



Ensolum

May 14, 2025

Jeremy Espinoza

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

**Project Name - KMG - Howard 30N, 4C, 29N-21HZ Project Number - 09A14171102
OSA Fac BT1**

Attached are your analytical results for KMG - Howard 30N, 4C, 29N-21HZ OSA Fac BT1 received by Origins Laboratory April 29, 2025. This project is associated with Origins project number E5D0842-01.

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

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

Jeremy Espinoza
 Project Number: 09A14171102
 Project: KMG - Howard 30N, 4C, 29N-21HZ OSA
 Fac BT1

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
N01@5'	E5D0842-01	Soil	April 29, 2025 9:57	04/29/2025 17:27
N02@5'	E5D0842-02	Soil	April 29, 2025 9:53	04/29/2025 17:27
N03@5'	E5D0842-03	Soil	April 29, 2025 9:49	04/29/2025 17:27
E01@5'	E5D0842-04	Soil	April 29, 2025 10:06	04/29/2025 17:27
E02@5'	E5D0842-05	Soil	April 29, 2025 10:02	04/29/2025 17:27
S01@5'	E5D0842-06	Soil	April 29, 2025 10:23	04/29/2025 17:27
S02@5'	E5D0842-07	Soil	April 29, 2025 10:27	04/29/2025 17:27
W01@5'	E5D0842-08	Soil	April 29, 2025 10:09	04/29/2025 17:27
W02@5'	E5D0842-09	Soil	April 29, 2025 10:13	04/29/2025 17:27
W03@5'	E5D0842-10	Soil	April 29, 2025 10:19	04/29/2025 17:27
B01@10'	E5D0842-21	Soil	April 29, 2025 9:30	04/29/2025 17:27
B02@10'	E5D0842-22	Soil	April 29, 2025 9:20	04/29/2025 17:27
B03@10'	E5D0842-23	Soil	April 29, 2025 9:34	04/29/2025 17:27
B04@10'	E5D0842-24	Soil	April 29, 2025 9:24	04/29/2025 17:27

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 Fac BT1

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
B05@10'	E5D0842-25	Soil	April 29, 2025 9:41	04/29/2025 17:27
SS02	E5D0842-31	Soil	April 29, 2025 11:04	04/29/2025 17:27
SS03	E5D0842-32	Soil	April 29, 2025 11:10	04/29/2025 17:27
SS04	E5D0842-33	Soil	April 29, 2025 11:17	04/29/2025 17:27
SS05	E5D0842-34	Soil	April 29, 2025 11:21	04/29/2025 17:27

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11049 W 44th Avenue, Suite 103
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Fac BT1

ORIGINS
LABORATORY

ESD0842

Page 1 of 4

1725 Efficiency Denver, CO 80202 | 970.422.1122 | info@originslab.com | Temp Received - 19°C Received On Ice? Yes No

#	Sample ID	Date Sampled	Time Sampled	# of Containers	Matrix Preservative	Analysis		Comments
						SW-Surface Water	WW-Waste Water	
1	NO1*5'	4/29/25	09:57	3	W02*	X	X	Send partial
2	NO2*5'	4/29/25	09:53	1	W02*	X	X	Waste in house
3	NO3*5'	4/29/25	09:44	1	W02*	X	X	Waste in house
4	EO1*5'	4/29/25	10:06	1	W02*	X	X	Waste in house
5	EO2*5'	4/29/25	10:02	1	W02*	X	X	Waste in house
6	SO1*5'	4/29/25	10:27	1	W02*	X	X	Waste in house
7	SO2*5'	4/29/25	10:27	1	W02*	X	X	Waste in house
8	WO1*5'	4/29/25	10:09	1	W02*	X	X	Waste in house
9	WO2*5'	4/29/25	10:13	1	W02*	X	X	Waste in house
10	WO3*5'	4/29/25	10:19	1	W02*	X	X	Waste in house

Refrigerated By: [Signature] Date: 4/29/25 Time: 17:27 Received By: NKT Date: 04/29/25 Time: 17:27

Turnaround Time: 48 Hr 72 Hr SAME DAY 24 Hr

Client: Ensolum
Address: 11049 W 44th Avenue, Suite 103, Wheat Ridge, CO 80033
Project Manager: J. Espinoza
Project Name: Howard 30N, 4C, 29N-21HZ OSA Fac BT1
Project Number: 09A14171102
Key: ESD0842
Telephone Number: [Redacted]
Email Address: [Redacted]
Invoice Billing Info: [Redacted]
Collected By: JK
SW-Surface Water
WW-Waste Water
I-Liquid

Origins Laboratory
[Signature]

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

Jeremy Espinoza
Project Number: 09A14171102
Project: KMG - Howard 30N, 4C, 29N-21HZ OSA
Fac BT1



6500842

Page 2 of 2

Client: Ensolum Project Manager: J. Espinoza Key: _____
 Address: _____ Project Name: Howard 30N, 4C, 29N-21HZ OSA Fac BT1 W=Water
 Project Number: 09A14171102 G=Groundwater
 Telephone Number: _____ Collected By: HK SW=Surface Water
 Email Address: KMGTEAM Invoice/Billing Info: Original Invoice W=Waste Water
 =Liquid
 =Solid
 =Oil
 =Acid
 =Gas
 =UV=Ultraviolet
 =HCl=Hydrochloric
 =HNO3=Nitric
 =H2SO4=Sulfuric
 =NaOH=Sodium Hydroxide

#	Sample ID	Date Sampled	Time Sampled	# of Containers	Matrix Preservative	Analysis	Comments
1	NO1-S-V	4/29/25	0958	3	S	MDP	samples on hold
2	NO2-S-V		0954				
3	NO3-S-V		0950				
4	EO1-S-V		1007				
5	EO2-S-V		1003				
6	SO1-S-V		1024				
7	SO2-S-V		1028				
8	WO1-S-V		1010				
9	WO2-S-V		1014				
10	WO3-S-V		1020				

Requisitioned By: AKG Date: 4/29/25 Time: 1227 Received By: NLM Date: 04/29/25 Time: 11:27
 Requisitioned By: _____ Date: _____ Time: _____ Received By: _____ Date: _____ Time: _____

Turnaround Time: SAME DAY 24 Hr 48 Hr 72 Hr

Temp Received: 19°C Received On Ice? Yes No

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Jeremy Espinoza
Project Number: 09A14171102
Project: KMG - Howard 30N, 4C, 29N-21HZ OSA
Fac BT1



ORIGINS WORK ORDER #

E5D0842

Page 3 of 4

Client: Ensolum Project Manager: J. Espinoza Key: _____
 Address: _____ Project Name: Howard 30N 4C, 29N-21HZ OSA Fac. BT1 M=Water
 Project Number: 09A14171102 GW=Groundwater
 Telephone Number: _____ Collected by: HK SW=Surface Water
 Email Address: SMG Team Invoice/Billing Info: Impact/Advis W=Waste Water
 S=Soil SCS=Soil (a=oil, Ar=oil, G=Gas, H=Hydrocarbons, HCl=Hydrochloric, HNO3=Nitric, H2SO4=Sulfuric, NaOH=Sodium Hydroxide)
 L=Liquid

#	Sample ID	Date Sampled	Time Sampled	# of Containers	Matrix Preservative	Analysis				Comments
						As	Cr	Pb	Zn	
1	B01e101	4/29/25	0920	3	100%	X	X	X	X	
2	B02e101		0920			X	X	X	X	
3	B03e101		0934			X	X	X	X	
4	B04e101		0924			X	X	X	X	
5	B05e101		0944			X	X	X	X	
6	B01e101-V		0931			X	X	X	X	on hold
7	B02e101-V		0921			X	X	X	X	on hold
8	B03e101-V		0935			X	X	X	X	on hold
9	B04e101-V		0925			X	X	X	X	on hold
10	B05e101-V		0942			X	X	X	X	on hold

Refrigerated By: [Signature] Date: 4/29/25 Time: 1727 Received By: NKM Date: 04/29/25 Time: 17:27
 Turnaround Time: 48 Hr 72 DAY SAME DAY 24 Hr
 Temp Received: 19°C Received On Ice? Yes No

Origins Laboratory
[Signature]

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 Fac BT1



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ESD0842

Page 4 of 4

#	Sample ID	Date Sampled	Time Sampled	# of Containers	Matrix Preservative	Analysis		Comments
						W	G	
1	SS02	4/21/15	104	3	S	X	X	
2	SS03		110			X	X	
3	SS04		117			X	X	
4	SS05		121			X	X	
5	SS02-V		105			X	X	analytical
6	SS03-V		110			X	X	analytical
7	SS04-V		118			X	X	analytical
8	SS05-V		122			X	X	analytical
9								
10								

Client: Ensolum
 Address: _____
 Project Manager: J. Espinoza
 Project Name: Howard 30N 4C 29N-21HZ OSA Fac BT1
 Project Number: 09A14171102
 Telephone Number: _____
 Collected By: JK
 Invoice/Billing Info: IMMEDIATELY
 Email Address: KMGTEAM
 S-Soil | SO-Solid | O-oil | A-air | G-gas | W-Water | J-HCl | H-Hydrochloric | H-HNO3-nitric | H-H2SO4-sulfuric | NaOH-sodium hydroxide
 W=Water
 G=Groundwater
 S=Surface Water
 W-Waste Water
 L=Liquid

Requisitioned By: _____ Date: 4/29/15 Time: 1725
 Received By: NKM Date: 04/29/15 Time: 11:27
 Requisitioned By: _____ Date: _____ Time: _____
 Received By: _____ Date: _____ Time: _____

Turnaround Time
 SAME DAY
 24 Hr
 48 Hr
 72
 Standard

Temp Received - 19 C Received on ice? Yes No

Origins Laboratory

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 Fac BT1

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

Sample Receipt Checklist

Origins Work Order: ESD0842 Client: ENSOLIUM
 Client Project ID: HOWARD 30N... Fac BT1

Checklist Completed by: NKM/sem Shipped Via: HD
 (UPS, FedEx, Hand Delivered, Pick-up, etc.)
 Date/time completed: 04/29/25 Airbill #: N/A

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

Cooler Number/Temperature: 1, 1.9 °C

Thermometer ID: T-001

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C ^{(1)?}	YY			
Is there ice present (document if blue ice is used)	YY			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		YY		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)		YY		
Were all samples received intact ^{(1)?}	YY			
Was adequate sample volume provided ^{(1)?}	YY			
Are short holding time analytes or samples with HTs due within 48 hours present ^{(1)?}			Y	
Is a chain-of-custody (COC) present and filled out completely ^{(1)?}	YY			
Does the COC agree with the number and type of sample bottles received ^{(1)?}	YY			
Do the sample IDs on the bottle labels match the COC ^{(1)?}	YY			
Is the COC properly relinquished by the client with date and time recorded ^{(1)?}	YY			
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.			Y	
Are samples preserved that require preservation and was it checked ^{(1)?} (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subsampled analyses in order to insure sample integrity) (pH > 2 for samples preserved with HNO3, HCL, HSSO4) / (pH > 10 for samples preserved with NaAsO2+NaOH, ZnAc+NaOH)			Y	
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) AS Date/Time Reviewed 5/1/25

Origins Laboratory



Kayla Kenyon For Jen Pellegrini, Project Manager

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 Project Number: 09A14171102
 Project: KMG - Howard 30N, 4C, 29N-21HZ OSA
 Fac BT1

N01@5'
4/29/2025 9:57:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5D0842-01 (Soil)									
Origins Laboratory									
Boron (DTPA Sorbitol)									
Boron	2.76		0.0995	mg/kg	1	B5D3022	04/30/2025	05/05/2025	
DRO/ORO by EPA 8015D									
Diesel (C10-C28)	ND		25.0	mg/kg	1	B5D3044	04/30/2025	05/01/2025	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U
<i>Surrogate: o-Terphenyl</i>	77.1 %			50-150		"	"	"	
GBTEX+TMBs by 8260D									
1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B5E0174	05/01/2025	05/02/2025	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U
<i>Surrogate: 1,2-Dichloroethane-d4</i>	105 %			70-130		"	"	"	
<i>Surrogate: Toluene-d8</i>	96.9 %			70-130		"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>	93.0 %			70-130		"	"	"	

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Fac BT1

N01@5'
4/29/2025 9:57:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5D0842-01 (Soil) Origins Laboratory									
PAH by EPA 8270E extracted via 3580A									
1-Methylnaphthalene	ND		0.002	mg/kg	1	B5E0301	05/03/2025	05/08/2025	U
2-Methylnaphthalene	ND		0.002	"	"	"	"	"	U
Acenaphthene	ND		0.020	"	"	"	"	"	U
Anthracene	ND		0.020	"	"	"	"	"	U
Benzo (a) anthracene	ND		0.005	"	"	"	"	"	U
Benzo (a) pyrene	ND		0.020	"	"	"	"	"	U
Benzo (b) fluoranthene	ND		0.020	"	"	"	"	"	U
Benzo (k) fluoranthene	ND		0.020	"	"	"	"	"	U
Chrysene	ND		0.020	"	"	"	"	"	U
Dibenz (a,h) anthracene	ND		0.020	"	"	"	"	"	U
Fluoranthene	ND		0.020	"	"	"	"	"	U
Fluorene	ND		0.020	"	"	"	"	"	U
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	U
Naphthalene	ND		0.002	"	"	"	"	"	U
Pyrene	ND		0.020	"	"	"	"	"	U
Surrogate: Fluorene-d10	101 %			60-130		"	"	"	
Surrogate: Anthracene-d10	96.5 %			60-130		"	"	"	
Surrogate: Pyrene-d10	103 %			60-130		"	"	"	
Surrogate: Benzo (a) pyrene-d12	98.2 %			60-130		"	"	"	

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 Fac BT1

N01@5'
4/29/2025 9:57:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5D0842-01 (Soil)
Origins Laboratory

Table 915 metals by EPA 6020B

Arsenic	5.87		0.278	mg/kg	10	B5D3043	04/30/2025	05/01/2025	
Barium	214		78.6	"	"	"	"	"	
Lead	ND		13.4	"	"	"	"	"	U
Nickel	ND		24.9	"	"	"	"	"	U

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 Fac BT1

N02@5'
4/29/2025 9:53:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5D0842-02 (Soil)
Origins Laboratory

Boron (DTPA Sorbitol)

Boron	5.74		0.101	mg/kg	1	B5D3022	04/30/2025	05/05/2025	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B5D3044	04/30/2025	05/01/2025	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: <i>o</i> -Terphenyl	77.1 %			50-150		"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B5E0174	05/01/2025	05/02/2025	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	106 %			70-130		"	"	"	
Surrogate: Toluene-d8	96.7 %			70-130		"	"	"	
Surrogate: 4-Bromofluorobenzene	93.3 %			70-130		"	"	"	

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 Project: KMG - Howard 30N, 4C, 29N-21HZ OSA
 Fac BT1

N02@5'
4/29/2025 9:53:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5D0842-02 (Soil)									
Origins Laboratory									
PAH by EPA 8270E extracted via 3580A									
1-Methylnaphthalene	ND		0.002	mg/kg	1	B5E0301	05/03/2025	05/08/2025	U
2-Methylnaphthalene	ND		0.002	"	"	"	"	"	U
Acenaphthene	ND		0.020	"	"	"	"	"	U
Anthracene	ND		0.020	"	"	"	"	"	U
Benzo (a) anthracene	ND		0.005	"	"	"	"	"	U
Benzo (a) pyrene	ND		0.020	"	"	"	"	"	U
Benzo (b) fluoranthene	ND		0.020	"	"	"	"	"	U
Benzo (k) fluoranthene	ND		0.020	"	"	"	"	"	U
Chrysene	ND		0.020	"	"	"	"	"	U
Dibenz (a,h) anthracene	ND		0.020	"	"	"	"	"	U
Fluoranthene	ND		0.020	"	"	"	"	"	U
Fluorene	ND		0.020	"	"	"	"	"	U
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	U
Naphthalene	ND		0.002	"	"	"	"	"	U
Pyrene	ND		0.020	"	"	"	"	"	U
Surrogate: Fluorene-d10	100 %			60-130		"	"	"	
Surrogate: Anthracene-d10	94.9 %			60-130		"	"	"	
Surrogate: Pyrene-d10	98.1 %			60-130		"	"	"	
Surrogate: Benzo (a) pyrene-d12	99.9 %			60-130		"	"	"	

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 Project Number: 09A14171102
 Project: KMG - Howard 30N, 4C, 29N-21HZ OSA
 Fac BT1

N02@5'
4/29/2025 9:53:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5D0842-02 (Soil)
Origins Laboratory

Table 915 metals by EPA 6020B

Arsenic	6.78		0.258	mg/kg	10	B5D3043	04/30/2025	05/01/2025	
Barium	74.2		73.0	"	"	"	"	"	
Lead	ND		12.5	"	"	"	"	"	U
Nickel	ND		23.1	"	"	"	"	"	U

Origins Laboratory

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

Jeremy Espinoza
Project Number: 09A14171102
Project: KMG - Howard 30N, 4C, 29N-21HZ OSA
Fac BT1

N03@5'
4/29/2025 9:49:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5D0842-03 (Soil)									
Origins Laboratory									
Boron (DTPA Sorbitol)									
Boron	7.86		0.102	mg/kg	1	B5D3022	04/30/2025	05/05/2025	
DRO/ORO by EPA 8015D									
Diesel (C10-C28)	ND		25.0	mg/kg	1	B5D3044	04/30/2025	05/01/2025	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U
Surrogate: <i>o</i> -Terphenyl	76.0 %			50-150		"	"	"	
GBTEX+TMBs by 8260D									
1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B5E0174	05/01/2025	05/02/2025	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U
Surrogate: 1,2-Dichloroethane-d4	103 %			70-130		"	"	"	
Surrogate: Toluene-d8	96.9 %			70-130		"	"	"	
Surrogate: 4-Bromofluorobenzene	90.7 %			70-130		"	"	"	

Origins Laboratory



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Ensolum
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Wheat Ridge CO 80033

Jeremy Espinoza
Project Number: 09A14171102
Project: KMG - Howard 30N, 4C, 29N-21HZ OSA
Fac BT1

N03@5'
4/29/2025 9:49:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5D0842-03 (Soil)									
Origins Laboratory									
PAH by EPA 8270E extracted via 3580A									
1-Methylnaphthalene	ND		0.002	mg/kg	1	B5E0301	05/03/2025	05/08/2025	U
2-Methylnaphthalene	ND		0.002	"	"	"	"	"	U
Acenaphthene	ND		0.020	"	"	"	"	"	U
Anthracene	ND		0.020	"	"	"	"	"	U
Benzo (a) anthracene	ND		0.005	"	"	"	"	"	U
Benzo (a) pyrene	ND		0.020	"	"	"	"	"	U
Benzo (b) fluoranthene	ND		0.020	"	"	"	"	"	U
Benzo (k) fluoranthene	ND		0.020	"	"	"	"	"	U
Chrysene	ND		0.020	"	"	"	"	"	U
Dibenz (a,h) anthracene	ND		0.020	"	"	"	"	"	U
Fluoranthene	ND		0.020	"	"	"	"	"	U
Fluorene	ND		0.020	"	"	"	"	"	U
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	U
Naphthalene	ND		0.002	"	"	"	"	"	U
Pyrene	ND		0.020	"	"	"	"	"	U
Surrogate: Fluorene-d10	100 %			60-130		"	"	"	
Surrogate: Anthracene-d10	92.4 %			60-130		"	"	"	
Surrogate: Pyrene-d10	98.7 %			60-130		"	"	"	
Surrogate: Benzo (a) pyrene-d12	102 %			60-130		"	"	"	

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 Wheat Ridge CO 80033

Jeremy Espinoza
 Project Number: 09A14171102
 Project: KMG - Howard 30N, 4C, 29N-21HZ OSA
 Fac BT1

N03@5'
4/29/2025 9:49:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5D0842-03 (Soil)
Origins Laboratory

Table 915 metals by EPA 6020B

Arsenic	5.65		0.258	mg/kg	10	B5D3043	04/30/2025	05/01/2025	
Barium	85.3		73.0	"	"	"	"	"	
Lead	ND		12.5	"	"	"	"	"	U
Nickel	ND		23.2	"	"	"	"	"	U

Origins Laboratory

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ORIGINS LABORATORY

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

Jeremy Espinoza
Project Number: 09A14171102
Project: KMG - Howard 30N, 4C, 29N-21HZ OSA
Fac BT1

E01@5'
4/29/2025 10:06:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5D0842-04 (Soil) Origins Laboratory									
Boron (DTPA Sorbitol)									
Boron	4.84		0.101	mg/kg	1	B5D3022	04/30/2025	05/05/2025	
DRO/ORO by EPA 8015D									
Diesel (C10-C28)	ND		25.0	mg/kg	1	B5D3044	04/30/2025	05/01/2025	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U
Surrogate: o-Terphenyl	74.3 %			50-150		"	"	"	
GBTEX+TMBs by 8260D									
1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B5E0174	05/01/2025	05/02/2025	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U
Surrogate: 1,2-Dichloroethane-d4	106 %			70-130		"	"	"	
Surrogate: Toluene-d8	95.7 %			70-130		"	"	"	
Surrogate: 4-Bromofluorobenzene	88.6 %			70-130		"	"	"	

Origins Laboratory



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Wheat Ridge CO 80033

Jeremy Espinoza
Project Number: 09A14171102
Project: KMG - Howard 30N, 4C, 29N-21HZ OSA
Fac BT1

E01@5'
4/29/2025 10:06:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5D0842-04 (Soil) Origins Laboratory									
PAH by EPA 8270E extracted via 3580A									
1-Methylnaphthalene	ND		0.002	mg/kg	1	B5E0301	05/03/2025	05/08/2025	U
2-Methylnaphthalene	ND		0.002	"	"	"	"	"	U
Acenaphthene	ND		0.020	"	"	"	"	"	U
Anthracene	ND		0.020	"	"	"	"	"	U
Benzo (a) anthracene	ND		0.005	"	"	"	"	"	U
Benzo (a) pyrene	ND		0.020	"	"	"	"	"	U
Benzo (b) fluoranthene	ND		0.020	"	"	"	"	"	U
Benzo (k) fluoranthene	ND		0.020	"	"	"	"	"	U
Chrysene	ND		0.020	"	"	"	"	"	U
Dibenz (a,h) anthracene	ND		0.020	"	"	"	"	"	U
Fluoranthene	ND		0.020	"	"	"	"	"	U
Fluorene	ND		0.020	"	"	"	"	"	U
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	U
Naphthalene	ND		0.002	"	"	"	"	"	U
Pyrene	ND		0.020	"	"	"	"	"	U
Surrogate: Fluorene-d10	98.8 %			60-130		"	"	"	
Surrogate: Anthracene-d10	92.9 %			60-130		"	"	"	
Surrogate: Pyrene-d10	99.2 %			60-130		"	"	"	
Surrogate: Benzo (a) pyrene-d12	101 %			60-130		"	"	"	

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Jeremy Espinoza
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 Project: KMG - Howard 30N, 4C, 29N-21HZ OSA
 Fac BT1

E01@5'
 4/29/2025 10:06:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5D0842-04 (Soil)
 Origins Laboratory

Table 915 metals by EPA 6020B

Arsenic	5.66		0.260	mg/kg	10	B5D3043	04/30/2025	05/01/2025	
Barium	215		73.5	"	"	"	"	"	
Lead	ND		12.6	"	"	"	"	"	U
Nickel	ND		23.3	"	"	"	"	"	U

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Jeremy Espinoza
Project Number: 09A14171102
Project: KMG - Howard 30N, 4C, 29N-21HZ OSA
Fac BT1

E02@5'
4/29/2025 10:02:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5D0842-05 (Soil)									
Origins Laboratory									
Boron (DTPA Sorbitol)									
Boron	5.14		0.100	mg/kg	1	B5D3022	04/30/2025	05/05/2025	
DRO/ORO by EPA 8015D									
Diesel (C10-C28)	ND		25.0	mg/kg	1	B5D3044	04/30/2025	05/01/2025	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U
Surrogate: <i>o</i> -Terphenyl	79.5 %			50-150		"	"	"	
GBTEX+TMBs by 8260D									
1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B5E0174	05/01/2025	05/02/2025	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U
Surrogate: 1,2-Dichloroethane-d4	105 %			70-130		"	"	"	
Surrogate: Toluene-d8	95.2 %			70-130		"	"	"	
Surrogate: 4-Bromofluorobenzene	91.2 %			70-130		"	"	"	

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 Wheat Ridge CO 80033

Jeremy Espinoza
 Project Number: 09A14171102
 Project: KMG - Howard 30N, 4C, 29N-21HZ OSA
 Fac BT1

E02@5'
 4/29/2025 10:02:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5D0842-05 (Soil)									
Origins Laboratory									
PAH by EPA 8270E extracted via 3580A									
1-Methylnaphthalene	ND		0.002	mg/kg	1	B5E0301	05/03/2025	05/08/2025	U
2-Methylnaphthalene	ND		0.002	"	"	"	"	"	U
Acenaphthene	ND		0.020	"	"	"	"	"	U
Anthracene	ND		0.020	"	"	"	"	"	U
Benzo (a) anthracene	ND		0.005	"	"	"	"	"	U
Benzo (a) pyrene	ND		0.020	"	"	"	"	"	U
Benzo (b) fluoranthene	ND		0.020	"	"	"	"	"	U
Benzo (k) fluoranthene	ND		0.020	"	"	"	"	"	U
Chrysene	ND		0.020	"	"	"	"	"	U
Dibenz (a,h) anthracene	ND		0.020	"	"	"	"	"	U
Fluoranthene	ND		0.020	"	"	"	"	"	U
Fluorene	ND		0.020	"	"	"	"	"	U
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	U
Naphthalene	ND		0.002	"	"	"	"	"	U
Pyrene	ND		0.020	"	"	"	"	"	U
Surrogate: Fluorene-d10	100 %			60-130		"	"	"	
Surrogate: Anthracene-d10	97.0 %			60-130		"	"	"	
Surrogate: Pyrene-d10	100 %			60-130		"	"	"	
Surrogate: Benzo (a) pyrene-d12	101 %			60-130		"	"	"	

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 Wheat Ridge CO 80033

Jeremy Espinoza
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 Project: KMG - Howard 30N, 4C, 29N-21HZ OSA
 Fac BT1

E02@5'
 4/29/2025 10:02:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5D0842-05 (Soil)
 Origins Laboratory

Table 915 metals by EPA 6020B

Arsenic	5.87		0.249	mg/kg	10	B5D3043	04/30/2025	05/01/2025	
Barium	411		70.3	"	"	"	"	"	
Lead	ND		12.0	"	"	"	"	"	U
Nickel	ND		22.3	"	"	"	"	"	U

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Project Number: 09A14171102
Project: KMG - Howard 30N, 4C, 29N-21HZ OSA
Fac BT1

S01@5'
4/29/2025 10:23:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5D0842-06 (Soil)
Origins Laboratory

Boron (DTPA Sorbitol)

Boron	0.336		0.0987	mg/kg	1	B5D3022	04/30/2025	05/05/2025	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	807		25.0	mg/kg	1	B5D3044	04/30/2025	05/01/2025	
Residual Range Organics (C28-C40)237			100	"	"	"	"	"	

Surrogate: o-Terphenyl	90.6 %				50-150	"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	5.78		0.500	mg/kg	250	B5E0174	05/01/2025	05/02/2025	
1,3,5-Trimethylbenzene	2.36		0.500	"	"	"	"	"	
Benzene	0.0860		0.0500	"	25	"	"	05/08/2025	
Ethylbenzene	1.18		0.500	"	250	"	"	05/02/2025	
Toluene	5.70		0.500	"	"	"	"	"	
Xylenes, total	19.0		0.500	"	"	"	"	"	
Gasoline Range Hydrocarbons	611		50.0	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	101 %				70-130	"	"	"	
Surrogate: Toluene-d8	102 %				70-130	"	"	"	
Surrogate: 4-Bromofluorobenzene	102 %				70-130	"	"	"	

PAH by EPA 8270E extracted via 3580A

Origins Laboratory



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 Wheat Ridge CO 80033

Jeremy Espinoza
 Project Number: 09A14171102
 Project: KMG - Howard 30N, 4C, 29N-21HZ OSA
 Fac BT1

S01@5'
 4/29/2025 10:23:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5D0842-06 (Soil)									
Origins Laboratory									
PAH by EPA 8270E extracted via 3580A									
1-Methylnaphthalene	2.28		0.020	mg/kg	10	B5E0301	05/03/2025	05/08/2025	
2-Methylnaphthalene	5.32		0.020	"	"	"	"	"	
Acenaphthene	0.348		0.020	"	1	"	"	05/09/2025	
Anthracene	0.052		0.020	"	"	"	"	"	
Benzo (a) anthracene	ND		0.005	"	"	"	"	"	U
Benzo (a) pyrene	ND		0.020	"	"	"	"	"	U
Benzo (b) fluoranthene	ND		0.020	"	"	"	"	"	U
Benzo (k) fluoranthene	ND		0.020	"	"	"	"	"	U
Chrysene	0.046		0.020	"	"	"	"	"	
Dibenz (a,h) anthracene	ND		0.020	"	"	"	"	"	U
Fluoranthene	ND		0.020	"	"	"	"	"	U
Fluorene	0.362		0.020	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	U
Naphthalene	1.42		0.020	"	10	"	"	05/08/2025	
Pyrene	0.031		0.020	"	1	"	"	05/09/2025	
Surrogate: Fluorene-d10	105 %			60-130		"	"	"	
Surrogate: Anthracene-d10	98.5 %			60-130		"	"	"	
Surrogate: Pyrene-d10	90.3 %			60-130		"	"	"	
Surrogate: Benzo (a) pyrene-d12	101 %			60-130		"	"	"	

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 Wheat Ridge CO 80033

Jeremy Espinoza
 Project Number: 09A14171102
 Project: KMG - Howard 30N, 4C, 29N-21HZ OSA
 Fac BT1

S01@5'
 4/29/2025 10:23:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5D0842-06 (Soil)
 Origins Laboratory

Table 915 metals by EPA 6020B

Arsenic	6.75		0.256	mg/kg	10	B5D3043	04/30/2025	05/01/2025	
Barium	308		72.4	"	"	"	"	"	
Lead	ND		12.4	"	"	"	"	"	U
Nickel	ND		23.0	"	"	"	"	"	U

Origins Laboratory

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 Wheat Ridge CO 80033

Jeremy Espinoza
 Project Number: 09A14171102
 Project: KMG - Howard 30N, 4C, 29N-21HZ OSA
 Fac BT1

S02@5'
4/29/2025 10:27:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5D0842-07 (Soil) Origins Laboratory									
Boron (DTPA Sorbitol)									
Boron	1.95		0.100	mg/kg	1	B5D3022	04/30/2025	05/05/2025	
DRO/ORO by EPA 8015D									
Diesel (C10-C28)	ND		25.0	mg/kg	1	B5D3044	04/30/2025	05/01/2025	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U
Surrogate: o-Terphenyl	86.1 %			50-150		"	"	"	
GBTEX+TMBs by 8260D									
1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B5E0174	05/01/2025	05/02/2025	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U
Surrogate: 1,2-Dichloroethane-d4	101 %			70-130		"	"	"	
Surrogate: Toluene-d8	95.9 %			70-130		"	"	"	
Surrogate: 4-Bromofluorobenzene	89.7 %			70-130		"	"	"	

Origins Laboratory

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Ensolum
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 Wheat Ridge CO 80033

Jeremy Espinoza
 Project Number: 09A14171102
 Project: KMG - Howard 30N, 4C, 29N-21HZ OSA
 Fac BT1

S02@5'
4/29/2025 10:27:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5D0842-07 (Soil)									
Origins Laboratory									
PAH by EPA 8270E extracted via 3580A									
1-Methylnaphthalene	ND		0.002	mg/kg	1	B5E0301	05/03/2025	05/08/2025	U
2-Methylnaphthalene	ND		0.002	"	"	"	"	"	U
Acenaphthene	ND		0.020	"	"	"	"	"	U
Anthracene	ND		0.020	"	"	"	"	"	U
Benzo (a) anthracene	ND		0.005	"	"	"	"	"	U
Benzo (a) pyrene	ND		0.020	"	"	"	"	"	U
Benzo (b) fluoranthene	ND		0.020	"	"	"	"	"	U
Benzo (k) fluoranthene	ND		0.020	"	"	"	"	"	U
Chrysene	ND		0.020	"	"	"	"	"	U
Dibenz (a,h) anthracene	ND		0.020	"	"	"	"	"	U
Fluoranthene	ND		0.020	"	"	"	"	"	U
Fluorene	ND		0.020	"	"	"	"	"	U
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	U
Naphthalene	ND		0.002	"	"	"	"	"	U
Pyrene	ND		0.020	"	"	"	"	"	U
Surrogate: Fluorene-d10	100 %			60-130		"	"	"	
Surrogate: Anthracene-d10	88.7 %			60-130		"	"	"	
Surrogate: Pyrene-d10	101 %			60-130		"	"	"	
Surrogate: Benzo (a) pyrene-d12	95.6 %			60-130		"	"	"	

Origins Laboratory



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

Jeremy Espinoza
 Project Number: 09A14171102
 Project: KMG - Howard 30N, 4C, 29N-21HZ OSA
 Fac BT1

S02@5'
4/29/2025 10:27:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5D0842-07 (Soil)
Origins Laboratory

Table 915 metals by EPA 6020B

Arsenic	6.52		0.257	mg/kg	10	B5D3043	04/30/2025	05/01/2025	
Barium	171		72.8	"	"	"	"	"	
Lead	ND		12.4	"	"	"	"	"	U
Nickel	ND		23.1	"	"	"	"	"	U

Origins Laboratory

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 Wheat Ridge CO 80033

Jeremy Espinoza
 Project Number: 09A14171102
 Project: KMG - Howard 30N, 4C, 29N-21HZ OSA
 Fac BT1

W01@5'
4/29/2025 10:09:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5D0842-08 (Soil)
Origins Laboratory

Boron (DTPA Sorbitol)

Boron	3.28		0.101	mg/kg	1	B5D3022	04/30/2025	05/05/2025	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B5D3044	04/30/2025	05/01/2025	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	76.9 %				50-150	"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	0.00318		0.00200	mg/kg	1	B5E0174	05/01/2025	05/02/2025	
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	0.00456		0.00200	"	"	"	"	"	
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Toluene	0.0144		0.00200	"	"	"	"	"	
Xylenes, total	0.0153		0.00200	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	103 %				70-130	"	"	"	
Surrogate: Toluene-d8	96.3 %				70-130	"	"	"	
Surrogate: 4-Bromofluorobenzene	88.7 %				70-130	"	"	"	

Origins Laboratory

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Wheat Ridge CO 80033

Jeremy Espinoza
Project Number: 09A14171102
Project: KMG - Howard 30N, 4C, 29N-21HZ OSA
Fac BT1

W01@5'
4/29/2025 10:09:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5D0842-08 (Soil)									
Origins Laboratory									
PAH by EPA 8270E extracted via 3580A									
1-Methylnaphthalene	ND		0.002	mg/kg	1	B5E0301	05/03/2025	05/08/2025	U
2-Methylnaphthalene	0.002		0.002	"	"	"	"	"	
Acenaphthene	ND		0.020	"	"	"	"	"	U
Anthracene	ND		0.020	"	"	"	"	"	U
Benzo (a) anthracene	ND		0.005	"	"	"	"	"	U
Benzo (a) pyrene	ND		0.020	"	"	"	"	"	U
Benzo (b) fluoranthene	ND		0.020	"	"	"	"	"	U
Benzo (k) fluoranthene	ND		0.020	"	"	"	"	"	U
Chrysene	ND		0.020	"	"	"	"	"	U
Dibenz (a,h) anthracene	ND		0.020	"	"	"	"	"	U
Fluoranthene	ND		0.020	"	"	"	"	"	U
Fluorene	ND		0.020	"	"	"	"	"	U
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	U
Naphthalene	0.002		0.002	"	"	"	"	"	
Pyrene	ND		0.020	"	"	"	"	"	U
Surrogate: Fluorene-d10	99.2 %			60-130		"	"	"	
Surrogate: Anthracene-d10	93.4 %			60-130		"	"	"	
Surrogate: Pyrene-d10	100 %			60-130		"	"	"	
Surrogate: Benzo (a) pyrene-d12	102 %			60-130		"	"	"	

Origins Laboratory



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Jeremy Espinoza
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 Project: KMG - Howard 30N, 4C, 29N-21HZ OSA
 Fac BT1

W01@5'

4/29/2025 10:09:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5D0842-08 (Soil)
 Origins Laboratory

Table 915 metals by EPA 6020B

Arsenic	6.30		0.243	mg/kg	10	B5D3043	04/30/2025	05/01/2025	
Barium	129		68.7	"	"	"	"	"	
Lead	11.9		11.7	"	"	"	"	"	
Nickel	ND		21.8	"	"	"	"	"	U

Origins Laboratory

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 Project: KMG - Howard 30N, 4C, 29N-21HZ OSA
 Fac BT1

W02@5'
4/29/2025 10:13:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5D0842-09 (Soil)									
Origins Laboratory									
Boron (DTPA Sorbitol)									
Boron	2.91		0.0993	mg/kg	1	B5D3022	04/30/2025	05/05/2025	
DRO/ORO by EPA 8015D									
Diesel (C10-C28)	ND		25.0	mg/kg	1	B5D3044	04/30/2025	05/01/2025	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U
Surrogate: o-Terphenyl	74.4 %			50-150		"	"	"	
GBTEX+TMBs by 8260D									
1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B5E0174	05/01/2025	05/02/2025	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U
Surrogate: 1,2-Dichloroethane-d4	103 %			70-130		"	"	"	
Surrogate: Toluene-d8	96.8 %			70-130		"	"	"	
Surrogate: 4-Bromofluorobenzene	89.6 %			70-130		"	"	"	

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Jeremy Espinoza
 Project Number: 09A14171102
 Project: KMG - Howard 30N, 4C, 29N-21HZ OSA
 Fac BT1

W02@5'
4/29/2025 10:13:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5D0842-09 (Soil)									
Origins Laboratory									
PAH by EPA 8270E extracted via 3580A									
1-Methylnaphthalene	ND		0.002	mg/kg	1	B5E0301	05/03/2025	05/08/2025	U
2-Methylnaphthalene	ND		0.002	"	"	"	"	"	U
Acenaphthene	ND		0.020	"	"	"	"	"	U
Anthracene	ND		0.020	"	"	"	"	"	U
Benzo (a) anthracene	ND		0.005	"	"	"	"	"	U
Benzo (a) pyrene	ND		0.020	"	"	"	"	"	U
Benzo (b) fluoranthene	ND		0.020	"	"	"	"	"	U
Benzo (k) fluoranthene	ND		0.020	"	"	"	"	"	U
Chrysene	ND		0.020	"	"	"	"	"	U
Dibenz (a,h) anthracene	ND		0.020	"	"	"	"	"	U
Fluoranthene	ND		0.020	"	"	"	"	"	U
Fluorene	ND		0.020	"	"	"	"	"	U
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	U
Naphthalene	ND		0.002	"	"	"	"	"	U
Pyrene	ND		0.020	"	"	"	"	"	U
Surrogate: Fluorene-d10	99.1 %			60-130		"	"	"	
Surrogate: Anthracene-d10	95.5 %			60-130		"	"	"	
Surrogate: Pyrene-d10	101 %			60-130		"	"	"	
Surrogate: Benzo (a) pyrene-d12	100 %			60-130		"	"	"	

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 Fac BT1

W02@5'

4/29/2025 10:13:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5D0842-09 (Soil)
 Origins Laboratory

Table 915 metals by EPA 6020B

Arsenic	5.41		0.243	mg/kg	10	B5D3043	04/30/2025	05/01/2025	
Barium	297		68.8	"	"	"	"	"	
Lead	11.9		11.7	"	"	"	"	"	
Nickel	ND		21.8	"	"	"	"	"	U

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 Project: KMG - Howard 30N, 4C, 29N-21HZ OSA
 Fac BT1

W03@5'

4/29/2025 10:19:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5D0842-10 (Soil)									
Origins Laboratory									
Boron (DTPA Sorbitol)									
Boron	0.764		0.100	mg/kg	1	B5D3022	04/30/2025	05/05/2025	
DRO/ORO by EPA 8015D									
Diesel (C10-C28)	ND		25.0	mg/kg	1	B5D3044	04/30/2025	05/01/2025	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U
Surrogate: o-Terphenyl	82.0 %			50-150		"	"	"	
GBTEX+TMBs by 8260D									
1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B5E0174	05/01/2025	05/02/2025	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U
Surrogate: 1,2-Dichloroethane-d4	104 %			70-130		"	"	"	
Surrogate: Toluene-d8	96.8 %			70-130		"	"	"	
Surrogate: 4-Bromofluorobenzene	90.1 %			70-130		"	"	"	

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 Wheat Ridge CO 80033

Jeremy Espinoza
 Project Number: 09A14171102
 Project: KMG - Howard 30N, 4C, 29N-21HZ OSA
 Fac BT1

W03@5'

4/29/2025 10:19:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5D0842-10 (Soil)									
Origins Laboratory									
PAH by EPA 8270E extracted via 3580A									
1-Methylnaphthalene	ND		0.002	mg/kg	1	B5E0301	05/03/2025	05/08/2025	U
2-Methylnaphthalene	ND		0.002	"	"	"	"	"	U
Acenaphthene	ND		0.020	"	"	"	"	"	U
Anthracene	ND		0.020	"	"	"	"	"	U
Benzo (a) anthracene	ND		0.005	"	"	"	"	"	U
Benzo (a) pyrene	ND		0.020	"	"	"	"	"	U
Benzo (b) fluoranthene	ND		0.020	"	"	"	"	"	U
Benzo (k) fluoranthene	ND		0.020	"	"	"	"	"	U
Chrysene	ND		0.020	"	"	"	"	"	U
Dibenz (a,h) anthracene	ND		0.020	"	"	"	"	"	U
Fluoranthene	ND		0.020	"	"	"	"	"	U
Fluorene	ND		0.020	"	"	"	"	"	U
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	U
Naphthalene	ND		0.002	"	"	"	"	"	U
Pyrene	ND		0.020	"	"	"	"	"	U
Surrogate: Fluorene-d10	99.7 %			60-130		"	"	"	
Surrogate: Anthracene-d10	96.2 %			60-130		"	"	"	
Surrogate: Pyrene-d10	99.2 %			60-130		"	"	"	
Surrogate: Benzo (a) pyrene-d12	99.9 %			60-130		"	"	"	

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 Project: KMG - Howard 30N, 4C, 29N-21HZ OSA
 Fac BT1

W03@5'

4/29/2025 10:19:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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E5D0842-10 (Soil)
 Origins Laboratory

Table 915 metals by EPA 6020B

Arsenic	5.34		0.266	mg/kg	10	B5D3043	04/30/2025	05/01/2025	
Barium	470		75.2	"	"	"	"	"	
Lead	ND		12.8	"	"	"	"	"	U
Nickel	ND		23.8	"	"	"	"	"	U

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Wheat Ridge CO 80033

Jeremy Espinoza
Project Number: 09A14171102
Project: KMG - Howard 30N, 4C, 29N-21HZ OSA
Fac BT1

B01@10'
4/29/2025 9:30:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5D0842-21 (Soil)									
Origins Laboratory									
Boron (DTPA Sorbitol)									
Boron	2.76		0.101	mg/kg	1	B5D3022	04/30/2025	05/05/2025	
DRO/ORO by EPA 8015D									
Diesel (C10-C28)	ND		25.0	mg/kg	1	B5D3044	04/30/2025	05/01/2025	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U
Surrogate: <i>o</i> -Terphenyl	90.1 %			50-150		"	"	"	
GBTEX+TMBs by 8260D									
1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B5E0174	05/01/2025	05/02/2025	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U
Surrogate: 1,2-Dichloroethane-d4	106 %			70-130		"	"	"	
Surrogate: Toluene-d8	96.0 %			70-130		"	"	"	
Surrogate: 4-Bromofluorobenzene	92.9 %			70-130		"	"	"	

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Jeremy Espinoza
Project Number: 09A14171102
Project: KMG - Howard 30N, 4C, 29N-21HZ OSA
Fac BT1

B01@10'
4/29/2025 9:30:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5D0842-21 (Soil)									
Origins Laboratory									
PAH by EPA 8270E extracted via 3580A									
1-Methylnaphthalene	ND		0.002	mg/kg	1	B5E0301	05/03/2025	05/08/2025	U
2-Methylnaphthalene	ND		0.002	"	"	"	"	"	U
Acenaphthene	ND		0.020	"	"	"	"	"	U
Anthracene	ND		0.020	"	"	"	"	"	U
Benzo (a) anthracene	ND		0.005	"	"	"	"	"	U
Benzo (a) pyrene	ND		0.020	"	"	"	"	"	U
Benzo (b) fluoranthene	ND		0.020	"	"	"	"	"	U
Benzo (k) fluoranthene	ND		0.020	"	"	"	"	"	U
Chrysene	ND		0.020	"	"	"	"	"	U
Dibenz (a,h) anthracene	ND		0.020	"	"	"	"	"	U
Fluoranthene	ND		0.020	"	"	"	"	"	U
Fluorene	ND		0.020	"	"	"	"	"	U
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	U
Naphthalene	ND		0.002	"	"	"	"	"	U
Pyrene	ND		0.020	"	"	"	"	"	U
Surrogate: Fluorene-d10	99.4 %			60-130		"	"	"	
Surrogate: Anthracene-d10	93.5 %			60-130		"	"	"	
Surrogate: Pyrene-d10	99.7 %			60-130		"	"	"	
Surrogate: Benzo (a) pyrene-d12	102 %			60-130		"	"	"	

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Project Number: 09A14171102
Project: KMG - Howard 30N, 4C, 29N-21HZ OSA
Fac BT1

B01@10'

4/29/2025 9:30:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**E5D0842-21 (Soil)
Origins Laboratory**

Table 915 metals by EPA 6020B

Arsenic	5.03		0.253	mg/kg	10	B5D3043	04/30/2025	05/01/2025	
Barium	438		71.6	"	"	"	"	"	
Lead	12.2		12.2	"	"	"	"	"	U
Nickel	ND		22.7	"	"	"	"	"	U

Origins Laboratory



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 Wheat Ridge CO 80033

Jeremy Espinoza
 Project Number: 09A14171102
 Project: KMG - Howard 30N, 4C, 29N-21HZ OSA
 Fac BT1

B02@10'
4/29/2025 9:20:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5D0842-22 (Soil)									
Origins Laboratory									
Boron (DTPA Sorbitol)									
Boron	4.02		0.0989	mg/kg	1	B5D3022	04/30/2025	05/05/2025	
DRO/ORO by EPA 8015D									
Diesel (C10-C28)	ND		25.0	mg/kg	1	B5D3044	04/30/2025	05/01/2025	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U
Surrogate: o-Terphenyl	81.7 %			50-150		"	"	"	
GBTEX+TMBs by 8260D									
1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B5E0174	05/01/2025	05/02/2025	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U
Surrogate: 1,2-Dichloroethane-d4	107 %			70-130		"	"	"	
Surrogate: Toluene-d8	95.7 %			70-130		"	"	"	
Surrogate: 4-Bromofluorobenzene	94.2 %			70-130		"	"	"	

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

Jeremy Espinoza
 Project Number: 09A14171102
 Project: KMG - Howard 30N, 4C, 29N-21HZ OSA
 Fac BT1

B02@10'
4/29/2025 9:20:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5D0842-22 (Soil)									
Origins Laboratory									
PAH by EPA 8270E extracted via 3580A									
1-Methylnaphthalene	ND		0.002	mg/kg	1	B5E0301	05/03/2025	05/08/2025	U
2-Methylnaphthalene	ND		0.002	"	"	"	"	"	U
Acenaphthene	ND		0.020	"	"	"	"	"	U
Anthracene	ND		0.020	"	"	"	"	"	U
Benzo (a) anthracene	ND		0.005	"	"	"	"	"	U
Benzo (a) pyrene	ND		0.020	"	"	"	"	"	U
Benzo (b) fluoranthene	ND		0.020	"	"	"	"	"	U
Benzo (k) fluoranthene	ND		0.020	"	"	"	"	"	U
Chrysene	ND		0.020	"	"	"	"	"	U
Dibenz (a,h) anthracene	ND		0.020	"	"	"	"	"	U
Fluoranthene	ND		0.020	"	"	"	"	"	U
Fluorene	ND		0.020	"	"	"	"	"	U
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	U
Naphthalene	ND		0.002	"	"	"	"	"	U
Pyrene	ND		0.020	"	"	"	"	"	U
Surrogate: Fluorene-d10	99.0 %			60-130		"	"	"	
Surrogate: Anthracene-d10	89.8 %			60-130		"	"	"	
Surrogate: Pyrene-d10	101 %			60-130		"	"	"	
Surrogate: Benzo (a) pyrene-d12	103 %			60-130		"	"	"	

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 Project: KMG - Howard 30N, 4C, 29N-21HZ OSA
 Fac BT1

B02@10'

4/29/2025 9:20:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**E5D0842-22 (Soil)
 Origins Laboratory**

Table 915 metals by EPA 6020B

Arsenic	5.45		0.254	mg/kg	10	B5D3043	04/30/2025	05/01/2025	
Barium	122		71.8	"	"	"	"	"	
Lead	12.7		12.3	"	"	"	"	"	
Nickel	ND		22.8	"	"	"	"	"	U

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Jeremy Espinoza
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 Project: KMG - Howard 30N, 4C, 29N-21HZ OSA
 Fac BT1

B03@10'

4/29/2025 9:34:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5D0842-23 (Soil) Origins Laboratory									
Boron (DTPA Sorbitol)									
Boron	4.44		0.101	mg/kg	1	B5D3022	04/30/2025	05/05/2025	
DRO/ORO by EPA 8015D									
Diesel (C10-C28)	ND		25.0	mg/kg	1	B5D3044	04/30/2025	05/01/2025	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U
Surrogate: <i>o</i> -Terphenyl	80.3 %			50-150		"	"	"	
GBTEX+TMBs by 8260D									
1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B5E0174	05/01/2025	05/02/2025	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U
Surrogate: 1,2-Dichloroethane-d4	105 %			70-130		"	"	"	
Surrogate: Toluene-d8	96.8 %			70-130		"	"	"	
Surrogate: 4-Bromofluorobenzene	91.3 %			70-130		"	"	"	

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 Fac BT1

B03@10'

4/29/2025 9:34:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5D0842-23 (Soil)									
Origins Laboratory									
PAH by EPA 8270E extracted via 3580A									
1-Methylnaphthalene	ND		0.002	mg/kg	1	B5E0301	05/03/2025	05/08/2025	U
2-Methylnaphthalene	ND		0.002	"	"	"	"	"	U
Acenaphthene	ND		0.020	"	"	"	"	"	U
Anthracene	ND		0.020	"	"	"	"	"	U
Benzo (a) anthracene	ND		0.005	"	"	"	"	"	U
Benzo (a) pyrene	ND		0.020	"	"	"	"	"	U
Benzo (b) fluoranthene	ND		0.020	"	"	"	"	"	U
Benzo (k) fluoranthene	ND		0.020	"	"	"	"	"	U
Chrysene	ND		0.020	"	"	"	"	"	U
Dibenz (a,h) anthracene	ND		0.020	"	"	"	"	"	U
Fluoranthene	ND		0.020	"	"	"	"	"	U
Fluorene	ND		0.020	"	"	"	"	"	U
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	U
Naphthalene	ND		0.002	"	"	"	"	"	U
Pyrene	ND		0.020	"	"	"	"	"	U
Surrogate: Fluorene-d10	98.8 %			60-130		"	"	"	
Surrogate: Anthracene-d10	83.2 %			60-130		"	"	"	
Surrogate: Pyrene-d10	101 %			60-130		"	"	"	
Surrogate: Benzo (a) pyrene-d12	99.3 %			60-130		"	"	"	

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 Fac BT1

B03@10'

4/29/2025 9:34:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**E5D0842-23 (Soil)
 Origins Laboratory**

Table 915 metals by EPA 6020B

Arsenic	5.55		0.249	mg/kg	10	B5D3043	04/30/2025	05/01/2025	
Barium	152		70.5	"	"	"	"	"	
Lead	12.2		12.0	"	"	"	"	"	
Nickel	ND		22.4	"	"	"	"	"	U

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 Fac BT1

B04@10'
4/29/2025 9:24:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5D0842-24 (Soil) Origins Laboratory									
Boron (DTPA Sorbitol)									
Boron	4.80		0.101	mg/kg	1	B5D3022	04/30/2025	05/05/2025	
DRO/ORO by EPA 8015D									
Diesel (C10-C28)	ND		25.0	mg/kg	1	B5D3044	04/30/2025	05/01/2025	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U
Surrogate: o-Terphenyl	80.8 %			50-150		"	"	"	
GBTEX+TMBs by 8260D									
1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B5E0174	05/01/2025	05/02/2025	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U
Surrogate: 1,2-Dichloroethane-d4	106 %			70-130		"	"	"	
Surrogate: Toluene-d8	96.1 %			70-130		"	"	"	
Surrogate: 4-Bromofluorobenzene	93.2 %			70-130		"	"	"	

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 Project: KMG - Howard 30N, 4C, 29N-21HZ OSA
 Fac BT1

B04@10'
4/29/2025 9:24:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5D0842-24 (Soil)									
Origins Laboratory									
PAH by EPA 8270E extracted via 3580A									
1-Methylnaphthalene	ND		0.002	mg/kg	1	B5E0301	05/03/2025	05/08/2025	U
2-Methylnaphthalene	ND		0.002	"	"	"	"	"	U
Acenaphthene	ND		0.020	"	"	"	"	"	U
Anthracene	ND		0.020	"	"	"	"	"	U
Benzo (a) anthracene	ND		0.005	"	"	"	"	"	U
Benzo (a) pyrene	ND		0.020	"	"	"	"	"	U
Benzo (b) fluoranthene	ND		0.020	"	"	"	"	"	U
Benzo (k) fluoranthene	ND		0.020	"	"	"	"	"	U
Chrysene	ND		0.020	"	"	"	"	"	U
Dibenz (a,h) anthracene	ND		0.020	"	"	"	"	"	U
Fluoranthene	ND		0.020	"	"	"	"	"	U
Fluorene	ND		0.020	"	"	"	"	"	U
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	U
Naphthalene	ND		0.002	"	"	"	"	"	U
Pyrene	ND		0.020	"	"	"	"	"	U
Surrogate: Fluorene-d10	98.5 %			60-130		"	"	"	
Surrogate: Anthracene-d10	91.4 %			60-130		"	"	"	
Surrogate: Pyrene-d10	100 %			60-130		"	"	"	
Surrogate: Benzo (a) pyrene-d12	104 %			60-130		"	"	"	

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Project Number: 09A14171102
Project: KMG - Howard 30N, 4C, 29N-21HZ OSA
Fac BT1

B04@10'

4/29/2025 9:24:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5D0842-24 (Soil) Origins Laboratory									
Table 915 metals by EPA 6020B									
Arsenic	4.64		0.278	mg/kg	10	B5D3043	04/30/2025	05/01/2025	
Barium	ND		78.5	"	"	"	"	"	U
Lead	ND		13.4	"	"	"	"	"	U
Nickel	ND		24.9	"	"	"	"	"	U

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Jeremy Espinoza
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 Project: KMG - Howard 30N, 4C, 29N-21HZ OSA
 Fac BT1

B05@10'

4/29/2025 9:41:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**E5D0842-25 (Soil)
 Origins Laboratory**

Boron (DTPA Sorbitol)

Boron	4.04		0.101	mg/kg	1	B5D3022	04/30/2025	05/05/2025	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B5D3044	04/30/2025	05/01/2025	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	73.9 %								
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B5E0174	05/01/2025	05/02/2025	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	105 %								
Surrogate: Toluene-d8	96.8 %								
Surrogate: 4-Bromofluorobenzene	93.4 %								

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Project: KMG - Howard 30N, 4C, 29N-21HZ OSA
Fac BT1

B05@10'

4/29/2025 9:41:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5D0842-25 (Soil) Origins Laboratory									
PAH by EPA 8270E extracted via 3580A									
1-Methylnaphthalene	ND		0.002	mg/kg	1	B5E0301	05/03/2025	05/08/2025	U
2-Methylnaphthalene	ND		0.002	"	"	"	"	"	U
Acenaphthene	ND		0.020	"	"	"	"	"	U
Anthracene	ND		0.020	"	"	"	"	"	U
Benzo (a) anthracene	ND		0.005	"	"	"	"	"	U
Benzo (a) pyrene	ND		0.020	"	"	"	"	"	U
Benzo (b) fluoranthene	ND		0.020	"	"	"	"	"	U
Benzo (k) fluoranthene	ND		0.020	"	"	"	"	"	U
Chrysene	ND		0.020	"	"	"	"	"	U
Dibenz (a,h) anthracene	ND		0.020	"	"	"	"	"	U
Fluoranthene	ND		0.020	"	"	"	"	"	U
Fluorene	ND		0.020	"	"	"	"	"	U
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	U
Naphthalene	ND		0.002	"	"	"	"	"	U
Pyrene	ND		0.020	"	"	"	"	"	U
Surrogate: Fluorene-d10	96.6 %			60-130		"	"	"	
Surrogate: Anthracene-d10	90.0 %			60-130		"	"	"	
Surrogate: Pyrene-d10	99.4 %			60-130		"	"	"	
Surrogate: Benzo (a) pyrene-d12	98.7 %			60-130		"	"	"	

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 Fac BT1

B05@10'

4/29/2025 9:41:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**E5D0842-25 (Soil)
 Origins Laboratory**

Table 915 metals by EPA 6020B

Arsenic	6.23		0.273	mg/kg	10	B5D3043	04/30/2025	05/01/2025	
Barium	484		77.2	"	"	"	"	"	
Lead	ND		13.2	"	"	"	"	"	U
Nickel	ND		24.5	"	"	"	"	"	U

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Wheat Ridge CO 80033

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Project Number: 09A14171102
Project: KMG - Howard 30N, 4C, 29N-21HZ OSA
Fac BT1

SS02

4/29/2025 11:04:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5D0842-31 (Soil) Origins Laboratory									
Boron (DTPA Sorbitol)									
Boron	1.07		0.0991	mg/kg	1	B5D3022	04/30/2025	05/05/2025	
DRO/ORO by EPA 8015D									
Diesel (C10-C28)	ND		25.0	mg/kg	1	B5D3044	04/30/2025	05/01/2025	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U
Surrogate: o-Terphenyl	77.9 %			50-150		"	"	"	
GBTEX+TMBs by 8260D									
1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B5E0176	05/01/2025	05/03/2025	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U
Surrogate: 1,2-Dichloroethane-d4	84.9 %			70-130		"	"	"	
Surrogate: Toluene-d8	96.7 %			70-130		"	"	"	
Surrogate: 4-Bromofluorobenzene	99.5 %			70-130		"	"	"	

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 Fac BT1

SS02
4/29/2025 11:04:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5D0842-31 (Soil)									
Origins Laboratory									
PAH by EPA 8270E extracted via 3580A									
1-Methylnaphthalene	ND		0.002	mg/kg	1	B5E0301	05/03/2025	05/08/2025	U
2-Methylnaphthalene	ND		0.002	"	"	"	"	"	U
Acenaphthene	ND		0.020	"	"	"	"	"	U
Anthracene	ND		0.020	"	"	"	"	"	U
Benzo (a) anthracene	ND		0.005	"	"	"	"	"	U
Benzo (a) pyrene	ND		0.020	"	"	"	"	"	U
Benzo (b) fluoranthene	ND		0.020	"	"	"	"	"	U
Benzo (k) fluoranthene	ND		0.020	"	"	"	"	"	U
Chrysene	ND		0.020	"	"	"	"	"	U
Dibenz (a,h) anthracene	ND		0.020	"	"	"	"	"	U
Fluoranthene	ND		0.020	"	"	"	"	"	U
Fluorene	ND		0.020	"	"	"	"	"	U
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	U
Naphthalene	ND		0.002	"	"	"	"	"	U
Pyrene	ND		0.020	"	"	"	"	"	U
Surrogate: Fluorene-d10	99.8 %			60-130		"	"	"	
Surrogate: Anthracene-d10	94.4 %			60-130		"	"	"	
Surrogate: Pyrene-d10	99.9 %			60-130		"	"	"	
Surrogate: Benzo (a) pyrene-d12	101 %			60-130		"	"	"	

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 Fac BT1

SS02

4/29/2025 11:04:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**E5D0842-31 (Soil)
 Origins Laboratory**

Table 915 metals by EPA 6020B

Arsenic	4.39		0.273	mg/kg	10	B5D3043	04/30/2025	05/01/2025	
Barium	140		77.2	"	"	"	"	"	
Lead	ND		13.2	"	"	"	"	"	U
Nickel	ND		24.5	"	"	"	"	"	U

Origins Laboratory

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

Jeremy Espinoza
 Project Number: 09A14171102
 Project: KMG - Howard 30N, 4C, 29N-21HZ OSA
 Fac BT1

SS03

4/29/2025 11:10:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**E5D0842-32 (Soil)
 Origins Laboratory**

Boron (DTPA Sorbitol)

Boron	0.887		0.100	mg/kg	1	B5D3022	04/30/2025	05/05/2025	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B5D3044	04/30/2025	05/01/2025	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	80.6 %								
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B5E0176	05/01/2025	05/03/2025	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	91.5 %								
Surrogate: Toluene-d8	97.6 %								
Surrogate: 4-Bromofluorobenzene	98.5 %								

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 Project: KMG - Howard 30N, 4C, 29N-21HZ OSA
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SS03
4/29/2025 11:10:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5D0842-32 (Soil)									
Origins Laboratory									
PAH by EPA 8270E extracted via 3580A									
1-Methylnaphthalene	ND		0.002	mg/kg	1	B5E0301	05/03/2025	05/08/2025	U
2-Methylnaphthalene	ND		0.002	"	"	"	"	"	U
Acenaphthene	ND		0.020	"	"	"	"	"	U
Anthracene	ND		0.020	"	"	"	"	"	U
Benzo (a) anthracene	ND		0.005	"	"	"	"	"	U
Benzo (a) pyrene	ND		0.020	"	"	"	"	"	U
Benzo (b) fluoranthene	ND		0.020	"	"	"	"	"	U
Benzo (k) fluoranthene	ND		0.020	"	"	"	"	"	U
Chrysene	ND		0.020	"	"	"	"	"	U
Dibenz (a,h) anthracene	ND		0.020	"	"	"	"	"	U
Fluoranthene	ND		0.020	"	"	"	"	"	U
Fluorene	ND		0.020	"	"	"	"	"	U
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	U
Naphthalene	ND		0.002	"	"	"	"	"	U
Pyrene	ND		0.020	"	"	"	"	"	U
Surrogate: Fluorene-d10	101 %			60-130		"	"	"	
Surrogate: Anthracene-d10	93.1 %			60-130		"	"	"	
Surrogate: Pyrene-d10	101 %			60-130		"	"	"	
Surrogate: Benzo (a) pyrene-d12	103 %			60-130		"	"	"	

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SS03

4/29/2025 11:10:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**E5D0842-32 (Soil)
 Origins Laboratory**

Table 915 metals by EPA 6020B

Arsenic	5.61		0.266	mg/kg	10	B5D3045	04/30/2025	05/01/2025	
Barium	172		75.4	"	"	"	"	"	
Lead	ND		12.9	"	"	"	"	"	U
Nickel	ND		23.9	"	"	"	"	"	U

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SS04

4/29/2025 11:17:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5D0842-33 (Soil)									
Origins Laboratory									
Boron (DTPA Sorbitol)									
Boron	0.940		0.0985	mg/kg	1	B5D3022	04/30/2025	05/05/2025	
DRO/ORO by EPA 8015D									
Diesel (C10-C28)	ND		25.0	mg/kg	1	B5D3044	04/30/2025	05/01/2025	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U
Surrogate: <i>o</i> -Terphenyl	80.8 %			50-150		"	"	"	
GBTEX+TMBs by 8260D									
1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B5E0176	05/01/2025	05/03/2025	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U
Surrogate: 1,2-Dichloroethane-d4	88.6 %			70-130		"	"	"	
Surrogate: Toluene-d8	96.1 %			70-130		"	"	"	
Surrogate: 4-Bromofluorobenzene	102 %			70-130		"	"	"	

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SS04

4/29/2025 11:17:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5D0842-33 (Soil) Origins Laboratory									
PAH by EPA 8270E extracted via 3580A									
1-Methylnaphthalene	ND		0.002	mg/kg	1	B5E0301	05/03/2025	05/08/2025	U
2-Methylnaphthalene	ND		0.002	"	"	"	"	"	U
Acenaphthene	ND		0.020	"	"	"	"	"	U
Anthracene	ND		0.020	"	"	"	"	"	U
Benzo (a) anthracene	ND		0.005	"	"	"	"	"	U
Benzo (a) pyrene	ND		0.020	"	"	"	"	"	U
Benzo (b) fluoranthene	ND		0.020	"	"	"	"	"	U
Benzo (k) fluoranthene	ND		0.020	"	"	"	"	"	U
Chrysene	ND		0.020	"	"	"	"	"	U
Dibenz (a,h) anthracene	ND		0.020	"	"	"	"	"	U
Fluoranthene	ND		0.020	"	"	"	"	"	U
Fluorene	ND		0.020	"	"	"	"	"	U
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	U
Naphthalene	ND		0.002	"	"	"	"	"	U
Pyrene	ND		0.020	"	"	"	"	"	U
Surrogate: Fluorene-d10	101 %			60-130		"	"	"	
Surrogate: Anthracene-d10	94.5 %			60-130		"	"	"	
Surrogate: Pyrene-d10	98.8 %			60-130		"	"	"	
Surrogate: Benzo (a) pyrene-d12	102 %			60-130		"	"	"	

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SS04

4/29/2025 11:17:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**E5D0842-33 (Soil)
Origins Laboratory**

Table 915 metals by EPA 6020B

Arsenic	6.36		0.265	mg/kg	10	B5D3045	04/30/2025	05/01/2025	
Barium	198		74.8	"	"	"	"	"	
Lead	ND		12.8	"	"	"	"	"	U
Nickel	ND		23.7	"	"	"	"	"	U

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SS05

4/29/2025 11:21:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5D0842-34 (Soil) Origins Laboratory									
Boron (DTPA Sorbitol)									
Boron	1.52		0.0994	mg/kg	1	B5D3023	04/30/2025	05/02/2025	
DRO/ORO by EPA 8015D									
Diesel (C10-C28)	ND		25.0	mg/kg	1	B5D3044	04/30/2025	05/01/2025	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U
Surrogate: o-Terphenyl	80.7 %			50-150		"	"	"	
GBTEX+TMBs by 8260D									
1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B5E0176	05/01/2025	05/03/2025	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U
Surrogate: 1,2-Dichloroethane-d4	92.7 %			70-130		"	"	"	
Surrogate: Toluene-d8	95.6 %			70-130		"	"	"	
Surrogate: 4-Bromofluorobenzene	100 %			70-130		"	"	"	

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SS05
4/29/2025 11:21:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
E5D0842-34 (Soil)									
Origins Laboratory									
PAH by EPA 8270E extracted via 3580A									
1-Methylnaphthalene	ND		0.002	mg/kg	1	B5E0301	05/03/2025	05/08/2025	U
2-Methylnaphthalene	ND		0.002	"	"	"	"	"	U
Acenaphthene	ND		0.020	"	"	"	"	"	U
Anthracene	ND		0.020	"	"	"	"	"	U
Benzo (a) anthracene	ND		0.005	"	"	"	"	"	U
Benzo (a) pyrene	ND		0.020	"	"	"	"	"	U
Benzo (b) fluoranthene	ND		0.020	"	"	"	"	"	U
Benzo (k) fluoranthene	ND		0.020	"	"	"	"	"	U
Chrysene	ND		0.020	"	"	"	"	"	U
Dibenz (a,h) anthracene	ND		0.020	"	"	"	"	"	U
Fluoranthene	ND		0.020	"	"	"	"	"	U
Fluorene	ND		0.020	"	"	"	"	"	U
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	U
Naphthalene	ND		0.002	"	"	"	"	"	U
Pyrene	ND		0.020	"	"	"	"	"	U
Surrogate: Fluorene-d10	99.0 %			60-130		"	"	"	
Surrogate: Anthracene-d10	93.8 %			60-130		"	"	"	
Surrogate: Pyrene-d10	98.0 %			60-130		"	"	"	
Surrogate: Benzo (a) pyrene-d12	103 %			60-130		"	"	"	

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SS05

4/29/2025 11:21:00AM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**E5D0842-34 (Soil)
 Origins Laboratory**

Table 915 metals by EPA 6020B

Arsenic	6.29		0.270	mg/kg	10	B5D3045	04/30/2025	05/01/2025	
Barium	155		76.3	"	"	"	"	"	
Lead	ND		13.0	"	"	"	"	"	U
Nickel	ND		24.2	"	"	"	"	"	U

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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 B5D3022 - DTPA Sorbitol Preparation

Blank (B5D3022-BLK1)

Prepared: 04/30/2025 Analyzed: 05/05/2025

Boron	ND	0.100	mg/kg							U
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Duplicate (B5D3022-DUP1)

Source: E5D0840-01

Prepared: 04/30/2025 Analyzed: 05/05/2025

Boron	0.114	0.0997	mg/kg		0.131			13.4	50	
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Batch B5D3023 - DTPA Sorbitol Preparation

Blank (B5D3023-BLK1)

Prepared: 04/30/2025 Analyzed: 05/02/2025

Boron	ND	0.100	mg/kg							U
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Duplicate (B5D3023-DUP1)

Source: E5D0852-02

Prepared: 04/30/2025 Analyzed: 05/02/2025

Boron	1.83	0.0990	mg/kg		1.64			11.1	50	
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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 B5E0301 - EPA 3580

Blank (B5E0301-BLK1)

Prepared: 05/03/2025 Analyzed: 05/08/2025

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

Surrogate: Fluorene-d10	200		ug/kg	200		99.7	60-130			
Surrogate: Anthracene-d10	190		"	200		93.6	60-130			
Surrogate: Pyrene-d10	200		"	200		99.9	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		102	60-130			

LCS (B5E0301-BS1)

Prepared: 05/03/2025 Analyzed: 05/08/2025

1-Methylnaphthalene	0.179	0.002	mg/kg	0.200		89.4	70-130			
2-Methylnaphthalene	0.181	0.002	"	0.200		90.7	70-130			
Acenaphthene	0.192	0.020	"	0.200		95.8	70-130			
Anthracene	0.196	0.020	"	0.200		98.2	70-130			
Benzo (a) anthracene	0.200	0.005	"	0.200		99.8	70-130			
Benzo (a) pyrene	0.199	0.020	"	0.200		99.7	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 B5E0301 - EPA 3580

LCS (B5E0301-BS1)

Prepared: 05/03/2025 Analyzed: 05/08/2025

Benzo (b) fluoranthene	0.227	0.020	mg/kg	0.200		114	70-130			
Benzo (k) fluoranthene	0.206	0.020	"	0.200		103	70-130			
Chrysene	0.192	0.020	"	0.200		95.9	70-130			
Dibenz (a,h) anthracene	0.222	0.020	"	0.200		111	70-130			
Fluoranthene	0.212	0.020	"	0.200		106	70-130			
Fluorene	0.191	0.020	"	0.200		95.4	70-130			
Indeno (1,2,3-cd) pyrene	0.198	0.020	"	0.200		99.0	70-130			
Naphthalene	0.196	0.002	"	0.200		97.8	70-130			
Pyrene	0.206	0.020	"	0.200		103	70-130			
Surrogate: Fluorene-d10	200		ug/kg	200		99.7	60-130			
Surrogate: Anthracene-d10	190		"	200		92.6	60-130			
Surrogate: Pyrene-d10	200		"	200		99.7	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		102	60-130			

Matrix Spike (B5E0301-MS1)

Source: E5D0842-01

Prepared: 05/03/2025 Analyzed: 05/08/2025

1-Methylnaphthalene	0.191	0.002	mg/kg	0.200	ND	95.5	70-130			
2-Methylnaphthalene	0.191	0.002	"	0.200	0.001	94.9	70-130			
Acenaphthene	0.209	0.020	"	0.200	ND	104	70-130			
Anthracene	0.189	0.020	"	0.200	0.001	93.8	70-130			
Benzo (a) anthracene	0.222	0.005	"	0.200	0.001	110	70-130			
Benzo (a) pyrene	0.238	0.020	"	0.200	0.003	118	70-130			
Benzo (b) fluoranthene	0.267	0.020	"	0.200	0.003	132	70-130			QM-07
Benzo (k) fluoranthene	0.243	0.020	"	0.200	0.004	120	70-130			
Chrysene	0.215	0.020	"	0.200	0.002	107	70-130			
Dibenz (a,h) anthracene	0.259	0.020	"	0.200	0.009	125	70-130			
Fluoranthene	0.223	0.020	"	0.200	0.0006	111	70-130			
Fluorene	0.211	0.020	"	0.200	ND	105	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 B5E0301 - EPA 3580

Matrix Spike (B5E0301-MS1)

Source: E5D0842-01

Prepared: 05/03/2025 Analyzed: 05/08/2025

Indeno (1,2,3-cd) pyrene	0.227	0.020	mg/kg	0.200	0.009	109	70-130			
Naphthalene	0.210	0.002	"	0.200	ND	105	70-130			
Pyrene	0.223	0.020	"	0.200	ND	112	70-130			
Surrogate: Fluorene-d10	200		ug/kg	200		101	60-130			
Surrogate: Anthracene-d10	180		"	200		90.9	60-130			
Surrogate: Pyrene-d10	200		"	200		97.6	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		101	60-130			

Matrix Spike Dup (B5E0301-MSD1)

Source: E5D0842-01

Prepared: 05/03/2025 Analyzed: 05/08/2025

1-Methylnaphthalene	0.188	0.002	mg/kg	0.200	ND	94.1	70-130	1.46	20	
2-Methylnaphthalene	0.189	0.002	"	0.200	0.001	93.6	70-130	1.40	20	
Acenaphthene	0.207	0.020	"	0.200	ND	103	70-130	1.01	20	
Anthracene	0.195	0.020	"	0.200	0.001	96.6	70-130	2.94	20	
Benzo (a) anthracene	0.213	0.005	"	0.200	0.001	106	70-130	4.36	20	
Benzo (a) pyrene	0.242	0.020	"	0.200	0.003	120	70-130	1.91	20	
Benzo (b) fluoranthene	0.278	0.020	"	0.200	0.003	137	70-130	4.28	20	QM-07
Benzo (k) fluoranthene	0.267	0.020	"	0.200	0.004	132	70-130	9.41	20	QM-07
Chrysene	0.204	0.020	"	0.200	0.002	101	70-130	5.31	20	
Dibenz (a,h) anthracene	0.264	0.020	"	0.200	0.009	127	70-130	1.82	20	
Fluoranthene	0.226	0.020	"	0.200	0.0006	113	70-130	1.07	20	
Fluorene	0.201	0.020	"	0.200	ND	101	70-130	4.61	20	
Indeno (1,2,3-cd) pyrene	0.239	0.020	"	0.200	0.009	115	70-130	5.22	20	
Naphthalene	0.204	0.002	"	0.200	ND	102	70-130	2.67	20	
Pyrene	0.218	0.020	"	0.200	ND	109	70-130	2.20	20	
Surrogate: Fluorene-d10	200		ug/kg	200		102	60-130			
Surrogate: Anthracene-d10	180		"	200		92.1	60-130			
Surrogate: Pyrene-d10	200		"	200		99.4	60-130			

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Jeremy Espinoza
 Project Number: 09A14171102
 Project: KMG - Howard 30N, 4C, 29N-21HZ OSA
 Fac BT1

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 B5E0301 - EPA 3580

Matrix Spike Dup (B5E0301-MSD1)

Source: E5D0842-01

Prepared: 05/03/2025 Analyzed: 05/08/2025

Surrogate: Benzo (a) pyrene-d12	200		ug/kg	200		101	60-130			
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Kayla Kenyon For Jen Pellegrini, Project Manager



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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 B5D3044 - EPA 3550B

Blank (B5D3044-BLK1)

Prepared: 04/30/2025 Analyzed: 05/01/2025

Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	20		"	24.9		81.9	50-150			

LCS (B5D3044-BS1)

Prepared: 04/30/2025 Analyzed: 05/01/2025

Diesel (C10-C28)	949	50.0	mg/kg	1000		94.9	70-130			
Residual Range Organics (C28-C40)	927	200	"	1000		92.7	70-130			
Surrogate: o-Terphenyl	54		"	49.8		108	50-150			

Matrix Spike (B5D3044-MS1)

Source: E5D0838-01

Prepared: 04/30/2025 Analyzed: 05/01/2025

Diesel (C10-C28)	951	50.0	mg/kg	1000	ND	95.1	70-130			
Residual Range Organics (C28-C40)	948	200	"	1000	ND	94.8	70-130			
Surrogate: o-Terphenyl	52		"	49.8		105	50-150			

Matrix Spike Dup (B5D3044-MSD1)

Source: E5D0838-01

Prepared: 04/30/2025 Analyzed: 05/01/2025

Diesel (C10-C28)	962	50.0	mg/kg	1000	ND	96.2	70-130	1.10	35	
Residual Range Organics (C28-C40)	966	200	"	1000	ND	96.6	70-130	1.86	35	
Surrogate: o-Terphenyl	51		"	49.8		103	50-150			

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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 B5D3043 - EPA 3050B

Blank (B5D3043-BLK1)

Prepared: 04/30/2025 Analyzed: 05/01/2025

Arsenic	ND	0.290	mg/kg							U
Barium	ND	82.0	"							U
Lead	ND	14.0	"							U
Nickel	ND	26.0	"							U

LCS (B5D3043-BS1)

Prepared: 04/30/2025 Analyzed: 05/01/2025

Arsenic	5.52	0.290	mg/kg	5.00		110	80-120			
Barium	543	82.0	"	500		109	80-120			
Lead	5.48	14.0	"	5.00		110	80-120			U
Nickel	5.85	26.0	"	5.00		117	80-120			U

Matrix Spike (B5D3043-MS1)

Source: E5D0832-01

Prepared: 04/30/2025 Analyzed: 05/01/2025

Arsenic	7.75	0.261	mg/kg	4.50	3.09	103	75-125			
Barium	577	73.8	"	450	110	104	75-125			
Lead	13.3	12.6	"	4.50	8.27	112	75-125			
Nickel	22.2	23.4	"	4.50	15.5	148	75-125			QM-07, U

Matrix Spike Dup (B5D3043-MSD1)

Source: E5D0832-01

Prepared: 04/30/2025 Analyzed: 05/01/2025

Arsenic	8.28	0.266	mg/kg	4.58	3.09	113	75-125	6.66	20	
Barium	635	75.2	"	458	110	115	75-125	9.47	20	
Lead	13.7	12.8	"	4.58	8.27	118	75-125	2.94	20	
Nickel	22.2	23.8	"	4.58	15.5	144	75-125	0.248	20	QM-07, U

Batch B5D3045 - EPA 3050B

Blank (B5D3045-BLK1)

Prepared: 04/30/2025 Analyzed: 05/01/2025

Arsenic	ND	0.290	mg/kg							U
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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 B5D3045 - EPA 3050B

Blank (B5D3045-BLK1)

Prepared: 04/30/2025 Analyzed: 05/01/2025

Barium	ND	82.0	mg/kg							U
Lead	ND	14.0	"							U
Nickel	ND	26.0	"							U

LCS (B5D3045-BS1)

Prepared: 04/30/2025 Analyzed: 05/01/2025

Arsenic	5.27	0.290	mg/kg	5.00		105	80-120			
Barium	508	82.0	"	500		102	80-120			
Lead	5.25	14.0	"	5.00		105	80-120			U
Nickel	5.57	26.0	"	5.00		111	80-120			U

Matrix Spike (B5D3045-MS1)

Source: E5D0843-01

Prepared: 04/30/2025 Analyzed: 05/01/2025

Arsenic	8.96	0.271	mg/kg	4.68	4.08	104	75-125			
Barium	557	76.7	"	468	80.5	102	75-125			
Lead	12.0	13.1	"	4.68	7.31	100	75-125			U
Nickel	15.3	24.3	"	4.68	10.7	98.2	75-125			U

Matrix Spike Dup (B5D3045-MSD1)

Source: E5D0843-01

Prepared: 04/30/2025 Analyzed: 05/01/2025

Arsenic	9.66	0.266	mg/kg	4.59	4.08	122	75-125	7.53	20	
Barium	571	75.2	"	459	80.5	107	75-125	2.52	20	
Lead	12.4	12.8	"	4.59	7.31	112	75-125	3.63	20	U
Nickel	16.2	23.8	"	4.59	10.7	119	75-125	5.55	20	U

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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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Batch B5E0174 - EPA 5030 (soil)

Blank (B5E0174-BLK1)

Prepared: 05/01/2025 Analyzed: 05/02/2025

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

Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		102	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.0	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		95.0	70-130			

LCS (B5E0174-BS1)

Prepared: 05/01/2025 Analyzed: 05/02/2025

1,2,4-Trimethylbenzene	0.0986	0.00200	mg/kg	0.100		98.6	70-130			
1,3,5-Trimethylbenzene	0.100	0.00200	"	0.100		100	70-130			
Benzene	0.0970	0.00200	"	0.100		97.0	70-130			
Ethylbenzene	0.0927	0.00200	"	0.100		92.7	70-130			
Toluene	0.0935	0.00200	"	0.100		93.5	70-130			
o-Xylene	0.0968	0.00200	"	0.100		96.8	70-130			
m,p-Xylene	0.194	0.00400	"	0.200		97.1	70-130			

Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		102	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		97.2	70-130			
Surrogate: 4-Bromofluorobenzene	0.14		"	0.125		110	70-130			

Matrix Spike (B5E0174-MS1)

Source: E5D0842-03

Prepared: 05/01/2025 Analyzed: 05/02/2025

1,2,4-Trimethylbenzene	0.0840	0.00200	mg/kg	0.100	ND	84.0	70-130			
1,3,5-Trimethylbenzene	0.0844	0.00200	"	0.100	ND	84.4	70-130			
Benzene	0.0839	0.00200	"	0.100	ND	83.9	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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Batch B5E0174 - EPA 5030 (soil)

Matrix Spike (B5E0174-MS1)

Source: E5D0842-03

Prepared: 05/01/2025 Analyzed: 05/02/2025

Ethylbenzene	0.0767	0.00200	mg/kg	0.100	ND	76.7	70-130			
Toluene	0.0789	0.00200	"	0.100	ND	78.9	70-130			
o-Xylene	0.0836	0.00200	"	0.100	ND	83.6	70-130			
m,p-Xylene	0.163	0.00400	"	0.200	ND	81.3	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		109	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		95.4	70-130			
Surrogate: 4-Bromofluorobenzene	0.14		"	0.125		110	70-130			

Matrix Spike Dup (B5E0174-MSD1)

Source: E5D0842-03

Prepared: 05/01/2025 Analyzed: 05/02/2025

1,2,4-Trimethylbenzene	0.0976	0.00200	mg/kg	0.100	ND	97.6	70-130	15.0	20	
1,3,5-Trimethylbenzene	0.0978	0.00200	"	0.100	ND	97.8	70-130	14.7	20	
Benzene	0.0979	0.00200	"	0.100	ND	97.9	70-130	15.3	20	
Ethylbenzene	0.0905	0.00200	"	0.100	ND	90.5	70-130	16.5	20	
Toluene	0.0932	0.00200	"	0.100	ND	93.2	70-130	16.7	20	
o-Xylene	0.0967	0.00200	"	0.100	ND	96.7	70-130	14.5	20	
m,p-Xylene	0.190	0.00400	"	0.200	ND	94.9	70-130	15.4	20	
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		107	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		95.9	70-130			
Surrogate: 4-Bromofluorobenzene	0.14		"	0.125		111	70-130			

Batch B5E0176 - EPA 5030 (soil)

Blank (B5E0176-BLK1)

Prepared: 05/01/2025 Analyzed: 05/02/2025

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							U
1,3,5-Trimethylbenzene	ND	0.00200	"							U
Benzene	ND	0.00200	"							U
Ethylbenzene	ND	0.00200	"							U
Toluene	ND	0.00200	"							U

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Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B5E0176 - EPA 5030 (soil)

Blank (B5E0176-BLK1)

Prepared: 05/01/2025 Analyzed: 05/02/2025

Xylenes, total	ND	0.00200	mg/kg							U
Gasoline Range Hydrocarbons	ND	0.200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125	84.6		70-130			
Surrogate: Toluene-d8	0.12		"	0.125	98.4		70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125	97.7		70-130			

LCS (B5E0176-BS1)

Prepared: 05/01/2025 Analyzed: 05/02/2025

1,2,4-Trimethylbenzene	0.111	0.00200	mg/kg	0.100	111		70-130			
1,3,5-Trimethylbenzene	0.110	0.00200	"	0.100	110		70-130			
Benzene	0.0967	0.00200	"	0.100	96.7		70-130			
Ethylbenzene	0.103	0.00200	"	0.100	103		70-130			
Toluene	0.0945	0.00200	"	0.100	94.5		70-130			
o-Xylene	0.106	0.00200	"	0.100	106		70-130			
m,p-Xylene	0.209	0.00400	"	0.200	104		70-130			
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125	87.8		70-130			
Surrogate: Toluene-d8	0.12		"	0.125	97.3		70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125	94.9		70-130			

Matrix Spike (B5E0176-MS1)

Source: E5D0842-31

Prepared: 05/01/2025 Analyzed: 05/02/2025

1,2,4-Trimethylbenzene	0.0850	0.00200	mg/kg	0.100	ND	85.0	70-130			
1,3,5-Trimethylbenzene	0.0832	0.00200	"	0.100	ND	83.2	70-130			
Benzene	0.0835	0.00200	"	0.100	ND	83.5	70-130			
Ethylbenzene	0.0827	0.00200	"	0.100	ND	82.7	70-130			
Toluene	0.0757	0.00200	"	0.100	ND	75.7	70-130			
o-Xylene	0.0852	0.00200	"	0.100	ND	85.2	70-130			
m,p-Xylene	0.168	0.00400	"	0.200	ND	83.9	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125	84.5		70-130			

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Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B5E0176 - EPA 5030 (soil)

Matrix Spike (B5E0176-MS1)

Source: E5D0842-31

Prepared: 05/01/2025 Analyzed: 05/02/2025

Surrogate: Toluene-d8	0.12		mg/kg	0.125		92.3	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		97.0	70-130			

Matrix Spike Dup (B5E0176-MSD1)

Source: E5D0842-31

Prepared: 05/01/2025 Analyzed: 05/02/2025

1,2,4-Trimethylbenzene	0.0926	0.00200	mg/kg	0.100	ND	92.6	70-130	8.56	20	
1,3,5-Trimethylbenzene	0.0927	0.00200	"	0.100	ND	92.7	70-130	10.7	20	
Benzene	0.0901	0.00200	"	0.100	ND	90.1	70-130	7.65	20	
Ethylbenzene	0.0913	0.00200	"	0.100	ND	91.3	70-130	9.89	20	
Toluene	0.0867	0.00200	"	0.100	ND	86.7	70-130	13.5	20	
o-Xylene	0.0951	0.00200	"	0.100	ND	95.1	70-130	10.9	20	
m,p-Xylene	0.183	0.00400	"	0.200	ND	91.4	70-130	8.57	20	

Surrogate: 1,2-Dichloroethane-d4	0.10		"	0.125		82.2	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.1	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		95.2	70-130			

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Project: KMG - Howard 30N, 4C, 29N-21HZ OSA
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Notes and Definitions

- U Sample is Non-Detect.
 - QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
 - ND Analyte NOT DETECTED at or above the reporting limit
 - RPD Relative Percent Difference
- All soil results are reported on a wet weight basis.

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