



August 18, 2023

Eagle Environmental Consulting, LLC

Dan Coloccia

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - KMG - REI H 9-32D

Project Number - [none]

Attached are your analytical results for KMG - REI H 9-32D received by Origins Laboratory, Inc. August 10, 2023. This project is associated with Origins project number Y308264-01.

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

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

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

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

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

Origins Laboratory, Inc.
303.433.1322
o-squad@oelabinc.com



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

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

Dan Coloccia
Project Number: [none]
Project: KMG - REI H 9-32D

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
FL-B08@7'	Y308264-01	Soil	August 10, 2023 13:10	08/10/2023 16:13
FL-N03@4'	Y308264-02	Soil	August 10, 2023 13:12	08/10/2023 16:13
FL-S03@4'	Y308264-03	Soil	August 10, 2023 13:14	08/10/2023 16:13
FL-E03@4'	Y308264-04	Soil	August 10, 2023 13:16	08/10/2023 16:13
FL-W03@4'	Y308264-05	Soil	August 10, 2023 13:18	08/10/2023 16:13

Origins Laboratory, Inc.



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ORIGINS LABORATORY, INC

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

Dan Coloccia
Project Number: [none]
Project: KMG - REI H 9-32D

Origins Laboratory

F-012207-01-R1

Effective Date: 01/09/12

Sample Receipt Checklist

Origins Work Order: 4308264

Client: Eagle

Client Project ID: REI H 9-32D

Checklist Completed by: ZHS

Shipped Via: HD

Date/time completed: 8/10/23

(UPS, FedEx, Hand Delivered, Pick-up, etc.)

Airbill #: NA

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

Water

Other:

Cooler Number/Temperature: 1, 3 °C / 1 °C / 1 °C (Describe) °C

Thermometer ID: T004

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

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

[Signature]
Reviewed by (Project Manager)

8/10/23
Date/Time Reviewed

Origins Laboratory, Inc.

[Signature]

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Jordan A. Bynon, Project Manager

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

Dan Coloccia
 Project Number: [none]
 Project: KMG - REI H 9-32D

FL-B08@7'

8/10/2023 1:10:00PM

Origins Laboratory, Inc.
Y308264-01 (Soil)

DRO/ORO by EPA 8015D

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
Diesel (C10-C28)	ND		25.0	mg/kg	1	B3H1020	08/10/2023	08/10/2023	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl 101% 50-150 " " " "


GBTEX+TMBs by 8260D

Ethylbenzene	ND		0.00200	mg/kg	1	B3H1024	08/10/2023	08/10/2023	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 102% 70-130 " " " "
 Surrogate: Toluene-d8 98.8% 70-130 " " " "
 Surrogate: 4-Bromofluorobenzene 93.4% 70-130 " " " "

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00109	0.00201	mg/Kg	1	L698580	08/15/2023	08/15/2023	
2-Methylnaphthalene	ND	0.00194	0.00201	"	"	"	"	"	
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"	
Anthracene	ND	0.000334	0.00067	"	"	"	"	"	

Origins Laboratory, Inc.


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 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: KMG - REI H 9-32D

FL-B08@7'

8/10/2023 1:10:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.

Y308264-01 (Soil)

PAH by 8270D SIM

Benzo(a)anthracene	ND	0.000493	0.00067	mg/Kg	1	L698580	08/15/2023	08/15/2023	
Benzo(a)pyrene	ND	0.000468	0.00067	"	"	"	"	"	"
Benzo(b)fluoranthene	ND	0.000585	0.00067	"	"	"	"	"	"
Benzo(k)fluoranthene	ND	0.000437	0.00067	"	"	"	"	"	"
Chrysene	ND	0.000624	0.00067	"	"	"	"	"	"
Fluoranthene	ND	0.000394	0.00067	"	"	"	"	"	"
Fluorene	ND	0.000286	0.00067	"	"	"	"	"	"
Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	"	"	"	"	"	"
Naphthalene	ND	0.00145	0.00201	"	"	"	"	"	"
Pyrene	ND	0.000643	0.00067	"	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	57.5 %		33-115	"	"	"	"	"	"
Surrogate: 4-Terphenyl-d14	75.7 %		33-122	"	"	"	"	"	"
Surrogate: Nitrobenzene-d5	54.8 %		29-110	"	"	"	"	"	"

pH in Soil by 9045D

pH	8.60			pH Units	1	B3H1116	08/11/2023	08/12/2023	
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Total Metals by 6020B

Arsenic	3.03	0.0855	0.25	mg/Kg	5	L698721	08/15/2023	08/16/2023	
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FL-B08@7'

8/10/2023 1:10:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.

Y308264-01 (Soil)

Total Metals by 6020B

Barium	89.5	0.042	0.25	mg/Kg	5	L698721	08/15/2023	08/16/2023	
Cadmium	0.0873	0.026	0.25	"	"	"	"	"	J

Origins Laboratory, Inc.



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 8000 W 44th Ave
 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: KMG - REI H 9-32D

FL-N03@4'

8/10/2023 1:12:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y308264-02 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B3H1020	08/10/2023	08/10/2023	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: *o*-Terphenyl 128% 50-150 " " " "

GBTEX+TMBs by 8260D

Ethylbenzene	ND		0.00200	mg/kg	1	B3H1024	08/10/2023	08/10/2023	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 98.4% 70-130 " " " "
 Surrogate: Toluene-d8 100% 70-130 " " " "
 Surrogate: 4-Bromofluorobenzene 94.3% 70-130 " " " "

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00109	0.00201	mg/Kg	1	L698892	08/16/2023	08/16/2023	
2-Methylnaphthalene	ND	0.00194	0.00201	"	"	"	"	"	
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"	
Anthracene	ND	0.000334	0.00067	"	"	"	"	"	

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FL-N03@4'

8/10/2023 1:12:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.

Y308264-02 (Soil)

PAH by 8270D SIM

Benzo(a)anthracene	ND	0.000493	0.00067	mg/Kg	1	L698892	08/16/2023	08/16/2023	
Benzo(a)pyrene	ND	0.000468	0.00067	"	"	"	"	"	"
Benzo(b)fluoranthene	ND	0.000585	0.00067	"	"	"	"	"	"
Benzo(k)fluoranthene	ND	0.000437	0.00067	"	"	"	"	"	"
Chrysene	ND	0.000624	0.00067	"	"	"	"	"	"
Fluoranthene	ND	0.000394	0.00067	"	"	"	"	"	"
Fluorene	ND	0.000286	0.00067	"	"	"	"	"	"
Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	"	"	"	"	"	"
Naphthalene	ND	0.00145	0.00201	"	"	"	"	"	"
Pyrene	ND	0.000643	0.00067	"	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	63.4 %		33-115	"	"	"	"	"	"
Surrogate: 4-Terphenyl-d14	65.9 %		33-122	"	"	"	"	"	"
Surrogate: Nitrobenzene-d5	52.6 %		29-110	"	"	"	"	"	"

pH in Soil by 9045D

pH	8.38			pH Units	1	B3H1116	08/11/2023	08/12/2023	
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Total Metals by 6020B

Arsenic	1.45	0.0855	0.25	mg/Kg	5	L698721	08/15/2023	08/16/2023	
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Eagle Environmental Consulting, LLC
 8000 W 44th Ave
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Dan Coloccia
 Project Number: [none]
 Project: KMG - REI H 9-32D

FL-N03@4'

8/10/2023 1:12:00PM


Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.

Y308264-02 (Soil)

Total Metals by 6020B

Barium	79.4	0.042	0.25	mg/Kg	5	L698721	08/15/2023	08/16/2023	
Cadmium	0.089	0.026	0.25	"	"	"	"	"	J

Origins Laboratory, Inc.


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

Dan Coloccia
 Project Number: [none]
 Project: KMG - REI H 9-32D

FL-S03@4'

8/10/2023 1:14:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y308264-03 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B3H1020	08/10/2023	08/10/2023	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl 107% 50-150 " " " "

GBTEX+TMBs by 8260D

Ethylbenzene	ND		0.00200	mg/kg	1	B3H1024	08/10/2023	08/11/2023	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 83.2% 70-130 " " " "
 Surrogate: Toluene-d8 92.6% 70-130 " " " "
 Surrogate: 4-Bromofluorobenzene 96.8% 70-130 " " " "

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00109	0.00201	mg/Kg	1	L698892	08/16/2023	08/16/2023	
2-Methylnaphthalene	ND	0.00194	0.00201	"	"	"	"	"	
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"	
Anthracene	ND	0.000334	0.00067	"	"	"	"	"	

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

Dan Coloccia
 Project Number: [none]
 Project: KMG - REI H 9-32D

FL-S03@4'

8/10/2023 1:14:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.
Y308264-03 (Soil)

PAH by 8270D SIM

Benzo(a)anthracene	ND	0.000493	0.00067	mg/Kg	1	L698892	08/16/2023	08/16/2023	
Benzo(a)pyrene	ND	0.000468	0.00067	"	"	"	"	"	"
Benzo(b)fluoranthene	ND	0.000585	0.00067	"	"	"	"	"	"
Benzo(k)fluoranthene	ND	0.000437	0.00067	"	"	"	"	"	"
Chrysene	ND	0.000624	0.00067	"	"	"	"	"	"
Fluoranthene	ND	0.000394	0.00067	"	"	"	"	"	"
Fluorene	ND	0.000286	0.00067	"	"	"	"	"	"
Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	"	"	"	"	"	"
Naphthalene	ND	0.00145	0.00201	"	"	"	"	"	"
Pyrene	ND	0.000643	0.00067	"	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	65 %		33-115	"	"	"	"	"	"
Surrogate: 4-Terphenyl-d14	67.5 %		33-122	"	"	"	"	"	"
Surrogate: Nitrobenzene-d5	53.8 %		29-110	"	"	"	"	"	"

pH in Soil by 9045D

pH	8.38			pH Units	1	B3H1116	08/11/2023	08/12/2023	
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Total Metals by 6020B

Arsenic	2.5	0.0855	0.25	mg/Kg	5	L698721	08/15/2023	08/16/2023	
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 Project Number: [none]
 Project: KMG - REI H 9-32D

FL-S03@4'

8/10/2023 1:14:00PM


Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.

Y308264-03 (Soil)

Total Metals by 6020B

Barium	79.3	0.042	0.25	mg/Kg	5	L698721	08/15/2023	08/16/2023	
Cadmium	0.101	0.026	0.25	"	"	"	"	"	J

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 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: KMG - REI H 9-32D

FL-E03@4'

8/10/2023 1:16:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y308264-04 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B3H1020	08/10/2023	08/10/2023	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl 99.9% 50-150 " " " "

GBTEX+TMBs by 8260D

Ethylbenzene	ND		0.00200	mg/kg	1	B3H1024	08/10/2023	08/10/2023	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 99.5% 70-130 " " " "
 Surrogate: Toluene-d8 101% 70-130 " " " "
 Surrogate: 4-Bromofluorobenzene 92.3% 70-130 " " " "

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00109	0.00201	mg/Kg	1	L698892	08/16/2023	08/16/2023	
2-Methylnaphthalene	ND	0.00194	0.00201	"	"	"	"	"	
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"	
Anthracene	ND	0.000334	0.00067	"	"	"	"	"	

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Dan Coloccia
 Project Number: [none]
 Project: KMG - REI H 9-32D

FL-E03@4'

8/10/2023 1:16:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.
Y308264-04 (Soil)

PAH by 8270D SIM

Benzo(a)anthracene	ND	0.000493	0.00067	mg/Kg	1	L698892	08/16/2023	08/16/2023	
Benzo(a)pyrene	ND	0.000468	0.00067	"	"	"	"	"	"
Benzo(b)fluoranthene	0.001	0.000585	0.00067	"	"	"	"	"	"
Benzo(k)fluoranthene	ND	0.000437	0.00067	"	"	"	"	"	"
Chrysene	0.000638	0.000624	0.00067	"	"	"	"	"	J
Fluoranthene	0.000938	0.000394	0.00067	"	"	"	"	"	"
Fluorene	ND	0.000286	0.00067	"	"	"	"	"	"
Indeno(1,2,3-cd)pyrene	0.000887	0.000627	0.00067	"	"	"	"	"	"
Naphthalene	ND	0.00145	0.00201	"	"	"	"	"	"
Pyrene	0.000786	0.000643	0.00067	"	"	"	"	"	"


Surrogate: 2-Fluorobiphenyl	59.2 %		33-115	"	"	"	"	"	"
Surrogate: 4-Terphenyl-d14	61.9 %		33-122	"	"	"	"	"	"
Surrogate: Nitrobenzene-d5	49.8 %		29-110	"	"	"	"	"	"

pH in Soil by 9045D

pH	8.49			pH Units	1	B3H1116	08/11/2023	08/12/2023	
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Total Metals by 6020B

Arsenic	3.39	0.0855	0.25	mg/Kg	5	L698721	08/15/2023	08/16/2023	
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 8000 W 44th Ave
 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: KMG - REI H 9-32D

FL-E03@4'

8/10/2023 1:16:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.

Y308264-04 (Soil)

Total Metals by 6020B

Barium	153	0.042	0.25	mg/Kg	5	L698721	08/15/2023	08/16/2023	
Cadmium	0.171	0.026	0.25	"	"	"	"	"	J

Origins Laboratory, Inc.



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

Dan Coloccia
 Project Number: [none]
 Project: KMG - REI H 9-32D

FL-W03@4'

8/10/2023 1:18:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y308264-05 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B3H1020	08/10/2023	08/10/2023	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: *o*-Terphenyl 92.9% 50-150 " " " "

GBTEX+TMBs by 8260D

Ethylbenzene	ND		0.00200	mg/kg	1	B3H1024	08/10/2023	08/10/2023	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 98.1% 70-130 " " " "
 Surrogate: Toluene-d8 98.8% 70-130 " " " "
 Surrogate: 4-Bromofluorobenzene 95.2% 70-130 " " " "

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00109	0.00201	mg/Kg	1	L698892	08/16/2023	08/16/2023	
2-Methylnaphthalene	ND	0.00194	0.00201	"	"	"	"	"	
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"	
Anthracene	ND	0.000334	0.00067	"	"	"	"	"	

Origins Laboratory, Inc.



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

Dan Coloccia
 Project Number: [none]
 Project: KMG - REI H 9-32D

FL-W03@4'

8/10/2023 1:18:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.

Y308264-05 (Soil)

PAH by 8270D SIM

Benzo(a)anthracene	ND	0.000493	0.00067	mg/Kg	1	L698892	08/16/2023	08/16/2023	
Benzo(a)pyrene	0.000584	0.000468	0.00067	"	"	"	"	"	J
Benzo(b)fluoranthene	ND	0.000585	0.00067	"	"	"	"	"	
Benzo(k)fluoranthene	ND	0.000437	0.00067	"	"	"	"	"	
Chrysene	ND	0.000624	0.00067	"	"	"	"	"	
Fluoranthene	0.00111	0.000394	0.00067	"	"	"	"	"	
Fluorene	ND	0.000286	0.00067	"	"	"	"	"	
Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	"	"	"	"	"	
Naphthalene	ND	0.00145	0.00201	"	"	"	"	"	
Pyrene	0.000941	0.000643	0.00067	"	"	"	"	"	


Surrogate: 2-Fluorobiphenyl	51.1%		33-115	"	"	"	"	"	
Surrogate: 4-Terphenyl-d14	58.7%		33-122	"	"	"	"	"	
Surrogate: Nitrobenzene-d5	41.3%		29-110	"	"	"	"	"	

pH in Soil by 9045D

pH	8.40			pH Units	1	B3H1116	08/11/2023	08/12/2023	
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Total Metals by 6020B

Arsenic	1.74	0.0855	0.25	mg/Kg	5	L698722	08/15/2023	08/16/2023	
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Origins Laboratory, Inc.


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

Dan Coloccia
 Project Number: [none]
 Project: KMG - REI H 9-32D

FL-W03@4'

8/10/2023 1:18:00PM


Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.

Y308264-05 (Soil)

Total Metals by 6020B

Barium	75.3	0.042	0.25	mg/Kg	5	L698722	08/15/2023	08/16/2023	
Cadmium	0.123	0.026	0.25	"	"	"	"	"	J

Origins Laboratory, Inc.


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

Dan Coloccia
Project Number: [none]
Project: KMG - REI H 9-32D

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B3H1020 - EPA 3550B

Blank (B3H1020-BLK1)

Prepared: 08/10/2023 Analyzed: 08/10/2023

Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	25		"	24.9		101	50-150			

Origins Laboratory, Inc.

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Jordan A. Bynon, Project Manager



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

Dan Coloccia
 Project Number: [none]
 Project: KMG - REI H 9-32D

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B3H1020 - EPA 3550B

LCS (B3H1020-BS1)

Prepared: 08/10/2023 Analyzed: 08/10/2023

Diesel (C10-C28)	969	50.0	mg/kg	1000		96.9	70-130			
Residual Range Organics (C28-C40)	1030	200	"	1000		103	70-130			
Surrogate: o-Terphenyl	63		"	49.8		126	50-150			

Origins Laboratory, Inc.

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Jordan A. Bynon, Project Manager



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

Dan Coloccia
 Project Number: [none]
 Project: KMG - REI H 9-32D

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B3H1020 - EPA 3550B

Matrix Spike (B3H1020-MS1)

Source: Y308256-01

Prepared: 08/10/2023 Analyzed: 08/10/2023

Diesel (C10-C28)	983	50.0	mg/kg	1000	ND	98.3	70-130			
Residual Range Organics (C28-C40)	1050	200	"	1000	ND	105	70-130			
Surrogate: o-Terphenyl	58		"	49.8		116	50-150			

Origins Laboratory, Inc.

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Jordan A. Bynon, Project Manager



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

Dan Coloccia
 Project Number: [none]
 Project: KMG - REI H 9-32D

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B3H1020 - EPA 3550B

Matrix Spike Dup (B3H1020-MSD1)

Source: Y308256-01

Prepared: 08/10/2023 Analyzed: 08/10/2023

Diesel (C10-C28)	866	50.0	mg/kg	1000	ND	86.6	70-130	12.7	35	
Residual Range Organics (C28-C40)	922	200	"	1000	ND	92.2	70-130	12.6	35	
Surrogate: o-Terphenyl	43		"	49.8		85.5	50-150			

Origins Laboratory, Inc.

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Jordan A. Bynon, Project Manager

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

Dan Coloccia
 Project Number: [none]
 Project: KMG - REI H 9-32D

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B3H1024 - EPA 5030 (soil)

Blank (B3H1024-BLK1)

Prepared: 08/10/2023 Analyzed: 08/10/2023

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							U
1,3,5-Trimethylbenzene	ND	0.00200	"							U
Benzene	ND	0.00200	"							U
Ethylbenzene	ND	0.00200	"							U
Naphthalene	ND	0.00380	"							U
Toluene	ND	0.00200	"							U
Xylenes, total	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		97.3	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.3	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		96.2	70-130			

Origins Laboratory, Inc.



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Jordan A. Bynon, Project Manager



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

Dan Coloccia
 Project Number: [none]
 Project: KMG - REI H 9-32D

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B3H1024 - EPA 5030 (soil)

LCS (B3H1024-BS1)

Prepared: 08/10/2023 Analyzed: 08/10/2023

1,2,4-Trimethylbenzene	0.101	0.00200	mg/kg	0.100		101	70-130			
1,3,5-Trimethylbenzene	0.103	0.00200	"	0.100		103	70-130			
Benzene	0.0908	0.00200	"	0.100		90.8	70-130			
Ethylbenzene	0.106	0.00200	"	0.100		106	70-130			
Naphthalene	0.0972	0.00380	"	0.100		97.2	70-130			
Toluene	0.0929	0.00200	"	0.100		92.9	70-130			
o-Xylene	0.113	0.00200	"	0.100		113	70-130			
m,p-Xylene	0.223	0.00400	"	0.200		111	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		96.5	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		103	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		107	70-130			

Origins Laboratory, Inc.

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Jordan A. Bynon, Project Manager



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

Dan Coloccia
 Project Number: [none]
 Project: KMG - REI H 9-32D

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B3H1024 - EPA 5030 (soil)

Matrix Spike (B3H1024-MS1)

Source: Y308256-01

Prepared: 08/10/2023 Analyzed: 08/10/2023

1,2,4-Trimethylbenzene	0.0927	0.00200	mg/kg	0.100	ND	92.7	70-130			
1,3,5-Trimethylbenzene	0.0949	0.00200	"	0.100	ND	94.9	70-130			
Benzene	0.0664	0.00200	"	0.100	ND	66.4	70-130			QM-07
Ethylbenzene	0.0970	0.00200	"	0.100	ND	97.0	70-130			
Naphthalene	0.0930	0.00380	"	0.100	0.00202	91.0	70-130			
Toluene	0.0794	0.00200	"	0.100	ND	79.4	70-130			
o-Xylene	0.104	0.00200	"	0.100	ND	104	70-130			
m,p-Xylene	0.203	0.00400	"	0.200	ND	102	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		98.0	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		103	70-130			
Surrogate: 4-Bromofluorobenzene	0.14		"	0.125		108	70-130			

Origins Laboratory, Inc.

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Jordan A. Bynon, Project Manager



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

Dan Coloccia
 Project Number: [none]
 Project: KMG - REI H 9-32D

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B3H1024 - EPA 5030 (soil)

Matrix Spike Dup (B3H1024-MSD1)

Source: Y308256-01

Prepared: 08/10/2023 Analyzed: 08/10/2023

1,2,4-Trimethylbenzene	0.0944	0.00200	mg/kg	0.100	ND	94.4	70-130	1.84	20	
1,3,5-Trimethylbenzene	0.0931	0.00200	"	0.100	ND	93.1	70-130	1.91	20	
Benzene	0.0676	0.00200	"	0.100	ND	67.6	70-130	1.79	20	QM-07
Ethylbenzene	0.0944	0.00200	"	0.100	ND	94.4	70-130	2.70	20	
Naphthalene	0.0978	0.00380	"	0.100	0.00202	95.8	70-130	5.01	20	
Toluene	0.0791	0.00200	"	0.100	ND	79.1	70-130	0.429	20	
o-Xylene	0.104	0.00200	"	0.100	ND	104	70-130	0.519	20	
m,p-Xylene	0.197	0.00400	"	0.200	ND	98.6	70-130	2.87	20	
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		99.4	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		100	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		105	70-130			

Origins Laboratory, Inc.

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Jordan A. Bynon, Project Manager



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

Dan Coloccia
Project Number: [none]
Project: KMG - REI H 9-32D

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Saturated Paste - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B3H1116 - Saturated Paste pH/EC

Duplicate (B3H1116-DUP1)

Source: Y308264-01

Prepared: 08/11/2023 Analyzed: 08/12/2023

pH	8.29	pH Units	8.60	3.67	25
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Origins Laboratory, Inc.

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Jordan A. Bynon, Project Manager

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

Dan Coloccia
 Project Number: [none]
 Project: KMG - REI H 9-32D

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L698892 - 3550B

MSD (L 93937-MSD-L698892)

Source: Y308264-02

Prepared: 08/16/2023 Analyzed: 08/16/2023

Acenaphthene	0.107	0.00067	mg/Kg	0.164	<0.000304	65.2	30-130	5.4	30	
Naphthalene	0.101	0.00201	"	0.164	<0.00145	61.5	30-130	3.8	30	
Fluorene	0.12	0.00067	"	0.164	<0.000286	73.1	30-130	5.6	30	
Fluoranthene	0.114	0.00067	"	0.164	<0.000394	69.5	30-130	4.2	30	
Chrysene	0.118	0.00067	"	0.164	<0.000624	71.9	30-130	3.3	30	
Benzo(k)fluoranthene	0.101	0.00067	"	0.164	<0.000437	61.5	30-130	1.7	30	
Benzo(b)fluoranthene	0.0902	0.00067	"	0.164	<0.000585	55	30-130	5.3	30	
Benzo(a)pyrene	0.124	0.00067	"	0.164	<0.000468	75.6	30-130	2.3	30	
1-Methylnaphthalene	0.107	0.00201	"	0.164	<0.00109	65.2	30-130	4.5	30	
Anthracene	0.12	0.00067	"	0.164	<0.000334	73.1	30-130	3.2	30	
2-Methylnaphthalene	0.109	0.00201	"	0.164	<0.00194	66.4	30-130	4.4	30	
Pyrene	0.112	0.00067	"	0.164	<0.000643	68.2	30-130	4.3	30	
Benzo(a)anthracene	0.114	0.00067	"	0.164	<0.000493	69.5	30-130	5.1	30	
Indeno(1,2,3-cd)pyrene	0.111	0.00067	"	0.164	<0.000627	67.6	30-130	26.5	30	
Surrogate: 4-Terphenyl-d14	67.1		"	0.329	218	67.1	33-122			
Surrogate: 2-Fluorobiphenyl	62.9		"	0.329	210	62.9	33-115			
Surrogate: Nitrobenzene-d5	50.1		"	0.329	174	50.1	29-110			

MS (L 93937-MS-L698892)

Source: Y308264-02

Prepared: 08/16/2023 Analyzed: 08/16/2023

Fluorene	0.127	0.00067	mg/Kg	0.166	<0.000286	76.5	30-130			
1-Methylnaphthalene	0.112	0.00201	"	0.166	<0.00109	67.4	30-130			
2-Methylnaphthalene	0.114	0.00201	"	0.166	<0.00194	68.6	30-130			
Acenaphthene	0.113	0.00067	"	0.166	<0.000304	68	30-130			
Anthracene	0.124	0.00067	"	0.166	<0.000334	74.6	30-130			
Benzo(a)anthracene	0.12	0.00067	"	0.166	<0.000493	72.2	30-130			
Benzo(a)pyrene	0.127	0.00067	"	0.166	<0.000468	76.5	30-130			
Benzo(b)fluoranthene	0.0855	0.00067	"	0.166	<0.000585	51.5	30-130			

Origins Laboratory, Inc.



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

Dan Coloccia
 Project Number: [none]
 Project: KMG - REI H 9-32D

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L698892 - 3550B

MS (L 93937-MS-L698892)

Source: Y308264-02

Prepared: 08/16/2023 Analyzed: 08/16/2023

Benzo(k)fluoranthene	0.0992	0.00067	mg/Kg	0.166	<0.000437	59.7	30-130			
Fluoranthene	0.119	0.00067	"	0.166	<0.000394	71.6	30-130			
Indeno(1,2,3-cd)pyrene	0.085	0.00067	"	0.166	<0.000627	51.2	30-130			
Naphthalene	0.105	0.00201	"	0.166	<0.00145	63.2	30-130			
Pyrene	0.117	0.00067	"	0.166	<0.000643	70.4	30-130			
Chrysene	0.122	0.00067	"	0.166	<0.000624	73.4	30-130			
Surrogate: 2-Fluorobiphenyl	65.8		"	0.331	210	65.8	33-115			
Surrogate: 4-Terphenyl-d14	67.9		"	0.331	218	67.9	33-122			
Surrogate: Nitrobenzene-d5	52.5		"	0.331	174	52.5	29-110			

LCS (LCS-L698892)

Prepared: 08/16/2023 Analyzed: 08/16/2023

Anthracene	0.131	0.00067	mg/Kg	0.167		78.4	30-130			
Naphthalene	0.107	0.00201	"	0.167		64	30-130			
Indeno(1,2,3-cd)pyrene	0.118	0.00067	"	0.167		70.6	30-130			
Fluorene	0.128	0.00067	"	0.167		76.6	30-130			
Fluoranthene	0.133	0.00067	"	0.167		79.6	30-130			
1-Methylnaphthalene	0.109	0.00201	"	0.167		65.2	30-130			
2-Methylnaphthalene	0.11	0.00201	"	0.167		65.8	30-130			
Acenaphthene	0.11	0.00067	"	0.167		65.8	30-130			
Benzo(a)anthracene	0.116	0.00067	"	0.167		69.4	30-130			
Benzo(a)pyrene	0.13	0.00067	"	0.167		77.8	30-130			
Benzo(b)fluoranthene	0.122	0.00067	"	0.167		73	30-130			
Benzo(k)fluoranthene	0.13	0.00067	"	0.167		77.8	30-130			
Pyrene	0.133	0.00067	"	0.167		79.6	30-130			
Chrysene	0.13	0.00067	"	0.167		77.8	30-130			
Surrogate: Nitrobenzene-d5	62.4		"	0.333		62.4	29-110			
Surrogate: 2-Fluorobiphenyl	69.6		"	0.333		69.6	33-115			

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

Dan Coloccia
 Project Number: [none]
 Project: KMG - REI H 9-32D

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L698892 - 3550B

LCS (LCS-L698892)

Prepared: 08/16/2023 Analyzed: 08/16/2023

Surrogate: 4-Terphenyl-d14 80.4 mg/Kg 0.333 80.4 33-122

LRB (LRB-L698892)

Prepared: 08/16/2023 Analyzed: 08/16/2023

2-Methylnaphthalene	ND	0.00201	mg/Kg							
Indeno(1,2,3-cd)pyrene	ND	0.00067	"							
1-Methylnaphthalene	ND	0.00201	"							
Naphthalene	ND	0.00201	"							
Fluorene	ND	0.00067	"							
Fluoranthene	ND	0.00067	"							
Chrysene	ND	0.00067	"							
Benzo(k)fluoranthene	ND	0.00067	"							
Benzo(b)fluoranthene	ND	0.00067	"							
Benzo(a)anthracene	ND	0.00067	"							
Anthracene	ND	0.00067	"							
Acenaphthene	ND	0.00067	"							
Pyrene	ND	0.00067	"							
Benzo(a)pyrene	ND	0.00067	"							
Surrogate: Nitrobenzene-d5	58.8		"	0.333		58.8	29-110			
Surrogate: 4-Terphenyl-d14	72.9		"	0.333		72.9	33-122			
Surrogate: 2-Fluorobiphenyl	69.6		"	0.333		69.6	33-115			

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

Dan Coloccia
 Project Number: [none]
 Project: KMG - REI H 9-32D

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L698580 - 3550B

MSD (L 93884-MSD-L698580)

Source: 93884

Prepared: 08/15/2023 Analyzed: 08/15/2023

2-Methylnaphthalene	0.118	0.00201	mg/Kg	0.163	<0.00194	72.3	30-130	3.4	30	
Indeno(1,2,3-cd)pyrene	0.118	0.00067	"	0.163	0.000723	71.9	30-130	19.2	30	
Fluoranthene	0.114	0.00067	"	0.163	<0.000394	69.9	30-130	10	30	
Benzo(k)fluoranthene	0.103	0.00067	"	0.163	<0.000437	63.1	30-130	3.2	30	
Benzo(b)fluoranthene	0.0985	0.00067	"	0.163	0.00102	59.8	30-130	11.9	30	
Benzo(a)pyrene	0.14	0.00067	"	0.163	<0.000468	85.8	30-130	3.6	30	
Benzo(a)anthracene	0.127	0.00067	"	0.163	<0.000493	77.9	30-130	1.5	30	
Anthracene	0.145	0.00067	"	0.163	<0.000334	88.9	30-130	3.5	30	
1-Methylnaphthalene	0.119	0.00201	"	0.163	<0.00109	73	30-130	5.1	30	
Fluorene	0.141	0.00067	"	0.163	<0.000286	86.5	30-130	14.4	30	
Naphthalene	0.113	0.00201	"	0.163	<0.00145	69.3	30-130	2.6	30	
Acenaphthene	0.119	0.00067	"	0.163	<0.000304	73	30-130	0.8	30	
Pyrene	0.108	0.00067	"	0.163	<0.000643	66.2	30-130	16.1	30	
Chrysene	0.127	0.00067	"	0.163	<0.000624	77.9	30-130	4	30	
Surrogate: 4-Terphenyl-d14	64.2		"	0.327	219	64.2	33-122			
Surrogate: 2-Fluorobiphenyl	66.9		"	0.327	202	66.9	33-115			
Surrogate: Nitrobenzene-d5	54.4		"	0.327	190	54.4	29-110			

MS (L 93884-MS-L698580)

Source: 93884

Prepared: 08/15/2023 Analyzed: 08/15/2023

Chrysene	0.122	0.00067	mg/Kg	0.166	<0.000624	73.4	30-130			
Pyrene	0.127	0.00067	"	0.166	<0.000643	76.5	30-130			
Naphthalene	0.11	0.00201	"	0.166	<0.00145	66.2	30-130			
Indeno(1,2,3-cd)pyrene	0.0973	0.00067	"	0.166	0.000723	58.1	30-130			
Fluoranthene	0.126	0.00067	"	0.166	<0.000394	75.9	30-130			
Benzo(k)fluoranthene	0.0997	0.00067	"	0.166	<0.000437	60	30-130			
Benzo(b)fluoranthene	0.0874	0.00067	"	0.166	0.00102	52	30-130			
2-Methylnaphthalene	0.114	0.00201	"	0.166	<0.00194	68.6	30-130			

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

Dan Coloccia
 Project Number: [none]
 Project: KMG - REI H 9-32D

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L698580 - 3550B

MS (L 93884-MS-L698580)

Source: 93884

Prepared: 08/15/2023 Analyzed: 08/15/2023

1-Methylnaphthalene	0.113	0.00201	mg/Kg	0.166	<0.00109	68	30-130			
Fluorene	0.122	0.00067	"	0.166	<0.000286	73.4	30-130			
Benzo(a)pyrene	0.135	0.00067	"	0.166	<0.000468	81.3	30-130			
Acenaphthene	0.12	0.00067	"	0.166	<0.000304	72.2	30-130			
Anthracene	0.14	0.00067	"	0.166	<0.000334	84.3	30-130			
Benzo(a)anthracene	0.125	0.00067	"	0.166	<0.000493	75.3	30-130			
Surrogate: Nitrobenzene-d5	53.4		"	0.331	190	53.4	29-110			
Surrogate: 2-Fluorobiphenyl	65.2		"	0.331	202	65.2	33-115			
Surrogate: 4-Terphenyl-d14	74.9		"	0.331	219	74.9	33-122			

LCS (LCS-L698580)

Prepared: 08/15/2023 Analyzed: 08/15/2023

Indeno(1,2,3-cd)pyrene	0.128	0.00067	mg/Kg	0.167		76.6	30-130			
Anthracene	0.142	0.00067	"	0.167		85	30-130			
Benzo(k)fluoranthene	0.1	0.00067	"	0.167		59.8	30-130			
Benzo(b)fluoranthene	0.0754	0.00067	"	0.167		45.1	30-130			
Benzo(a)pyrene	0.141	0.00067	"	0.167		84.4	30-130			
Fluoranthene	0.103	0.00067	"	0.167		61.6	30-130			
Fluorene	0.134	0.00067	"	0.167		80.2	30-130			
Chrysene	0.129	0.00067	"	0.167		77.2	30-130			
Naphthalene	0.116	0.00201	"	0.167		69.4	30-130			
Pyrene	0.0976	0.00067	"	0.167		58.4	30-130			
1-Methylnaphthalene	0.122	0.00201	"	0.167		73	30-130			
2-Methylnaphthalene	0.118	0.00201	"	0.167		70.6	30-130			
Acenaphthene	0.125	0.00067	"	0.167		74.8	30-130			
Benzo(a)anthracene	0.128	0.00067	"	0.167		76.6	30-130			
Surrogate: Nitrobenzene-d5	59.1		"	0.333		59.1	29-110			
Surrogate: 2-Fluorobiphenyl	76.5		"	0.333		76.5	33-115			

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

Dan Coloccia
 Project Number: [none]
 Project: KMG - REI H 9-32D

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L698580 - 3550B

LCS (LCS-L698580)

Prepared: 08/15/2023 Analyzed: 08/15/2023

Surrogate: 4-Terphenyl-d14 63.3 mg/Kg 0.333 63.3 33-122

LRB (LRB-L698580)

Prepared: 08/15/2023 Analyzed: 08/15/2023

Fluorene	ND	0.00067	mg/Kg				-			
Pyrene	ND	0.00067	"				-			
Naphthalene	ND	0.00201	"				-			
Indeno(1,2,3-cd)pyrene	ND	0.00067	"				-			
2-Methylnaphthalene	ND	0.00201	"				-			
Anthracene	ND	0.00067	"				-			
Fluoranthene	ND	0.00067	"				-			
Acenaphthene	ND	0.00067	"				-			
Benzo(a)pyrene	ND	0.00067	"				-			
Benzo(b)fluoranthene	ND	0.00067	"				-			
Benzo(k)fluoranthene	ND	0.00067	"				-			
Chrysene	ND	0.00067	"				-			
Benzo(a)anthracene	ND	0.00067	"				-			
1-Methylnaphthalene	ND	0.00201	"				-			
Surrogate: 4-Terphenyl-d14	84.3		"	0.333		84.3	33-122			
Surrogate: Nitrobenzene-d5	65.1		"	0.333		65.1	29-110			
Surrogate: 2-Fluorobiphenyl	72.6		"	0.333		72.6	33-115			

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

Dan Coloccia
 Project Number: [none]
 Project: KMG - REI H 9-32D

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L698722 - 3050B

LCS (LCS-L698722)

Prepared: 08/15/2023 Analyzed: 08/16/2023

Cadmium	0.485	0.25	mg/Kg	0.5		97	80-120			
Barium	4.55	0.25	"	5		91	80-120			
Arsenic	2.4	0.25	"	2.5		96	80-120			

LRB (LRB-L698722)

Prepared: 08/15/2023 Analyzed: 08/16/2023

Arsenic	ND	0.25	mg/Kg			-	-			
Barium	ND	0.25	"			-	-			
Cadmium	ND	0.25	"			-	-			

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Jordan A. Bynon, Project Manager

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

Dan Coloccia
 Project Number: [none]
 Project: KMG - REI H 9-32D

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L698721 - 3050B

MSD (L 93939-MSD-L698721)

Source: Y308264-04

Prepared: 08/15/2023 Analyzed: 08/16/2023

Arsenic	4.24	0.25	mg/Kg	2.35	3.39	36	75-125	4.6	80	*
Barium	108	0.25	"	4.71	153	0	75-125	0.9	80	!*
Cadmium	0.51	0.25	"	0.471	0.171	72	75-125	1.3	80	*

MS (L 93939-MS-L698721)

Source: Y308264-04

Prepared: 08/15/2023 Analyzed: 08/16/2023

Arsenic	4.44	0.25	mg/Kg	2.41	3.39	44	75-125			*
Barium	107	0.25	"	4.82	153	0	75-125			!*
Cadmium	0.517	0.25	"	0.482	0.171	72	75-125			*

LCS (LCS-L698721)


Prepared: 08/15/2023 Analyzed: 08/16/2023

Arsenic	2.39	0.25	mg/Kg	2.5		96	80-120			
Barium	4.41	0.25	"	5		88	80-120			
Cadmium	0.494	0.25	"	0.5		99	80-120			

LRB (LRB-L698721)

Prepared: 08/15/2023 Analyzed: 08/16/2023

Cadmium	ND	0.25	mg/Kg							
Barium	ND	0.25	"							
Arsenic	ND	0.25	"							

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

Dan Coloccia
Project Number: [none]
Project: KMG - REI H 9-32D

Notes and Definitions

- U Sample is Non-Detect.
 - QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
 - J Estimated Value. Analyte below reported quantitation limit.
 - [* [Undefined]
 - * QC Failure
 - ND Analyte NOT DETECTED at or above the reporting limit
 - RPD Relative Percent Difference
- All soil results are reported on a wet weight basis.
Calculated results may use J-flag data (instead of reported "ND") as part of calculation to provide a more accurate result.

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