

ORIGINS LABORATORY

Ensolum

Jeremy Espinoza

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

January 17, 2025

**Project Name - KMG - Bane 2N3 27N 2N2
28N1-9HZ Facility**

Project Number - 09A1417837

Attached are your analytical results for KMG - Bane 2N3 27N 2N2 28N1-9HZ Facility received by Origins Laboratory December 03, 2024. This project is associated with Origins project number E4L0082-01.

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



Ensolium
11049 W 44th Avenue, Suite 103
Wheat Ridge CO 80033

Jeremy Espinoza
Project Number: 09A1417837
Project: KMG - Bane 2N3 27N 2N2 28N1-9HZ
Facility

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
PWW01-N01@2'	E4L0082-01	Soil	December 3, 2024 8:30	12/03/2024 17:31
PWW01-N01@2'-V	E4L0082-02	Soil	December 3, 2024 8:35	12/03/2024 17:31
PWW01-B01@5'	E4L0082-03	Soil	December 3, 2024 9:20	12/03/2024 17:31
PWW01-B01@5'-V	E4L0082-04	Soil	December 3, 2024 9:25	12/03/2024 17:31
PWW02-N01@2'	E4L0082-05	Soil	December 3, 2024 8:40	12/03/2024 17:31
PWW02-N01@2'-V	E4L0082-06	Soil	December 3, 2024 8:45	12/03/2024 17:31
PWW02-B01@5'	E4L0082-07	Soil	December 3, 2024 9:30	12/03/2024 17:31
PWW02-B01@5'-V	E4L0082-08	Soil	December 3, 2024 9:35	12/03/2024 17:31
AST01@0.5'	E4L0082-09	Soil	December 3, 2024 9:00	12/03/2024 17:31
AST01@0.5'-V	E4L0082-10	Soil	December 3, 2024 9:05	12/03/2024 17:31
TP-SEP01@0.5'	E4L0082-11	Soil	December 3, 2024 9:50	12/03/2024 17:31
TP-SEP02@0.5'	E4L0082-12	Soil	December 3, 2024 11:00	12/03/2024 17:31
SEP02-OUTLET@5'	E4L0082-14	Soil	December 3, 2024 11:30	12/03/2024 17:31
SEP03-OUTLET@5'	E4L0082-15	Soil	December 3, 2024 11:40	12/03/2024 17:31

Origins Laboratory

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Jeremy Espinoza
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Project: KMG - Bane 2N3 27N 2N2 28N1-9HZ
Facility

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SEP04-OUTLET@5'	E4L0082-16	Soil	December 3, 2024 11:45	12/03/2024 17:31
SEP05-OUTLET@5'	E4L0082-17	Soil	December 3, 2024 11:50	12/03/2024 17:31
SEP06-OUTLET@5'	E4L0082-18	Soil	December 3, 2024 11:55	12/03/2024 17:31
SEP07-OUTLET@5'	E4L0082-19	Soil	December 3, 2024 12:00	12/03/2024 17:31
SEP08-OUTLET@5'	E4L0082-20	Soil	December 3, 2024 12:05	12/03/2024 17:31
TB-BG01@0.5'	E4L0082-21	Soil	December 3, 2024 9:15	12/03/2024 17:31
NATIVE-BG01@3'	E4L0082-22	Soil	December 3, 2024 13:07	12/03/2024 17:31
NATIVE-BG01@6'	E4L0082-23	Soil	December 3, 2024 13:10	12/03/2024 17:31
NATIVE-BG02@3'	E4L0082-24	Soil	December 3, 2024 10:45	12/03/2024 17:31
NATIVE-BG02@6'	E4L0082-25	Soil	December 3, 2024 10:50	12/03/2024 17:31
NATIVE-BG03@3'	E4L0082-26	Soil	December 3, 2024 13:12	12/03/2024 17:31
NATIVE-BG03@6'	E4L0082-27	Soil	December 3, 2024 13:15	12/03/2024 17:31
NATIVE-BG04@3'	E4L0082-28	Soil	December 3, 2024 14:25	12/03/2024 17:31
NATIVE-BG04@6'	E4L0082-29	Soil	December 3, 2024 14:30	12/03/2024 17:31

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Project Number: 09A1417837
Project: KMG - Bane 2N3 27N 2N2 28N1-9HZ
Facility

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
NATIVE-BG05@3'	E4L0082-30	Soil	December 3, 2024 14:35	12/03/2024 17:31
NATIVE-BG05@6'	E4L0082-31	Soil	December 3, 2024 14:40	12/03/2024 17:31
NATIVE-BG06@6'	E4L0082-33	Soil	December 3, 2024 14:50	12/03/2024 17:31
NATIVE-BG07@3'	E4L0082-34	Soil	December 3, 2024 12:45	12/03/2024 17:31
NATIVE-BG07@6'	E4L0082-35	Soil	December 3, 2024 12:50	12/03/2024 17:31
NATIVE-BG08@3'	E4L0082-36	Soil	December 3, 2024 13:00	12/03/2024 17:31
NATIVE-BG08@6'	E4L0082-37	Soil	December 3, 2024 13:05	12/03/2024 17:31

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 Facility



ORIGINS WORK CENTER #

EHL0082

Page 1 of 1

1725 Elk Place Denver, CO 80221 | 303.333.1322 | originslab.com

Temp Received - 3.6 Received On Ice? Yes No

#	Sample ID	Date		# of Containers	Matrix Preservation	Analysis		Comments
		Sampled	Time					
1	PAWL-101-02-V	12/24	0830	3	5	UNP	X	
2	PAWL-101-02-V		0835				X	
3	PAWL-101-05-V		0830				X	
4	PAWL-101-05-V		0835				X	
5	PAWL-101-01-V		0840				X	
6	PAWL-101-02-V		0845				X	
7	PAWL-101-05-V		0850				X	
8	PAWL-101-05-V		0855				X	
9	ASTO-105-V		0900				X	
10	ASTO-105-V		0905				X	

Relinquished By:	Date:	Time:	Received By:	Date:	Time:
Elizabeth E.	12-3-24	1731	JS	12-3-24	1731

Turnaround Time
 SAME DAY 24 Hr
 48 Hr 72

Client: Ensolium
 Address: _____
 Project Manager: Jeremy Espinoza
 Project Name: Bane 2N3 27N 2N2 28N1-9HZ Facility
 Project Number: 09A1417837
 Key: W=Water G=Groundwater SW=Surface Water
 Telephone Number: (770) 590-2134
 Collected By: YC
 Invoice/Billing Info: Smith
 Email Address: lma@ten.com
 W=Waste Water L=Liquid

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

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Ensolium
11049 W 44th Avenue, Suite 103
Wheat Ridge CO 80033

Jeremy Espinoza
Project Number: 09A1417837
Project: KMG - Bane 2N3 27N 2N2 28N1-9HZ
Facility



ORIGINS WORK ORDER #

64L0082

Page 2 of 4

Client: Ensolium
Address: _____

Telephone Number: (303) 590-2131
Email Address: lmg@ensolium.com

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

Project Manager: Jeremy Espinoza
Project Name: Bane 2N3 27N 2N2 28N1-9HZ Facility
Project Number: 09A1417837
Collected By: VC
Invoice/Billing Info: Smith
Key: W=Water
GW=Groundwater
SW=Surface Water
WW=Waste Water
L=Liquid

#	Sample ID	Date Sampled	Time Sampled	# of Containers	Matrix	Preservative	Analysis		Comments
							1	2	
1	TP-5601 P05	12/3/24	0500	3	UNP				
2	TP-5602 P05		0600	1		X			
3	SP01-0114 P5		1155	1		X			
4	SP01-0114 P5		1130	1		X			
5	SP03-0114 P5		1140	1		X			
6	SP04-0114 P5		1145	1		X			
7	SP05-0114 P5		1150	1		X			
8	SP06-0114 P5		1155	1		X			
9	SP07-0114 P5		1200	1		X			
10	SP08-0114 P5		1205	1		X			

Relinquished By: Elizabeth E Date: 12-3-24 Time: 1731 Received By: VS Date: 12/3/24 Time: 1731
Temp Received: 3.6 Received On Ice? Yes No
Turnaround Time: SAME DAY 24 Hr 48 Hr 72 Hr

Origins Laboratory
Bynon

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Jeremy Espinoza
Project Number: 09A1417837
Project: KMG - Bane 2N3 27N 2N2 28N1-9HZ
Facility

ORIGINS
LABORATORY

ORIGINS WORK ORDER #

64L0082

Page 3 of 11

Client: Ensolium

Project Manager: Jeremy Espinoza

Key: W=Water

Address: _____

Project Name: Site 203 27N 2N2 28N1-9HZ Facility

Key: GW=Groundwater

Telephone Number: (303) 590-2134

Collected By: UC

Key: SW=Surface Water

Email Address: lvm@ensolium.com

Invoice/Billing Info: MHA

Key: WW=Waste Water

S=Soil | SC=Solid | O=Oil | A=Air | S=Gas | U=Urine | P=Urine | HCL=Hydrochloric | HNO3=Nitric | H2SO4=Sulfuric | NaOH=Sodium Hydroxide

#	Sample ID	Date Sampled	Time Sampled	# of Containers	Matrix	Analysis							Comments		
						HC	UD	PC	Bran	CISMETAL					
1	WV-SG0105	1/13/14	0915	3	S	UW	X	X	X	X					
2	WV-SG0105	1/13/14	1307	2	S	UW	X	X	X	X					
3	WV-SG0105	1/13/14	1306	2	S	UW	X	X	X	X					
4	WV-SG0105	1/13/14	1045	2	S	UW	X	X	X	X					
5	WV-SG0105	1/13/14	1050	2	S	UW	X	X	X	X					
6	WV-SG0105	1/13/14	1312	2	S	UW	X	X	X	X					
7	WV-SG0105	1/13/14	1351	2	S	UW	X	X	X	X					
8	WV-SG0105	1/13/14	1405	2	S	UW	X	X	X	X					
9	WV-SG0105	1/13/14	1430	2	S	UW	X	X	X	X					
10	WV-SG0105	1/13/14	1455	2	S	UW	X	X	X	X					

Relinquished By: Elizabeth Z. Date: 12-3-24 Time: 1731 Received By: UC Date: 12/3/24 Time: 1701

Turnaround Time: SAME DAY 24 Hr 48 Hr 72

Temp Received: 32 Received On Ice? Yes No

Origins Laboratory
Byron

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Jeremy Espinoza
Project Number: 09A1417837
Project: KMG - Bane 2N3 27N 2N2 28N1-9HZ
Facility

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ORIGINS WORK ORDER #

6460082

Page 4 of 4

1725 Elk Place Denver, CO 80211 | 303.433.1322 | originslab.com

Temp Received - 36

Received on ice? Yes No

Reinforced By: <u>E. Lichstein, Z.</u>	Date: <u>12-3-24</u>	Time: <u>1731</u>	Received By: <u>JS</u>	Date: <u>12/3/24</u>	Time: <u>1731</u>
Reinforced By:	Date:	Time:	Received By:	Date:	Time:

#	Sample ID	Date Sampled	Time Sampled	# of Containers	Matrix Preservative	Analysis				Comments
						H ₂ O	SPR	Boron	915 Metals	
1	Water-Spot 01	12/3/24	1440	2	UUP	X	X	X	X	
2	Water-Spot 03		1445							
3	Water-Spot 01		1450							
4	Water-Spot 03		1245							
5	Water-Spot 01		1550							
6	Water-Spot 03		1300							
7	Water-Spot 01		1305							
8										
9										
10										

Client: Ensolium
Address: _____
Project Manager: Jeremy Espinoza
Key: _____
Project Name: Bane 2N3 27N 2N2 28N1-9HZ
Project Number: 09A1417837
Collected By: JS
Invoice/Billing Info: Initial
Telephone Number: (303) 590-2154
Email Address: lmm@ensolium.com
S-Soil | SO-Solid | O-Oil | A-Air | G-gas | UUP-Limpet | HCL = Hydrochloric | HNO3-nitric | H2SO4=Sulfuric | NaOH=Sodium Hydroxide
SI=Liquid
SIW=Surface Water
WM=Waste Water

Turnaround Time
 SAME DAY
 24 Hr
 48 Hr
 72
 Standard

Origins Laboratory
Byron

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Ensolium
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 Wheat Ridge CO 80033

Jeremy Espinoza
 Project Number: 09A1417837
 Project: KMG - Bane 2N3 27N 2N2 28N1-9HZ
 Facility

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

Sample Receipt Checklist

Origins Work Order: E4L0082 Client: ENSOLIUM
 Client Project ID: Bane

Checklist Completed by: JAD Shipped Via: HD
 Date/time completed: 12/3/24 (UPS, FedEx, Hand Delivered, Pick-up, etc.)
 Airbill #: N/A

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


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

Thermometer ID: 1007

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"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input 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 type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided ⁽¹⁾ ?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	MISSING SECOND JAR FOR L0082-31 AND THIRD JAR FOR L0082-13
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	MISSING 2 OF L0082-32 L0082-13
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are samples preserved that require preservation and was it checked ⁽¹⁾ ? (note ID of confirmation instrument used in comments) (preservation is not confirmed for subcontracted analyses in order to insure sample integrity) (pH <2 for samples preserved with HNO3, HCL, H2SO4) (pH >10 for samples preserved with NaAsO2+NaOH, ZnAc+NaOH)	<input type="checkbox"/>	<input type="checkbox"/>	<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) JAD Date/Time Reviewed 12/3/24

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Jeremy Espinoza
 Project Number: 09A1417837
 Project: KMG - Bane 2N3 27N 2N2 28N1-9HZ
 Facility

PWV01-N01@2'

12/3/2024 8:30:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E4L0082-01 (Soil)

Boron (DTPA Sorbitol)

Boron	0.286		0.101	mg/L	1	B4L0407	12/04/2024	12/05/2024	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B4L0355	12/03/2024	12/04/2024	Ua
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	Ua

Surrogate: *o*-Terphenyl 67.2 % 50-150 " " "

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B4L0356	12/03/2024	12/03/2024	Ua
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	Ua
Benzene	ND		0.00200	"	"	"	"	"	Ua
Ethylbenzene	ND		0.00200	"	"	"	"	"	Ua
Toluene	ND		0.00200	"	"	"	"	"	Ua
Xylenes, total	ND		0.00200	"	"	"	"	"	Ua
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	Ua

Surrogate: 1,2-Dichloroethane-d4 115 % 70-130 " " "

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 Project: KMG - Bane 2N3 27N 2N2 28N1-9HZ
 Facility

PWV01-N01@2'

12/3/2024 8:30:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory

E4L0082-01 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	103 %		70-130			B4L03 56	12/03/2024	12/03/2024	
Surrogate: 4-Bromofluorobenzene	100 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	1.12		0.499	meq/L	10	[CALC]	12/04/2024	12/06/2024	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	0.702		0.435	"	"	"	"	"	

PAH by EPA 8270E extracted via 3580A

1-Methylnaphthalene	ND		0.002	mg/kg	1	B4L0445	12/04/2024	12/08/2024	Ua
2-Methylnaphthalene	ND		0.002	"	"	"	"	"	Ua
Acenaphthene	ND		0.020	"	"	"	"	"	Ua
Anthracene	ND		0.020	"	"	"	"	"	Ua
Benzo (a) anthracene	ND		0.005	"	"	"	"	"	Ua
Benzo (a) pyrene	ND		0.020	"	"	"	"	"	Ua
Benzo (b) fluoranthene	ND		0.020	"	"	"	"	"	Ua
Benzo (k) fluoranthene	ND		0.020	"	"	"	"	"	Ua
Chrysene	ND		0.020	"	"	"	"	"	Ua
Dibenz (a,h) anthracene	ND		0.020	"	"	"	"	"	Ua
Fluoranthene	ND		0.020	"	"	"	"	"	Ua

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 Project Number: 09A1417837
 Project: KMG - Bane 2N3 27N 2N2 28N1-9HZ
 Facility

PWV01-N01@2'

12/3/2024 8:30:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory

E4L0082-01 (Soil)

PAH by EPA 8270E extracted via 3580A

Fluorene	ND		0.020	mg/kg	1	B4L0445	12/04/2024	12/08/2024	Ua
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	Ua
Naphthalene	ND		0.002	"	"	"	"	"	Ua
Pyrene	ND		0.020	"	"	"	"	"	Ua

Surrogate: Fluorene-d10	99.3 %		60-130						
Surrogate: Anthracene-d10	89.6 %		60-130						
Surrogate: Pyrene-d10	103 %		60-130						
Surrogate: Benzo (a) pyrene-d12	100 %		60-130						

pH in Soil by 9045D

pH	8.37			pH Units	1	B4L0424	12/04/2024	12/05/2024	
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SAR by 20B Saturated Paste

SAR	0.743		0.0100	SAR	1	B4L0415	12/04/2024	12/06/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.282		0.00500	mmhos/cm	1	B4L0424	12/04/2024	12/05/2024	
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Table 915 metals by EPA 6020B

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Jeremy Espinoza
 Project Number: 09A1417837
 Project: KMG - Bane 2N3 27N 2N2 28N1-9HZ
 Facility

PWV01-N01@2'

12/3/2024 8:30:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E4L0082-01 (Soil)

Table 915 metals by EPA 6020B

Arsenic	5.69		0.269	mg/kg	10	B4L0358	12/03/2024	12/04/2024	
Barium	181		9.27	"	"	"	"	"	"
Cadmium	0.254		0.0927	"	"	"	"	"	"
Copper	14.9		9.27	"	"	"	"	"	"
Lead	11.7		0.927	"	"	"	"	"	"
Nickel	14.7		0.927	"	"	"	"	"	"
Selenium	0.271		0.241	"	"	"	"	"	"
Silver	ND		0.0927	"	"	"	"	"	"
Zinc	57.0		34.3	"	"	"	"	"	"

Total Metals 7196A

Hexavalent Chromium	ND	0.107	0.269	mg/kg dry	1	2726715	01/02/2025	01/09/2025	U
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Origins Laboratory

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.



Ensolium
11049 W 44th Avenue, Suite 103
Wheat Ridge CO 80033

Jeremy Espinoza
Project Number: 09A1417837
Project: KMG - Bane 2N3 27N 2N2 28N1-9HZ
Facility

PWV01-N01@2'-V

12/3/2024 8:35:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory

E4L0082-02 (Soil)

pH in Soil by 9045D

pH	8.44			pH Units	1	B4L0916	12/09/2024	12/10/2024	
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Origins Laboratory

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Ensolium
 11049 W 44th Avenue, Suite 103
 Wheat Ridge CO 80033

Jeremy Espinoza
 Project Number: 09A1417837
 Project: KMG - Bane 2N3 27N 2N2 28N1-9HZ
 Facility

PWV01-B01@5'

12/3/2024 9:20:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E4L0082-03 (Soil)

Boron (DTPA Sorbitol)

Boron	0.214		0.0983	mg/L	1	B4L0407	12/04/2024	12/05/2024	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B4L0355	12/03/2024	12/04/2024	Ua
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	Ua

Surrogate: o-Terphenyl	44.1 %		50-150			"	"	"	S-DUP
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B4L0356	12/03/2024	12/03/2024	Ua
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	Ua
Benzene	ND		0.00200	"	"	"	"	"	Ua
Ethylbenzene	ND		0.00200	"	"	"	"	"	Ua
Toluene	ND		0.00200	"	"	"	"	"	Ua
Xylenes, total	ND		0.00200	"	"	"	"	"	Ua
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	Ua

Surrogate: 1,2-Dichloroethane-d4	115 %		70-130			"	"	"	
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Origins Laboratory

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Ensolium
 11049 W 44th Avenue, Suite 103
 Wheat Ridge CO 80033

Jeremy Espinoza
 Project Number: 09A1417837
 Project: KMG - Bane 2N3 27N 2N2 28N1-9HZ
 Facility

PWW01-B01@5'

12/3/2024 9:20:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory

E4L0082-03 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	103 %		70-130			B4L03 56	12/03/2024	12/03/2024	
Surrogate: 4-Bromofluorobenzene	98.7 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	0.965		0.499	meq/L	10	[CALC]	12/04/2024	12/06/2024	
Magnesium	0.901		0.823	"	"	"	"	"	
Sodium	3.15		0.435	"	"	"	"	"	

PAH by EPA 8270E extracted via 3580A

1-Methylnaphthalene	ND		0.002	mg/kg	1	B4L0445	12/04/2024	12/08/2024	Ua
2-Methylnaphthalene	ND		0.002	"	"	"	"	"	Ua
Acenaphthene	ND		0.020	"	"	"	"	"	Ua
Anthracene	ND		0.020	"	"	"	"	"	Ua
Benzo (a) anthracene	ND		0.005	"	"	"	"	"	Ua
Benzo (a) pyrene	ND		0.020	"	"	"	"	"	Ua
Benzo (b) fluoranthene	ND		0.020	"	"	"	"	"	Ua
Benzo (k) fluoranthene	ND		0.020	"	"	"	"	"	Ua
Chrysene	ND		0.020	"	"	"	"	"	Ua
Dibenz (a,h) anthracene	ND		0.020	"	"	"	"	"	Ua
Fluoranthene	ND		0.020	"	"	"	"	"	Ua

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Ensolium
 11049 W 44th Avenue, Suite 103
 Wheat Ridge CO 80033

Jeremy Espinoza
 Project Number: 09A1417837
 Project: KMG - Bane 2N3 27N 2N2 28N1-9HZ
 Facility

PWV01-B01@5'

12/3/2024 9:20:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory

E4L0082-03 (Soil)

PAH by EPA 8270E extracted via 3580A

Fluorene	ND		0.020	mg/kg	1	B4L0445	12/04/2024	12/08/2024	Ua
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	Ua
Naphthalene	ND		0.002	"	"	"	"	"	Ua
Pyrene	ND		0.020	"	"	"	"	"	Ua

Surrogate: Fluorene-d10	102 %		60-130			"	"	"	
Surrogate: Anthracene-d10	103 %		60-130			"	"	"	
Surrogate: Pyrene-d10	101 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	99.4 %		60-130			"	"	"	

pH in Soil by 9045D

pH	8.48			pH Units	1	B4L0424	12/04/2024	12/05/2024	
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SAR by 20B Saturated Paste

SAR	3.26		0.0100	SAR	1	B4L0415	12/04/2024	12/06/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.556		0.00500	mmhos/cm	1	B4L0424	12/04/2024	12/05/2024	
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Table 915 metals by EPA 6020B

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Ensolium
 11049 W 44th Avenue, Suite 103
 Wheat Ridge CO 80033

Jeremy Espinoza
 Project Number: 09A1417837
 Project: KMG - Bane 2N3 27N 2N2 28N1-9HZ
 Facility

PWW01-B01@5'

12/3/2024 9:20:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory

E4L0082-03 (Soil)

Table 915 metals by EPA 6020B

Arsenic	4.80		0.280	mg/kg	10	B4L0358	12/03/2024	12/04/2024	
Barium	133		9.66	"	"	"	"	"	"
Cadmium	0.177		0.0966	"	"	"	"	"	"
Copper	10.6		9.66	"	"	"	"	"	"
Lead	7.75		0.966	"	"	"	"	"	"
Nickel	11.5		0.966	"	"	"	"	"	"
Selenium	ND		0.251	"	"	"	"	"	"
Silver	ND		0.0966	"	"	"	"	"	"
Zinc	39.6		35.7	"	"	"	"	"	"

Total Metals 7196A

Hexavalent Chromium	ND	0.176	0.439	mg/kg dry	1	2726715	01/02/2025	01/09/2025	U
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11049 W 44th Avenue, Suite 103
Wheat Ridge CO 80033

Jeremy Espinoza
Project Number: 09A1417837
Project: KMG - Bane 2N3 27N 2N2 28N1-9HZ
Facility

PWV01-B01@5'-V

12/3/2024 9:25:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory

E4L0082-04 (Soil)

pH in Soil by 9045D

pH	8.21			pH Units	1	B4L0916	12/09/2024	12/10/2024	
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 11049 W 44th Avenue, Suite 103
 Wheat Ridge CO 80033

Jeremy Espinoza
 Project Number: 09A1417837
 Project: KMG - Bane 2N3 27N 2N2 28N1-9HZ
 Facility

PWV02-N01@2'

12/3/2024 8:40:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E4L0082-05 (Soil)

Boron (DTPA Sorbitol)

Boron	0.184		0.101	mg/L	1	B4L0407	12/04/2024	12/05/2024	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B4L0355	12/03/2024	12/04/2024	Ua
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	Ua

Surrogate: o-Terphenyl	66.9 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B4L0356	12/03/2024	12/03/2024	Ua
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	Ua
Benzene	ND		0.00200	"	"	"	"	"	Ua
Ethylbenzene	ND		0.00200	"	"	"	"	"	Ua
Toluene	ND		0.00200	"	"	"	"	"	Ua
Xylenes, total	ND		0.00200	"	"	"	"	"	Ua
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	Ua

Surrogate: 1,2-Dichloroethane-d4	118 %		70-130			"	"	"	
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Ensolium
 11049 W 44th Avenue, Suite 103
 Wheat Ridge CO 80033

Jeremy Espinoza
 Project Number: 09A1417837
 Project: KMG - Bane 2N3 27N 2N2 28N1-9HZ
 Facility

PWV02-N01@2'

12/3/2024 8:40:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory

E4L0082-05 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	108 %		70-130			B4L03 56	12/03/2024	12/03/2024	
Surrogate: 4-Bromofluorobenzene	99.1 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	1.14		0.499	meq/L	10	[CALC]	12/04/2024	12/06/2024	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	ND		0.435	"	"	"	"	"	

PAH by EPA 8270E extracted via 3580A

1-Methylnaphthalene	ND		0.002	mg/kg	1	B4L0445	12/04/2024	12/08/2024	Ua
2-Methylnaphthalene	ND		0.002	"	"	"	"	"	Ua
Acenaphthene	ND		0.020	"	"	"	"	"	Ua
Anthracene	ND		0.020	"	"	"	"	"	Ua
Benzo (a) anthracene	ND		0.005	"	"	"	"	"	Ua
Benzo (a) pyrene	ND		0.020	"	"	"	"	"	Ua
Benzo (b) fluoranthene	ND		0.020	"	"	"	"	"	Ua
Benzo (k) fluoranthene	ND		0.020	"	"	"	"	"	Ua
Chrysene	ND		0.020	"	"	"	"	"	Ua
Dibenz (a,h) anthracene	ND		0.020	"	"	"	"	"	Ua
Fluoranthene	ND		0.020	"	"	"	"	"	Ua

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Ensolium
 11049 W 44th Avenue, Suite 103
 Wheat Ridge CO 80033

Jeremy Espinoza
 Project Number: 09A1417837
 Project: KMG - Bane 2N3 27N 2N2 28N1-9HZ
 Facility

PWV02-N01@2'

12/3/2024 8:40:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E4L0082-05 (Soil)

PAH by EPA 8270E extracted via 3580A

Fluorene	ND		0.020	mg/kg	1	B4L0445	12/04/2024	12/08/2024	Ua
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	Ua
Naphthalene	ND		0.002	"	"	"	"	"	Ua
Pyrene	ND		0.020	"	"	"	"	"	Ua

Surrogate: Fluorene-d10	99.8 %		60-130			"	"	"	
Surrogate: Anthracene-d10	82.3 %		60-130			"	"	"	
Surrogate: Pyrene-d10	106 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	101 %		60-130			"	"	"	

pH in Soil by 9045D

pH	8.40			pH Units	1	B4L0424	12/04/2024	12/05/2024	
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SAR by 20B Saturated Paste

SAR	0.0527		0.0100	SAR	1	B4L0415	12/04/2024	12/06/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.189		0.00500	mmhos/cm	1	B4L0424	12/04/2024	12/05/2024	
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Table 915 metals by EPA 6020B

Origins Laboratory

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Ensolium
 11049 W 44th Avenue, Suite 103
 Wheat Ridge CO 80033

Jeremy Espinoza
 Project Number: 09A1417837
 Project: KMG - Bane 2N3 27N 2N2 28N1-9HZ
 Facility

PWV02-N01@2'

12/3/2024 8:40:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory

E4L0082-05 (Soil)

Table 915 metals by EPA 6020B

Arsenic	5.20		0.248	mg/kg	10	B4L0358	12/03/2024	12/04/2024	
Barium	200		8.56	"	"	"	"	"	"
Cadmium	0.204		0.0856	"	"	"	"	"	"
Copper	14.6		8.56	"	"	"	"	"	"
Lead	10.7		0.856	"	"	"	"	"	"
Nickel	14.0		0.856	"	"	"	"	"	"
Selenium	0.226		0.223	"	"	"	"	"	"
Silver	ND		0.0856	"	"	"	"	"	"
Zinc	57.7		31.7	"	"	"	"	"	"

Total Metals 7196A

Hexavalent Chromium	ND	0.110	0.275	mg/kg dry	1	2726715	01/02/2025	01/09/2025	U
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Origins Laboratory

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11049 W 44th Avenue, Suite 103
Wheat Ridge CO 80033

Jeremy Espinoza
Project Number: 09A1417837
Project: KMG - Bane 2N3 27N 2N2 28N1-9HZ
Facility

PWV02-N01@2'-V

12/3/2024 8:45:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory

E4L0082-06 (Soil)

pH in Soil by 9045D

pH	8.37			pH Units	1	B4L0916	12/09/2024	12/10/2024	
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Origins Laboratory

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Ensolium
 11049 W 44th Avenue, Suite 103
 Wheat Ridge CO 80033

Jeremy Espinoza
 Project Number: 09A1417837
 Project: KMG - Bane 2N3 27N 2N2 28N1-9HZ
 Facility

PWW02-B01@5'

12/3/2024 9:30:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
 E4L0082-07 (Soil)

Boron (DTPA Sorbitol)

Boron	0.229		0.0991	mg/L	1	B4L0407	12/04/2024	12/05/2024	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B4L0355	12/03/2024	12/04/2024	Ua
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	Ua

Surrogate: o-Terphenyl 59.8 % 50-150 " " "

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B4L0356	12/03/2024	12/03/2024	Ua
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	Ua
Benzene	ND		0.00200	"	"	"	"	"	Ua
Ethylbenzene	ND		0.00200	"	"	"	"	"	Ua
Toluene	ND		0.00200	"	"	"	"	"	Ua
Xylenes, total	ND		0.00200	"	"	"	"	"	Ua
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	Ua

Surrogate: 1,2-Dichloroethane-d4 117 % 70-130 " " "

Origins Laboratory

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Ensolium
 11049 W 44th Avenue, Suite 103
 Wheat Ridge CO 80033

Jeremy Espinoza
 Project Number: 09A1417837
 Project: KMG - Bane 2N3 27N 2N2 28N1-9HZ
 Facility

PWW02-B01@5'

12/3/2024 9:30:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory

E4L0082-07 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	103 %		70-130			B4L03 56	12/03/2024	12/03/2024	
Surrogate: 4-Bromofluorobenzene	99.7 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	0.960		0.499	meq/L	10	[CALC]	12/04/2024	12/06/2024	
Magnesium	0.823		0.823	"	"	"	"	"	
Sodium	0.818		0.435	"	"	"	"	"	

PAH by EPA 8270E extracted via 3580A

1-Methylnaphthalene	ND		0.002	mg/kg	1	B4L0445	12/04/2024	12/08/2024	Ua
2-Methylnaphthalene	ND		0.002	"	"	"	"	"	Ua
Acenaphthene	ND		0.020	"	"	"	"	"	Ua
Anthracene	ND		0.020	"	"	"	"	"	Ua
Benzo (a) anthracene	ND		0.005	"	"	"	"	"	Ua
Benzo (a) pyrene	ND		0.020	"	"	"	"	"	Ua
Benzo (b) fluoranthene	ND		0.020	"	"	"	"	"	Ua
Benzo (k) fluoranthene	ND		0.020	"	"	"	"	"	Ua
Chrysene	ND		0.020	"	"	"	"	"	Ua
Dibenz (a,h) anthracene	ND		0.020	"	"	"	"	"	Ua
Fluoranthene	ND		0.020	"	"	"	"	"	Ua

Origins Laboratory

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Ensolium
 11049 W 44th Avenue, Suite 103
 Wheat Ridge CO 80033

Jeremy Espinoza
 Project Number: 09A1417837
 Project: KMG - Bane 2N3 27N 2N2 28N1-9HZ
 Facility

PWW02-B01@5'

12/3/2024 9:30:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory

E4L0082-07 (Soil)

PAH by EPA 8270E extracted via 3580A

Fluorene	ND		0.020	mg/kg	1	B4L0445	12/04/2024	12/08/2024	Ua
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	Ua
Naphthalene	ND		0.002	"	"	"	"	"	Ua
Pyrene	ND		0.020	"	"	"	"	"	Ua

Surrogate: Fluorene-d10	99.2 %		60-130						
Surrogate: Anthracene-d10	91.2 %		60-130						
Surrogate: Pyrene-d10	105 %		60-130						
Surrogate: Benzo (a) pyrene-d12	99.9 %		60-130						

pH in Soil by 9045D

pH	8.45			pH Units	1	B4L0424	12/04/2024	12/05/2024	
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SAR by 20B Saturated Paste

SAR	0.867		0.0100	SAR	1	B4L0415	12/04/2024	12/06/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.280		0.00500	mmhos/cm	1	B4L0424	12/04/2024	12/05/2024	
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Table 915 metals by EPA 6020B

Origins Laboratory

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Ensolium
 11049 W 44th Avenue, Suite 103
 Wheat Ridge CO 80033

Jeremy Espinoza
 Project Number: 09A1417837
 Project: KMG - Bane 2N3 27N 2N2 28N1-9HZ
 Facility

PWW02-B01@5'

12/3/2024 9:30:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory

E4L0082-07 (Soil)

Table 915 metals by EPA 6020B

Arsenic	5.08		0.269	mg/kg	10	B4L0358	12/03/2024	12/04/2024	
Barium	147		9.29	"	"	"	"	"	"
Cadmium	0.201		0.0929	"	"	"	"	"	"
Copper	12.5		9.29	"	"	"	"	"	"
Lead	9.64		0.929	"	"	"	"	"	"
Nickel	14.0		0.929	"	"	"	"	"	"
Selenium	ND		0.242	"	"	"	"	"	"
Silver	ND		0.0929	"	"	"	"	"	"
Zinc	45.6		34.4	"	"	"	"	"	"

Total Metals 7196A

Hexavalent Chromium	ND	0.166	0.415	mg/kg dry	1	2726715	01/02/2025	01/09/2025	U
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Origins Laboratory

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Ensolium
11049 W 44th Avenue, Suite 103
Wheat Ridge CO 80033

Jeremy Espinoza
Project Number: 09A1417837
Project: KMG - Bane 2N3 27N 2N2 28N1-9HZ
Facility

PWV02-B01@5'-V

12/3/2024 9:35:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory

E4L0082-08 (Soil)

pH in Soil by 9045D

pH	8.43			pH Units	1	B4L0916	12/09/2024	12/10/2024	
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Origins Laboratory

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Ensolium
 11049 W 44th Avenue, Suite 103
 Wheat Ridge CO 80033

Jeremy Espinoza
 Project Number: 09A1417837
 Project: KMG - Bane 2N3 27N 2N2 28N1-9HZ
 Facility

AST01@0.5'

12/3/2024 9:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
 E4L0082-09 (Soil)

Boron (DTPA Sorbitol)

Boron	ND		0.101	mg/L	1	B4L0407	12/04/2024	12/05/2024	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B4L0355	12/03/2024	12/04/2024	Ua
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	Ua

Surrogate: o-Terphenyl	73.1 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B4L0356	12/03/2024	12/03/2024	Ua
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	Ua
Benzene	ND		0.00200	"	"	"	"	"	Ua
Ethylbenzene	ND		0.00200	"	"	"	"	"	Ua
Toluene	ND		0.00200	"	"	"	"	"	Ua
Xylenes, total	ND		0.00200	"	"	"	"	"	Ua
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	Ua

Surrogate: 1,2-Dichloroethane-d4	116 %		70-130			"	"	"	
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Origins Laboratory

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Ensolium
 11049 W 44th Avenue, Suite 103
 Wheat Ridge CO 80033

Jeremy Espinoza
 Project Number: 09A1417837
 Project: KMG - Bane 2N3 27N 2N2 28N1-9HZ
 Facility

AST01@0.5'

12/3/2024 9:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
 E4L0082-09 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	95.1 %		70-130			B4L03 56	12/03/2024	12/03/2024	
Surrogate: 4-Bromofluorobenzene	100 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	1.78		0.499	meq/L	10	[CALC]	12/04/2024	12/06/2024	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	ND		0.435	"	"	"	"	"	

PAH by EPA 8270E extracted via 3580A

1-Methylnaphthalene	ND		0.002	mg/kg	1	B4L0445	12/04/2024	12/09/2024	Ua
2-Methylnaphthalene	ND		0.002	"	"	"	"	"	Ua
Acenaphthene	ND		0.020	"	"	"	"	"	Ua
Anthracene	ND		0.020	"	"	"	"	"	Ua
Benzo (a) anthracene	ND		0.005	"	"	"	"	"	Ua
Benzo (a) pyrene	ND		0.020	"	"	"	"	"	Ua
Benzo (b) fluoranthene	ND		0.020	"	"	"	"	"	Ua
Benzo (k) fluoranthene	ND		0.020	"	"	"	"	"	Ua
Chrysene	ND		0.020	"	"	"	"	"	Ua
Dibenz (a,h) anthracene	ND		0.020	"	"	"	"	"	Ua
Fluoranthene	ND		0.020	"	"	"	"	"	Ua

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Ensolium
 11049 W 44th Avenue, Suite 103
 Wheat Ridge CO 80033

Jeremy Espinoza
 Project Number: 09A1417837
 Project: KMG - Bane 2N3 27N 2N2 28N1-9HZ
 Facility

AST01@0.5'

12/3/2024 9:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory

E4L0082-09 (Soil)

PAH by EPA 8270E extracted via 3580A

Fluorene	ND		0.020	mg/kg	1	B4L0445	12/04/2024	12/09/2024	Ua
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	Ua
Naphthalene	ND		0.002	"	"	"	"	"	Ua
Pyrene	ND		0.020	"	"	"	"	"	Ua

Surrogate: Fluorene-d10	102 %		60-130	"	"	"	"	"	
Surrogate: Anthracene-d10	102 %		60-130	"	"	"	"	"	
Surrogate: Pyrene-d10	102 %		60-130	"	"	"	"	"	
Surrogate: Benzo (a) pyrene-d12	102 %		60-130	"	"	"	"	"	

pH in Soil by 9045D

pH	8.07			pH Units	1	B4L0424	12/04/2024	12/05/2024	
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SAR by 20B Saturated Paste

SAR	ND		0.0100	SAR	1	B4L0415	12/04/2024	12/06/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.255		0.00500	mmhos/cm	1	B4L0424	12/04/2024	12/05/2024	
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Table 915 metals by EPA 6020B

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Ensolium
 11049 W 44th Avenue, Suite 103
 Wheat Ridge CO 80033

Jeremy Espinoza
 Project Number: 09A1417837
 Project: KMG - Bane 2N3 27N 2N2 28N1-9HZ
 Facility

AST01@0.5'

12/3/2024 9:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
 E4L0082-09 (Soil)

Table 915 metals by EPA 6020B

Arsenic	4.85	0.267	mg/kg	10	B4L0358	12/03/2024	12/04/2024	
Barium	147	9.22	"	"	"	"	"	"
Cadmium	0.107	0.0922	"	"	"	"	"	"
Copper	10.2	9.22	"	"	"	"	"	"
Lead	6.44	0.922	"	"	"	"	"	"
Nickel	8.99	0.922	"	"	"	"	"	"
Selenium	ND	0.240	"	"	"	"	"	"
Silver	ND	0.0922	"	"	"	"	"	"
Zinc	60.3	34.1	"	"	"	"	"	"

Total Metals 7196A

Hexavalent Chromium	ND	0.0975	0.244	mg/kg dry	1	2726715	01/02/2025	01/09/2025	U
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Origins Laboratory

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Ensolium
 11049 W 44th Avenue, Suite 103
 Wheat Ridge CO 80033

Jeremy Espinoza
 Project Number: 09A1417837
 Project: KMG - Bane 2N3 27N 2N2 28N1-9HZ
 Facility

AST01@0.5'V

12/3/2024 9:05:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory

E4L0082-10 (Soil)

pH in Soil by 9045D

pH	8.33			pH Units	1	B4L0916	12/09/2024	12/10/2024	
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Ensolium
 11049 W 44th Avenue, Suite 103
 Wheat Ridge CO 80033

Jeremy Espinoza
 Project Number: 09A1417837
 Project: KMG - Bane 2N3 27N 2N2 28N1-9HZ
 Facility

TP-SEP01@0.5'
12/3/2024 9:50:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E4L0082-11 (Soil)

Boron (DTPA Sorbitol)

Boron	0.285		0.0999	mg/L	1	B4L0407	12/04/2024	12/05/2024	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B4L0355	12/03/2024	12/04/2024	Ua
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	Ua

Surrogate: o-Terphenyl	58.5 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B4L0356	12/03/2024	12/03/2024	Ua
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	Ua
Benzene	ND		0.00200	"	"	"	"	"	Ua
Ethylbenzene	ND		0.00200	"	"	"	"	"	Ua
Toluene	ND		0.00200	"	"	"	"	"	Ua
Xylenes, total	ND		0.00200	"	"	"	"	"	Ua
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	Ua

Surrogate: 1,2-Dichloroethane-d4	116 %		70-130			"	"	"	
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Origins Laboratory

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Ensolium
 11049 W 44th Avenue, Suite 103
 Wheat Ridge CO 80033

Jeremy Espinoza
 Project Number: 09A1417837
 Project: KMG - Bane 2N3 27N 2N2 28N1-9HZ
 Facility

TP-SEP01@0.5'
 12/3/2024 9:50:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
 E4L0082-11 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	104 %		70-130			B4L03 56	12/03/2024	12/03/2024	
Surrogate: 4-Bromofluorobenzene	99.7 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	ND		0.499	meq/L	10	[CALC]	12/04/2024	12/06/2024	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	1.01		0.435	"	"	"	"	"	

PAH by EPA 8270E extracted via 3580A

1-Methylnaphthalene	ND		0.002	mg/kg	1	B4L0445	12/04/2024	12/09/2024	Ua
2-Methylnaphthalene	ND		0.002	"	"	"	"	"	Ua
Acenaphthene	ND		0.020	"	"	"	"	"	Ua
Anthracene	ND		0.020	"	"	"	"	"	Ua
Benzo (a) anthracene	ND		0.005	"	"	"	"	"	Ua
Benzo (a) pyrene	ND		0.020	"	"	"	"	"	Ua
Benzo (b) fluoranthene	ND		0.020	"	"	"	"	"	Ua
Benzo (k) fluoranthene	ND		0.020	"	"	"	"	"	Ua
Chrysene	ND		0.020	"	"	"	"	"	Ua
Dibenz (a,h) anthracene	ND		0.020	"	"	"	"	"	Ua
Fluoranthene	ND		0.020	"	"	"	"	"	Ua

Origins Laboratory

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Ensolium
 11049 W 44th Avenue, Suite 103
 Wheat Ridge CO 80033

Jeremy Espinoza
 Project Number: 09A1417837
 Project: KMG - Bane 2N3 27N 2N2 28N1-9HZ
 Facility

TP-SEP01@0.5'
 12/3/2024 9:50:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
 E4L0082-11 (Soil)

PAH by EPA 8270E extracted via 3580A

Fluorene	ND		0.020	mg/kg	1	B4L0445	12/04/2024	12/09/2024	Ua
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	Ua
Naphthalene	ND		0.002	"	"	"	"	"	Ua
Pyrene	ND		0.020	"	"	"	"	"	Ua

Surrogate: Fluorene-d10	101 %		60-130			"	"	"	
Surrogate: Anthracene-d10	103 %		60-130			"	"	"	
Surrogate: Pyrene-d10	104 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	102 %		60-130			"	"	"	

pH in Soil by 9045D

pH	8.80			pH Units	1	B4L0424	12/04/2024	12/05/2024	
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SAR by 20B Saturated Paste

SAR	2.08		0.0100	SAR	1	B4L0415	12/04/2024	12/06/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.228		0.00500	mmhos/cm	1	B4L0424	12/04/2024	12/05/2024	
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Table 915 metals by EPA 6020B

Origins Laboratory

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Ensolium
 11049 W 44th Avenue, Suite 103
 Wheat Ridge CO 80033

Jeremy Espinoza
 Project Number: 09A1417837
 Project: KMG - Bane 2N3 27N 2N2 28N1-9HZ
 Facility

TP-SEP01@0.5'
 12/3/2024 9:50:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
 E4L0082-11 (Soil)

Table 915 metals by EPA 6020B

Arsenic	2.84	0.272	mg/kg	10	B4L0358	12/03/2024	12/04/2024	
Barium	57.6	9.37	"	"	"	"	"	
Cadmium	ND	0.0937	"	"	"	"	"	
Copper	ND	9.37	"	"	"	"	"	
Lead	5.41	0.937	"	"	"	"	"	
Nickel	6.63	0.937	"	"	"	"	"	
Selenium	ND	0.243	"	"	"	"	"	
Silver	ND	0.0937	"	"	"	"	"	
Zinc	ND	34.7	"	"	"	"	"	

Total Metals 7196A

Hexavalent Chromium	ND	0.153	0.382	mg/kg dry	1	2726715	01/02/2025	01/09/2025	U
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Origins Laboratory

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Ensolium
 11049 W 44th Avenue, Suite 103
 Wheat Ridge CO 80033

Jeremy Espinoza
 Project Number: 09A1417837
 Project: KMG - Bane 2N3 27N 2N2 28N1-9HZ
 Facility

TP-SEP02@0.5'

12/3/2024 11:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory

E4L0082-12 (Soil)

Boron (DTPA Sorbitol)

Boron	0.289		0.101	mg/L	1	B4L0407	12/04/2024	12/05/2024	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B4L0355	12/03/2024	12/04/2024	Ua
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	Ua

Surrogate: o-Terphenyl	64.3 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B4L0356	12/03/2024	12/03/2024	Ua
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	Ua
Benzene	ND		0.00200	"	"	"	"	"	Ua
Ethylbenzene	ND		0.00200	"	"	"	"	"	Ua
Toluene	ND		0.00200	"	"	"	"	"	Ua
Xylenes, total	ND		0.00200	"	"	"	"	"	Ua
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	Ua

Surrogate: 1,2-Dichloroethane-d4	115 %		70-130			"	"	"	
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Origins Laboratory

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Ensolium
 11049 W 44th Avenue, Suite 103
 Wheat Ridge CO 80033

Jeremy Espinoza
 Project Number: 09A1417837
 Project: KMG - Bane 2N3 27N 2N2 28N1-9HZ
 Facility

TP-SEP02@0.5'

12/3/2024 11:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory

E4L0082-12 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	104 %		70-130			B4L03 56	12/03/2024	12/03/2024	
Surrogate: 4-Bromofluorobenzene	107 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	11.0		0.499	meq/L	10	[CALC]	12/04/2024	12/06/2024	
Magnesium	3.04		0.823	"	"	"	"	"	
Sodium	1.67		0.435	"	"	"	"	"	

PAH by EPA 8270E extracted via 3580A

1-Methylnaphthalene	ND		0.002	mg/kg	1	B4L0445	12/04/2024	12/09/2024	Ua
2-Methylnaphthalene	ND		0.002	"	"	"	"	"	Ua
Acenaphthene	ND		0.020	"	"	"	"	"	Ua
Anthracene	ND		0.020	"	"	"	"	"	Ua
Benzo (a) anthracene	ND		0.005	"	"	"	"	"	Ua
Benzo (a) pyrene	ND		0.020	"	"	"	"	"	Ua
Benzo (b) fluoranthene	ND		0.020	"	"	"	"	"	Ua
Benzo (k) fluoranthene	ND		0.020	"	"	"	"	"	Ua
Chrysene	ND		0.020	"	"	"	"	"	Ua
Dibenz (a,h) anthracene	ND		0.020	"	"	"	"	"	Ua
Fluoranthene	ND		0.020	"	"	"	"	"	Ua

Origins Laboratory

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Ensolium
 11049 W 44th Avenue, Suite 103
 Wheat Ridge CO 80033

Jeremy Espinoza
 Project Number: 09A1417837
 Project: KMG - Bane 2N3 27N 2N2 28N1-9HZ
 Facility

TP-SEP02@0.5'

12/3/2024 11:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory

E4L0082-12 (Soil)

PAH by EPA 8270E extracted via 3580A

Fluorene	ND		0.020	mg/kg	1	B4L0445	12/04/2024	12/09/2024	Ua
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	Ua
Naphthalene	ND		0.002	"	"	"	"	"	Ua
Pyrene	ND		0.020	"	"	"	"	"	Ua

Surrogate: Fluorene-d10	101 %		60-130			"	"	"	
Surrogate: Anthracene-d10	100 %		60-130			"	"	"	
Surrogate: Pyrene-d10	101 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	103 %		60-130			"	"	"	

pH in Soil by 9045D

pH	8.15			pH Units	1	B4L0424	12/04/2024	12/05/2024	
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SAR by 20B Saturated Paste

SAR	0.628		0.0100	SAR	1	B4L0415	12/04/2024	12/06/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	1.67		0.00500	mmhos/cm	1	B4L0424	12/04/2024	12/05/2024	
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Table 915 metals by EPA 6020B

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 Wheat Ridge CO 80033

Jeremy Espinoza
 Project Number: 09A1417837
 Project: KMG - Bane 2N3 27N 2N2 28N1-9HZ
 Facility

TP-SEP02@0.5'
 12/3/2024 11:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
 E4L0082-12 (Soil)

Table 915 metals by EPA 6020B

Arsenic	3.26		0.257	mg/kg	10	B4L0358	12/03/2024	12/04/2024	
Barium	67.0		8.86	"	"	"	"	"	
Cadmium	ND		0.0886	"	"	"	"	"	
Copper	ND		8.86	"	"	"	"	"	
Lead	5.04		0.886	"	"	"	"	"	
Nickel	6.09		0.886	"	"	"	"	"	
Selenium	ND		0.230	"	"	"	"	"	
Silver	ND		0.0886	"	"	"	"	"	
Zinc	ND		32.8	"	"	"	"	"	

Total Metals 7196A

Hexavalent Chromium	ND	0.134	0.336	mg/kg dry	1	2726715	01/02/2025	01/09/2025	U
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Jeremy Espinoza
 Project Number: 09A1417837
 Project: KMG - Bane 2N3 27N 2N2 28N1-9HZ
 Facility

SEP02-OUTLET@5'
 12/3/2024 11:30:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E4L0082-14 (Soil)

Boron (DTPA Sorbitol)

Boron	0.392		0.0987	mg/L	1	B4L0409	12/04/2024	12/05/2024	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B4L0355	12/03/2024	12/04/2024	Ua
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	Ua

Surrogate: o-Terphenyl	57.5 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B4L0356	12/03/2024	12/03/2024	Ua
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	Ua
Benzene	ND		0.00200	"	"	"	"	"	Ua
Ethylbenzene	ND		0.00200	"	"	"	"	"	Ua
Toluene	ND		0.00200	"	"	"	"	"	Ua
Xylenes, total	ND		0.00200	"	"	"	"	"	Ua
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	Ua

Surrogate: 1,2-Dichloroethane-d4	122 %		70-130			"	"	"	
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 Wheat Ridge CO 80033

Jeremy Espinoza
 Project Number: 09A1417837
 Project: KMG - Bane 2N3 27N 2N2 28N1-9HZ
 Facility

SEP02-OUTLET@5'
 12/3/2024 11:30:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E4L0082-14 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	108 %		70-130			B4L03 56	12/03/2024	12/03/2024	
Surrogate: 4-Bromofluorobenzene	92.4 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	0.881		0.499	meq/L	10	[CALC]	12/04/2024	12/06/2024	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	1.43		0.435	"	"	"	"	"	

PAH by EPA 8270E extracted via 3580A

1-Methylnaphthalene	ND		0.002	mg/kg	1	B4L0445	12/04/2024	12/09/2024	Ua
2-Methylnaphthalene	ND		0.002	"	"	"	"	"	Ua
Acenaphthene	ND		0.020	"	"	"	"	"	Ua
Anthracene	ND		0.020	"	"	"	"	"	Ua
Benzo (a) anthracene	ND		0.005	"	"	"	"	"	Ua
Benzo (a) pyrene	ND		0.020	"	"	"	"	"	Ua
Benzo (b) fluoranthene	ND		0.020	"	"	"	"	"	Ua
Benzo (k) fluoranthene	ND		0.020	"	"	"	"	"	Ua
Chrysene	ND		0.020	"	"	"	"	"	Ua
Dibenz (a,h) anthracene	ND		0.020	"	"	"	"	"	Ua
Fluoranthene	ND		0.020	"	"	"	"	"	Ua

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Jeremy Espinoza
 Project Number: 09A1417837
 Project: KMG - Bane 2N3 27N 2N2 28N1-9HZ
 Facility

SEP02-OUTLET@5'
 12/3/2024 11:30:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E4L0082-14 (Soil)

PAH by EPA 8270E extracted via 3580A

Fluorene	ND		0.020	mg/kg	1	B4L0445	12/04/2024	12/09/2024	Ua
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	Ua
Naphthalene	ND		0.002	"	"	"	"	"	Ua
Pyrene	ND		0.020	"	"	"	"	"	Ua

Surrogate: Fluorene-d10	102 %		60-130			"	"	"	
Surrogate: Anthracene-d10	102 %		60-130			"	"	"	
Surrogate: Pyrene-d10	102 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	101 %		60-130			"	"	"	

pH in Soil by 9045D

pH	8.49			pH Units	1	B4L0424	12/04/2024	12/05/2024	
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SAR by 20B Saturated Paste

SAR	1.60		0.0100	SAR	1	B4L0415	12/04/2024	12/06/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.332		0.00500	mmhos/cm	1	B4L0424	12/04/2024	12/05/2024	
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Table 915 metals by EPA 6020B

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 Project: KMG - Bane 2N3 27N 2N2 28N1-9HZ
 Facility

SEP02-OUTLET@5'
 12/3/2024 11:30:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
 E4L0082-14 (Soil)

Table 915 metals by EPA 6020B

Arsenic	5.15		0.257	mg/kg	10	B4L0358	12/03/2024	12/04/2024	
Barium	151		8.87	"	"	"	"	"	"
Cadmium	0.186		0.0887	"	"	"	"	"	"
Copper	13.5		8.87	"	"	"	"	"	"
Lead	10.6		0.887	"	"	"	"	"	"
Nickel	14.1		0.887	"	"	"	"	"	"
Selenium	0.233		0.230	"	"	"	"	"	"
Silver	ND		0.0887	"	"	"	"	"	"
Zinc	51.0		32.8	"	"	"	"	"	"

Total Metals 7196A

Hexavalent Chromium	ND	0.115	0.287	mg/kg dry	1	2726715	01/02/2025	01/09/2025	U
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 Project: KMG - Bane 2N3 27N 2N2 28N1-9HZ
 Facility

SEP03-OUTLET@5'
 12/3/2024 11:40:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E4L0082-15 (Soil)

Boron (DTPA Sorbitol)

Boron	0.434		0.0999	mg/L	1	B4L0409	12/04/2024	12/05/2024	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B4L0355	12/03/2024	12/04/2024	Ua
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	Ua

Surrogate: <i>o</i> -Terphenyl	59.0 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B4L0356	12/03/2024	12/03/2024	Ua
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	Ua
Benzene	ND		0.00200	"	"	"	"	"	Ua
Ethylbenzene	ND		0.00200	"	"	"	"	"	Ua
Toluene	ND		0.00200	"	"	"	"	"	Ua
Xylenes, total	ND		0.00200	"	"	"	"	"	Ua
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	Ua

Surrogate: 1,2-Dichloroethane-d4	119 %		70-130			"	"	"	
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 Wheat Ridge CO 80033

Jeremy Espinoza
 Project Number: 09A1417837
 Project: KMG - Bane 2N3 27N 2N2 28N1-9HZ
 Facility

SEP03-OUTLET@5'
 12/3/2024 11:40:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
 E4L0082-15 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	103 %		70-130			B4L03 56	12/03/2024	12/03/2024	
Surrogate: 4-Bromofluorobenzene	100 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	1.80		0.499	meq/L	10	[CALC]	12/04/2024	12/06/2024	
Magnesium	0.856		0.823	"	"	"	"	"	
Sodium	0.943		0.435	"	"	"	"	"	

PAH by EPA 8270E extracted via 3580A

1-Methylnaphthalene	ND		0.002	mg/kg	1	B4L0445	12/04/2024	12/09/2024	Ua
2-Methylnaphthalene	ND		0.002	"	"	"	"	"	Ua
Acenaphthene	ND		0.020	"	"	"	"	"	Ua
Anthracene	ND		0.020	"	"	"	"	"	Ua
Benzo (a) anthracene	ND		0.005	"	"	"	"	"	Ua
Benzo (a) pyrene	ND		0.020	"	"	"	"	"	Ua
Benzo (b) fluoranthene	ND		0.020	"	"	"	"	"	Ua
Benzo (k) fluoranthene	ND		0.020	"	"	"	"	"	Ua
Chrysene	ND		0.020	"	"	"	"	"	Ua
Dibenz (a,h) anthracene	ND		0.020	"	"	"	"	"	Ua
Fluoranthene	ND		0.020	"	"	"	"	"	Ua

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 Wheat Ridge CO 80033

Jeremy Espinoza
 Project Number: 09A1417837
 Project: KMG - Bane 2N3 27N 2N2 28N1-9HZ
 Facility

SEP03-OUTLET@5'
 12/3/2024 11:40:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E4L0082-15 (Soil)

PAH by EPA 8270E extracted via 3580A

Fluorene	ND		0.020	mg/kg	1	B4L0445	12/04/2024	12/09/2024	Ua
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	Ua
Naphthalene	ND		0.002	"	"	"	"	"	Ua
Pyrene	ND		0.020	"	"	"	"	"	Ua

Surrogate: Fluorene-d10	101 %		60-130			"	"	"	
Surrogate: Anthracene-d10	94.2 %		60-130			"	"	"	
Surrogate: Pyrene-d10	99.9 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	102 %		60-130			"	"	"	

pH in Soil by 9045D

pH	8.25			pH Units	1	B4L0424	12/04/2024	12/05/2024	
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SAR by 20B Saturated Paste

SAR	0.818		0.0100	SAR	1	B4L0415	12/04/2024	12/06/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.506		0.00500	mmhos/cm	1	B4L0424	12/04/2024	12/05/2024	
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Table 915 metals by EPA 6020B

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 Wheat Ridge CO 80033

Jeremy Espinoza
 Project Number: 09A1417837
 Project: KMG - Bane 2N3 27N 2N2 28N1-9HZ
 Facility

SEP03-OUTLET@5'
 12/3/2024 11:40:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
 E4L0082-15 (Soil)

Table 915 metals by EPA 6020B

Arsenic	5.58		0.268	mg/kg	10	B4L0358	12/03/2024	12/04/2024	
Barium	136		9.23	"	"	"	"	"	"
Cadmium	0.195		0.0923	"	"	"	"	"	"
Copper	12.7		9.23	"	"	"	"	"	"
Lead	11.0		0.923	"	"	"	"	"	"
Nickel	12.2		0.923	"	"	"	"	"	"
Selenium	ND		0.240	"	"	"	"	"	"
Silver	ND		0.0923	"	"	"	"	"	"
Zinc	56.0		34.1	"	"	"	"	"	"

Total Metals 7196A

Hexavalent Chromium	ND	0.157	0.393	mg/kg dry	1	2726715	01/02/2025	01/09/2025	U
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 Project Number: 09A1417837
 Project: KMG - Bane 2N3 27N 2N2 28N1-9HZ
 Facility

SEP04-OUTLET@5'
 12/3/2024 11:45:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E4L0082-16 (Soil)

Boron (DTPA Sorbitol)

Boron	0.438		0.0982	mg/L	1	B4L0409	12/04/2024	12/05/2024	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B4L0355	12/03/2024	12/04/2024	Ua
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	Ua

Surrogate: *o*-Terphenyl 58.6 % 50-150 " " "

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B4L0356	12/03/2024	12/04/2024	Ua
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	Ua
Benzene	ND		0.00200	"	"	"	"	"	Ua
Ethylbenzene	ND		0.00200	"	"	"	"	"	Ua
Toluene	ND		0.00200	"	"	"	"	"	Ua
Xylenes, total	ND		0.00200	"	"	"	"	"	Ua
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	Ua

Surrogate: 1,2-Dichloroethane-d4 122 % 70-130 " " "

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Jeremy Espinoza
 Project Number: 09A1417837
 Project: KMG - Bane 2N3 27N 2N2 28N1-9HZ
 Facility

SEP04-OUTLET@5'
 12/3/2024 11:45:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
 E4L0082-16 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	102 %		70-130			B4L03 56	12/03/2024	12/04/2024	
Surrogate: 4-Bromofluorobenzene	107 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	1.21		0.499	meq/L	10	[CALC]	12/04/2024	12/06/2024	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	1.68		0.435	"	"	"	"	"	

PAH by EPA 8270E extracted via 3580A

1-Methylnaphthalene	ND		0.002	mg/kg	1	B4L0445	12/04/2024	12/09/2024	Ua
2-Methylnaphthalene	ND		0.002	"	"	"	"	"	Ua
Acenaphthene	ND		0.020	"	"	"	"	"	Ua
Anthracene	ND		0.020	"	"	"	"	"	Ua
Benzo (a) anthracene	ND		0.005	"	"	"	"	"	Ua
Benzo (a) pyrene	ND		0.020	"	"	"	"	"	Ua
Benzo (b) fluoranthene	ND		0.020	"	"	"	"	"	Ua
Benzo (k) fluoranthene	ND		0.020	"	"	"	"	"	Ua
Chrysene	ND		0.020	"	"	"	"	"	Ua
Dibenz (a,h) anthracene	ND		0.020	"	"	"	"	"	Ua
Fluoranthene	ND		0.020	"	"	"	"	"	Ua

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 Wheat Ridge CO 80033

Jeremy Espinoza
 Project Number: 09A1417837
 Project: KMG - Bane 2N3 27N 2N2 28N1-9HZ
 Facility

SEP04-OUTLET@5'
 12/3/2024 11:45:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E4L0082-16 (Soil)

PAH by EPA 8270E extracted via 3580A

Fluorene	ND		0.020	mg/kg	1	B4L0445	12/04/2024	12/09/2024	Ua
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	Ua
Naphthalene	ND		0.002	"	"	"	"	"	Ua
Pyrene	ND		0.020	"	"	"	"	"	Ua

Surrogate: Fluorene-d10	102 %		60-130			"	"	"	
Surrogate: Anthracene-d10	93.0 %		60-130			"	"	"	
Surrogate: Pyrene-d10	102 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	101 %		60-130			"	"	"	

pH in Soil by 9045D

pH	8.41			pH Units	1	B4L0424	12/04/2024	12/05/2024	
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SAR by 20B Saturated Paste

SAR	1.68		0.0100	SAR	1	B4L0415	12/04/2024	12/06/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.440		0.00500	mmhos/cm	1	B4L0424	12/04/2024	12/05/2024	
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Table 915 metals by EPA 6020B

Origins Laboratory

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Ensolium
 11049 W 44th Avenue, Suite 103
 Wheat Ridge CO 80033

Jeremy Espinoza
 Project Number: 09A1417837
 Project: KMG - Bane 2N3 27N 2N2 28N1-9HZ
 Facility

SEP04-OUTLET@5'
 12/3/2024 11:45:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
 E4L0082-16 (Soil)

Table 915 metals by EPA 6020B

Arsenic	5.46		0.284	mg/kg	10	B4L0358	12/03/2024	12/04/2024	
Barium	198		9.80	"	"	"	"	"	"
Cadmium	0.211		0.0980	"	"	"	"	"	"
Copper	14.4		9.80	"	"	"	"	"	"
Lead	11.4		0.980	"	"	"	"	"	"
Nickel	14.5		0.980	"	"	"	"	"	"
Selenium	ND		0.255	"	"	"	"	"	"
Silver	ND		0.0980	"	"	"	"	"	"
Zinc	54.7		36.3	"	"	"	"	"	"

Total Metals 7196A

Hexavalent Chromium	ND	0.133	0.332	mg/kg dry	1	2726715	01/02/2025	01/09/2025	U
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Origins Laboratory

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Ensolium
 11049 W 44th Avenue, Suite 103
 Wheat Ridge CO 80033

Jeremy Espinoza
 Project Number: 09A1417837
 Project: KMG - Bane 2N3 27N 2N2 28N1-9HZ
 Facility

SEP05-OUTLET@5'
 12/3/2024 11:50:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
 E4L0082-17 (Soil)

Boron (DTPA Sorbitol)

Boron	0.265		0.101	mg/L	1	B4L0409	12/04/2024	12/05/2024	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B4L0355	12/03/2024	12/04/2024	Ua
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	Ua

Surrogate: o-Terphenyl	63.3 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B4L0356	12/03/2024	12/04/2024	Ua
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	Ua
Benzene	ND		0.00200	"	"	"	"	"	Ua
Ethylbenzene	ND		0.00200	"	"	"	"	"	Ua
Toluene	ND		0.00200	"	"	"	"	"	Ua
Xylenes, total	ND		0.00200	"	"	"	"	"	Ua
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	Ua

Surrogate: 1,2-Dichloroethane-d4	117 %		70-130			"	"	"	
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Origins Laboratory

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Ensolium
 11049 W 44th Avenue, Suite 103
 Wheat Ridge CO 80033

Jeremy Espinoza
 Project Number: 09A1417837
 Project: KMG - Bane 2N3 27N 2N2 28N1-9HZ
 Facility

SEP05-OUTLET@5'
 12/3/2024 11:50:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
 E4L0082-17 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	103 %		70-130			B4L03 56	12/03/2024	12/04/2024	
Surrogate: 4-Bromofluorobenzene	99.2 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	1.47		0.499	meq/L	10	[CALC]	12/04/2024	12/06/2024	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	0.888		0.435	"	"	"	"	"	

PAH by EPA 8270E extracted via 3580A

1-Methylnaphthalene	ND		0.002	mg/kg	1	B4L0445	12/04/2024	12/09/2024	Ua
2-Methylnaphthalene	ND		0.002	"	"	"	"	"	Ua
Acenaphthene	ND		0.020	"	"	"	"	"	Ua
Anthracene	ND		0.020	"	"	"	"	"	Ua
Benzo (a) anthracene	ND		0.005	"	"	"	"	"	Ua
Benzo (a) pyrene	ND		0.020	"	"	"	"	"	Ua
Benzo (b) fluoranthene	ND		0.020	"	"	"	"	"	Ua
Benzo (k) fluoranthene	ND		0.020	"	"	"	"	"	Ua
Chrysene	ND		0.020	"	"	"	"	"	Ua
Dibenz (a,h) anthracene	ND		0.020	"	"	"	"	"	Ua
Fluoranthene	ND		0.020	"	"	"	"	"	Ua

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 Wheat Ridge CO 80033

Jeremy Espinoza
 Project Number: 09A1417837
 Project: KMG - Bane 2N3 27N 2N2 28N1-9HZ
 Facility

SEP05-OUTLET@5'
 12/3/2024 11:50:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E4L0082-17 (Soil)

PAH by EPA 8270E extracted via 3580A

Fluorene	ND		0.020	mg/kg	1	B4L0445	12/04/2024	12/09/2024	Ua
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	Ua
Naphthalene	ND		0.002	"	"	"	"	"	Ua
Pyrene	ND		0.020	"	"	"	"	"	Ua

Surrogate: Fluorene-d10	97.1 %		60-130			"	"	"	
Surrogate: Anthracene-d10	107 %		60-130			"	"	"	
Surrogate: Pyrene-d10	97.0 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	102 %		60-130			"	"	"	

pH in Soil by 9045D

pH	8.28			pH Units	1	B4L0424	12/04/2024	12/05/2024	
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SAR by 20B Saturated Paste

SAR	0.840		0.0100	SAR	1	B4L0415	12/04/2024	12/06/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.436		0.00500	mmhos/cm	1	B4L0424	12/04/2024	12/05/2024	
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Table 915 metals by EPA 6020B

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 Wheat Ridge CO 80033

Jeremy Espinoza
 Project Number: 09A1417837
 Project: KMG - Bane 2N3 27N 2N2 28N1-9HZ
 Facility

SEP05-OUTLET@5'
 12/3/2024 11:50:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
 E4L0082-17 (Soil)

Table 915 metals by EPA 6020B

Arsenic	3.55		0.249	mg/kg	10	B4L0358	12/03/2024	12/04/2024	
Barium	112		8.60	"	"	"	"	"	"
Cadmium	0.119		0.0860	"	"	"	"	"	"
Copper	8.88		8.60	"	"	"	"	"	"
Lead	7.33		0.860	"	"	"	"	"	"
Nickel	8.53		0.860	"	"	"	"	"	"
Selenium	ND		0.224	"	"	"	"	"	"
Silver	ND		0.0860	"	"	"	"	"	"
Zinc	ND		31.8	"	"	"	"	"	"

Total Metals 7196A

Hexavalent Chromium	ND	0.0966	0.241	mg/kg dry	1	2726715	01/02/2025	01/09/2025	U
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 Project Number: 09A1417837
 Project: KMG - Bane 2N3 27N 2N2 28N1-9HZ
 Facility

SEP06-OUTLET@5'
 12/3/2024 11:55:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E4L0082-18 (Soil)

Boron (DTPA Sorbitol)

Boron	0.489		0.0983	mg/L	1	B4L0409	12/04/2024	12/05/2024	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B4L0355	12/03/2024	12/04/2024	Ua
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	Ua

Surrogate: o-Terphenyl	61.8 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B4L0356	12/03/2024	12/04/2024	Ua
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	Ua
Benzene	ND		0.00200	"	"	"	"	"	Ua
Ethylbenzene	ND		0.00200	"	"	"	"	"	Ua
Toluene	ND		0.00200	"	"	"	"	"	Ua
Xylenes, total	ND		0.00200	"	"	"	"	"	Ua
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	Ua

Surrogate: 1,2-Dichloroethane-d4	120 %		70-130			"	"	"	
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 Wheat Ridge CO 80033

Jeremy Espinoza
 Project Number: 09A1417837
 Project: KMG - Bane 2N3 27N 2N2 28N1-9HZ
 Facility

SEP06-OUTLET@5'
 12/3/2024 11:55:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
 E4L0082-18 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	102 %		70-130			B4L03 56	12/03/2024	12/04/2024	
Surrogate: 4-Bromofluorobenzene	98.3 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	1.33		0.499	meq/L	10	[CALC]	12/04/2024	12/06/2024	
Magnesium	0.865		0.823	"	"	"	"	"	
Sodium	1.14		0.435	"	"	"	"	"	

PAH by EPA 8270E extracted via 3580A

1-Methylnaphthalene	ND		0.002	mg/kg	1	B4L0445	12/04/2024	12/09/2024	Ua
2-Methylnaphthalene	ND		0.002	"	"	"	"	"	Ua
Acenaphthene	ND		0.020	"	"	"	"	"	Ua
Anthracene	ND		0.020	"	"	"	"	"	Ua
Benzo (a) anthracene	ND		0.005	"	"	"	"	"	Ua
Benzo (a) pyrene	ND		0.020	"	"	"	"	"	Ua
Benzo (b) fluoranthene	ND		0.020	"	"	"	"	"	Ua
Benzo (k) fluoranthene	ND		0.020	"	"	"	"	"	Ua
Chrysene	ND		0.020	"	"	"	"	"	Ua
Dibenz (a,h) anthracene	ND		0.020	"	"	"	"	"	Ua
Fluoranthene	ND		0.020	"	"	"	"	"	Ua

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 Wheat Ridge CO 80033

Jeremy Espinoza
 Project Number: 09A1417837
 Project: KMG - Bane 2N3 27N 2N2 28N1-9HZ
 Facility

SEP06-OUTLET@5'
 12/3/2024 11:55:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E4L0082-18 (Soil)

PAH by EPA 8270E extracted via 3580A

Fluorene	ND		0.020	mg/kg	1	B4L0445	12/04/2024	12/09/2024	Ua
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	Ua
Naphthalene	ND		0.002	"	"	"	"	"	Ua
Pyrene	ND		0.020	"	"	"	"	"	Ua

Surrogate: Fluorene-d10	102 %		60-130			"	"	"	
Surrogate: Anthracene-d10	101 %		60-130			"	"	"	
Surrogate: Pyrene-d10	101 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	97.6 %		60-130			"	"	"	

pH in Soil by 9045D

pH	8.31			pH Units	1	B4L0424	12/04/2024	12/05/2024	
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SAR by 20B Saturated Paste

SAR	1.08		0.0100	SAR	1	B4L0415	12/04/2024	12/06/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.415		0.00500	mmhos/cm	1	B4L0424	12/04/2024	12/05/2024	
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Table 915 metals by EPA 6020B

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 11049 W 44th Avenue, Suite 103
 Wheat Ridge CO 80033

Jeremy Espinoza
 Project Number: 09A1417837
 Project: KMG - Bane 2N3 27N 2N2 28N1-9HZ
 Facility

SEP06-OUTLET@5'
 12/3/2024 11:55:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
 E4L0082-18 (Soil)

Table 915 metals by EPA 6020B

Arsenic	6.79		0.280	mg/kg	10	B4L0358	12/03/2024	12/04/2024	
Barium	140		9.64	"	"	"	"	"	"
Cadmium	0.252		0.0964	"	"	"	"	"	"
Copper	13.7		9.64	"	"	"	"	"	"
Lead	11.5		0.964	"	"	"	"	"	"
Nickel	14.6		0.964	"	"	"	"	"	"
Selenium	ND		0.251	"	"	"	"	"	"
Silver	ND		0.0964	"	"	"	"	"	"
Zinc	55.4		35.7	"	"	"	"	"	"

Total Metals 7196A

Hexavalent Chromium	ND	0.122	0.306	mg/kg dry	1	2726715	01/02/2025	01/09/2025	U
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 Wheat Ridge CO 80033

Jeremy Espinoza
 Project Number: 09A1417837
 Project: KMG - Bane 2N3 27N 2N2 28N1-9HZ
 Facility

SEP07-OUTLET@5'
 12/3/2024 12:00:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
 E4L0082-19 (Soil)

Boron (DTPA Sorbitol)

Boron	0.486		0.101	mg/L	1	B4L0409	12/04/2024	12/05/2024	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B4L0355	12/03/2024	12/04/2024	Ua
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	Ua

Surrogate: o-Terphenyl	50.2 %		50-150			"	"	"	S-DUP
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B4L0356	12/03/2024	12/04/2024	Ua
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	Ua
Benzene	ND		0.00200	"	"	"	"	"	Ua
Ethylbenzene	ND		0.00200	"	"	"	"	"	Ua
Toluene	ND		0.00200	"	"	"	"	"	Ua
Xylenes, total	ND		0.00200	"	"	"	"	"	Ua
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	Ua

Surrogate: 1,2-Dichloroethane-d4	120 %		70-130			"	"	"	
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 Wheat Ridge CO 80033

Jeremy Espinoza
 Project Number: 09A1417837
 Project: KMG - Bane 2N3 27N 2N2 28N1-9HZ
 Facility

SEP07-OUTLET@5'
 12/3/2024 12:00:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E4L0082-19 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	102 %		70-130			B4L03 56	12/03/2024	12/04/2024	
Surrogate: 4-Bromofluorobenzene	99.0 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	1.25		0.499	meq/L	10	[CALC]	12/04/2024	12/06/2024	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	0.983		0.435	"	"	"	"	"	

PAH by EPA 8270E extracted via 3580A

1-Methylnaphthalene	ND		0.002	mg/kg	1	B4L0445	12/04/2024	12/09/2024	Ua
2-Methylnaphthalene	ND		0.002	"	"	"	"	"	Ua
Acenaphthene	ND		0.020	"	"	"	"	"	Ua
Anthracene	ND		0.020	"	"	"	"	"	Ua
Benzo (a) anthracene	ND		0.005	"	"	"	"	"	Ua
Benzo (a) pyrene	ND		0.020	"	"	"	"	"	Ua
Benzo (b) fluoranthene	ND		0.020	"	"	"	"	"	Ua
Benzo (k) fluoranthene	ND		0.020	"	"	"	"	"	Ua
Chrysene	ND		0.020	"	"	"	"	"	Ua
Dibenz (a,h) anthracene	ND		0.020	"	"	"	"	"	Ua
Fluoranthene	ND		0.020	"	"	"	"	"	Ua

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 Wheat Ridge CO 80033

Jeremy Espinoza
 Project Number: 09A1417837
 Project: KMG - Bane 2N3 27N 2N2 28N1-9HZ
 Facility

SEP07-OUTLET@5'
 12/3/2024 12:00:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E4L0082-19 (Soil)

PAH by EPA 8270E extracted via 3580A

Fluorene	ND		0.020	mg/kg	1	B4L0445	12/04/2024	12/09/2024	Ua
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	Ua
Naphthalene	ND		0.002	"	"	"	"	"	Ua
Pyrene	ND		0.020	"	"	"	"	"	Ua

Surrogate: Fluorene-d10	99.7 %	60-130	"	"	"	"	"	"	"
Surrogate: Anthracene-d10	107 %	60-130	"	"	"	"	"	"	"
Surrogate: Pyrene-d10	103 %	60-130	"	"	"	"	"	"	"
Surrogate: Benzo (a) pyrene-d12	109 %	60-130	"	"	"	"	"	"	"

pH in Soil by 9045D

pH	8.38			pH Units	1	B4L0424	12/04/2024	12/05/2024	
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SAR by 20B Saturated Paste

SAR	1.01		0.0100	SAR	1	B4L0415	12/04/2024	12/06/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.322		0.00500	mmhos/cm	1	B4L0424	12/04/2024	12/05/2024	
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Table 915 metals by EPA 6020B

Origins Laboratory

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Ensolium
 11049 W 44th Avenue, Suite 103
 Wheat Ridge CO 80033

Jeremy Espinoza
 Project Number: 09A1417837
 Project: KMG - Bane 2N3 27N 2N2 28N1-9HZ
 Facility

SEP07-OUTLET@5'
 12/3/2024 12:00:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
 E4L0082-19 (Soil)

Table 915 metals by EPA 6020B

Arsenic	5.57		0.255	mg/kg	10	B4L0358	12/03/2024	12/04/2024	
Barium	254		8.78	"	"	"	"	"	"
Cadmium	0.219		0.0878	"	"	"	"	"	"
Copper	15.0		8.78	"	"	"	"	"	"
Lead	10.8		0.878	"	"	"	"	"	"
Nickel	14.9		0.878	"	"	"	"	"	"
Selenium	0.253		0.228	"	"	"	"	"	"
Silver	ND		0.0878	"	"	"	"	"	"
Zinc	56.4		32.5	"	"	"	"	"	"

Total Metals 7196A

Hexavalent Chromium	ND	0.150	0.376	mg/kg dry	1	2726715	01/02/2025	01/09/2025	U
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Origins Laboratory

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 Wheat Ridge CO 80033

Jeremy Espinoza
 Project Number: 09A1417837
 Project: KMG - Bane 2N3 27N 2N2 28N1-9HZ
 Facility

SEP08-OUTLET@5'
 12/3/2024 12:05:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E4L0082-20 (Soil)

Boron (DTPA Sorbitol)

Boron	0.455		0.0999	mg/L	1	B4L0409	12/04/2024	12/05/2024	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B4L0355	12/03/2024	12/04/2024	Ua
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	Ua

Surrogate: o-Terphenyl	67.4 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B4L0356	12/03/2024	12/04/2024	Ua
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	Ua
Benzene	ND		0.00200	"	"	"	"	"	Ua
Ethylbenzene	ND		0.00200	"	"	"	"	"	Ua
Toluene	ND		0.00200	"	"	"	"	"	Ua
Xylenes, total	ND		0.00200	"	"	"	"	"	Ua
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	Ua

Surrogate: 1,2-Dichloroethane-d4	118 %		70-130			"	"	"	
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Ensolium
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 Wheat Ridge CO 80033

Jeremy Espinoza
 Project Number: 09A1417837
 Project: KMG - Bane 2N3 27N 2N2 28N1-9HZ
 Facility

SEP08-OUTLET@5'
 12/3/2024 12:05:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
 E4L0082-20 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	103 %		70-130			B4L03 56	12/03/2024	12/04/2024	
Surrogate: 4-Bromofluorobenzene	99.9 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	1.58		0.499	meq/L	10	[CALC]	12/04/2024	12/06/2024	
Magnesium	0.946		0.823	"	"	"	"	"	
Sodium	1.54		0.435	"	"	"	"	"	

PAH by EPA 8270E extracted via 3580A

1-Methylnaphthalene	ND		0.002	mg/kg	1	B4L0445	12/04/2024	12/09/2024	Ua
2-Methylnaphthalene	ND		0.002	"	"	"	"	"	Ua
Acenaphthene	ND		0.020	"	"	"	"	"	Ua
Anthracene	ND		0.020	"	"	"	"	"	Ua
Benzo (a) anthracene	ND		0.005	"	"	"	"	"	Ua
Benzo (a) pyrene	ND		0.020	"	"	"	"	"	Ua
Benzo (b) fluoranthene	ND		0.020	"	"	"	"	"	Ua
Benzo (k) fluoranthene	ND		0.020	"	"	"	"	"	Ua
Chrysene	ND		0.020	"	"	"	"	"	Ua
Dibenz (a,h) anthracene	ND		0.020	"	"	"	"	"	Ua
Fluoranthene	ND		0.020	"	"	"	"	"	Ua

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 Wheat Ridge CO 80033

Jeremy Espinoza
 Project Number: 09A1417837
 Project: KMG - Bane 2N3 27N 2N2 28N1-9HZ
 Facility

SEP08-OUTLET@5'
 12/3/2024 12:05:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
 E4L0082-20 (Soil)

PAH by EPA 8270E extracted via 3580A

Fluorene	ND		0.020	mg/kg	1	B4L0445	12/04/2024	12/09/2024	Ua
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	Ua
Naphthalene	ND		0.002	"	"	"	"	"	Ua
Pyrene	ND		0.020	"	"	"	"	"	Ua

Surrogate: Fluorene-d10	108 %		60-130			"	"	"	
Surrogate: Anthracene-d10	108 %		60-130			"	"	"	
Surrogate: Pyrene-d10	92.6 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	109 %		60-130			"	"	"	

pH in Soil by 9045D

pH	8.32			pH Units	1	B4L0424	12/04/2024	12/05/2024	
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SAR by 20B Saturated Paste

SAR	1.37		0.0100	SAR	1	B4L0415	12/04/2024	12/06/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.516		0.00500	mmhos/cm	1	B4L0424	12/04/2024	12/05/2024	
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Table 915 metals by EPA 6020B

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Ensolium
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 Wheat Ridge CO 80033

Jeremy Espinoza
 Project Number: 09A1417837
 Project: KMG - Bane 2N3 27N 2N2 28N1-9HZ
 Facility

SEP08-OUTLET@5'
 12/3/2024 12:05:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
 E4L0082-20 (Soil)

Table 915 metals by EPA 6020B

Arsenic	5.38		0.272	mg/kg	10	B4L0358	12/03/2024	12/04/2024	
Barium	164		9.39	"	"	"	"	"	"
Cadmium	0.217		0.0939	"	"	"	"	"	"
Copper	14.6		9.39	"	"	"	"	"	"
Lead	11.0		0.939	"	"	"	"	"	"
Nickel	13.8		0.939	"	"	"	"	"	"
Selenium	ND		0.244	"	"	"	"	"	"
Silver	ND		0.0939	"	"	"	"	"	"
Zinc	52.1		34.7	"	"	"	"	"	"

Total Metals 7196A

Hexavalent Chromium	ND	0.126	0.316	mg/kg dry	1	2726715	01/02/2025	01/09/2025	U
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 Wheat Ridge CO 80033

Jeremy Espinoza
 Project Number: 09A1417837
 Project: KMG - Bane 2N3 27N 2N2 28N1-9HZ
 Facility

TB-BG01@0.5'
12/3/2024 9:15:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E4L0082-21 (Soil)

Boron (DTPA Sorbitol)

Boron	ND		0.0994	mg/L	1	B4L0409	12/04/2024	12/05/2024	
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Metals by Saturated Paste by EPA 6010

Calcium	0.881		0.499	meq/L	10	[CALC]	12/04/2024	12/09/2024	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	ND		0.435	"	"	"	"	"	

pH in Soil by 9045D

pH	8.34			pH Units	1	B4L0425	12/04/2024	12/06/2024	
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SAR by 20B Saturated Paste

SAR	0.379		0.0100	SAR	1	B4L0417	12/04/2024	12/09/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.145		0.00500	mmhos/cm	1	B4L0425	12/04/2024	12/06/2024	
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Table 915 metals by EPA 6020B

Arsenic	2.51		0.285	mg/kg	10	B4L0358	12/03/2024	12/04/2024	
Barium	49.5		9.82	"	"	"	"	"	
Cadmium	ND		0.0982	"	"	"	"	"	

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 Wheat Ridge CO 80033

Jeremy Espinoza
 Project Number: 09A1417837
 Project: KMG - Bane 2N3 27N 2N2 28N1-9HZ
 Facility

TB-BG01@0.5'
12/3/2024 9:15:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E4L0082-21 (Soil)

Table 915 metals by EPA 6020B

Copper	ND		9.82	mg/kg	10	B4L0358	12/03/2024	12/04/2024	
Lead	4.74		0.982	"	"	"	"	"	"
Nickel	5.45		0.982	"	"	"	"	"	"
Selenium	ND		0.255	"	"	"	"	"	"
Silver	ND		0.0982	"	"	"	"	"	"
Zinc	ND		36.3	"	"	"	"	"	"

Total Metals 7196A

Hexavalent Chromium	ND	0.110	0.274	mg/kg dry	1	2726717	01/02/2025	01/09/2025	U
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 Wheat Ridge CO 80033

Jeremy Espinoza
 Project Number: 09A1417837
 Project: KMG - Bane 2N3 27N 2N2 28N1-9HZ
 Facility

NATIVE-BG01@3'
12/3/2024 1:07:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E4L0082-22 (Soil)

Boron (DTPA Sorbitol)

Boron	0.207		0.0997	mg/L	1	B4L0409	12/04/2024	12/05/2024	
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Metals by Saturated Paste by EPA 6010

Calcium	0.987		0.499	meq/L	10	[CALC]	12/04/2024	12/09/2024	
Magnesium	1.25		0.823	"	"	"	"	"	"
Sodium	0.991		0.435	"	"	"	"	"	"

pH in Soil by 9045D

pH	8.42			pH Units	1	B4L0425	12/04/2024	12/06/2024	
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SAR by 20B Saturated Paste

SAR	0.937		0.0100	SAR	1	B4L0417	12/04/2024	12/09/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.306		0.00500	mmhos/cm	1	B4L0425	12/04/2024	12/06/2024	
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Table 915 metals by EPA 6020B

Arsenic	5.62		0.275	mg/kg	10	B4L0358	12/03/2024	12/04/2024	
Barium	160		9.47	"	"	"	"	"	"
Cadmium	0.209		0.0947	"	"	"	"	"	"
Copper	15.0		9.47	"	"	"	"	"	"

Origins Laboratory

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 11049 W 44th Avenue, Suite 103
 Wheat Ridge CO 80033

Jeremy Espinoza
 Project Number: 09A1417837
 Project: KMG - Bane 2N3 27N 2N2 28N1-9HZ
 Facility

NATIVE-BG01@3'
12/3/2024 1:07:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E4L0082-22 (Soil)

Table 915 metals by EPA 6020B

Lead	12.0		0.947	mg/kg	10	B4L0358	12/03/2024	12/04/2024	
Nickel	15.2		0.947	"	"	"	"	"	"
Selenium	0.300		0.246	"	"	"	"	"	"
Silver	ND		0.0947	"	"	"	"	"	"
Zinc	54.9		35.0	"	"	"	"	"	"

Total Metals 7196A

Hexavalent Chromium	ND	0.139	0.347	mg/kg dry	1	2726717	01/02/2025	01/09/2025	U
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 11049 W 44th Avenue, Suite 103
 Wheat Ridge CO 80033

Jeremy Espinoza
 Project Number: 09A1417837
 Project: KMG - Bane 2N3 27N 2N2 28N1-9HZ
 Facility

NATIVE-BG01@6'
12/3/2024 1:10:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E4L0082-23 (Soil)

Boron (DTPA Sorbitol)

Boron	0.446		0.0994	mg/L	1	B4L0409	12/04/2024	12/05/2024	
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Metals by Saturated Paste by EPA 6010

Calcium	30.1		0.499	meq/L	10	[CALC]	12/04/2024	12/09/2024	
Magnesium	12.2		0.823	"	"	"	"	"	"
Sodium	10.5		0.435	"	"	"	"	"	"

pH in Soil by 9045D

pH	7.92			pH Units	1	B4L0425	12/04/2024	12/06/2024	
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SAR by 20B Saturated Paste

SAR	2.28		0.0100	SAR	1	B4L0417	12/04/2024	12/09/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	3.59		0.00500	mmhos/cm	1	B4L0425	12/04/2024	12/06/2024	
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Table 915 metals by EPA 6020B

Arsenic	4.79		0.253	mg/kg	10	B4L0358	12/03/2024	12/04/2024	
Barium	167		8.72	"	"	"	"	"	"
Cadmium	0.179		0.0872	"	"	"	"	"	"
Copper	13.4		8.72	"	"	"	"	"	"

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Ensolium
11049 W 44th Avenue, Suite 103
Wheat Ridge CO 80033

Jeremy Espinoza
Project Number: 09A1417837
Project: KMG - Bane 2N3 27N 2N2 28N1-9HZ
Facility

NATIVE-BG01@6'
12/3/2024 1:10:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E4L0082-23 (Soil)

Table 915 metals by EPA 6020B

Lead	10.2		0.872	mg/kg	10	B4L0358	12/03/2024	12/04/2024	
Nickel	13.5		0.872	"	"	"	"	"	"
Selenium	ND		0.227	"	"	"	"	"	"
Silver	ND		0.0872	"	"	"	"	"	"
Zinc	48.6		32.3	"	"	"	"	"	"

Total Metals 7196A

Hexavalent Chromium	ND	0.131	0.328	mg/kg dry	1	2726717	01/02/2025	01/09/2025	U
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Jeremy Espinoza
 Project Number: 09A1417837
 Project: KMG - Bane 2N3 27N 2N2 28N1-9HZ
 Facility

NATIVE-BG02@3'
12/3/2024 10:45:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E4L0082-24 (Soil)

Boron (DTPA Sorbitol)

Boron	0.400		0.0982	mg/L	1	B4L0409	12/04/2024	12/05/2024	
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Metals by Saturated Paste by EPA 6010

Calcium	3.19		0.499	meq/L	10	[CALC]	12/04/2024	12/09/2024	
Magnesium	2.75		0.823	"	"	"	"	"	"
Sodium	5.16		0.435	"	"	"	"	"	"

pH in Soil by 9045D

pH	8.17			pH Units	1	B4L0425	12/04/2024	12/06/2024	
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SAR by 20B Saturated Paste

SAR	2.99		0.0100	SAR	1	B4L0417	12/04/2024	12/09/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	1.09		0.00500	mmhos/cm	1	B4L0425	12/04/2024	12/06/2024	
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Table 915 metals by EPA 6020B

Arsenic	5.69		0.260	mg/kg	10	B4L0358	12/03/2024	12/04/2024	
Barium	556		8.96	"	"	"	"	"	"
Cadmium	0.213		0.0896	"	"	"	"	"	"
Copper	17.3		8.96	"	"	"	"	"	"

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 11049 W 44th Avenue, Suite 103
 Wheat Ridge CO 80033

Jeremy Espinoza
 Project Number: 09A1417837
 Project: KMG - Bane 2N3 27N 2N2 28N1-9HZ
 Facility

NATIVE-BG02@3'
12/3/2024 10:45:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E4L0082-24 (Soil)

Table 915 metals by EPA 6020B

Lead	11.6		0.896	mg/kg	10	B4L0358	12/03/2024	12/04/2024	
Nickel	15.8		0.896	"	"	"	"	"	"
Selenium	ND		0.233	"	"	"	"	"	"
Silver	ND		0.0896	"	"	"	"	"	"
Zinc	60.2		33.1	"	"	"	"	"	"

Total Metals 7196A

Hexavalent Chromium	ND	0.139	0.348	mg/kg dry	1	2726717	01/02/2025	01/09/2025	U
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Origins Laboratory

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Ensolium
 11049 W 44th Avenue, Suite 103
 Wheat Ridge CO 80033

Jeremy Espinoza
 Project Number: 09A1417837
 Project: KMG - Bane 2N3 27N 2N2 28N1-9HZ
 Facility

NATIVE-BG02@6'
12/3/2024 10:50:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E4L0082-25 (Soil)

Boron (DTPA Sorbitol)

Boron	0.575		0.101	mg/L	1	B4L0409	12/04/2024	12/05/2024	
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Metals by Saturated Paste by EPA 6010

Calcium	6.82		0.499	meq/L	10	[CALC]	12/04/2024	12/09/2024	
Magnesium	7.04		0.823	"	"	"	"	"	"
Sodium	8.67		0.435	"	"	"	"	"	"

pH in Soil by 9045D

pH	8.05			pH Units	1	B4L0425	12/04/2024	12/06/2024	
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SAR by 20B Saturated Paste

SAR	3.29		0.0100	SAR	1	B4L0417	12/04/2024	12/09/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	2.00		0.00500	mmhos/cm	1	B4L0425	12/04/2024	12/06/2024	
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Table 915 metals by EPA 6020B

Arsenic	5.35		0.266	mg/kg	10	B4L0358	12/03/2024	12/04/2024	
Barium	179		9.17	"	"	"	"	"	"
Cadmium	0.236		0.0917	"	"	"	"	"	"
Copper	19.7		9.17	"	"	"	"	"	"

Origins Laboratory

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Ensolium
11049 W 44th Avenue, Suite 103
Wheat Ridge CO 80033

Jeremy Espinoza
Project Number: 09A1417837
Project: KMG - Bane 2N3 27N 2N2 28N1-9HZ
Facility

NATIVE-BG02@6'
12/3/2024 10:50:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E4L0082-25 (Soil)

Table 915 metals by EPA 6020B

Lead	11.6		0.917	mg/kg	10	B4L0358	12/03/2024	12/04/2024	
Nickel	14.8		0.917	"	"	"	"	"	"
Selenium	0.239		0.238	"	"	"	"	"	"
Silver	ND		0.0917	"	"	"	"	"	"
Zinc	62.9		33.9	"	"	"	"	"	"

Total Metals 7196A

Hexavalent Chromium	ND	0.181	0.451	mg/kg dry	1	2726717	01/02/2025	01/09/2025	U
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Origins Laboratory

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Ensolium
 11049 W 44th Avenue, Suite 103
 Wheat Ridge CO 80033

Jeremy Espinoza
 Project Number: 09A1417837
 Project: KMG - Bane 2N3 27N 2N2 28N1-9HZ
 Facility

NATIVE-BG03@3'
12/3/2024 1:12:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E4L0082-26 (Soil)

Boron (DTPA Sorbitol)

Boron	0.442		0.0993	mg/L	1	B4L0409	12/04/2024	12/05/2024	
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Metals by Saturated Paste by EPA 6010

Calcium	7.28		0.499	meq/L	10	[CALC]	12/04/2024	12/09/2024	
Magnesium	6.30		0.823	"	"	"	"	"	"
Sodium	13.1		0.435	"	"	"	"	"	"

pH in Soil by 9045D

pH	8.15			pH Units	1	B4L0425	12/04/2024	12/06/2024	
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SAR by 20B Saturated Paste

SAR	5.03		0.0100	SAR	1	B4L0417	12/04/2024	12/09/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	2.18		0.00500	mmhos/cm	1	B4L0425	12/04/2024	12/06/2024	
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Table 915 metals by EPA 6020B

Arsenic	5.85		0.250	mg/kg	10	B4L0359	12/03/2024	12/04/2024	
Barium	162		8.61	"	"	"	"	"	"
Cadmium	0.233		0.0861	"	"	"	"	"	"
Copper	15.8		8.61	"	"	"	"	"	"

Origins Laboratory

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Ensolium
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 Wheat Ridge CO 80033

Jeremy Espinoza
 Project Number: 09A1417837
 Project: KMG - Bane 2N3 27N 2N2 28N1-9HZ
 Facility

NATIVE-BG03@3'

12/3/2024 1:12:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory

E4L0082-26 (Soil)

Table 915 metals by EPA 6020B

Lead	12.1		0.861	mg/kg	10	B4L0359	12/03/2024	12/04/2024	
Nickel	16.6		0.861	"	"	"	"	"	
Selenium	0.319		0.224	"	"	"	"	"	
Silver	ND		0.0861	"	"	"	"	"	
Zinc	56.4		31.8	"	"	"	"	"	

Total Metals 7196A

Hexavalent Chromium	ND	0.147	0.368	mg/kg dry	1	2726717	01/02/2025	01/09/2025	U
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Ensolium
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 Wheat Ridge CO 80033

Jeremy Espinoza
 Project Number: 09A1417837
 Project: KMG - Bane 2N3 27N 2N2 28N1-9HZ
 Facility

NATIVE-BG03@6'
12/3/2024 1:15:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E4L0082-27 (Soil)

Boron (DTPA Sorbitol)

Boron	0.571		0.0984	mg/L	1	B4L0409	12/04/2024	12/05/2024	
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Metals by Saturated Paste by EPA 6010

Calcium	9.50		0.499	meq/L	10	[CALC]	12/04/2024	12/09/2024	
Magnesium	14.6		0.823	"	"	"	"	"	"
Sodium	11.6		0.435	"	"	"	"	"	"

pH in Soil by 9045D

pH	8.04			pH Units	1	B4L0425	12/04/2024	12/06/2024	
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SAR by 20B Saturated Paste

SAR	3.35		0.0100	SAR	1	B4L0417	12/04/2024	12/09/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	3.31		0.00500	mmhos/cm	1	B4L0425	12/04/2024	12/06/2024	
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Table 915 metals by EPA 6020B

Arsenic	5.55		0.245	mg/kg	10	B4L0359	12/03/2024	12/04/2024	
Barium	213		8.46	"	"	"	"	"	"
Cadmium	0.206		0.0846	"	"	"	"	"	"
Copper	17.2		8.46	"	"	"	"	"	"

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 Wheat Ridge CO 80033

Jeremy Espinoza
 Project Number: 09A1417837
 Project: KMG - Bane 2N3 27N 2N2 28N1-9HZ
 Facility

NATIVE-BG03@6'
12/3/2024 1:15:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E4L0082-27 (Soil)

Table 915 metals by EPA 6020B

Lead	12.6		0.846	mg/kg	10	B4L0359	12/03/2024	12/04/2024	
Nickel	17.0		0.846	"	"	"	"	"	"
Selenium	0.220		0.220	"	"	"	"	"	"
Silver	ND		0.0846	"	"	"	"	"	"
Zinc	61.8		31.3	"	"	"	"	"	"

Total Metals 7196A

Hexavalent Chromium	ND	0.176	0.439	mg/kg dry	1	2726717	01/02/2025	01/09/2025	U
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Jeremy Espinoza
 Project Number: 09A1417837
 Project: KMG - Bane 2N3 27N 2N2 28N1-9HZ
 Facility

NATIVE-BG04@3'
12/3/2024 2:25:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E4L0082-28 (Soil)

Boron (DTPA Sorbitol)

Boron	0.629		0.0987	mg/L	1	B4L0409	12/04/2024	12/05/2024	
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Metals by Saturated Paste by EPA 6010

Calcium	2.94		0.499	meq/L	10	[CALC]	12/04/2024	12/09/2024	
Magnesium	4.10		0.823	"	"	"	"	"	"
Sodium	8.49		0.435	"	"	"	"	"	"

pH in Soil by 9045D

pH	8.29			pH Units	1	B4L0425	12/04/2024	12/06/2024	
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SAR by 20B Saturated Paste

SAR	4.53		0.0100	SAR	1	B4L0417	12/04/2024	12/09/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	1.53		0.00500	mmhos/cm	1	B4L0425	12/04/2024	12/06/2024	
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Table 915 metals by EPA 6020B

Arsenic	5.47		0.260	mg/kg	10	B4L0359	12/03/2024	12/04/2024	
Barium	207		8.98	"	"	"	"	"	"
Cadmium	0.228		0.0898	"	"	"	"	"	"
Copper	16.3		8.98	"	"	"	"	"	"

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 Wheat Ridge CO 80033

Jeremy Espinoza
 Project Number: 09A1417837
 Project: KMG - Bane 2N3 27N 2N2 28N1-9HZ
 Facility

NATIVE-BG04@3'

12/3/2024 2:25:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory

E4L0082-28 (Soil)

Table 915 metals by EPA 6020B

Lead	12.3		0.898	mg/kg	10	B4L0359	12/03/2024	12/04/2024	
Nickel	16.0		0.898	"	"	"	"	"	
Selenium	ND		0.233	"	"	"	"	"	
Silver	ND		0.0898	"	"	"	"	"	
Zinc	59.5		33.2	"	"	"	"	"	

Total Metals 7196A

Hexavalent Chromium	ND	0.148	0.371	mg/kg dry	1	2726717	01/02/2025	01/09/2025	U
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Jeremy Espinoza
 Project Number: 09A1417837
 Project: KMG - Bane 2N3 27N 2N2 28N1-9HZ
 Facility

NATIVE-BG04@6'
12/3/2024 2:30:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E4L0082-29 (Soil)

Boron (DTPA Sorbitol)

Boron	2.11		0.0996	mg/L	1	B4L0409	12/04/2024	12/05/2024	
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Metals by Saturated Paste by EPA 6010

Calcium	35.7		0.499	meq/L	10	[CALC]	12/04/2024	12/09/2024	
Magnesium	30.3		0.823	"	"	"	"	"	"
Sodium	25.6		0.435	"	"	"	"	"	"

pH in Soil by 9045D

pH	7.87			pH Units	1	B4L0425	12/04/2024	12/06/2024	
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SAR by 20B Saturated Paste

SAR	4.45		0.0100	SAR	1	B4L0417	12/04/2024	12/09/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	6.73		0.00500	mmhos/cm	1	B4L0425	12/04/2024	12/06/2024	
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Table 915 metals by EPA 6020B

Arsenic	6.46		0.262	mg/kg	10	B4L0359	12/03/2024	12/04/2024	
Barium	194		9.04	"	"	"	"	"	"
Cadmium	0.192		0.0904	"	"	"	"	"	"
Copper	20.5		9.04	"	"	"	"	"	"

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Ensolium
 11049 W 44th Avenue, Suite 103
 Wheat Ridge CO 80033

Jeremy Espinoza
 Project Number: 09A1417837
 Project: KMG - Bane 2N3 27N 2N2 28N1-9HZ
 Facility

NATIVE-BG04@6'
12/3/2024 2:30:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E4L0082-29 (Soil)

Table 915 metals by EPA 6020B

Lead	11.4		0.904	mg/kg	10	B4L0359	12/03/2024	12/04/2024	
Nickel	15.3		0.904	"	"	"	"	"	"
Selenium	ND		0.235	"	"	"	"	"	"
Silver	ND		0.0904	"	"	"	"	"	"
Zinc	62.5		33.4	"	"	"	"	"	"

Total Metals 7196A

Hexavalent Chromium	ND	0.165	0.412	mg/kg dry	1	2726717	01/02/2025	01/09/2025	U
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 11049 W 44th Avenue, Suite 103
 Wheat Ridge CO 80033

Jeremy Espinoza
 Project Number: 09A1417837
 Project: KMG - Bane 2N3 27N 2N2 28N1-9HZ
 Facility

NATIVE-BG05@3'
12/3/2024 2:35:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E4L0082-30 (Soil)

Boron (DTPA Sorbitol)

Boron	0.482		0.101	mg/L	1	B4L0409	12/04/2024	12/05/2024	
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Metals by Saturated Paste by EPA 6010

Calcium	10.7		0.499	meq/L	10	[CALC]	12/04/2024	12/09/2024	
Magnesium	4.99		0.823	"	"	"	"	"	
Sodium	8.40		0.435	"	"	"	"	"	

pH in Soil by 9045D

pH	7.93			pH Units	1	B4L0425	12/04/2024	12/06/2024	
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SAR by 20B Saturated Paste

SAR	2.99		0.0100	SAR	1	B4L0417	12/04/2024	12/09/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	2.02		0.00500	mmhos/cm	1	B4L0425	12/04/2024	12/06/2024	
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Table 915 metals by EPA 6020B

Arsenic	4.24		0.258	mg/kg	10	B4L0359	12/03/2024	12/04/2024	
Barium	172		8.90	"	"	"	"	"	
Cadmium	0.236		0.0890	"	"	"	"	"	
Copper	16.4		8.90	"	"	"	"	"	

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Ensolium
 11049 W 44th Avenue, Suite 103
 Wheat Ridge CO 80033

Jeremy Espinoza
 Project Number: 09A1417837
 Project: KMG - Bane 2N3 27N 2N2 28N1-9HZ
 Facility

NATIVE-BG05@3'
12/3/2024 2:35:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E4L0082-30 (Soil)

Table 915 metals by EPA 6020B

Lead	13.9		0.890	mg/kg	10	B4L0359	12/03/2024	12/04/2024	
Nickel	10.5		0.890	"	"	"	"	"	"
Selenium	ND		0.231	"	"	"	"	"	"
Silver	0.137		0.0890	"	"	"	"	"	"
Zinc	51.7		32.9	"	"	"	"	"	"

Total Metals 7196A

Hexavalent Chromium	ND	0.138	0.345	mg/kg dry	1	2726717	01/02/2025	01/09/2025	U
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 11049 W 44th Avenue, Suite 103
 Wheat Ridge CO 80033

Jeremy Espinoza
 Project Number: 09A1417837
 Project: KMG - Bane 2N3 27N 2N2 28N1-9HZ
 Facility

NATIVE-BG05@6'
12/3/2024 2:40:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E4L0082-31 (Soil)

Boron (DTPA Sorbitol)

Boron	0.616		0.101	mg/L	1	B4L0409	12/04/2024	12/05/2024	
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Metals by Saturated Paste by EPA 6010

Calcium	10.4		0.499	meq/L	10	[CALC]	12/04/2024	12/09/2024	
Magnesium	4.59		0.823	"	"	"	"	"	"
Sodium	10.5		0.435	"	"	"	"	"	"

pH in Soil by 9045D

pH	7.99			pH Units	1	B4L0425	12/04/2024	12/06/2024	
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SAR by 20B Saturated Paste

SAR	3.85		0.0100	SAR	1	B4L0417	12/04/2024	12/09/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	2.22		0.00500	mmhos/cm	1	B4L0425	12/04/2024	12/06/2024	
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Table 915 metals by EPA 6020B

Arsenic	3.10		0.279	mg/kg	10	B4L0359	12/03/2024	12/04/2024	
Barium	347		9.63	"	"	"	"	"	"
Cadmium	0.187		0.0963	"	"	"	"	"	"
Copper	11.0		9.63	"	"	"	"	"	"

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Ensolium
 11049 W 44th Avenue, Suite 103
 Wheat Ridge CO 80033

Jeremy Espinoza
 Project Number: 09A1417837
 Project: KMG - Bane 2N3 27N 2N2 28N1-9HZ
 Facility

NATIVE-BG05@6'
12/3/2024 2:40:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E4L0082-31 (Soil)

Table 915 metals by EPA 6020B

Lead	10.0		0.963	mg/kg	10	B4L0359	12/03/2024	12/04/2024	
Nickel	10.5		0.963	"	"	"	"	"	"
Selenium	ND		0.250	"	"	"	"	"	"
Silver	ND		0.0963	"	"	"	"	"	"
Zinc	42.8		35.6	"	"	"	"	"	"

Origins Laboratory

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Ensolium
 11049 W 44th Avenue, Suite 103
 Wheat Ridge CO 80033

Jeremy Espinoza
 Project Number: 09A1417837
 Project: KMG - Bane 2N3 27N 2N2 28N1-9HZ
 Facility

NATIVE-BG06@6'
12/3/2024 2:50:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E4L0082-33 (Soil)

Boron (DTPA Sorbitol)

Boron	0.410		0.0999	mg/L	1	B4L0409	12/04/2024	12/05/2024	
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Metals by Saturated Paste by EPA 6010

Calcium	11.9		0.499	meq/L	10	[CALC]	12/04/2024	12/09/2024	
Magnesium	5.45		0.823	"	"	"	"	"	
Sodium	9.25		0.435	"	"	"	"	"	

pH in Soil by 9045D

pH	8.14			pH Units	1	B4L0425	12/04/2024	12/06/2024	
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SAR by 20B Saturated Paste

SAR	3.14		0.0100	SAR	1	B4L0417	12/04/2024	12/09/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	2.15		0.00500	mmhos/cm	1	B4L0425	12/04/2024	12/06/2024	
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Table 915 metals by EPA 6020B

Arsenic	3.50		0.255	mg/kg	10	B4L0359	12/03/2024	12/04/2024	
Barium	380		8.78	"	"	"	"	"	
Cadmium	0.188		0.0878	"	"	"	"	"	
Copper	12.5		8.78	"	"	"	"	"	

Origins Laboratory

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Ensolium
 11049 W 44th Avenue, Suite 103
 Wheat Ridge CO 80033

Jeremy Espinoza
 Project Number: 09A1417837
 Project: KMG - Bane 2N3 27N 2N2 28N1-9HZ
 Facility

NATIVE-BG06@6'
12/3/2024 2:50:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E4L0082-33 (Soil)

Table 915 metals by EPA 6020B

Lead	9.98		0.878	mg/kg	10	B4L0359	12/03/2024	12/04/2024	
Nickel	10.7		0.878	"	"	"	"	"	"
Selenium	ND		0.228	"	"	"	"	"	"
Silver	ND		0.0878	"	"	"	"	"	"
Zinc	42.0		32.5	"	"	"	"	"	"

Total Metals 7196A

Hexavalent Chromium	ND	0.138	0.345	mg/kg dry	1	2726717	01/02/2025	01/09/2025	U
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 Wheat Ridge CO 80033

Jeremy Espinoza
 Project Number: 09A1417837
 Project: KMG - Bane 2N3 27N 2N2 28N1-9HZ
 Facility

NATIVE-BG07@3'
12/3/2024 12:45:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E4L0082-34 (Soil)

Boron (DTPA Sorbitol)

Boron	0.637		0.100	mg/L	1	B4L0410	12/04/2024	12/05/2024	
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Metals by Saturated Paste by EPA 6010

Calcium	3.65		0.499	meq/L	10	[CALC]	12/04/2024	12/09/2024	
Magnesium	1.40		0.823	"	"	"	"	"	"
Sodium	3.54		0.435	"	"	"	"	"	"

pH in Soil by 9045D

pH	7.84			pH Units	1	B4L0425	12/04/2024	12/06/2024	
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SAR by 20B Saturated Paste

SAR	2.22		0.0100	SAR	1	B4L0417	12/04/2024	12/09/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.920		0.00500	mmhos/cm	1	B4L0425	12/04/2024	12/06/2024	
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Table 915 metals by EPA 6020B

Arsenic	6.57		0.247	mg/kg	10	B4L0359	12/03/2024	12/04/2024	
Barium	164		8.51	"	"	"	"	"	"
Cadmium	0.252		0.0851	"	"	"	"	"	"
Copper	15.9		8.51	"	"	"	"	"	"

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 Wheat Ridge CO 80033

Jeremy Espinoza
 Project Number: 09A1417837
 Project: KMG - Bane 2N3 27N 2N2 28N1-9HZ
 Facility

NATIVE-BG07@3'
12/3/2024 12:45:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E4L0082-34 (Soil)

Table 915 metals by EPA 6020B

Lead	13.4		0.851	mg/kg	10	B4L0359	12/03/2024	12/04/2024	
Nickel	16.7		0.851	"	"	"	"	"	"
Selenium	0.313		0.221	"	"	"	"	"	"
Silver	ND		0.0851	"	"	"	"	"	"
Zinc	59.5		31.5	"	"	"	"	"	"

Total Metals 7196A

Hexavalent Chromium	ND	0.103	0.258	mg/kg dry	1	2726717	01/02/2025	01/09/2025	U
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Jeremy Espinoza
 Project Number: 09A1417837
 Project: KMG - Bane 2N3 27N 2N2 28N1-9HZ
 Facility

NATIVE-BG07@6'
12/3/2024 12:50:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E4L0082-35 (Soil)

Boron (DTPA Sorbitol)

Boron	1.02		0.0999	mg/L	1	B4L0410	12/04/2024	12/05/2024	
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Metals by Saturated Paste by EPA 6010

Calcium	10.2		0.499	meq/L	10	[CALC]	12/04/2024	12/09/2024	
Magnesium	3.43		0.823	"	"	"	"	"	"
Sodium	5.08		0.435	"	"	"	"	"	"

pH in Soil by 9045D

pH	7.67			pH Units	1	B4L0425	12/04/2024	12/06/2024	
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SAR by 20B Saturated Paste

SAR	1.95		0.0100	SAR	1	B4L0417	12/04/2024	12/09/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	2.17		0.00500	mmhos/cm	1	B4L0425	12/04/2024	12/06/2024	
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Table 915 metals by EPA 6020B

Arsenic	7.06		0.279	mg/kg	10	B4L0359	12/03/2024	12/04/2024	
Barium	146		9.61	"	"	"	"	"	"
Cadmium	0.265		0.0961	"	"	"	"	"	"
Copper	16.9		9.61	"	"	"	"	"	"

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Wheat Ridge CO 80033

Jeremy Espinoza
Project Number: 09A1417837
Project: KMG - Bane 2N3 27N 2N2 28N1-9HZ
Facility

NATIVE-BG07@6'
12/3/2024 12:50:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E4L0082-35 (Soil)

Table 915 metals by EPA 6020B

Lead	12.1		0.961	mg/kg	10	B4L0359	12/03/2024	12/04/2024	
Nickel	14.5		0.961	"	"	"	"	"	
Selenium	ND		0.250	"	"	"	"	"	
Silver	ND		0.0961	"	"	"	"	"	
Zinc	91.4		35.6	"	"	"	"	"	

Total Metals 7196A

Hexavalent Chromium	ND	0.157	0.392	mg/kg dry	1	2726717	01/02/2025	01/09/2025	U
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Jeremy Espinoza
 Project Number: 09A1417837
 Project: KMG - Bane 2N3 27N 2N2 28N1-9HZ
 Facility

NATIVE-BG08@3'

12/3/2024 1:00:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory

E4L0082-36 (Soil)

Boron (DTPA Sorbitol)

Boron	0.530		0.0989	mg/L	1	B4L0410	12/04/2024	12/05/2024	
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Metals by Saturated Paste by EPA 6010

Calcium	91.9		0.499	meq/L	10	[CALC]	12/04/2024	12/09/2024	
Magnesium	35.8		0.823	"	"	"	"	"	"
Sodium	22.3		0.435	"	"	"	"	"	"

pH in Soil by 9045D

pH	7.50			pH Units	1	B4L0425	12/04/2024	12/06/2024	
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SAR by 20B Saturated Paste

SAR	2.79		0.0100	SAR	1	B4L0417	12/04/2024	12/09/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	12.4		0.00500	mmhos/cm	1	B4L0425	12/04/2024	12/06/2024	
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Table 915 metals by EPA 6020B

Arsenic	7.02		0.269	mg/kg	10	B4L0359	12/03/2024	12/04/2024	
Barium	201		9.27	"	"	"	"	"	"
Cadmium	0.253		0.0927	"	"	"	"	"	"
Copper	16.4		9.27	"	"	"	"	"	"

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Jeremy Espinoza
Project Number: 09A1417837
Project: KMG - Bane 2N3 27N 2N2 28N1-9HZ
Facility

NATIVE-BG08@3'

12/3/2024 1:00:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory

E4L0082-36 (Soil)

Table 915 metals by EPA 6020B

Lead	13.7		0.927	mg/kg	10	B4L0359	12/03/2024	12/04/2024	
Nickel	17.4		0.927	"	"	"	"	"	"
Selenium	0.400		0.241	"	"	"	"	"	"
Silver	ND		0.0927	"	"	"	"	"	"
Zinc	63.4		34.3	"	"	"	"	"	"

Total Metals 7196A

Hexavalent Chromium	ND	0.125	0.313	mg/kg dry	1	2726717	01/02/2025	01/09/2025	U
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Jeremy Espinoza
 Project Number: 09A1417837
 Project: KMG - Bane 2N3 27N 2N2 28N1-9HZ
 Facility

NATIVE-BG08@6'
12/3/2024 1:05:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E4L0082-37 (Soil)

Boron (DTPA Sorbitol)

Boron	0.553		0.101	mg/L	1	B4L0410	12/04/2024	12/05/2024	
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Metals by Saturated Paste by EPA 6010

Calcium	33.6		0.499	meq/L	10	[CALC]	12/04/2024	12/09/2024	
Magnesium	15.1		0.823	"	"	"	"	"	"
Sodium	9.08		0.435	"	"	"	"	"	"

pH in Soil by 9045D

pH	7.68			pH Units	1	B4L0425	12/04/2024	12/06/2024	
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SAR by 20B Saturated Paste

SAR	1.84		0.0100	SAR	1	B4L0417	12/04/2024	12/09/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	5.73		0.00500	mmhos/cm	1	B4L0425	12/04/2024	12/06/2024	
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Table 915 metals by EPA 6020B

Arsenic	5.74		0.281	mg/kg	10	B4L0359	12/03/2024	12/04/2024	
Barium	219		9.68	"	"	"	"	"	"
Cadmium	0.224		0.0968	"	"	"	"	"	"
Copper	15.5		9.68	"	"	"	"	"	"

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 11049 W 44th Avenue, Suite 103
 Wheat Ridge CO 80033

Jeremy Espinoza
 Project Number: 09A1417837
 Project: KMG - Bane 2N3 27N 2N2 28N1-9HZ
 Facility

NATIVE-BG08@6'
12/3/2024 1:05:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory
E4L0082-37 (Soil)

Table 915 metals by EPA 6020B

Lead	11.8		0.968	mg/kg	10	B4L0359	12/03/2024	12/04/2024	
Nickel	15.4		0.968	"	"	"	"	"	"
Selenium	0.252		0.252	"	"	"	"	"	"
Silver	ND		0.0968	"	"	"	"	"	"
Zinc	57.8		35.8	"	"	"	"	"	"

Total Metals 7196A

Hexavalent Chromium	ND	0.124	0.310	mg/kg dry	1	2726717	01/02/2025	01/09/2025	U
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Jeremy Espinoza
 Project Number: 09A1417837
 Project: KMG - Bane 2N3 27N 2N2 28N1-9HZ
 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 B4L0355 - EPA 3550B										
Blank (B4L0355-BLK1)										
					Prepared: 12/03/2024 Analyzed: 12/04/2024					
Diesel (C10-C28)	ND	25.0	mg/kg							Ua
Residual Range Organics (C28-C40)	ND	100	"							Ua
Surrogate: o-Terphenyl	21		"	24.9		83.2	50-150			

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Jeremy Espinoza
 Project Number: 09A1417837
 Project: KMG - Bane 2N3 27N 2N2 28N1-9HZ
 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 B4L0355 - EPA 3550B										
LCS (B4L0355-BS1)										
					Prepared: 12/03/2024 Analyzed: 12/04/2024					
Diesel (C10-C28)	921	50.0	mg/kg	1000		92.1	70-130			
Residual Range Organics (C28-C40)	939	200	"	1000		93.9	70-130			
Surrogate: o-Terphenyl	52		"	49.8		104	50-150			

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 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 B4L0355 - EPA 3550B										
Matrix Spike (B4L0355-MS1)			Source: E4L0082-01			Prepared: 12/03/2024 Analyzed: 12/04/2024				
Diesel (C10-C28)	796	50.0	mg/kg	1000	ND	79.6	70-130			
Residual Range Organics (C28-C40)	853	200	"	1000	ND	85.3	70-130			
Surrogate: o-Terphenyl	33		"	49.8		65.9	50-150			

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 Wheat Ridge CO 80033

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 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 B4L0355 - EPA 3550B										
Matrix Spike Dup (B4L0355-MSD1)			Source: E4L0082-01			Prepared: 12/03/2024 Analyzed: 12/04/2024				
Diesel (C10-C28)	778	50.0	mg/kg	1000	ND	77.8	70-130	2.24	35	
Residual Range Organics (C28-C40)	852	200	"	1000	ND	85.2	70-130	0.00505	35	
Surrogate: o-Terphenyl	50		"	49.8		99.8	50-150			

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 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
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Batch B4L0356 - EPA 5030 (soil)

Blank (B4L0356-BLK1)

Prepared: 12/03/2024 Analyzed: 12/03/2024

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							Ua
1,3,5-Trimethylbenzene	ND	0.00200	"							Ua
Benzene	ND	0.00200	"							Ua
Ethylbenzene	ND	0.00200	"							Ua
Naphthalene	ND	0.00380	"							Ua
Toluene	ND	0.00200	"							Ua
Xylenes, total	ND	0.00200	"							Ua
Gasoline Range Hydrocarbons	ND	0.200	"							Ua
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		110	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		105	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		99.5	70-130			

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Jeremy Espinoza
 Project Number: 09A1417837
 Project: KMG - Bane 2N3 27N 2N2 28N1-9HZ
 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 B4L0356 - EPA 5030 (soil)

LCS (B4L0356-BS1)

Prepared: 12/03/2024 Analyzed: 12/03/2024

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	0.0955	0.00200	"	0.100		95.5	70-130			
Ethylbenzene	0.103	0.00200	"	0.100		103	70-130			
Naphthalene	0.106	0.00380	"	0.100		106	70-130			
Toluene	0.104	0.00200	"	0.100		104	70-130			
o-Xylene	0.103	0.00200	"	0.100		103	70-130			
m,p-Xylene	0.199	0.00400	"	0.200		99.3	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		104	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		103	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		104	70-130			

Origins Laboratory

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Jeremy Espinoza
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 Project: KMG - Bane 2N3 27N 2N2 28N1-9HZ
 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 B4L0356 - EPA 5030 (soil)

Matrix Spike (B4L0356-MS1)

Source: E4L0082-01

Prepared: 12/03/2024 Analyzed: 12/03/2024

1,2,4-Trimethylbenzene	0.102	0.00200	mg/kg	0.100	ND	102	70-130			
1,3,5-Trimethylbenzene	0.107	0.00200	"	0.100	ND	107	70-130			
Benzene	0.101	0.00200	"	0.100	ND	101	70-130			
Ethylbenzene	0.118	0.00200	"	0.100	ND	118	70-130			
Naphthalene	0.129	0.00380	"	0.100	ND	129	70-130			
Toluene	0.109	0.00200	"	0.100	ND	109	70-130			
o-Xylene	0.118	0.00200	"	0.100	ND	118	70-130			
m,p-Xylene	0.228	0.00400	"	0.200	ND	114	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		107	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		102	70-130			
Surrogate: 4-Bromofluorobenzene	0.14		"	0.125		110	70-130			

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Jeremy Espinoza
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 Project: KMG - Bane 2N3 27N 2N2 28N1-9HZ
 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 B4L0356 - EPA 5030 (soil)

Matrix Spike Dup (B4L0356-MSD1)

Source: E4L0082-01

Prepared: 12/03/2024 Analyzed: 12/03/2024

1,2,4-Trimethylbenzene	0.105	0.00200	mg/kg	0.100	ND	105	70-130	2.85	20	
1,3,5-Trimethylbenzene	0.105	0.00200	"	0.100	ND	105	70-130	1.38	20	
Benzene	0.101	0.00200	"	0.100	ND	101	70-130	0.475	20	
Ethylbenzene	0.107	0.00200	"	0.100	ND	107	70-130	9.86	20	
Naphthalene	0.121	0.00380	"	0.100	ND	121	70-130	6.21	20	
Toluene	0.109	0.00200	"	0.100	ND	109	70-130	0.165	20	
o-Xylene	0.107	0.00200	"	0.100	ND	107	70-130	9.39	20	
m,p-Xylene	0.207	0.00400	"	0.200	ND	103	70-130	9.77	20	
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		108	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		102	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		105	70-130			

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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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 B4L0358 - EPA 3050B

Blank (B4L0358-BLK1)

Prepared: 12/03/2024 Analyzed: 12/04/2024

Arsenic	ND	0.290	mg/kg							
Barium	ND	10.0	"							
Cadmium	ND	0.100	"							
Copper	ND	10.0	"							
Lead	ND	1.00	"							
Nickel	ND	1.00	"							
Selenium	ND	0.260	"							
Silver	ND	0.100	"							
Zinc	ND	37.0	"							

LCS (B4L0358-BS1)

Prepared: 12/03/2024 Analyzed: 12/04/2024

Arsenic	5.46	0.290	mg/kg	5.00		109	80-120			
Barium	528	10.0	"	500		106	80-120			
Cadmium	5.54	0.100	"	5.00		111	80-120			
Copper	58.4	10.0	"	50.0		117	80-120			
Lead	5.44	1.00	"	5.00		109	80-120			
Nickel	5.76	1.00	"	5.00		115	80-120			
Selenium	5.71	0.260	"	5.00		114	80-120			
Silver	5.67	0.100	"	5.00		113	80-120			
Zinc	57.3	37.0	"	50.0		115	80-120			

Matrix Spike (B4L0358-MS1)

Source: E4L0082-01

Prepared: 12/03/2024 Analyzed: 12/04/2024

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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 B4L0358 - EPA 3050B

Matrix Spike (B4L0358-MS1)

Source: E4L0082-01

Prepared: 12/03/2024 Analyzed: 12/04/2024

Arsenic	10.2	0.267	mg/kg	4.61	5.69	97.8	75-125			
Barium	672	9.22	"	461	181	106	75-125			
Cadmium	5.28	0.0922	"	4.61	0.254	109	75-125			
Copper	68.1	9.22	"	46.1	14.9	115	75-125			
Lead	15.3	0.922	"	4.61	11.7	78.8	75-125			
Nickel	19.6	0.922	"	4.61	14.7	106	75-125			
Selenium	5.47	0.240	"	4.61	0.271	113	75-125			
Silver	5.15	0.0922	"	4.61	0.0630	110	75-125			
Zinc	99.2	34.1	"	46.1	57.0	91.7	75-125			

Matrix Spike Dup (B4L0358-MSD1)

Source: E4L0082-01

Prepared: 12/03/2024 Analyzed: 12/04/2024

Arsenic	10.2	0.256	mg/kg	4.42	5.69	102	75-125	0.115	20	
Barium	673	8.84	"	442	181	111	75-125	0.113	20	
Cadmium	5.21	0.0884	"	4.42	0.254	112	75-125	1.51	20	
Copper	67.8	8.84	"	44.2	14.9	120	75-125	0.438	20	
Lead	15.2	0.884	"	4.42	11.7	80.1	75-125	0.611	20	
Nickel	19.0	0.884	"	4.42	14.7	96.4	75-125	3.22	20	
Selenium	4.76	0.230	"	4.42	0.271	102	75-125	13.7	20	
Silver	5.05	0.0884	"	4.42	0.0630	113	75-125	2.03	20	
Zinc	101	32.7	"	44.2	57.0	100	75-125	2.13	20	

Batch B4L0359 - EPA 3050B

Blank (B4L0359-BLK1)

Prepared: 12/03/2024 Analyzed: 12/04/2024

Arsenic	ND	0.290	mg/kg							
Barium	ND	10.0	"							
Cadmium	ND	0.100	"							

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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 B4L0359 - EPA 3050B

Blank (B4L0359-BLK1)

Prepared: 12/03/2024 Analyzed: 12/04/2024

Copper	ND	10.0	mg/kg							
Lead	ND	1.00	"							
Nickel	ND	1.00	"							
Selenium	ND	0.260	"							
Silver	ND	0.100	"							
Zinc	ND	37.0	"							

LCS (B4L0359-BS1)

Prepared: 12/03/2024 Analyzed: 12/04/2024

Arsenic	5.73	0.290	mg/kg	5.00		115	80-120			
Barium	555	10.0	"	500		111	80-120			
Cadmium	5.71	0.100	"	5.00		114	80-120			
Copper	49.3	10.0	"	50.0		98.7	80-120			
Lead	5.67	1.00	"	5.00		113	80-120			
Nickel	5.12	1.00	"	5.00		102	80-120			
Selenium	5.56	0.260	"	5.00		111	80-120			
Silver	5.83	0.100	"	5.00		117	80-120			
Zinc	57.9	37.0	"	50.0		116	80-120			

Matrix Spike (B4L0359-MS1)

Source: E4L0083-01

Prepared: 12/03/2024 Analyzed: 12/04/2024

Arsenic	8.10	0.268	mg/kg	4.62	3.12	108	75-125			
Barium	638	9.24	"	462	113	114	75-125			
Cadmium	5.11	0.0924	"	4.62	0.119	108	75-125			
Copper	66.5	9.24	"	46.2	8.89	125	75-125			
Lead	13.1	0.924	"	4.62	8.99	89.1	75-125			
Nickel	14.3	0.924	"	4.62	9.60	103	75-125			
Selenium	5.46	0.240	"	4.62	0.122	116	75-125			
Silver	5.38	0.0924	"	4.62	0.0232	116	75-125			

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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 B4L0359 - EPA 3050B

Matrix Spike (B4L0359-MS1)

Source: E4L0083-01

Prepared: 12/03/2024 Analyzed: 12/04/2024

Zinc	97.1	34.2	mg/kg	46.2	39.8	124	75-125			
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Matrix Spike Dup (B4L0359-MSD1)

Source: E4L0083-01

Prepared: 12/03/2024 Analyzed: 12/04/2024

Arsenic	8.06	0.272	mg/kg	4.69	3.12	105	75-125	0.477	20	
Barium	667	9.39	"	469	113	118	75-125	4.43	20	
Cadmium	5.29	0.0939	"	4.69	0.119	110	75-125	3.45	20	
Copper	64.3	9.39	"	46.9	8.89	118	75-125	3.29	20	
Lead	13.5	0.939	"	4.69	8.99	95.4	75-125	2.76	20	
Nickel	14.8	0.939	"	4.69	9.60	111	75-125	3.25	20	
Selenium	5.22	0.244	"	4.69	0.122	109	75-125	4.55	20	
Silver	5.38	0.0939	"	4.69	0.0232	114	75-125	0.0969	20	
Zinc	93.5	34.7	"	46.9	39.8	115	75-125	3.71	20	

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 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 B4L0445 - EPA 3580

Blank (B4L0445-BLK1)

Prepared: 12/04/2024 Analyzed: 12/08/2024

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

Surrogate: Fluorene-d10	210		ug/kg	200		103	60-130			
Surrogate: Anthracene-d10	200		"	200		99.4	60-130			
Surrogate: Pyrene-d10	210		"	200		105	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		102	60-130			

LCS (B4L0445-BS1)

Prepared: 12/04/2024 Analyzed: 12/08/2024

1-Methylnaphthalene	0.192	0.002	mg/kg	0.200		96.1	70-130			
2-Methylnaphthalene	0.188	0.002	"	0.200		94.1	70-130			
Acenaphthene	0.189	0.020	"	0.200		94.7	70-130			
Anthracene	0.196	0.020	"	0.200		98.2	70-130			

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 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 B4L0445 - EPA 3580

LCS (B4L0445-BS1)

Prepared: 12/04/2024 Analyzed: 12/08/2024

Benzo (a) anthracene	0.183	0.005	mg/kg	0.200		91.3	70-130			
Benzo (a) pyrene	0.197	0.020	"	0.200		98.3	70-130			
Benzo (b) fluoranthene	0.204	0.020	"	0.200		102	70-130			
Benzo (g,h,i) perylene	0.198	0.020	"	0.200		99.0	70-130			
Benzo (k) fluoranthene	0.209	0.020	"	0.200		105	70-130			
Chrysene	0.192	0.020	"	0.200		95.9	70-130			
Dibenz (a,h) anthracene	0.210	0.020	"	0.200		105	70-130			
Fluoranthene	0.192	0.020	"	0.200		96.0	70-130			
Fluorene	0.199	0.020	"	0.200		99.6	70-130			
Indeno (1,2,3-cd) pyrene	0.210	0.020	"	0.200		105	70-130			
Naphthalene	0.191	0.002	"	0.200		95.4	70-130			
Phenanthrene	0.189	0.020	"	0.200		94.3	70-130			
Pyrene	0.196	0.020	"	0.200		97.9	70-130			
Surrogate: Fluorene-d10	200		ug/kg	200		98.2	60-130			
Surrogate: Anthracene-d10	190		"	200		95.9	60-130			
Surrogate: Pyrene-d10	210		"	200		103	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		102	60-130			

Matrix Spike (B4L0445-MS1)

Source: E4L0024-05

Prepared: 12/04/2024 Analyzed: 12/08/2024

1-Methylnaphthalene	0.194	0.002	mg/kg	0.200	0.0007	96.5	70-130			
2-Methylnaphthalene	0.191	0.002	"	0.200	0.001	94.7	70-130			
Acenaphthene	0.194	0.020	"	0.200	0.002	96.1	70-130			
Anthracene	0.177	0.020	"	0.200	ND	88.4	70-130			
Benzo (a) anthracene	0.177	0.005	"	0.200	0.005	85.7	70-130			
Benzo (a) pyrene	0.206	0.020	"	0.200	0.006	100	70-130			
Benzo (b) fluoranthene	0.209	0.020	"	0.200	0.005	102	70-130			
Benzo (g,h,i) perylene	0.202	0.020	"	0.200	0.006	97.8	70-130			

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4L0445 - EPA 3580

Matrix Spike (B4L0445-MS1)

Source: E4L0024-05

Prepared: 12/04/2024 Analyzed: 12/08/2024

Benzo (k) fluoranthene	0.207	0.020	mg/kg	0.200	0.003	102	70-130			
Chrysene	0.216	0.020	"	0.200	0.007	104	70-130			
Dibenz (a,h) anthracene	0.216	0.020	"	0.200	0.002	107	70-130			
Fluoranthene	0.204	0.020	"	0.200	0.006	99.1	70-130			
Fluorene	0.202	0.020	"	0.200	ND	101	70-130			
Indeno (1,2,3-cd) pyrene	0.212	0.020	"	0.200	0.005	104	70-130			
Naphthalene	0.194	0.002	"	0.200	ND	97.0	70-130			
Phenanthrene	0.195	0.020	"	0.200	0.002	96.7	70-130			
Pyrene	0.209	0.020	"	0.200	0.009	100	70-130			

Surrogate: Fluorene-d10	210		ug/kg	200		103	60-130			
Surrogate: Anthracene-d10	190		"	200		95.4	60-130			
Surrogate: Pyrene-d10	210		"	200		103	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		102	60-130			

Matrix Spike Dup (B4L0445-MSD1)

Source: E4L0024-05

Prepared: 12/04/2024 Analyzed: 12/08/2024

1-Methylnaphthalene	0.193	0.002	mg/kg	0.200	0.0007	96.2	70-130	0.241	20	
2-Methylnaphthalene	0.194	0.002	"	0.200	0.001	96.4	70-130	1.78	20	
Acenaphthene	0.195	0.020	"	0.200	0.002	96.7	70-130	0.620	20	
Anthracene	0.173	0.020	"	0.200	ND	86.3	70-130	2.50	20	
Benzo (a) anthracene	0.185	0.005	"	0.200	0.005	89.9	70-130	4.68	20	
Benzo (a) pyrene	0.210	0.020	"	0.200	0.006	102	70-130	2.19	20	
Benzo (b) fluoranthene	0.213	0.020	"	0.200	0.005	104	70-130	2.24	20	
Benzo (g,h,i) perylene	0.209	0.020	"	0.200	0.006	101	70-130	3.40	20	
Benzo (k) fluoranthene	0.232	0.020	"	0.200	0.003	114	70-130	11.6	20	
Chrysene	0.210	0.020	"	0.200	0.007	102	70-130	2.53	20	
Dibenz (a,h) anthracene	0.220	0.020	"	0.200	0.002	109	70-130	1.75	20	
Fluoranthene	0.206	0.020	"	0.200	0.006	99.7	70-130	0.588	20	

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 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 B4L0445 - EPA 3580

Matrix Spike Dup (B4L0445-MSD1)

Source: E4L0024-05

Prepared: 12/04/2024 Analyzed: 12/08/2024

Fluorene	0.204	0.020	mg/kg	0.200	ND	102	70-130	1.30	20	
Indeno (1,2,3-cd) pyrene	0.214	0.020	"	0.200	0.005	105	70-130	0.879	20	
Naphthalene	0.196	0.002	"	0.200	ND	98.2	70-130	1.24	20	
Phenanthrene	0.196	0.020	"	0.200	0.002	97.2	70-130	0.527	20	
Pyrene	0.213	0.020	"	0.200	0.009	102	70-130	2.06	20	
Surrogate: Fluorene-d10	200		ug/kg	200		102	60-130			
Surrogate: Anthracene-d10	170		"	200		85.2	60-130			
Surrogate: Pyrene-d10	210		"	200		103	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		100	60-130			

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 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 B4L0407 - DTPA Sorbitol Preparation										
Blank (B4L0407-BLK1)					Prepared: 12/04/2024 Analyzed: 12/05/2024					
Boron	ND	0.100	mg/L							
Duplicate (B4L0407-DUP1)		Source: E4L0077-09			Prepared: 12/04/2024 Analyzed: 12/05/2024					
Boron	0.0836	0.101	mg/L		0.0706			16.9	50	
Batch B4L0409 - DTPA Sorbitol Preparation										
Blank (B4L0409-BLK1)					Prepared: 12/04/2024 Analyzed: 12/05/2024					
Boron	ND	0.100	mg/L							
Duplicate (B4L0409-DUP1)		Source: E4L0082-14			Prepared: 12/04/2024 Analyzed: 12/05/2024					
Boron	0.394	0.0997	mg/L		0.392			0.487	50	
Batch B4L0410 - DTPA Sorbitol Preparation										
Blank (B4L0410-BLK1)					Prepared: 12/04/2024 Analyzed: 12/05/2024					
Boron	ND	0.100	mg/L							
Duplicate (B4L0410-DUP1)		Source: E4L0082-34			Prepared: 12/04/2024 Analyzed: 12/05/2024					
Boron	0.623	0.0998	mg/L		0.637			2.17	50	
Batch B4L0415 - Saturated Paste Metals										
Blank (B4L0415-BLK1)					Prepared: 12/04/2024 Analyzed: 12/06/2024					
SAR	ND	0.0100	SAR							
Calcium PPM	ND	10.0	mg/L							
Magnesium PPM	ND	10.0	"							
Sodium PPM	ND	10.0	"							

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Ensolium
 11049 W 44th Avenue, Suite 103
 Wheat Ridge CO 80033

Jeremy Espinoza
 Project Number: 09A1417837
 Project: KMG - Bane 2N3 27N 2N2 28N1-9HZ
 Facility

Classical Chemistry Parameters - Quality Control
Origins Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4L0415 - Saturated Paste Metals

Duplicate (B4L0415-DUP1)

Source: E4L0079-03

Prepared: 12/04/2024 Analyzed: 12/06/2024

SAR	ND	0.0100	SAR		3.98				200	
Calcium PPM	211	10.0	mg/L		332			44.6	50	
Magnesium PPM	138	10.0	"		188			30.9	50	
Sodium PPM	332	10.0	"		366			9.66	50	

Batch B4L0417 - Saturated Paste Metals

Blank (B4L0417-BLK1)

Prepared: 12/04/2024 Analyzed: 12/09/2024

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

Duplicate (B4L0417-DUP1)

Source: E4L0082-21

Prepared: 12/04/2024 Analyzed: 12/09/2024

SAR	ND	0.0100	SAR		0.379				200	
Calcium PPM	18.1	10.0	mg/L		17.7			2.35	50	
Magnesium PPM	1.21	10.0	"		1.22			0.823	50	
Sodium PPM	1.95	10.0	"		6.11			103	50	QR-DUP

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 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 B4L0424 - Saturated Paste pH/EC

Blank (B4L0424-BLK1)

Prepared: 12/04/2024 Analyzed: 12/05/2024

Specific Conductance (EC) ND 0.00500 mmhos/cm

Duplicate (B4L0424-DUP1)

Source: E4L0079-03

Prepared: 12/04/2024 Analyzed: 12/05/2024

Specific Conductance (EC) 3.13 0.00500 mmhos/cm 3.73 17.7 25
 pH 8.12 pH Units 7.86 3.25 25

Batch B4L0425 - Saturated Paste pH/EC

Blank (B4L0425-BLK1)

Prepared: 12/04/2024 Analyzed: 12/06/2024

Specific Conductance (EC) ND 0.00500 mmhos/cm

Duplicate (B4L0425-DUP1)

Source: E4L0082-21

Prepared: 12/04/2024 Analyzed: 12/06/2024

pH 8.17 pH Units 8.34 2.06 25
 Specific Conductance (EC) 0.690 0.00500 mmhos/cm 0.145 130 25 QR-DUP

Batch B4L0916 - Saturated Paste pH/EC

Duplicate (B4L0916-DUP1)

Source: E4L0082-02

Prepared: 12/09/2024 Analyzed: 12/10/2024

pH 8.43 pH Units 8.44 0.119 25

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Jeremy Espinoza
 Project Number: 09A1417837
 Project: KMG - Bane 2N3 27N 2N2 28N1-9HZ
 Facility

Total Metals 7196A - Quality Control
GEL Laboratories, LLC

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2726717 - SW846 3060A

BLANK (1205961963-BLK)

Prepared: 01/02/2025 Analyzed: 01/09/2025

Hexavalent Chromium	ND	0.241	mg/kg				-			U
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LCS (1205961964-BKS)

Prepared: 01/02/2025 Analyzed: 01/09/2025

Hexavalent Chromium	3.17	0.316	mg/kg	3.16		100	80-120			
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DUP (1205961965 D)

Source: 698899001

Prepared: 01/02/2025 Analyzed: 01/09/2025

Hexavalent Chromium	ND	0.233	mg/kg dry		<0.0933		0-50	N/A	50	U
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MS (1205961966 S)

Source: 698899001

Prepared: 01/02/2025 Analyzed: 01/09/2025

Hexavalent Chromium	1.49	0.233	mg/kg dry	2.33	<0.0934	63.9	75-125			
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DUP (1205961967 D)

Source: E4L0082-21

Prepared: 01/02/2025 Analyzed: 01/09/2025

Hexavalent Chromium	ND	0.276	mg/kg dry		<0.110		0-50	N/A	50	U
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MS (1205961968 S)

Source: E4L0082-21

Prepared: 01/02/2025 Analyzed: 01/09/2025

Hexavalent Chromium	1.70	0.276	mg/kg dry	2.76	<0.110	60.7	75-125			
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ILCS (1205961969-ILCS)

Prepared: 01/02/2025 Analyzed: 01/09/2025

Hexavalent Chromium	8.24	0.387	mg/kg	7.90		104	80-120			
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Jeremy Espinoza
 Project Number: 09A1417837
 Project: KMG - Bane 2N3 27N 2N2 28N1-9HZ
 Facility

Total Metals 7196A - Quality Control
GEL Laboratories, LLC

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2726715 - SW846 3060A										
BLANK (1205961956-BLK)										
					Prepared: 01/02/2025 Analyzed: 01/09/2025					
Hexavalent Chromium	ND	0.320	mg/kg				-			U
LCS (1205961957-BKS)										
					Prepared: 01/02/2025 Analyzed: 01/09/2025					
Hexavalent Chromium	2.98	0.294	mg/kg	2.94		101	80-120			
DUP (1205961958 D)										
					Source: E4L0082-01					
					Prepared: 01/02/2025 Analyzed: 01/09/2025					
Hexavalent Chromium	ND	0.269	mg/kg dry		<0.108		0-50	N/A	50	U
MS (1205961959 S)										
					Source: E4L0082-01					
					Prepared: 01/02/2025 Analyzed: 01/09/2025					
Hexavalent Chromium	1.99	0.269	mg/kg dry	2.69	<0.108	72.9	75-125			
DUP (1205961960 D)										
					Source: E4L0082-03					
					Prepared: 01/02/2025 Analyzed: 01/09/2025					
Hexavalent Chromium	ND	0.439	mg/kg dry		<0.175		0-50	N/A	50	U
MS (1205961961 S)										
					Source: E4L0082-03					
					Prepared: 01/02/2025 Analyzed: 01/09/2025					
Hexavalent Chromium	2.12	0.439	mg/kg dry	4.39	<0.175	48.4	75-125			
ILCS (1205961962-ILCS)										
					Prepared: 01/02/2025 Analyzed: 01/09/2025					
Hexavalent Chromium	6.73	0.318	mg/kg	6.48		104	80-120			

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Project: KMG - Bane 2N3 27N 2N2 28N1-9HZ
Facility

Notes and Definitions

- Ua Sample is Non-Detect.
 - U Result not detected above the detection limit
 - S-DUP Duplicate analysis confirmed surrogate failure due to matrix effects.
 - QR-DUP RPD exceeds QC acceptance criteria, this indicates source sample is not homogenous.
 - 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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