matrix Spike (B5E3030-MS1) Source: E5E0982-15 Prepared: 05/30/2025 Analyzed: 05/31/2025										
Diesel (C10-C28)	897	50.0	mg/kg	1000	ND	89.7	70-130			
Residual Range Organics (C28-C40)	913	200	"	1000	ND	91.3	70-130			
Surrogate: o-Terphenyl	53		"	49.8		106	50-150			
Matrix Spike Dup (B5E3030-MSD1) Source: E5E0982-15 Prepared: 05/30/2025 Analyzed: 05/31/2025										
Diesel (C10-C28)	924	50.0	mg/kg	1000	ND	92.4	70-130	2.96	35	
Residual Range Organics (C28-C40)	945	200	"	1000	ND	94.5	70-130	3.36	35	
Surrogate: o-Terphenyl	60		"	49.8		121	50-150			

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Dan Coloccia
 Project Number: [none]
 Project: Lomax 16-3/Logan 15-3A Facility

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B5F0244 - EPA 3050B

Prepared: 06/02/2025 Analyzed: 06/03/2025

Blank (B5F0244-BLK1)

Arsenic	ND	0.290	mg/kg							
Barium	ND	82.0	"							
Cadmium	ND	0.380	"							
Copper	ND	46.0	"							
Lead	ND	14.0	"							
Nickel	ND	26.0	"							
Selenium	ND	0.260	"							
Silver	ND	0.800	"							
Zinc	ND	370	"							

LCS (B5F0244-BS1)

Prepared: 06/02/2025 Analyzed: 06/03/2025

Arsenic	5.35	0.290	mg/kg	5.00		107	80-120			
Barium	478	82.0	"	500		95.7	80-120			
Cadmium	5.24	0.380	"	5.00		105	80-120			
Copper	48.0	46.0	"	50.0		96.0	80-120			
Lead	4.81	14.0	"	5.00		96.2	80-120			
Nickel	5.35	26.0	"	5.00		107	80-120			
Selenium	5.35	0.260	"	5.00		107	80-120			
Silver	5.23	0.800	"	5.00		105	80-120			
Zinc	50.4	370	"	50.0		101	80-120			

Matrix Spike (B5F0244-MS1)

Source: E5E1028-01

Prepared: 06/02/2025 Analyzed: 06/03/2025

Arsenic	8.00	0.285	mg/kg	4.91	11.3	NR	75-125			QM-07
Barium	560	80.6	"	491	81.1	97.4	75-125			
Cadmium	5.15	0.373	"	4.91	0.232	100	75-125			
Copper	53.9	45.2	"	49.1	8.99	91.4	75-125			
Lead	8.21	13.8	"	4.91	5.73	50.5	75-125			QM-07

Origins Laboratory

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 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: Lomax 16-3/Logan 15-3A Facility

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B5F0244 - EPA 3050B

Matrix Spike (B5F0244-MS1)

Source: E5E1028-01

Prepared: 06/02/2025 Analyzed: 06/03/2025

Nickel	9.35	25.5	mg/kg	4.91	7.10	45.7	75-125			QM-07
Selenium	5.48	0.255	"	4.91	1.93	72.2	75-125			QM-07
Silver	5.13	0.786	"	4.91	0.121	102	75-125			
Zinc	63.8	364	"	49.1	25.5	78.0	75-125			

Matrix Spike Dup (B5F0244-MSD1)

Source: E5E1028-01

Prepared: 06/02/2025 Analyzed: 06/03/2025

Arsenic	8.35	0.276	mg/kg	4.76	11.3	NR	75-125	4.38	20	QM-07
Barium	599	78.1	"	476	81.1	109	75-125	6.87	20	
Cadmium	5.30	0.362	"	4.76	0.232	106	75-125	2.92	20	
Copper	56.5	43.8	"	47.6	8.99	99.8	75-125	4.73	20	
Lead	8.76	13.3	"	4.76	5.73	63.7	75-125	6.53	20	QM-07
Nickel	10.9	24.7	"	4.76	7.10	80.7	75-125	15.7	20	
Selenium	5.15	0.247	"	4.76	1.93	67.6	75-125	6.14	20	QM-07
Silver	4.99	0.761	"	4.76	0.121	102	75-125	2.66	20	
Zinc	70.4	352	"	47.6	25.5	94.3	75-125	9.77	20	

Origins Laboratory

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 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: Lomax 16-3/Logan 15-3A Facility

Saturated Paste - Quality Control
Origins Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B5F0416 - Saturated Paste pH/EC

Blank (B5F0416-BLK1)

Prepared: 06/04/2025 Analyzed: 06/05/2025

Specific Conductance (EC) ND 0.00500 mmhos/cm

Duplicate (B5F0416-DUP1)

Source: E5E1016-03

Prepared: 06/04/2025 Analyzed: 06/05/2025

Specific Conductance (EC) 1.12 0.00500 mmhos/cm 1.12 0.294 25

pH 8.29 pH Units 8.28 0.121 25

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 Project: Lomax 16-3/Logan 15-3A Facility

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B5E3022 - EPA 5030 (soil)

Blank (B5E3022-BLK1)

Prepared: 05/30/2025 Analyzed: 05/30/2025

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

112

70-130

Surrogate: Toluene-d8

0.13

"

0.125

103

70-130

Surrogate: 4-Bromofluorobenzene

0.13

"

0.125

101

70-130

LCS (B5E3022-BS1)

Prepared: 05/30/2025 Analyzed: 05/30/2025

1,2,4-Trimethylbenzene	0.108	0.00200	mg/kg	0.100		108	70-130			
1,3,5-Trimethylbenzene	0.107	0.00200	"	0.100		107	70-130			
Benzene	0.0912	0.00200	"	0.100		91.2	70-130			
Ethylbenzene	0.0964	0.00200	"	0.100		96.4	70-130			
Naphthalene	0.0803	0.00380	"	0.100		80.3	70-130			
Toluene	0.0917	0.00200	"	0.100		91.7	70-130			
o-Xylene	0.102	0.00200	"	0.100		102	70-130			
m,p-Xylene	0.198	0.00400	"	0.200		99.0	70-130			

Surrogate: 1,2-Dichloroethane-d4

0.14

"

0.125

111

70-130

Surrogate: Toluene-d8

0.13

"

0.125

102

70-130

Surrogate: 4-Bromofluorobenzene

0.12

"

0.125

98.0

70-130

Matrix Spike (B5E3022-MS1)

Source: E5E1037-22

Prepared: 05/30/2025 Analyzed: 05/31/2025

1,2,4-Trimethylbenzene	0.0925	0.00200	mg/kg	0.100	ND	92.5	70-130			
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 Project: Lomax 16-3/Logan 15-3A Facility

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B5E3022 - EPA 5030 (soil)

Matrix Spike (B5E3022-MS1)

Source: E5E1037-22

Prepared: 05/30/2025 Analyzed: 05/31/2025

1,3,5-Trimethylbenzene	0.0916	0.00200	mg/kg	0.100	ND	91.6	70-130			
Benzene	0.0885	0.00200	"	0.100	ND	88.5	70-130			
Ethylbenzene	0.0810	0.00200	"	0.100	ND	81.0	70-130			
Naphthalene	0.0617	0.00380	"	0.100	0.00206	59.6	70-130			QM-07
Toluene	0.0845	0.00200	"	0.100	ND	84.5	70-130			
o-Xylene	0.0890	0.00200	"	0.100	ND	89.0	70-130			
m,p-Xylene	0.168	0.00400	"	0.200	ND	83.8	70-130			

Surrogate: 1,2-Dichloroethane-d4

0.16

"

0.125

129

70-130

Surrogate: Toluene-d8

0.13

"

0.125

100

70-130

Surrogate: 4-Bromofluorobenzene

0.12

"

0.125

95.7

70-130

Matrix Spike Dup (B5E3022-MSD1)

Source: E5E1037-22

Prepared: 05/30/2025 Analyzed: 05/31/2025

1,2,4-Trimethylbenzene	0.102	0.00200	mg/kg	0.100	ND	102	70-130	10.1	20	
1,3,5-Trimethylbenzene	0.103	0.00200	"	0.100	ND	103	70-130	11.3	20	
Benzene	0.0987	0.00200	"	0.100	ND	98.7	70-130	11.0	20	
Ethylbenzene	0.0932	0.00200	"	0.100	ND	93.2	70-130	14.0	20	
Naphthalene	0.0839	0.00380	"	0.100	0.00206	81.9	70-130	30.5	20	QM-07
Toluene	0.0947	0.00200	"	0.100	ND	94.7	70-130	11.3	20	
o-Xylene	0.101	0.00200	"	0.100	ND	101	70-130	12.8	20	
m,p-Xylene	0.192	0.00400	"	0.200	ND	95.8	70-130	13.4	20	

Surrogate: 1,2-Dichloroethane-d4

0.16

"

0.125

126

70-130

Surrogate: Toluene-d8

0.13

"

0.125

100

70-130

Surrogate: 4-Bromofluorobenzene

0.12

"

0.125

96.6

70-130

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch A103343 -										
DUP (L 87532-DUP)		Source: 87532			Prepared: Analyzed: 06/06/2025					
Chromium, Hexavalent	ND	0.5	mg/Kg		<0.500	-	0	20		
MS (L 87532-MS)		Source: 87532			Prepared: Analyzed: 06/06/2025					
Chromium, Hexavalent	6.75	0.5	mg/Kg	7.73	<0.244	87	75-125			
LCS (LCS)		Prepared: Analyzed: 06/06/2025								
Chromium, Hexavalent	7.23	0.5	mg/Kg	8	90	75-125				
LRB (LRB)		Prepared: Analyzed: 06/06/2025								
Chromium, Hexavalent	ND	0.5	mg/Kg							

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Dan Coloccia
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Project: Lomax 16-3/Logan 15-3A Facility

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.
 - J Estimated Value. Analyte below reported quantitation limit.
 - ND Analyte NOT DETECTED at or above the reporting limit
 - RPD Relative Percent Difference
- All soil results are reported on a wet weight basis.

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