



**Eagle Environmental Consulting, LLC**

**Dan Coloccia**

**8000 W 44th Ave**

**Wheat Ridge CO 80033**

**Project Name - KMG - Fehr 24-32**

**Project Number - [none]**

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Attached are your analytical results for KMG - Fehr 24-32 received by Origins Laboratory September 11, 2024. This project is associated with Origins project number E409300-01.

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



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

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

Dan Coloccia  
Project Number: [none]  
Project: KMG - Fehr 24-32

## CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
WH-B01@6'	E409300-01	Soil	September 11, 2024 11:06	09/11/2024 16:26
FL-B01@4'	E409300-02	Soil	September 11, 2024 11:03	09/11/2024 16:26

Origins Laboratory



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 8000 W 44th Ave  
 Wheat Ridge CO 80033

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Fehm 24-32

# ORIGINS

LABORATORY LLC

ORIGINS WORK ORDER #

## E409300

Page 1 of 1

Client: Eagle Environmental (CA)  
 Address: 8000 W. 44th Ave  
 Telephone Number: Wheat Ridge Co 80033  
 Email Address: coloccia@eagle-enviro.com  
 Project Manager: D. Coloccia  
 Project Name: Fehm 24-32  
 Project Number: —  
 Collected By: DB/Sg  
 Invoice Billing Info: Final  
 Key: —  
 W=Water  
 GW=Groundwater  
 SW=Surface Water  
 WW=Waste Water  
 L=Liquid

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

#	Sample ID	Date Sampled	Time Sampled	# of Containers	Matrix Preservation	Analysis		Comments
						Date	Time	
1	Wt-Boil @ 6'	9/11/24	11:01	3	UNP	Y		Y Run for Ph
2	Wt-Boil @ 6'	9/11/24	11:04	3	UNP	Y		Hold for alk
3	Wt-Boil @ 4'	9/11/24	11:03	3	UNP	Y		OK for alk
4	Wt-Boil @ 4'	9/11/24	11:05	3	UNP	Y		Pa
5								
6								
7								
8								
9								
10								

Requisitioned By: AD Date: 9/11/24 Time: 16:24  
 Received By: AD Date: 9/11/24 Time: 16:24  
 Requisitioned By: AD Date: 9/11/24 Time: 16:24  
 Received By: AD Date: 9/11/24 Time: 16:24

Temp Received - 31 Received On ice?  Yes  No

Turnaround Time  
 SAME DAY  24 Hr  48 Hr  72 Hr  
 Standard

For Lab Sample Receiving Only:  
 1725 Elk Place Denver, Co. 80211 | # 303.433.1322 | originslab.com |

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 Project: KMG - Fehr 24-32

Origins Laboratory

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

**Sample Receipt Checklist**

Origins Work Order: E409300

Client: Eagle  
 Client Project ID: Fehr

Checklist Completed by: HD  
 Date/time completed: 9/11/24

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

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

Cooler Number/Temperature: 1 / 3.1 °C \_\_\_\_\_ / \_\_\_\_\_ °C \_\_\_\_\_ / \_\_\_\_\_ °C \_\_\_\_\_ / \_\_\_\_\_ °C (Describe)

Thermometer ID: T005

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Were all samples received intact <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Was adequate sample volume provided <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Are short holding time analytes or samples with HTs due within 48 hours present <sup>(1)</sup> ?		<input checked="" type="checkbox"/>		
Is a chain-of-custody (COC) present and filled out completely <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Does the COC agree with the number and type of sample bottles received <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Do the sample IDs on the bottle labels match the COC <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client with date and time recorded <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
For volatiles in water – is there headspace (> ¼ inch bubble) present? <b>If yes, contact client and note in narrative.</b>			<input checked="" type="checkbox"/>	
Are samples preserved that require preservation and was it checked <sup>(1)</sup> ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)/(pH <2 for samples preserved with HNO <sub>3</sub> , HCL, H <sub>2</sub> SO <sub>4</sub> ) / (pH >10 for samples preserved with NaAsO <sub>2</sub> +NaOH, ZnAc+NaOH)			<input checked="" type="checkbox"/>	
Additional Comments (if any):				

<sup>(1)</sup>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) HD Date/Time Reviewed 9/11/24

Origins Laboratory



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

Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Fehr 24-32

**WH-B01@6'**

**9/11/2024 11:06:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**E409300-01 (Soil)**  
**Origins Laboratory**

**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	25.4	25.0	mg/kg	1	B4I1150	ZZZ	09/11/2024	09/12/2024	
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

Surrogate: *o*-Terphenyl 94.1 % 50-150 " " "

**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B4I1155	HK	09/11/2024	09/12/2024	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	HK	"	"	U
Benzene	ND	0.00200	"	"	"	HK	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	HK	"	"	U
Toluene	ND	0.00200	"	"	"	HK	"	"	U
Xylenes, total	ND	0.00200	"	"	"	HK	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	HK	"	"	U

Surrogate: 1,2-Dichloroethane-d4 145 % 70-130 " " " S-GC  
 Surrogate: Toluene-d8 102 % 70-130 " " "  
 Surrogate: 4-Bromofluorobenzene 109 % 70-130 " " "

**PAH by EPA 8270E extracted via 3580A**

1-Methylnaphthalene	ND	0.002	mg/kg	1	B4I1151	Nindows	09/11/2024	09/12/2024	U
2-Methylnaphthalene	ND	0.002	"	"	"	Nindows	"	"	U
Acenaphthene	ND	0.020	"	"	"	Nindows	"	"	U

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**9/11/2024 11:06:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**E409300-01 (Soil)**  
**Origins Laboratory**

**PAH by EPA 8270E extracted via 3580A**

Anthracene	ND	0.020	mg/kg	1	B4I1151	Nindows	09/11/2024	09/12/2024	U
Benzo (a) anthracene	ND	0.005	"	"	"	Nindows	"	"	U
Benzo (a) pyrene	ND	0.020	"	"	"	Nindows	"	"	U
Benzo (b) fluoranthene	ND	0.020	"	"	"	Nindows	"	"	U
Benzo (k) fluoranthene	ND	0.020	"	"	"	Nindows	"	"	U
Chrysene	ND	0.020	"	"	"	Nindows	"	"	U
Dibenz (a,h) anthracene	ND	0.020	"	"	"	Nindows	"	"	U
Fluoranthene	ND	0.020	"	"	"	Nindows	"	"	U
Fluorene	ND	0.020	"	"	"	Nindows	"	"	U
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	Nindows	"	"	U
Naphthalene	ND	0.002	"	"	"	Nindows	"	"	U
Pyrene	ND	0.020	"	"	"	Nindows	"	"	U

Surrogate: Fluorene-d10	98.7 %	60-130			"	"	"	"
Surrogate: Anthracene-d10	90.1 %	60-130			"	"	"	"
Surrogate: Pyrene-d10	96.8 %	60-130			"	"	"	"
Surrogate: Benzo (a) pyrene-d12	101 %	60-130			"	"	"	"

**Table 915 metals by EPA 6020B**

Arsenic	<b>3.65</b>	0.254	mg/kg	10	B4I1152	HJD	09/11/2024	09/12/2024
Barium	<b>250</b>	8.74	"	"	"	HJD	"	"
Cadmium	<b>0.229</b>	0.0874	"	"	"	HJD	"	"

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**9/11/2024 11:06:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**E409300-01 (Soil)**  
**Origins Laboratory**

**Table 915 metals by EPA 6020B**

Copper	14.8	8.74	mg/kg	10	B4I1152	HJD	09/11/2024	09/12/2024	
Lead	10.5	0.874	"	"	"	HJD	"	"	
Nickel	8.41	0.874	"	"	"	HJD	"	"	
Selenium	ND	0.227	"	"	"	HJD	"	"	U
Silver	ND	0.0874	"	"	"	HJD	"	"	U
Zinc	49.4	32.4	"	"	"	HJD	"	"	

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**FL-B01@4'**

**9/11/2024 11:03:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**E409300-02 (Soil)**  
**Origins Laboratory**

**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND	25.0	mg/kg	1	B4I1150	ZZZ	09/11/2024	09/12/2024	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

*Surrogate: o-Terphenyl*      103 %      50-150      "      "      "

**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B4I1155	ZZZ	09/11/2024	09/11/2024	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Benzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Toluene	ND	0.00200	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	0.00200	"	"	"	ZZZ	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	ZZZ	"	"	U

*Surrogate: 1,2-Dichloroethane-d4*      86.8 %      70-130      "      "      "

*Surrogate: Toluene-d8*      98.1 %      70-130      "      "      "

*Surrogate: 4-Bromofluorobenzene*      84.2 %      70-130      "      "      "

**PAH by EPA 8270E extracted via 3580A**

1-Methylnaphthalene	ND	0.002	mg/kg	1	B4I1151	N/A	09/11/2024	09/12/2024	U
2-Methylnaphthalene	ND	0.002	"	"	"	N/A	"	"	U
Acenaphthene	ND	0.020	"	"	"	N/A	"	"	U

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**FL-B01@4'**

**9/11/2024 11:03:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**E409300-02 (Soil)**  
**Origins Laboratory**

**PAH by EPA 8270E extracted via 3580A**

Anthracene	ND	0.020	mg/kg	1	B4I1151	Nindows	09/11/2024	09/12/2024	U
Benzo (a) anthracene	ND	0.005	"	"	"	Nindows	"	"	U
Benzo (a) pyrene	ND	0.020	"	"	"	Nindows	"	"	U
Benzo (b) fluoranthene	ND	0.020	"	"	"	Nindows	"	"	U
Benzo (k) fluoranthene	ND	0.020	"	"	"	Nindows	"	"	U
Chrysene	ND	0.020	"	"	"	Nindows	"	"	U
Dibenz (a,h) anthracene	ND	0.020	"	"	"	Nindows	"	"	U
Fluoranthene	ND	0.020	"	"	"	Nindows	"	"	U
Fluorene	ND	0.020	"	"	"	Nindows	"	"	U
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	Nindows	"	"	U
Naphthalene	ND	0.002	"	"	"	Nindows	"	"	U
Pyrene	ND	0.020	"	"	"	Nindows	"	"	U

Surrogate: Fluorene-d10	100 %	60-130			"	"	"	
Surrogate: Anthracene-d10	91.7 %	60-130			"	"	"	
Surrogate: Pyrene-d10	99.8 %	60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	94.8 %	60-130			"	"	"	

**Table 915 metals by EPA 6020B**

Arsenic	<b>4.50</b>	0.289	mg/kg	10	B4I1152	HJD	09/11/2024	09/12/2024
Barium	<b>162</b>	9.98	"	"	"	HJD	"	"
Cadmium	<b>0.221</b>	0.0998	"	"	"	HJD	"	"

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**FL-B01@4'**

**9/11/2024 11:03:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**E409300-02 (Soil)**  
**Origins Laboratory**

**Table 915 metals by EPA 6020B**

Copper	11.7	9.98	mg/kg	10	B4I1152	HJD	09/11/2024	09/12/2024	
Lead	10.9	0.998	"	"	"	HJD	"	"	
Nickel	7.15	0.998	"	"	"	HJD	"	"	
Selenium	0.356	0.259	"	"	"	HJD	"	"	
Silver	ND	0.0998	"	"	"	HJD	"	"	U
Zinc	45.2	36.9	"	"	"	HJD	"	"	

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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
<b>Batch B411150 - EPA 3550B</b>										
<b>Blank (B411150-BLK1)</b>										
					Prepared: 09/11/2024 Analyzed: 09/12/2024					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	27		"	24.9		108	50-150			

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 Project: KMG - Fehr 24-32

**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 B4I1150 - EPA 3550B**

**LCS (B4I1150-BS1)**

Prepared: 09/11/2024 Analyzed: 09/12/2024

Diesel (C10-C28)	842	50.0	mg/kg	1000		84.2	70-130			
Residual Range Organics (C28-C40)	905	200	"	1000		90.5	70-130			
Surrogate: o-Terphenyl	51		"	49.8		102	50-150			

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 Project: KMG - Fehr 24-32

**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
<b>Batch B4I1150 - EPA 3550B</b>										
<b>Matrix Spike (B4I1150-MS1)</b>		<b>Source: E409297-01</b>			Prepared: 09/11/2024 Analyzed: 09/12/2024					
Diesel (C10-C28)	878	50.0	mg/kg	1000	ND	87.8	70-130			
Residual Range Organics (C28-C40)	943	200	"	1000	ND	94.3	70-130			
Surrogate: o-Terphenyl	50		"	49.8		101	50-150			

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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
<b>Batch B411150 - EPA 3550B</b>										
<b>Matrix Spike Dup (B411150-MSD1)</b>					<b>Source: E409297-01</b>					Prepared: 09/11/2024 Analyzed: 09/12/2024
Diesel (C10-C28)	868	50.0	mg/kg	1000	ND	86.8	70-130	1.19	35	
Residual Range Organics (C28-C40)	921	200	"	1000	ND	92.1	70-130	2.42	35	
Surrogate: o-Terphenyl	45		"	49.8		91.1	50-150			

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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
<b>Batch B4I1155 - EPA 5030 (soil)</b>										
<b>Blank (B4I1155-BLK1)</b>										
					Prepared: 09/11/2024 Analyzed: 09/11/2024					
1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							U
1,3,5-Trimethylbenzene	ND	0.00200	"							U
Benzene	ND	0.00200	"							U
Ethylbenzene	ND	0.00200	"							U
Naphthalene	ND	0.00380	"							U
Toluene	ND	0.00200	"							U
Xylenes, total	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125		85.8	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		97.7	70-130			
Surrogate: 4-Bromofluorobenzene	0.11		"	0.125		84.4	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 B4I1155 - EPA 5030 (soil)**

**LCS (B4I1155-BS1)**

Prepared: 09/11/2024 Analyzed: 09/11/2024

1,2,4-Trimethylbenzene	0.0928	0.00200	mg/kg	0.100		92.8	70-130			
1,3,5-Trimethylbenzene	0.0961	0.00200	"	0.100		96.1	70-130			
Benzene	0.104	0.00200	"	0.100		104	70-130			
Ethylbenzene	0.0978	0.00200	"	0.100		97.8	70-130			
Naphthalene	0.0954	0.00380	"	0.100		95.4	70-130			
Toluene	0.0946	0.00200	"	0.100		94.6	70-130			
o-Xylene	0.0963	0.00200	"	0.100		96.3	70-130			
m,p-Xylene	0.206	0.00400	"	0.200		103	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125		84.7	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		93.7	70-130			
Surrogate: 4-Bromofluorobenzene	0.11		"	0.125		90.3	70-130			

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Dan Coloccia  
 Project Number: [none]  
 Project: KMG - Fehr 24-32

**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 B411155 - EPA 5030 (soil)**

Matrix Spike (B411155-MS1)	Source: E409300-01			Prepared: 09/11/2024 Analyzed: 09/11/2024						
1,2,4-Trimethylbenzene	0.0904	0.00200	mg/kg	0.100	ND	90.4	70-130			
1,3,5-Trimethylbenzene	0.0936	0.00200	"	0.100	ND	93.6	70-130			
Benzene	0.104	0.00200	"	0.100	ND	104	70-130			
Ethylbenzene	0.0946	0.00200	"	0.100	ND	94.6	70-130			
Naphthalene	0.0998	0.00380	"	0.100	ND	99.8	70-130			
Toluene	0.0933	0.00200	"	0.100	ND	93.3	70-130			
o-Xylene	0.0959	0.00200	"	0.100	ND	95.9	70-130			
m,p-Xylene	0.202	0.00400	"	0.200	0.00212	99.9	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125		88.0	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		93.5	70-130			
Surrogate: 4-Bromofluorobenzene	0.11		"	0.125		89.3	70-130			

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Project: KMG - Fehr 24-32

**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 B411155 - EPA 5030 (soil)**

<b>Matrix Spike Dup (B411155-MSD1)</b>	<b>Source: E409300-01</b>			<b>Prepared: 09/11/2024 Analyzed: 09/11/2024</b>						
1,2,4-Trimethylbenzene	0.0916	0.00200	mg/kg	0.100	ND	91.6	70-130	1.30	20	
1,3,5-Trimethylbenzene	0.0952	0.00200	"	0.100	ND	95.2	70-130	1.76	20	
Benzene	0.107	0.00200	"	0.100	ND	107	70-130	2.59	20	
Ethylbenzene	0.0952	0.00200	"	0.100	ND	95.2	70-130	0.653	20	
Naphthalene	0.102	0.00380	"	0.100	ND	102	70-130	2.63	20	
Toluene	0.0961	0.00200	"	0.100	ND	96.1	70-130	2.92	20	
o-Xylene	0.0968	0.00200	"	0.100	ND	96.8	70-130	0.955	20	
m,p-Xylene	0.204	0.00400	"	0.200	0.00212	101	70-130	1.19	20	
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125		90.6	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		93.7	70-130			
Surrogate: 4-Bromofluorobenzene	0.11		"	0.125		89.8	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 B4I1152 - EPA 3050B**

**Blank (B4I1152-BLK1)**

Prepared: 09/11/2024 Analyzed: 09/12/2024

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

**LCS (B4I1152-BS1)**

Prepared: 09/11/2024 Analyzed: 09/12/2024

Arsenic	5.09	0.290	mg/kg	5.00	102	80-120
Barium	542	10.0	"	500	108	80-120
Cadmium	5.23	0.100	"	5.00	105	80-120
Copper	50.3	10.0	"	50.0	101	80-120
Lead	5.06	1.00	"	5.00	101	80-120
Nickel	4.96	1.00	"	5.00	99.2	80-120
Selenium	4.84	0.260	"	5.00	96.7	80-120
Silver	5.20	0.100	"	5.00	104	80-120
Zinc	49.3	37.0	"	50.0	98.7	80-120

**Matrix Spike (B4I1152-MS1)**

**Source: E409299-01**

Prepared: 09/11/2024 Analyzed: 09/12/2024

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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 B41152 - EPA 3050B**

<b>Matrix Spike (B41152-MS1)</b>	<b>Source: E409299-01</b>			<b>Prepared: 09/11/2024 Analyzed: 09/12/2024</b>						
Arsenic	6.92	0.271	mg/kg	4.66	1.74	111	75-125			
Barium	521	9.33	"	466	57.6	99.3	75-125			
Cadmium	5.04	0.0933	"	4.66	0.240	103	75-125			
Copper	53.7	9.33	"	46.6	7.18	99.8	75-125			
Lead	13.7	0.933	"	4.66	8.71	107	75-125			
Nickel	9.26	0.933	"	4.66	4.87	94.0	75-125			
Selenium	4.56	0.243	"	4.66	0.116	95.4	75-125			
Silver	4.81	0.0933	"	4.66	0.0573	102	75-125			
Zinc	78.9	34.5	"	46.6	32.2	100	75-125			

<b>Matrix Spike Dup (B41152-MSD1)</b>	<b>Source: E409299-01</b>			<b>Prepared: 09/11/2024 Analyzed: 09/12/2024</b>						
Arsenic	5.80	0.244	mg/kg	4.20	1.74	96.8	75-125	17.7	20	
Barium	469	8.40	"	420	57.6	98.0	75-125	10.4	20	
Cadmium	4.45	0.0840	"	4.20	0.240	100	75-125	12.3	20	
Copper	49.1	8.40	"	42.0	7.18	99.9	75-125	8.96	20	
Lead	12.9	0.840	"	4.20	8.71	98.8	75-125	6.44	20	
Nickel	8.93	0.840	"	4.20	4.87	96.5	75-125	3.63	20	
Selenium	3.88	0.218	"	4.20	0.116	89.7	75-125	16.1	20	
Silver	4.30	0.0840	"	4.20	0.0573	101	75-125	11.2	20	
Zinc	73.3	31.1	"	42.0	32.2	97.9	75-125	7.35	20	

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 Project: KMG - Fehr 24-32

**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 B4I1151 - EPA 3580**

**Blank (B4I1151-BLK1)**

Prepared: 09/11/2024 Analyzed: 09/12/2024

1-Methylnaphthalene	ND	0.002	mg/kg							U
2-Methylnaphthalene	ND	0.002	"							U
Acenaphthene	ND	0.020	"							U
Anthracene	ND	0.020	"							U
Benzo (a) anthracene	ND	0.005	"							U
Benzo (a) pyrene	ND	0.020	"							U
Benzo (b) fluoranthene	ND	0.020	"							U
Benzo (g,h,i) perylene	ND	0.020	"							U
Benzo (k) fluoranthene	ND	0.020	"							U
Chrysene	ND	0.020	"							U
Dibenz (a,h) anthracene	ND	0.020	"							U
Fluoranthene	ND	0.020	"							U
Fluorene	ND	0.020	"							U
Indeno (1,2,3-cd) pyrene	ND	0.020	"							U
Naphthalene	ND	0.002	"							U
Phenanthrene	ND	0.020	"							U
Pyrene	ND	0.020	"							U
<hr/>										
Surrogate: Fluorene-d10	200		ug/kg	200		101	60-130			
Surrogate: Anthracene-d10	180		"	200		87.5	60-130			
Surrogate: Pyrene-d10	200		"	200		102	60-130			
Surrogate: Benzo (a) pyrene-d12	210		"	200		105	60-130			

**LCS (B4I1151-BS1)**

Prepared: 09/11/2024 Analyzed: 09/12/2024

1-Methylnaphthalene	0.180	0.002	mg/kg	0.200		89.9	70-130			
2-Methylnaphthalene	0.180	0.002	"	0.200		90.0	70-130			
Acenaphthene	0.200	0.020	"	0.200		100	70-130			
Anthracene	0.176	0.020	"	0.200		88.2	70-130			

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 Project: KMG - Fehr 24-32

**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 B4I1151 - EPA 3580**

**LCS (B4I1151-BS1)**

Prepared: 09/11/2024 Analyzed: 09/12/2024

Benzo (a) anthracene	0.183	0.005	mg/kg	0.200		91.6	70-130			
Benzo (a) pyrene	0.190	0.020	"	0.200		94.8	70-130			
Benzo (b) fluoranthene	0.185	0.020	"	0.200		92.6	70-130			
Benzo (g,h,i) perylene	0.189	0.020	"	0.200		94.4	70-130			
Benzo (k) fluoranthene	0.184	0.020	"	0.200		91.8	70-130			
Chrysene	0.186	0.020	"	0.200		92.8	70-130			
Dibenz (a,h) anthracene	0.183	0.020	"	0.200		91.6	70-130			
Fluoranthene	0.173	0.020	"	0.200		86.4	70-130			
Fluorene	0.200	0.020	"	0.200		100	70-130			
Indeno (1,2,3-cd) pyrene	0.180	0.020	"	0.200		89.9	70-130			
Naphthalene	0.199	0.002	"	0.200		99.5	70-130			
Phenanthrene	0.182	0.020	"	0.200		90.9	70-130			
Pyrene	0.188	0.020	"	0.200		93.8	70-130			
Surrogate: Fluorene-d10	200		ug/kg	200		98.4	60-130			
Surrogate: Anthracene-d10	180		"	200		90.9	60-130			
Surrogate: Pyrene-d10	200		"	200		99.7	60-130			
Surrogate: Benzo (a) pyrene-d12	210		"	200		105	60-130			

**Matrix Spike (B4I1151-MS1)**

**Source: E409299-18**

Prepared: 09/11/2024 Analyzed: 09/12/2024

1-Methylnaphthalene	0.193	0.002	mg/kg	0.200	ND	96.5	70-130			
2-Methylnaphthalene	0.193	0.002	"	0.200	ND	96.7	70-130			
Acenaphthene	0.212	0.020	"	0.200	ND	106	70-130			
Anthracene	0.188	0.020	"	0.200	0.0005	93.9	70-130			
Benzo (a) anthracene	0.208	0.005	"	0.200	0.002	103	70-130			
Benzo (a) pyrene	0.208	0.020	"	0.200	0.003	103	70-130			
Benzo (b) fluoranthene	0.210	0.020	"	0.200	0.001	105	70-130			
Benzo (g,h,i) perylene	0.209	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 B411151 - EPA 3580**

<b>Matrix Spike (B411151-MS1)</b>	<b>Source: E409299-18</b>			<b>Prepared: 09/11/2024 Analyzed: 09/12/2024</b>						
Benzo (k) fluoranthene	0.220	0.020	mg/kg	0.200	ND	110	70-130			
Chrysene	0.189	0.020	"	0.200	0.002	93.3	70-130			
Dibenz (a,h) anthracene	0.202	0.020	"	0.200	ND	101	70-130			
Fluoranthene	0.182	0.020	"	0.200	0.003	89.6	70-130			
Fluorene	0.216	0.020	"	0.200	ND	108	70-130			
Indeno (1,2,3-cd) pyrene	0.200	0.020	"	0.200	ND	99.9	70-130			
Naphthalene	0.212	0.002	"	0.200	ND	106	70-130			
Phenanthrene	0.195	0.020	"	0.200	ND	97.7	70-130			
Pyrene	0.207	0.020	"	0.200	0.005	101	70-130			
Surrogate: Fluorene-d10	200		ug/kg	200		99.7	60-130			
Surrogate: Anthracene-d10	180		"	200		92.0	60-130			
Surrogate: Pyrene-d10	200		"	200		101	60-130			
Surrogate: Benzo (a) pyrene-d12	210		"	200		106	60-130			

<b>Matrix Spike Dup (B411151-MSD1)</b>	<b>Source: E409299-18</b>			<b>Prepared: 09/11/2024 Analyzed: 09/12/2024</b>						
1-Methylnaphthalene	0.189	0.002	mg/kg	0.200	ND	94.3	70-130	2.31	20	
2-Methylnaphthalene	0.190	0.002	"	0.200	ND	94.8	70-130	1.93	20	
Acenaphthene	0.209	0.020	"	0.200	ND	104	70-130	1.76	20	
Anthracene	0.184	0.020	"	0.200	0.0005	91.8	70-130	2.26	20	
Benzo (a) anthracene	0.191	0.005	"	0.200	0.002	94.2	70-130	8.69	20	
Benzo (a) pyrene	0.203	0.020	"	0.200	0.003	100	70-130	2.53	20	
Benzo (b) fluoranthene	0.194	0.020	"	0.200	0.001	96.5	70-130	8.06	20	
Benzo (g,h,i) perylene	0.194	0.020	"	0.200	ND	97.1	70-130	7.38	20	
Benzo (k) fluoranthene	0.198	0.020	"	0.200	ND	98.8	70-130	10.6	20	
Chrysene	0.185	0.020	"	0.200	0.002	91.3	70-130	2.08	20	
Dibenz (a,h) anthracene	0.195	0.020	"	0.200	ND	97.6	70-130	3.59	20	
Fluoranthene	0.181	0.020	"	0.200	0.003	89.1	70-130	0.498	20	

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 Project: KMG - Fehr 24-32

**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 B411151 - EPA 3580**

<b>Matrix Spike Dup (B411151-MSD1)</b>	<b>Source: E409299-18</b>			<b>Prepared: 09/11/2024 Analyzed: 09/12/2024</b>						
Fluorene	0.206	0.020	mg/kg	0.200	ND	103	70-130	4.74	20	
Indeno (1,2,3-cd) pyrene	0.188	0.020	"	0.200	ND	94.2	70-130	5.84	20	
Naphthalene	0.208	0.002	"	0.200	ND	104	70-130	1.91	20	
Phenanthrene	0.190	0.020	"	0.200	ND	94.9	70-130	2.97	20	
Pyrene	0.205	0.020	"	0.200	0.005	100	70-130	1.16	20	
Surrogate: Fluorene-d10	190		ug/kg	200		97.1	60-130			
Surrogate: Anthracene-d10	180		"	200		90.4	60-130			
Surrogate: Pyrene-d10	200		"	200		101	60-130			
Surrogate: Benzo (a) pyrene-d12	210		"	200		106	60-130			

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Project Number: [none]  
Project: KMG - Fehr 24-32

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### Notes and Definitions

U Sample is Non-Detect.

S-GC Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogate.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported at a wet weight basis.

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Jen Pellegrini For Jordan A. Bynon, Project Manager