

**TABLE 1**  
**SOIL SAMPLE ANALYTICAL AND FIELD RESULTS**  
**NEWBY 15-33HZ**  
**WELD COUNTY, COLORADO**  
**KERR-MCGEE OIL & GAS ONSHORE, LP**

Analyte	COGCC Table 915-1 Allowable Levels	B01@0.5'	B02@0.5'	B03@0.5'	B04@0.5'	B05@0.5'
		2/25/2021	2/25/2021	2/25/2021	2/25/2021	2/25/2021
Photoionization Detector Reading						
PID (ppm)	NA	0.0	3.2	2.3	4.7	6.8
Total Petroleum Hydrocarbons by USEPA Method 8015D						
TPH-GRO* (mg/kg)	500	<0.200	<0.200	<0.200	<0.200	0.303
TPH-DRO* (mg/kg)	500	<25.0	<25.0	<25.0	<25.0	<25.0
TPH-RRO* (mg/kg)	500	<100	<100	<100	<100	<100
Soil Suitability for Reclamation						
EC (mmhos/cm)	4	3.90	2.14	5.32	3.01	4.78
Sodium Adsorption Ratio (units)	6	10.12	3.30	6.38	1.62	3.57
pH, Lab (pH units)	6-8.3	7.29	7.15	7.07	7.17	7.20
Boron (mg/L)	2	1.0	0.6	1.0	0.5	1.0
Soil Suitability for Reclamation (Residential Screening Levels)						
Benzene (mg/kg)	1.2	<0.00200	<0.00200	0.00700	0.0267	0.0905
Toluene (mg/kg)	490	<0.00200	<0.00200	0.00784	0.0212	0.0971
Ethylbenzene (mg/kg)	5.8	<0.00200	<0.00200	<0.00200	<0.00200	0.00492
1,2,4-Trimethylbenzene (mg/kg)	30	<0.00200	<0.00200	<0.00200	<0.00200	0.00302
1,3,5-Trimethylbenzene (mg/kg)	27	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200
Acenaphthene (mg/kg)	360	<0.00364	<0.00390	<0.00394	<0.00382	<0.00385
Anthracene (mg/kg)	1800	<0.00364	<0.00390	<0.00394	<0.00382	<0.00385
Benzo (a) anthracene (mg/kg)	1.1	<0.00364	<0.00390	<0.00394	<0.00382	<0.00385
Benzo (b) fluoranthene (mg/kg)	1.1	<0.00364	<0.00390	<0.00394	<0.00382	<0.00385
Benzo (k) fluoranthene (mg/kg)	11	<0.00364	<0.00390	<0.00394	<0.00382	<0.00385
Benzo (a) pyrene (mg/kg)	0.11	<0.00364	<0.00390	<0.00394	<0.00382	<0.00385
Chrysene (mg/kg)	110	<0.00364	<0.00390	<0.00394	<0.00382	<0.00385
Fluoranthene (mg/kg)	240	<0.00364	<0.00390	<0.00394	<0.00382	<0.00385
Fluorene (mg/kg)	240	<0.00364	<0.00390	<0.00394	<0.00382	<0.00385
Indeno (1,2,3-cd) pyrene (mg/kg)	1.1	<0.00364	<0.00390	<0.00394	<0.00382	<0.00385
1-Methylnaphthalene (mg/kg)	18	<0.00364	<0.00390	<0.00394	<0.00382	<0.00385
2-Methylnaphthalene (mg/kg)	24	<0.00364	<0.00390	<0.00394	<0.00382	<0.00385
Naphthalene (mg/kg)	2	<0.00364	<0.00390	<0.00394	<0.00382	<0.00385
Pyrene (mg/kg)	180	<0.00364	<0.00390	<0.00394	<0.00382	<0.00385
Metals in Soils (Residential Screening Levels)						
Arsenic (mg/kg)	0.68	2.72	5.34	6.07	5.95	5.78
Barium (mg/kg)	15000	107	212	197	306	263
Cadmium (mg/kg)	71	0.171	0.145	0.129	0.154	0.172
Copper (mg/kg)	3100	6.82	10.4	10.9	11.5	11.4
Lead (mg/kg)	400	4.97	10.2	11.2	11.0	11.2
Nickel (mg/kg)	1500	7.30	13.3	14.2	14.5	14.1
Selenium (mg/kg)	390	0.578	0.975	1.03	1.03	0.930
Silver (mg/kg)	390	<0.528	<0.587	<0.535	<0.565	<0.570

**TABLE 1**  
**SOIL SAMPLE ANALYTICAL AND FIELD RESULTS**  
**NEWBY 15-33HZ**  
**WELD COUNTY, COLORADO**  
**KERR-MCGEE OIL & GAS ONSHORE, LP**

Analyte	COGCC Table 915-1 Allowable Levels	B01@0.5'	B02@0.5'	B03@0.5'	B04@0.5'	B05@0.5'
		2/25/2021	2/25/2021	2/25/2021	2/25/2021	2/25/2021
Zinc (mg/kg)	23000	21.0	37.7	41.2	42.0	41.1

**Notes:**

COGCC - Colorado Oil and Gas Conservation Commission  
mg/kg - milligrams per kilogram  
PID - Photoionization Detector  
ppm - parts per million  
TPH - total petroleum hydrocarbons  
GRO - gasoline range organics  
DRO - diesel range organics  
RRO - residual range organics

EC - electrical conductivity  
SAR - sodium adsorption ratio  
mmhos/cm - millimhos per centimeter  
<0.00200 - less than laboratory reporting limit  
NA - Not Applicable / Not Analyzed  
Bold indicates exceeds allowable level  
\*Allowable level for TPH is 500 mg/kg for combined GRO,  
DRO, and RRO

**TABLE 1 (Continued)**  
**SOIL SAMPLE ANALYTICAL AND FIELD RESULTS**  
**NEWBY 15-33HZ**  
**WELD COUNTY, COLORADO**  
**KERR-MCGEE OIL & GAS ONSHORE, LP**

Analyte	COGCC Table 915-1 Allowable Levels	B06@0.5'	BG01	BG02	BG03	BG04
		2/25/2021	2/25/2021	2/25/2021	2/25/2021	2/25/2021
Photoionization Detector Reading						
PID (ppm)	NA	1.7	NA	NA	NA	NA
Total Petroleum Hydrocarbons by USEPA Method 8015D						
TPH-GRO* (mg/kg)	500	<0.200	NA	NA	NA	NA
TPH-DRO* (mg/kg)	500	<25.0	NA	NA	NA	NA
TPH-RRO* (mg/kg)	500	<100	NA	NA	NA	NA
Soil Suitability for Reclamation						
EC (mmhos/cm)	4	2.42	1.14	NA	NA	NA
Sodium Adsorption Ratio (units)	6	2.15	1.13	NA	NA	NA
pH, Lab (pH units)	6-8.3	7.30	7.29	NA	NA	NA
Boron (mg/L)	2	0.7	1.4	NA	NA	NA
Soil Suitability for Reclamation (Residential Screening Levels)						
Benzene (mg/kg)	1.2	0.00946	NA	NA	NA	NA
Toluene (mg/kg)	490	0.00804	NA	NA	NA	NA
Ethylbenzene (mg/kg)	5.8	<0.00200	NA	NA	NA	NA
1,2,4-Trimethylbenzene (mg/kg)	30	<0.00200	NA	NA	NA	NA
1,3,5-Trimethylbenzene (mg/kg)	27	<0.00200	NA	NA	NA	NA
Acenaphthene (mg/kg)	360	<0.00394	NA	NA	NA	NA
Anthracene (mg/kg)	1800	<0.00394	NA	NA	NA	NA
Benzo (a) anthracene (mg/kg)	1.1	<0.00394	NA	NA	NA	NA
Benzo (b) fluoranthene (mg/kg)	1.1	<0.00394	NA	NA	NA	NA
Benzo (k) fluoranthene (mg/kg)	11	<0.00394	NA	NA	NA	NA
Benzo (a) pyrene (mg/kg)	0.11	<0.00394	NA	NA	NA	NA
Chrysene (mg/kg)	110	<0.00394	NA	NA	NA	NA
Fluoranthene (mg/kg)	240	<0.00394	NA	NA	NA	NA
Fluorene (mg/kg)	240	<0.00394	NA	NA	NA	NA
Indeno (1,2,3-cd) pyrene (mg/kg)	1.1	0.00197	NA	NA	NA	NA
1-Methylnaphthalene (mg/kg)	18	<0.00394	NA	NA	NA	NA
2-Methylnaphthalene (mg/kg)	24	<0.00394	NA	NA	NA	NA
Naphthalene (mg/kg)	2	<0.00394	NA	NA	NA	NA
Pyrene (mg/kg)	180	<0.00394	NA	NA	NA	NA
Metals in Soils (Residential Screening Levels)						
Arsenic (mg/kg)	0.68	5.47	5.94	5.52	6.63	5.11
Barium (mg/kg)	15000	175	165	NA	NA	NA
Cadmium (mg/kg)	71	0.192	0.234	NA	NA	NA
Copper (mg/kg)	3100	10.7	14.7	NA	NA	NA
Lead (mg/kg)	400	10.7	15.8	NA	NA	NA
Nickel (mg/kg)	1500	13.1	15.3	NA	NA	NA
Selenium (mg/kg)	390	0.903	0.990	NA	NA	NA
Silver (mg/kg)	390	<0.550	<0.540	NA	NA	NA

**TABLE 1 (Continued)**  
**SOIL SAMPLE ANALYTICAL AND FIELD RESULTS**  
**NEWBY 15-33HZ**  
**WELD COUNTY, COLORADO**  
**KERR-MCGEE OIL & GAS ONSHORE, LP**

Analyte	COGCC Table 915-1 Allowable Levels	B06@0.5'	BG01	BG02	BG03	BG04
		2/25/2021	2/25/2021	2/25/2021	2/25/2021	2/25/2021
Zinc (mg/kg)	23000	39.4	53.9	NA	NA	NA

**Notes:**

COGCC - Colorado Oil and Gas Conservation Commission  
mg/kg - milligrams per kilogram  
PID - Photoionization Detector  
ppm - parts per million  
TPH - total petroleum hydrocarbons  
GRO - gasoline range organics  
DRO - diesel range organics  
RRO - residual range organics

EC - electrical conductivity  
SAR - sodium adsorption ratio  
mmhos/cm - millimhos per centimeter  
<0.00200 - less than laboratory reporting limit  
NA - Not Applicable / Not Analyzed  
Bold indicates exceeds allowable level  
\*Allowable level for TPH is 500 mg/kg for combined GRO,  
DRO, and RRO

**TABLE 1 (Continued)**  
**SOIL SAMPLE ANALYTICAL AND FIELD RESULTS**  
**NEWBY 15-33HZ**  
**WELD COUNTY, COLORADO**  
**KERR-MCGEE OIL & GAS ONSHORE, LP**

Analyte	COGCC Table 915-1 Allowable Levels	BGComp01	B07@1.5'	B08@1.5'	B09@1.5'
		2/25/2021	4/1/2021	4/1/2021	4/1/2021

**Photoionization Detector Reading**

PID (ppm)	NA	NA	2.0	0.6	1.7
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**Total Petroleum Hydrocarbons by USEPA Method 8015D**

TPH-GRO* (mg/kg)	500	NA	NA	NA	NA
TPH-DRO* (mg/kg)	500	NA	NA	NA	NA
TPH-RRO* (mg/kg)	500	NA	NA	NA	NA

**Soil Suitability for Reclamation**

EC (mmhos/cm)	4	NA	NA	0.663	1.14
Sodium Adsorption Ratio (units)	6	NA	1.16	1.17	NA
pH, Lab (pH units)	6-8.3	NA	NA	NA	NA
Boron (mg/L)	2	NA	NA	NA	NA

**Soil Suitability for Reclamation (Residential Screening Levels)**

Benzene (mg/kg)	1.2	NA	NA	NA	NA
Toluene (mg/kg)	490	NA	NA	NA	NA
Ethylbenzene (mg/kg)	5.8	NA	NA	NA	NA
1,2,4-Trimethylbenzene (mg/kg)	30	NA	NA	NA	NA
1,3,5-Trimethylbenzene (mg/kg)	27	NA	NA	NA	NA
Acenaphthene (mg/kg)	360	NA	NA	NA	NA
Anthracene (mg/kg)	1800	NA	NA	NA	NA
Benzo (a) anthracene (mg/kg)	1.1	NA	NA	NA	NA
Benzo (b) fluoranthene (mg/kg)	1.1	NA	NA	NA	NA
Benzo (k) fluoranthene (mg/kg)	11	NA	NA	NA	NA
Benzo (a) pyrene (mg/kg)	0.11	NA	NA	NA	NA
Chrysene (mg/kg)	110	NA	NA	NA	NA
Fluoranthene (mg/kg)	240	NA	NA	NA	NA
Fluorene (mg/kg)	240	NA	NA	NA	NA
Indeno (1,2,3-cd) pyrene (mg/kg)	1.1	NA	NA	NA	NA
1-Methylnaphthalene (mg/kg)	18	NA	NA	NA	NA
2-Methylnaphthalene (mg/kg)	24	NA	NA	NA	NA
Naphthalene (mg/kg)	2	NA	NA	NA	NA
Pyrene (mg/kg)	180	NA	NA	NA	NA

**Metals in Soils (Residential Screening Levels)**

Arsenic (mg/kg)	0.68	<b>4.99</b>	NA	NA	NA
Barium (mg/kg)	15000	NA	NA	NA	NA
Cadmium (mg/kg)	71	NA	NA	NA	NA
Copper (mg/kg)	3100	NA	NA	NA	NA
Lead (mg/kg)	400	NA	NA	NA	NA
Nickel (mg/kg)	1500	NA	NA	NA	NA
Selenium (mg/kg)	390	NA	NA	NA	NA
Silver (mg/kg)	390	NA	NA	NA	NA

**TABLE 1 (Continued)**  
**SOIL SAMPLE ANALYTICAL AND FIELD RESULTS**  
**NEWBY 15-33HZ**  
**WELD COUNTY, COLORADO**  
**KERR-MCGEE OIL & GAS ONSHORE, LP**

Analyte	COGCC Table 915-1 Allowable Levels	BGComp01	B07@1.5'	B08@1.5'	B09@1.5'
		2/25/2021	4/1/2021	4/1/2021	4/1/2021
Zinc (mg/kg)	23000	NA	NA	NA	NA

**Notes:**

COGCC - Colorado Oil and Gas Conservation Commission  
mg/kg - milligrams per kilogram  
PID - Photoionization Detector  
ppm - parts per million  
TPH - total petroleum hydrocarbons  
GRO - gasoline range organics  
DRO - diesel range organics  
RRO - residual range organics

EC - electrical conductivity  
SAR - sodium adsorption ratio  
mmhos/cm - millimhos per centimeter  
<0.00200 - less than laboratory reporting limit  
NA - Not Applicable / Not Analyzed  
Bold indicates exceeds allowable level  
\*Allowable level for TPH is 500 mg/kg for combined GRO,  
DRO, and RRO



March 16, 2021

WSP USA

Brian Sulzberger

4600 W. 60th Ave.

Arvada

CO

80003

**Project Name - KMG - Newby 15-33 Hz**

**Project Number - 105720048**

Attached are your analytical results for KMG - Newby 15-33 Hz received by Origins Laboratory, Inc. February 25, 2021. This project is associated with Origins project number Y102485-01.

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

WSP USA

4600 W. 60th Ave.

Arvada CO 80003

Brian Sulzberger

Project Number: 105720048

Project: KMG - Newby 15-33 Hz

## CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
B01@.5'	Y102485-01	Soil	February 25, 2021 15:33	02/25/2021 19:15
B02@.5'	Y102485-02	Soil	February 25, 2021 15:55	02/25/2021 19:15
B03@.5'	Y102485-03	Soil	February 25, 2021 16:20	02/25/2021 19:15
B04@.5'	Y102485-04	Soil	February 25, 2021 16:46	02/25/2021 19:15
B05@.5'	Y102485-05	Soil	February 25, 2021 17:10	02/25/2021 19:15
B06@.5'	Y102485-06	Soil	February 25, 2021 17:31	02/25/2021 19:15
BG01	Y102485-07	Soil	February 25, 2021 17:50	02/25/2021 19:15
BG02	Y102485-08	Soil	February 25, 2021 17:55	02/25/2021 19:15
BG03	Y102485-09	Soil	February 25, 2021 18:00	02/25/2021 19:15
BG04	Y102485-10	Soil	February 25, 2021 18:06	02/25/2021 19:15
BGComp01	Y102485-11	Soil	February 25, 2021 18:12	02/25/2021 19:15

Origins Laboratory, Inc.



Jen Pellegrini For Noelle Doyle Mathis, President

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*



WSP USA

4600 W. 60th Ave.

Arvada

CO

80003

Brian Sulzberger

Project Number: 105720048

Project: KMG - Newby 15-33 Hz

www.originslaboratory.com

**ORIGINS**  
LABORATORY, INC

4102485

page 01

Client: WSP USA  
Address: 4600 W 60th Ave  
Telephone Number: 303 889 9443  
Email Address: Kerr McGee

Project Manager: Brian Sulzberger  
Project Name: Newby 15-33 Hz  
Project Number: 044220048  
Samples Collected By: Kyle Mathis

changed per email from Kyle on 2/18/12

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

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis		Sample Instructions	
				Unpreserved	HCl	HNO <sub>3</sub>	Other	Groundwater	Soil	Air Summa #	Other	PH EC		915 Methyl
B010.5'	2/25/21	1533	85											Residential standards
B020.5'		1555	85											2
B030.5'		1620	85											3
B040.5'		1646	85											4
B050.5'		1710	85											5
B060.5'		1731	85											6
B601		1750	3										✓	7
B602		1753	1										✓	8
B603		1800	1											9
B604		1808	1											10
Relinquished By: <u>Kyle Mathis</u>	Date: <u>2/25/21</u>	Time: <u>1915</u>	Received By: <u>[Signature]</u>	Date: <u>2/25/21</u>	Time: <u>1915</u>	Turnaround Time: <input checked="" type="checkbox"/> Same Day <input type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input type="checkbox"/> 72 Hr <input type="checkbox"/> Standard								

Date Results Needed

4/2

Temp Received-

Origins Laboratory, Inc.

*Jefe Pellegrini*

Jen Pellegrini For Noelle Doyle Mathis, President

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WSP USA

4600 W. 60th Ave.

Arvada

CO

80003

Brian Sulzberger

Project Number: 105720048

Project: KMG - Newby 15-33 Hz

Origins Laboratory

## Sample Receipt Checklist

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

Origins Work Order: 48 4102485

Client: WSP USA

Client Project ID: KMG - Newby 15-33 Hz

Checklist Completed by: Dan

Shipped Via: HD

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

Date/time completed: 2-25-21

Airbill #: NA

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

Cooler Number/Temperature: 1 4.2 °C 1 °C 1 °C 1 °C (Describe)

Thermometer ID: 5003

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? If yes, contact client and note in narrative.			<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)

Date/Time Reviewed

Origins Laboratory, Inc.

*Jen Pellegrini*

Jen Pellegrini For Noelle Doyle Mathis, President

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

WSP USA  
4600 W. 60th Ave.  
Arvada CO 80003

Brian Sulzberger  
Project Number: 105720048  
Project: KMG - Newby 15-33 Hz

B01@.5'

2/25/2021 3:33:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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AAL, Inc.

Y102485-01 (Soil)

## Boron (Sorbitol)

Boron	1.0		mg/L	1	[none]	03/11/2021	03/15/2021	
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## DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B1B2520	02/25/2021	02/25/2021	Ua
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	Ua

Surrogate: o-Terphenyl	70.8 %	50-150			"	"	"	
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## GBTEX+TMBs

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B1B2511	02/25/2021	02/26/2021	Ua
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	Ua
Benzene	ND	0.00200	"	"	"	"	"	Ua
Ethylbenzene	ND	0.00200	"	"	"	"	"	Ua
m,p-Xylene	ND	0.00400	"	"	"	"	"	Ua
o-Xylene	ND	0.00200	"	"	"	"	"	Ua
Toluene	ND	0.00200	"	"	"	"	"	Ua
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	Ua

Origins Laboratory, Inc.



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Jen Pellegrini For Noelle Doyle Mathis, President

WSP USA  
4600 W. 60th Ave.  
Arvada CO 80003

Brian Sulzberger  
Project Number: 105720048  
Project: KMG - Newby 15-33 Hz

B01@.5'

2/25/2021 3:33:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y102485-01 (Soil)**

**GBTEX+TMBs**

Surrogate: 1,2-Dichloroethane-d4	97.8 %	70-130	B1B25 11	02/25/2021	02/26/2021
Surrogate: Toluene-d8	99.3 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	89.4 %	70-130	"	"	"

**Hexavalent Chromium by EPA 7196A**

Hexavalent Chromium	ND	0.150	0.374	mg/kg dry	1	2098106	03/03/2021	03/04/2021	U
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**Metals (Saturated Paste Prep)**

Calcium	8.03	me/L	1	[none]	03/11/2021	03/15/2021
Magnesium	3.60	"	"	"	"	"
Sodium	24.41	"	"	"	"	"

**PAH by EPA 8270D SIM**

1-Methylnaphthalene	ND	0.00120	0.00364	mg/kg dry	1	2097932	03/02/2021	03/02/2021	U
2-Methylnaphthalene	ND	0.00120	0.00364	"	"	"	"	"	U
Acenaphthene	ND	0.00120	0.00364	"	"	"	"	"	U
Anthracene	ND	0.00120	0.00364	"	"	"	"	"	U
Benzo(a)anthracene	ND	0.00120	0.00364	"	"	"	"	"	U
Benzo(a)pyrene	ND	0.00120	0.00364	"	"	"	"	"	U
Benzo(b)fluoranthene	ND	0.00120	0.00364	"	"	"	"	"	U

Origins Laboratory, Inc.



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Jen Pellegrini For Noelle Doyle Mathis, President

WSP USA  
4600 W. 60th Ave.  
Arvada CO 80003

Brian Sulzberger  
Project Number: 105720048  
Project: KMG - Newby 15-33 Hz

B01@.5'

2/25/2021 3:33:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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## GEL Laboratories, LLC

### Y102485-01 (Soil)

### PAH by EPA 8270D SIM

Benzo(k)fluoranthene	ND	0.00120	0.00364	mg/kg dry	1	2097932	03/02/2021	03/02/2021	U
Chrysene	ND	0.00120	0.00364	"	"	"	"	"	U
Dibenzo(a,h)anthracene	ND	0.00120	0.00364	"	"	"	"	"	U
Fluoranthene	ND	0.00120	0.00364	"	"	"	"	"	U
Fluorene	ND	0.00120	0.00364	"	"	"	"	"	U
Indeno(1,2,3-cd)pyrene	ND	0.00120	0.00364	"	"	"	"	"	U
Naphthalene	ND	0.00120	0.00364	"	"	"	"	"	U
Pyrene	ND	0.00120	0.00364	"	"	"	"	"	U

Surrogate: 5-alpha-Androstane 79 % 25-121 " " "

### pH in Soil by EPA 9045D

pH 7.29 pH Units 1 B1B2611 02/26/2021 02/26/2021

### SAR by 20B Saturated Paste

SAR 10.12 1 [none] 03/11/2021 03/15/2021

### Specific Conductance by Modified 9050A

Specific Conductance (EC) 3.90 0.00500 mmhos/cm 1 B1B2612 02/26/2021 02/26/2021

Origins Laboratory, Inc.



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Jen Pellegrini For Noelle Doyle Mathis, President

WSP USA

4600 W. 60th Ave.

Arvada CO 80003

Brian Sulzberger

Project Number: 105720048

Project: KMG - Newby 15-33 Hz

B01@.5'

2/25/2021 3:33:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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GEL Laboratories, LLC

Y102485-01 (Soil)

## Total Metals by EPA 6010C

Silver	ND	0.106	0.528	mg/kg dry	1	2097670	03/02/2021	03/02/2021	U
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## Total Metals by EPA 6020A

Arsenic	2.72	0.337	0.996	mg/kg dry	2	2097666	"	03/03/2021	
Barium	107	0.0996	0.797	"	"	"	"	"	
Cadmium	0.171	0.0199	0.199	"	"	"	"	"	J
Copper	6.82	0.0657	0.398	"	"	"	"	"	
Lead	4.97	0.0996	0.398	"	"	"	"	"	
Nickel	7.30	0.0996	0.398	"	"	"	"	"	
Selenium	0.578	0.359	0.996	"	"	"	"	03/04/2021	J
Zinc	21.0	0.797	3.98	"	"	"	"	03/03/2021	

Origins Laboratory, Inc.



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Jen Pellegrini For Noelle Doyle Mathis, President



WSP USA  
4600 W. 60th Ave.  
Arvada CO 80003

Brian Sulzberger  
Project Number: 105720048  
Project: KMG - Newby 15-33 Hz

**B02@.5'**

**2/25/2021 3:55:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**AAL, Inc.**

**Y102485-02 (Soil)**

## Boron (Sorbitol)

Boron	0.6		mg/L	1	[none]	03/11/2021	03/15/2021	
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## DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B1B2520	02/25/2021	02/25/2021	Ua
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	Ua

Surrogate: o-Terphenyl	65.3 %	50-150			"	"	"	
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## GBTEX+TMBs

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B1B2511	02/25/2021	02/26/2021	Ua
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	Ua
Benzene	ND	0.00200	"	"	"	"	"	Ua
Ethylbenzene	ND	0.00200	"	"	"	"	"	Ua
m,p-Xylene	ND	0.00400	"	"	"	"	"	Ua
o-Xylene	ND	0.00200	"	"	"	"	"	Ua
Toluene	ND	0.00200	"	"	"	"	"	Ua
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	Ua

Origins Laboratory, Inc.



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Jen Pellegrini For Noelle Doyle Mathis, President

WSP USA  
4600 W. 60th Ave.  
Arvada CO 80003

Brian Sulzberger  
Project Number: 105720048  
Project: KMG - Newby 15-33 Hz

B02@.5'

2/25/2021 3:55:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y102485-02 (Soil)**

**GBTEX+TMBs**

Surrogate: 1,2-Dichloroethane-d4	97.7 %	70-130	B1B25 11	02/25/2021	02/26/2021
Surrogate: Toluene-d8	100 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	90.7 %	70-130	"	"	"

**Hexavalent Chromium by EPA 7196A**

Hexavalent Chromium	0.206	0.176	0.440	mg/kg dry	1	2098106	03/03/2021	03/04/2021	J
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**Metals (Saturated Paste Prep)**

Calcium	23.56		me/L	1	[none]	03/11/2021	03/15/2021
Magnesium	11.21		"	"	"	"	"
Sodium	13.75		"	"	"	"	"

**PAH by EPA 8270D SIM**

1-Methylnaphthalene	ND	0.00129	0.00390	mg/kg dry	1	2097932	03/02/2021	03/02/2021	U
2-Methylnaphthalene	ND	0.00129	0.00390	"	"	"	"	"	U
Acenaphthene	ND	0.00129	0.00390	"	"	"	"	"	U
Anthracene	ND	0.00129	0.00390	"	"	"	"	"	U
Benzo(a)anthracene	ND	0.00129	0.00390	"	"	"	"	"	U
Benzo(a)pyrene	ND	0.00129	0.00390	"	"	"	"	"	U
Benzo(b)fluoranthene	ND	0.00129	0.00390	"	"	"	"	"	U

Origins Laboratory, Inc.



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Jen Pellegrini For Noelle Doyle Mathis, President



WSP USA  
4600 W. 60th Ave.  
Arvada CO 80003

Brian Sulzberger  
Project Number: 105720048  
Project: KMG - Newby 15-33 Hz

B02@.5'

2/25/2021 3:55:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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## GEL Laboratories, LLC

### Y102485-02 (Soil)

### PAH by EPA 8270D SIM

Benzo(k)fluoranthene	ND	0.00129	0.00390	mg/kg dry	1	2097932	03/02/2021	03/02/2021	U
Chrysene	ND	0.00129	0.00390	"	"	"	"	"	U
Dibenzo(a,h)anthracene	ND	0.00129	0.00390	"	"	"	"	"	U
Fluoranthene	ND	0.00129	0.00390	"	"	"	"	"	U
Fluorene	ND	0.00129	0.00390	"	"	"	"	"	U
Indeno(1,2,3-cd)pyrene	ND	0.00129	0.00390	"	"	"	"	"	U
Naphthalene	ND	0.00129	0.00390	"	"	"	"	"	U
Pyrene	ND	0.00129	0.00390	"	"	"	"	"	U

Surrogate: 5-alpha-Androstane 85 % 25-121 " " "

### pH in Soil by EPA 9045D

pH 7.15 pH Units 1 B1B2611 02/26/2021 02/26/2021

### SAR by 20B Saturated Paste

SAR 3.30 1 [none] 03/11/2021 03/15/2021

### Specific Conductance by Modified 9050A

Specific Conductance (EC) 2.14 0.00500 mmhos/cm 1 B1B2612 02/26/2021 02/26/2021

Origins Laboratory, Inc.



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Jen Pellegrini For Noelle Doyle Mathis, President

WSP USA

4600 W. 60th Ave.

Arvada CO 80003

Brian Sulzberger

Project Number: 105720048

Project: KMG - Newby 15-33 Hz

B02@.5'

2/25/2021 3:55:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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## GEL Laboratories, LLC

Y102485-02 (Soil)

### Total Metals by EPA 6010C

Silver	ND	0.117	0.587	mg/kg dry	1	2097670	03/02/2021	03/02/2021	U
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### Total Metals by EPA 6020A

Arsenic	5.34	0.392	1.16	mg/kg dry	2	2097666	"	03/03/2021	
Barium	212	0.116	0.927	"	"	"	"	"	
Cadmium	0.145	0.0232	0.232	"	"	"	"	"	J
Copper	10.4	0.0765	0.464	"	"	"	"	"	
Lead	10.2	0.116	0.464	"	"	"	"	"	
Nickel	13.3	0.116	0.464	"	"	"	"	"	
Selenium	0.975	0.417	1.16	"	"	"	"	"	J
Zinc	37.7	0.927	4.64	"	"	"	"	"	

Origins Laboratory, Inc.



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WSP USA  
4600 W. 60th Ave.  
Arvada CO 80003

Brian Sulzberger  
Project Number: 105720048  
Project: KMG - Newby 15-33 Hz

**B03@.5'**

**2/25/2021 4:20:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**AAL, Inc.**

**Y102485-03 (Soil)**

## Boron (Sorbitol)

Boron	1.0		mg/L	1	[none]	03/11/2021	03/15/2021	
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## DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B1B2520	02/25/2021	02/25/2021	Ua
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	Ua

Surrogate: o-Terphenyl	86.0 %	50-150			"	"	"	
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## GBTEX+TMBs

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B1B2511	02/25/2021	02/26/2021	Ua
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	Ua
Benzene	0.00700	0.00200	"	"	"	"	"	
Ethylbenzene	ND	0.00200	"	"	"	"	"	Ua
m,p-Xylene	ND	0.00400	"	"	"	"	"	Ua
o-Xylene	ND	0.00200	"	"	"	"	"	Ua
Toluene	0.00784	0.00200	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	Ua

Origins Laboratory, Inc.



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Jen Pellegrini For Noelle Doyle Mathis, President

WSP USA  
4600 W. 60th Ave.  
Arvada CO 80003

Brian Sulzberger  
Project Number: 105720048  
Project: KMG - Newby 15-33 Hz

B03@.5'

2/25/2021 4:20:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y102485-03 (Soil)**

**GBTEX+TMBs**

Surrogate: 1,2-Dichloroethane-d4	98.7 %	70-130	B1B25 11	02/25/2021	02/26/2021
Surrogate: Toluene-d8	99.1 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	90.1 %	70-130	"	"	"

**Hexavalent Chromium by EPA 7196A**

Hexavalent Chromium	ND	0.160	0.401	mg/kg dry	1	2098106	03/03/2021	03/04/2021	U
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**Metals (Saturated Paste Prep)**

Calcium	28.72	me/L	1	[none]	03/11/2021	03/15/2021
Magnesium	14.09	"	"	"	"	"
Sodium	29.51	"	"	"	"	"

**PAH by EPA 8270D SIM**

1-Methylnaphthalene	ND	0.00130	0.00394	mg/kg dry	1	2097932	03/02/2021	03/02/2021	U
2-Methylnaphthalene	ND	0.00130	0.00394	"	"	"	"	"	U
Acenaphthene	ND	0.00130	0.00394	"	"	"	"	"	U
Anthracene	ND	0.00130	0.00394	"	"	"	"	"	U
Benzo(a)anthracene	ND	0.00130	0.00394	"	"	"	"	"	U
Benzo(a)pyrene	ND	0.00130	0.00394	"	"	"	"	"	U
Benzo(b)fluoranthene	ND	0.00130	0.00394	"	"	"	"	"	U

Origins Laboratory, Inc.



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Jen Pellegrini For Noelle Doyle Mathis, President

WSP USA  
4600 W. 60th Ave.  
Arvada CO 80003

Brian Sulzberger  
Project Number: 105720048  
Project: KMG - Newby 15-33 Hz

**B03@.5'**

**2/25/2021 4:20:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**GEL Laboratories, LLC**  
**Y102485-03 (Soil)**

**PAH by EPA 8270D SIM**

Benzo(k)fluoranthene	ND	0.00130	0.00394	mg/kg dry	1	2097932	03/02/2021	03/02/2021	U
Chrysene	ND	0.00130	0.00394	"	"	"	"	"	U
Dibenzo(a,h)anthracene	ND	0.00130	0.00394	"	"	"	"	"	U
Fluoranthene	ND	0.00130	0.00394	"	"	"	"	"	U
Fluorene	ND	0.00130	0.00394	"	"	"	"	"	U
Indeno(1,2,3-cd)pyrene	ND	0.00130	0.00394	"	"	"	"	"	U
Naphthalene	ND	0.00130	0.00394	"	"	"	"	"	U
Pyrene	ND	0.00130	0.00394	"	"	"	"	"	U

Surrogate: 5-alpha-Androstane 92 % 25-121 " " "

**pH in Soil by EPA 9045D**

pH 7.07 pH Units 1 B1B2611 02/26/2021 02/26/2021

**SAR by 20B Saturated Paste**

SAR 6.38 1 [none] 03/11/2021 03/15/2021

**Specific Conductance by Modified 9050A**

Specific Conductance (EC) 5.32 0.00500 mmhos/cm 1 B1B2612 02/26/2021 02/26/2021

Origins Laboratory, Inc.



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Jen Pellegrini For Noelle Doyle Mathis, President

WSP USA

4600 W. 60th Ave.

Arvada CO 80003

Brian Sulzberger

Project Number: 105720048

Project: KMG - Newby 15-33 Hz

B03@.5'

2/25/2021 4:20:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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## GEL Laboratories, LLC

Y102485-03 (Soil)

### Total Metals by EPA 6010C

Silver	ND	0.107	0.535	mg/kg dry	1	2097670	03/02/2021	03/02/2021	U
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### Total Metals by EPA 6020A

Arsenic	6.07	0.383	1.13	mg/kg dry	2	2097666	"	03/03/2021	
Barium	197	0.113	0.907	"	"	"	"	"	
Cadmium	0.129	0.0227	0.227	"	"	"	"	"	J
Copper	10.9	0.0748	0.453	"	"	"	"	"	
Lead	11.2	0.113	0.453	"	"	"	"	"	
Nickel	14.2	0.113	0.453	"	"	"	"	"	
Selenium	1.03	0.408	1.13	"	"	"	"	"	J
Zinc	41.2	0.907	4.53	"	"	"	"	"	

Origins Laboratory, Inc.



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Jen Pellegrini For Noelle Doyle Mathis, President

WSP USA  
4600 W. 60th Ave.  
Arvada CO 80003

Brian Sulzberger  
Project Number: 105720048  
Project: KMG - Newby 15-33 Hz

B04@.5'

2/25/2021 4:46:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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AAL, Inc.

Y102485-04 (Soil)

## Boron (Sorbitol)

Boron	0.5		mg/L	1	[none]	03/11/2021	03/15/2021	
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## DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B1B2520	02/25/2021	02/25/2021	Ua
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	Ua

Surrogate: o-Terphenyl	69.5 %	50-150			"	"	"	
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## GBTEX+TMBs

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B1B2511	02/25/2021	02/26/2021	Ua
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	Ua
Benzene	0.0267	0.00200	"	"	"	"	"	
Ethylbenzene	ND	0.00200	"	"	"	"	"	Ua
m,p-Xylene	ND	0.00400	"	"	"	"	"	Ua
o-Xylene	ND	0.00200	"	"	"	"	"	Ua
Toluene	0.0212	0.00200	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	Ua

Origins Laboratory, Inc.



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Jen Pellegrini For Noelle Doyle Mathis, President

WSP USA  
4600 W. 60th Ave.  
Arvada CO 80003

Brian Sulzberger  
Project Number: 105720048  
Project: KMG - Newby 15-33 Hz

B04@.5'

2/25/2021 4:46:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y102485-04 (Soil)**

**GBTEX+TMBs**

Surrogate: 1,2-Dichloroethane-d4	96.9 %		70-130			B1B25 11	02/25/2021	02/26/2021	
Surrogate: Toluene-d8	99.9 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	91.1 %		70-130			"	"	"	

**Hexavalent Chromium by EPA 7196A**

Hexavalent Chromium	0.203	0.173	0.433	mg/kg dry	1	2098106	03/03/2021	03/04/2021	J
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**Metals (Saturated Paste Prep)**

Calcium	23.28			me/L	1	[none]	03/11/2021	03/15/2021	
Magnesium	12.19			"	"	"	"	"	
Sodium	6.83			"	"	"	"	"	

**PAH by EPA 8270D SIM**

1-Methylnaphthalene	ND	0.00126	0.00382	mg/kg dry	1	2097932	03/02/2021	03/02/2021	U
2-Methylnaphthalene	ND	0.00126	0.00382	"	"	"	"	"	U
Acenaphthene	ND	0.00126	0.00382	"	"	"	"	"	U
Anthracene	ND	0.00126	0.00382	"	"	"	"	"	U
Benzo(a)anthracene	ND	0.00126	0.00382	"	"	"	"	"	U
Benzo(a)pyrene	ND	0.00126	0.00382	"	"	"	"	"	U
Benzo(b)fluoranthene	ND	0.00126	0.00382	"	"	"	"	"	U

Origins Laboratory, Inc.



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Jen Pellegrini For Noelle Doyle Mathis, President



WSP USA  
4600 W. 60th Ave.  
Arvada CO 80003

Brian Sulzberger  
Project Number: 105720048  
Project: KMG - Newby 15-33 Hz

B04@.5'

2/25/2021 4:46:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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## GEL Laboratories, LLC

### Y102485-04 (Soil)

### PAH by EPA 8270D SIM

Benzo(k)fluoranthene	ND	0.00126	0.00382	mg/kg dry	1	2097932	03/02/2021	03/02/2021	U
Chrysene	ND	0.00126	0.00382	"	"	"	"	"	U
Dibenzo(a,h)anthracene	ND	0.00126	0.00382	"	"	"	"	"	U
Fluoranthene	ND	0.00126	0.00382	"	"	"	"	"	U
Fluorene	ND	0.00126	0.00382	"	"	"	"	"	U
Indeno(1,2,3-cd)pyrene	ND	0.00126	0.00382	"	"	"	"	"	U
Naphthalene	ND	0.00126	0.00382	"	"	"	"	"	U
Pyrene	ND	0.00126	0.00382	"	"	"	"	"	U

Surrogate: 5-alpha-Androstane 74 % 25-121 " " "

### pH in Soil by EPA 9045D

pH 7.17 pH Units 1 B1B2611 02/26/2021 02/26/2021

### SAR by 20B Saturated Paste

SAR 1.62 1 [none] 03/11/2021 03/15/2021

### Specific Conductance by Modified 9050A

Specific Conductance (EC) 3.01 0.00500 mmhos/cm 1 B1B2612 02/26/2021 02/26/2021

Origins Laboratory, Inc.



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Jen Pellegrini For Noelle Doyle Mathis, President

WSP USA

4600 W. 60th Ave.

Arvada CO 80003

Brian Sulzberger

Project Number: 105720048

Project: KMG - Newby 15-33 Hz

B04@.5'

2/25/2021 4:46:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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## GEL Laboratories, LLC

Y102485-04 (Soil)

### Total Metals by EPA 6010C

Silver	ND	0.113	0.565	mg/kg dry	1	2097670	03/02/2021	03/02/2021	U
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### Total Metals by EPA 6020A

Arsenic	5.95	0.394	1.17	mg/kg dry	2	2097666	"	03/03/2021	
Barium	306	0.583	4.67	"	10	"	"	03/04/2021	
Cadmium	0.154	0.0233	0.233	"	2	"	"	03/03/2021	J
Copper	11.5	0.0770	0.467	"	"	"	"	"	
Lead	11.0	0.117	0.467	"	"	"	"	"	
Nickel	14.5	0.117	0.467	"	"	"	"	"	
Selenium	1.03	0.420	1.17	"	"	"	"	03/04/2021	J
Zinc	42.0	0.934	4.67	"	"	"	"	03/03/2021	

Origins Laboratory, Inc.



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WSP USA

4600 W. 60th Ave.

Arvada CO 80003

Brian Sulzberger

Project Number: 105720048

Project: KMG - Newby 15-33 Hz

B05@.5'

2/25/2021 5:10:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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AAL, Inc.

Y102485-05 (Soil)

## Boron (Sorbitol)

Boron	1.0		mg/L	1	[none]	03/11/2021	03/15/2021	
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## DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B1B2520	02/25/2021	02/25/2021	Ua
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	Ua

Surrogate: o-Terphenyl	85.4 %	50-150			"	"	"	
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## GBTEX+TMBs

1,2,4-Trimethylbenzene	0.00302	0.00200	mg/kg	1	B1B2511	02/25/2021	02/26/2021	
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	Ua
Benzene	0.0905	0.00200	"	"	"	"	"	
Ethylbenzene	0.00492	0.00200	"	"	"	"	"	
m,p-Xylene	0.0351	0.00400	"	"	"	"	"	
o-Xylene	0.0128	0.00200	"	"	"	"	"	
Toluene	0.0971	0.00200	"	"	"	"	"	
Gasoline Range Hydrocarbons	0.303	0.200	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	98.3 %	70-130			"	"	"	
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Origins Laboratory, Inc.



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Jen Pellegrini For Noelle Doyle Mathis, President

WSP USA  
4600 W. 60th Ave.  
Arvada CO 80003

Brian Sulzberger  
Project Number: 105720048  
Project: KMG - Newby 15-33 Hz

B05@.5'

2/25/2021 5:10:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y102485-05 (Soil)**

**GBTEX+TMBs**

Surrogate: Toluene-d8	100 %		70-130			B1B25 11	02/25/2021	02/26/2021	
Surrogate: 4-Bromofluorobenzene	91.0 %		70-130			"	"	"	

**Hexavalent Chromium by EPA 7196A**

Hexavalent Chromium	0.213	0.182	0.455	mg/kg dry	1	2098106	03/03/2021	03/04/2021	J
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**Metals (Saturated Paste Prep)**

Calcium	21.84			me/L	1	[none]	03/11/2021	03/15/2021	
Magnesium	11.43			"	"	"	"	"	
Sodium	14.58			"	"	"	"	"	

**PAH by EPA 8270D SIM**

1-Methylnaphthalene	ND	0.00127	0.00385	mg/kg dry	1	2097932	03/02/2021	03/02/2021	U
2-Methylnaphthalene	ND	0.00127	0.00385	"	"	"	"	"	U
Acenaphthene	ND	0.00127	0.00385	"	"	"	"	"	U
Anthracene	ND	0.00127	0.00385	"	"	"	"	"	U
Benzo(a)anthracene	ND	0.00127	0.00385	"	"	"	"	"	U
Benzo(a)pyrene	ND	0.00127	0.00385	"	"	"	"	"	U
Benzo(b)fluoranthene	ND	0.00127	0.00385	"	"	"	"	"	U
Benzo(k)fluoranthene	ND	0.00127	0.00385	"	"	"	"	"	U

Origins Laboratory, Inc.



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Jen Pellegrini For Noelle Doyle Mathis, President

WSP USA

4600 W. 60th Ave.

Arvada CO 80003

Brian Sulzberger

Project Number: 105720048

Project: KMG - Newby 15-33 Hz

B05@.5'

2/25/2021 5:10:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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## GEL Laboratories, LLC

Y102485-05 (Soil)

### PAH by EPA 8270D SIM

Chrysene	ND	0.00127	0.00385	mg/kg dry	1	2097932	03/02/2021	03/02/2021	U
Dibenzo(a,h)anthracene	ND	0.00127	0.00385	"	"	"	"	"	U
Fluoranthene	ND	0.00127	0.00385	"	"	"	"	"	U
Fluorene	ND	0.00127	0.00385	"	"	"	"	"	U
Indeno(1,2,3-cd)pyrene	ND	0.00127	0.00385	"	"	"	"	"	U
Naphthalene	ND	0.00127	0.00385	"	"	"	"	"	U
Pyrene	ND	0.00127	0.00385	"	"	"	"	"	U

Surrogate: 5-alpha-Androstane 93 % 25-121 " " "

### pH in Soil by EPA 9045D

pH 7.20 pH Units 1 B1B2611 02/26/2021 02/26/2021

### SAR by 20B Saturated Paste

SAR 3.57 1 [none] 03/11/2021 03/15/2021

### Specific Conductance by Modified 9050A

Specific Conductance (EC) 4.78 0.00500 mmhos/cm 1 B1B2612 02/26/2021 02/26/2021

Origins Laboratory, Inc.



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Jen Pellegrini For Noelle Doyle Mathis, President

WSP USA

4600 W. 60th Ave.

Arvada CO 80003

Brian Sulzberger

Project Number: 105720048

Project: KMG - Newby 15-33 Hz

B05@.5'

2/25/2021 5:10:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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## GEL Laboratories, LLC

Y102485-05 (Soil)

### Total Metals by EPA 6010C

Silver	ND	0.114	0.570	mg/kg dry	1	2097670	03/02/2021	03/02/2021	U
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### Total Metals by EPA 6020A

Arsenic	5.78	0.377	1.12	mg/kg dry	2	2097666	"	03/03/2021	
Barium	263	0.558	4.46	"	10	"	"	03/04/2021	
Cadmium	0.172	0.0223	0.223	"	2	"	"	03/03/2021	J
Copper	11.4	0.0737	0.446	"	"	"	"	"	
Lead	11.2	0.112	0.446	"	"	"	"	"	
Nickel	14.1	0.112	0.446	"	"	"	"	"	
Selenium	0.930	0.402	1.12	"	"	"	"	"	J
Zinc	41.1	0.893	4.46	"	"	"	"	"	

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WSP USA  
4600 W. 60th Ave.  
Arvada CO 80003

Brian Sulzberger  
Project Number: 105720048  
Project: KMG - Newby 15-33 Hz

B06@.5'

2/25/2021 5:31:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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AAL, Inc.

Y102485-06 (Soil)

## Boron (Sorbitol)

Boron	0.7		mg/L	1	[none]	03/11/2021	03/15/2021	
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## DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B1B2520	02/25/2021	02/25/2021	Ua
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	Ua

Surrogate: o-Terphenyl	69.4 %	50-150			"	"	"	
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## GBTEX+TMBs

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B1B2511	02/25/2021	02/26/2021	Ua
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	Ua
Benzene	0.00946	0.00200	"	"	"	"	"	
Ethylbenzene	ND	0.00200	"	"	"	"	"	Ua
m,p-Xylene	ND	0.00400	"	"	"	"	"	Ua
o-Xylene	ND	0.00200	"	"	"	"	"	Ua
Toluene	0.00804	0.00200	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	Ua

Origins Laboratory, Inc.



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Jen Pellegrini For Noelle Doyle Mathis, President

WSP USA  
4600 W. 60th Ave.  
Arvada CO 80003

Brian Sulzberger  
Project Number: 105720048  
Project: KMG - Newby 15-33 Hz

B06@.5'

2/25/2021 5:31:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y102485-06 (Soil)**

**GBTEX+TMBs**

Surrogate: 1,2-Dichloroethane-d4	99.8 %	70-130	B1B25 11	02/25/2021	02/26/2021
Surrogate: Toluene-d8	99.8 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	90.3 %	70-130	"	"	"

**Hexavalent Chromium by EPA 7196A**

Hexavalent Chromium	ND	0.166	0.415	mg/kg dry	1	2098106	03/03/2021	03/04/2021	U
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**Metals (Saturated Paste Prep)**

Calcium	13.33	me/L	1	[none]	03/11/2021	03/15/2021
Magnesium	7.29	"	"	"	"	"
Sodium	6.90	"	"	"	"	"

**PAH by EPA 8270D SIM**

1-Methylnaphthalene	ND	0.00130	0.00394	mg/kg dry	1	2097932	03/02/2021	03/02/2021	U
2-Methylnaphthalene	ND	0.00130	0.00394	"	"	"	"	"	U
Acenaphthene	ND	0.00130	0.00394	"	"	"	"	"	U
Anthracene	ND	0.00130	0.00394	"	"	"	"	"	U
Benzo(a)anthracene	ND	0.00130	0.00394	"	"	"	"	"	U
Benzo(a)pyrene	ND	0.00130	0.00394	"	"	"	"	"	U
Benzo(b)fluoranthene	ND	0.00130	0.00394	"	"	"	"	"	U

Origins Laboratory, Inc.



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Jen Pellegrini For Noelle Doyle Mathis, President



WSP USA  
4600 W. 60th Ave.  
Arvada CO 80003

Brian Sulzberger  
Project Number: 105720048  
Project: KMG - Newby 15-33 Hz

B06@.5'

2/25/2021 5:31:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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## GEL Laboratories, LLC

### Y102485-06 (Soil)

### PAH by EPA 8270D SIM

Benzo(k)fluoranthene	ND	0.00130	0.00394	mg/kg dry	1	2097932	03/02/2021	03/02/2021	U
Chrysene	ND	0.00130	0.00394	"	"	"	"	"	U
Dibenzo(a,h)anthracene	ND	0.00130	0.00394	"	"	"	"	"	U
Fluoranthene	ND	0.00130	0.00394	"	"	"	"	"	U
Fluorene	ND	0.00130	0.00394	"	"	"	"	"	U
Indeno(1,2,3-cd)pyrene	0.00197	0.00130	0.00394	"	"	"	"	"	J
Naphthalene	ND	0.00130	0.00394	"	"	"	"	"	U
Pyrene	ND	0.00130	0.00394	"	"	"	"	"	U

Surrogate: 5-alpha-Androstane 85 % 25-121 " " "

### pH in Soil by EPA 9045D

pH 7.30 pH Units 1 B1B2611 02/26/2021 02/26/2021

### SAR by 20B Saturated Paste

SAR 2.15 1 [none] 03/11/2021 03/15/2021

### Specific Conductance by Modified 9050A

Specific Conductance (EC) 2.42 0.00500 mmhos/cm 1 B1B2612 02/26/2021 02/26/2021

Origins Laboratory, Inc.



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Jen Pellegrini For Noelle Doyle Mathis, President

WSP USA

4600 W. 60th Ave.

Arvada CO 80003

Brian Sulzberger

Project Number: 105720048

Project: KMG - Newby 15-33 Hz

B06@.5'

2/25/2021 5:31:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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## GEL Laboratories, LLC

Y102485-06 (Soil)

### Total Metals by EPA 6010C

Silver	ND	0.110	0.550	mg/kg dry	1	2097670	03/02/2021	03/02/2021	U
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### Total Metals by EPA 6020A

Arsenic	5.47	0.394	1.17	mg/kg dry	2	2097666	"	03/03/2021	
Barium	175	0.117	0.932	"	"	"	"	"	
Cadmium	0.192	0.0233	0.233	"	"	"	"	"	J
Copper	10.7	0.0769	0.466	"	"	"	"	"	
Lead	10.7	0.117	0.466	"	"	"	"	"	
Nickel	13.1	0.117	0.466	"	"	"	"	"	
Selenium	0.903	0.420	1.17	"	"	"	"	"	J
Zinc	39.4	0.932	4.66	"	"	"	"	"	

Origins Laboratory, Inc.



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Jen Pellegrini For Noelle Doyle Mathis, President

WSP USA

4600 W. 60th Ave.

Arvada CO 80003

Brian Sulzberger

Project Number: 105720048

Project: KMG - Newby 15-33 Hz

BG01

2/25/2021 5:50:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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AAL, Inc.

Y102485-07 (Soil)

## Boron (Sorbitol)

Boron	1.4		mg/L	1	[none]	03/11/2021	03/15/2021
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## Hexavalent Chromium by EPA 7196A

Hexavalent Chromium	ND	0.180	0.451	mg/kg dry	1	2098106	03/03/2021	03/04/2021	U
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## Metals (Saturated Paste Prep)

Calcium	11.02		me/L	1	[none]	03/11/2021	03/15/2021
Magnesium	5.83		"	"	"	"	"
Sodium	3.27		"	"	"	"	"

## pH in Soil by EPA 9045D

pH	7.29		pH Units	1	B1B2611	02/26/2021	02/26/2021
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## SAR by 20B Saturated Paste

SAR	1.13			1	[none]	03/11/2021	03/15/2021
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## Specific Conductance by Modified 9050A

Specific Conductance (EC)	1.14	0.00500	mmhos/cm	1	B1B2612	02/26/2021	02/26/2021
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Origins Laboratory, Inc.



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WSP USA

4600 W. 60th Ave.

Arvada CO 80003

Brian Sulzberger

Project Number: 105720048

Project: KMG - Newby 15-33 Hz

BG01

2/25/2021 5:50:00PM

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

Y102485-07 (Soil)

## Total Metals by EPA 6010C

Silver	ND	0.108	0.540	mg/kg dry	1	2097670	03/02/2021	03/02/2021	U
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## Total Metals by EPA 6020A

Arsenic	5.94	0.371	1.10	mg/kg dry	2	2097666	"	03/03/2021	
Barium	165	0.110	0.878	"	"	"	"	"	
Cadmium	0.234	0.0220	0.220	"	"	"	"	"	
Copper	14.7	0.0725	0.439	"	"	"	"	"	
Lead	15.8	0.110	0.439	"	"	"	"	"	
Nickel	15.3	0.110	0.439	"	"	"	"	"	
Selenium	0.990	0.395	1.10	"	"	"	"	"	J
Zinc	53.9	0.878	4.39	"	"	"	"	"	

Origins Laboratory, Inc.



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Jen Pellegrini For Noelle Doyle Mathis, President

WSP USA

4600 W. 60th Ave.

Arvada CO 80003

Brian Sulzberger

Project Number: 105720048

Project: KMG - Newby 15-33 Hz

BG02

2/25/2021 5:55:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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GEL Laboratories, LLC

Y102485-08 (Soil)

## Total Metals by EPA 6020A

Arsenic	5.52	0.368	1.09	mg/kg dry	2	2097666	03/02/2021	03/03/2021	
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Origins Laboratory, Inc.



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Jen Pellegrini For Noelle Doyle Mathis, President

WSP USA

4600 W. 60th Ave.

Arvada CO 80003

Brian Sulzberger

Project Number: 105720048

Project: KMG - Newby 15-33 Hz

BG03

2/25/2021 6:00:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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GEL Laboratories, LLC

Y102485-09 (Soil)

## Total Metals by EPA 6020A

Arsenic	6.63	0.415	1.23	mg/kg dry	2	2097666	03/02/2021	03/03/2021	
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Origins Laboratory, Inc.



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Jen Pellegrini For Noelle Doyle Mathis, President

WSP USA

4600 W. 60th Ave.

Arvada CO 80003

Brian Sulzberger

Project Number: 105720048

Project: KMG - Newby 15-33 Hz

BG04

2/25/2021 6:06:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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GEL Laboratories, LLC

Y102485-10 (Soil)

## Total Metals by EPA 6020A

Arsenic	5.11	0.411	1.22	mg/kg dry	2	2097666	03/02/2021	03/03/2021
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Origins Laboratory, Inc.



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Jen Pellegrini For Noelle Doyle Mathis, President

WSP USA

4600 W. 60th Ave.

Arvada CO 80003

Brian Sulzberger

Project Number: 105720048

Project: KMG - Newby 15-33 Hz

BGComp01

2/25/2021 6:12:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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GEL Laboratories, LLC

Y102485-11 (Soil)

## Total Metals by EPA 6020A

Arsenic	4.99	0.369	1.09	mg/kg dry	2	2097666	03/02/2021	03/03/2021
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WSP USA

4600 W. 60th Ave.

Arvada CO 80003

Brian Sulzberger

Project Number: 105720048

Project: KMG - Newby 15-33 Hz

**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 B1B2511 - EPA 5030 (soil)**

**Blank (B1B2511-BLK1)**

Prepared: 02/25/2021 Analyzed: 02/25/2021

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							Ua
Naphthalene	ND	0.0100	"							Ua
1,3,5-Trimethylbenzene	ND	0.00200	"							Ua
Benzene	ND	0.00200	"							Ua
Ethylbenzene	ND	0.00200	"							Ua
m,p-Xylene	ND	0.00400	"							Ua
o-Xylene	ND	0.00200	"							Ua
Toluene	ND	0.00200	"							Ua
Gasoline Range Hydrocarbons	ND	0.200	"							Ua
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		103	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		102	70-130			
Surrogate: 4-Bromofluorobenzene	0.11		"	0.125		91.2	70-130			

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Jen Pellegrini For Noelle Doyle Mathis, President

WSP USA

4600 W. 60th Ave.

Arvada CO 80003

Brian Sulzberger

Project Number: 105720048

Project: KMG - Newby 15-33 Hz

**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 B1B2511 - EPA 5030 (soil)**

**LCS (B1B2511-BS1)**

Prepared: 02/25/2021 Analyzed: 02/25/2021

1,2,4-Trimethylbenzene	0.0509	0.00200	mg/kg	0.0500		102	70-130			
Naphthalene	0.0485	0.0100	"	0.0500		96.9	70-130			
1,3,5-Trimethylbenzene	0.0511	0.00200	"	0.0500		102	70-130			
Benzene	0.0493	0.00200	"	0.0500		98.7	70-130			
Ethylbenzene	0.0507	0.00200	"	0.0500		101	70-130			
m,p-Xylene	0.103	0.00400	"	0.100		103	70-130			
o-Xylene	0.0491	0.00200	"	0.0500		98.2	70-130			
Toluene	0.0508	0.00200	"	0.0500		102	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		106	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		101	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		94.5	70-130			

Origins Laboratory, Inc.



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WSP USA  
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Arvada CO 80003

Brian Sulzberger  
Project Number: 105720048  
Project: KMG - Newby 15-33 Hz

**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
<b>Batch B1B2511 - EPA 5030 (soil)</b>										
<b>Matrix Spike (B1B2511-MS1)</b>		<b>Source: Y102444-01</b>			Prepared: 02/25/2021 Analyzed: 02/25/2021					
1,2,4-Trimethylbenzene	0.0358	0.00200	mg/kg	0.0500	ND	71.5	70-130			
Naphthalene	0.0359	0.0100	"	0.0500	ND	71.7	70-130			
1,3,5-Trimethylbenzene	0.0352	0.00200	"	0.0500	ND	70.4	70-130			
Benzene	0.0442	0.00200	"	0.0500	ND	88.4	70-130			
Ethylbenzene	0.0397	0.00200	"	0.0500	ND	79.5	70-130			
m,p-Xylene	0.0801	0.00400	"	0.100	ND	80.1	70-130			
o-Xylene	0.0389	0.00200	"	0.0500	ND	77.9	70-130			
Toluene	0.0436	0.00200	"	0.0500	ND	87.1	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		107	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.5	70-130			
Surrogate: 4-Bromofluorobenzene	0.11		"	0.125		91.6	70-130			

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Arvada CO 80003

Brian Sulzberger  
Project Number: 105720048  
Project: KMG - Newby 15-33 Hz

**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
<b>Batch B1B2511 - EPA 5030 (soil)</b>										
<b>Matrix Spike Dup (B1B2511-MSD1)</b>		<b>Source: Y102444-01</b>			Prepared: 02/25/2021 Analyzed: 02/25/2021					
1,2,4-Trimethylbenzene	0.0303	0.00200	mg/kg	0.0500	ND	60.6	70-130	16.6	20	QM-07
Naphthalene	0.0348	0.0100	"	0.0500	ND	69.6	70-130	2.94	20	QM-07
1,3,5-Trimethylbenzene	0.0306	0.00200	"	0.0500	ND	61.2	70-130	14.0	20	QM-07
Benzene	0.0349	0.00200	"	0.0500	ND	69.8	70-130	23.6	20	QM-07, QR-03
Ethylbenzene	0.0325	0.00200	"	0.0500	ND	65.0	70-130	20.0	20	QM-07
m,p-Xylene	0.0659	0.00400	"	0.100	ND	65.9	70-130	19.4	20	QM-07
o-Xylene	0.0323	0.00200	"	0.0500	ND	64.6	70-130	18.7	20	QM-07
Toluene	0.0352	0.00200	"	0.0500	ND	70.4	70-130	21.2	20	QR-03
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		104	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		99.4	70-130			
Surrogate: 4-Bromofluorobenzene	0.11		"	0.125		91.0	70-130			

Origins Laboratory, Inc.



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Arvada CO 80003

Brian Sulzberger

Project Number: 105720048

Project: KMG - Newby 15-33 Hz

**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 B1B2520 - EPA 3550B**

**Blank (B1B2520-BLK1)**

Prepared: 02/25/2021 Analyzed: 02/25/2021

Diesel (C10-C28)	ND	25.0	mg/kg							Ua
Residual Range Organics (C28-C40)	ND	100	"							Ua
Surrogate: o-Terphenyl	21		"	25.0		84.4	50-150			

Origins Laboratory, Inc.



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Arvada CO 80003

Brian Sulzberger

Project Number: 105720048

Project: KMG - Newby 15-33 Hz

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 B1B2520 - EPA 3550B

LCS (B1B2520-BS1)

Prepared: 02/25/2021 Analyzed: 02/25/2021

Diesel (C10-C28)	950	50.0	mg/kg	1000		95.0	70-130			
Residual Range Organics (C28-C40)	944	200	"	1000		94.4	70-130			
Surrogate: o-Terphenyl	41		"	50.0		81.2	50-150			

Origins Laboratory, Inc.



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Arvada CO 80003

Brian Sulzberger

Project Number: 105720048

Project: KMG - Newby 15-33 Hz

## 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 B1B2520 - EPA 3550B

Matrix Spike (B1B2520-MS1)		Source: Y102484-01			Prepared: 02/25/2021 Analyzed: 02/25/2021					
Diesel (C10-C28)	1150	50.0	mg/kg	1000	ND	115	70-130			
Residual Range Organics (C28-C40)	1140	200	"	1000	ND	114	70-130			
Surrogate: o-Terphenyl	49		"	50.0		98.7	50-150			

Origins Laboratory, Inc.



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Arvada CO 80003

Brian Sulzberger  
Project Number: 105720048  
Project: KMG - Newby 15-33 Hz

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 B1B2520 - EPA 3550B

Matrix Spike Dup (B1B2520-MSD1)		Source: Y102484-01			Prepared: 02/25/2021 Analyzed: 02/25/2021					
Diesel (C10-C28)	927	50.0	mg/kg	1000	ND	92.7	70-130	21.8	35	
Residual Range Organics (C28-C40)	910	200	"	1000	ND	91.0	70-130	22.9	35	
Surrogate: o-Terphenyl	38		"	50.0		75.8	50-150			

Origins Laboratory, Inc.



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WSP USA

4600 W. 60th Ave.

Arvada CO 80003

Brian Sulzberger

Project Number: 105720048

Project: KMG - Newby 15-33 Hz

## 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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## 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 B1B2611 - NO PREP

#### Duplicate (B1B2611-DUP1)

Source: Y102448-01

Prepared: 02/26/2021 Analyzed: 02/26/2021

pH	7.34		pH Units	7.66		4.27	25
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#### Batch B1B2612 - NO PREP

#### Blank (B1B2612-BLK1)

Prepared: 02/26/2021 Analyzed: 02/26/2021

Specific Conductance (EC)	0.00330	0.00500	mmhos/cm
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#### Duplicate (B1B2612-DUP1)

Source: Y102448-01

Prepared: 02/26/2021 Analyzed: 02/26/2021

Specific Conductance (EC)	0.265	0.00500	mmhos/cm	0.230		14.2	25
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Origins Laboratory, Inc.



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WSP USA  
4600 W. 60th Ave.  
Arvada CO 80003

Brian Sulzberger  
Project Number: 105720048  
Project: KMG - Newby 15-33 Hz

## Hexavalent Chromium by EPA 7196A - Quality Control GEL Laboratories, LLC

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2098106 - SW846 3060A										
BLANK (1204763893-BLK)					Prepared: 03/03/2021 Analyzed: 03/04/2021					
Hexavalent Chromium	ND	0.389	mg/kg				-			U
LCS (1204763894-BKS)					Prepared: 03/03/2021 Analyzed: 03/04/2021					
Hexavalent Chromium	3.96	0.387	mg/kg	3.87		102	80-120			
ILCS (1204763895-ILCS)					Prepared: 03/03/2021 Analyzed: 03/04/2021					
Hexavalent Chromium	8.53	0.372	mg/kg	7.44		115	80-120			
DUP (1204763896 D)					Source: Y102485-01 Prepared: 03/03/2021 Analyzed: 03/04/2021					
Hexavalent Chromium	0.175	0.374	mg/kg dry		<0.150		0-50	70.6	50	J
MS (1204763897 S)					Source: Y102485-01 Prepared: 03/03/2021 Analyzed: 03/04/2021					
Hexavalent Chromium	4.55	0.415	mg/kg dry	4.15	<0.166	108	75-125			
DUP (1204764898 D)					Source: Y102485-02 Prepared: 03/03/2021 Analyzed: 03/04/2021					
Hexavalent Chromium	0.206	0.440	mg/kg dry		0.206		0-50	0.00934	50	J
MS (1204764899 S)					Source: Y102485-02 Prepared: 03/03/2021 Analyzed: 03/04/2021					
Hexavalent Chromium	4.59	0.427	mg/kg dry	4.27	0.206	102	75-125			

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WSP USA  
4600 W. 60th Ave.  
Arvada CO 80003

Brian Sulzberger  
Project Number: 105720048  
Project: KMG - Newby 15-33 Hz

PAH by EPA 8270D SIM - Quality Control  
GEL Laboratories, LLC

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2097932 - SW846 3541

BLANK (1204763509-BLK)

Prepared: 03/02/2021 Analyzed: 03/02/2021

Chrysene	ND	0.00332	mg/kg				-			U
2-Methylnaphthalene	ND	0.00332	"				-			U
Acenaphthene	ND	0.00332	"				-			U
Anthracene	ND	0.00332	"				-			U
Benzo(a)anthracene	ND	0.00332	"				-			U
Benzo(a)pyrene	ND	0.00332	"				-			U
Benzo(b)fluoranthene	ND	0.00332	"				-			U
Benzo(k)fluoranthene	ND	0.00332	"				-			U
1-Methylnaphthalene	ND	0.00332	"				-			U
Fluoranthene	ND	0.00332	"				-			U
Fluorene	ND	0.00332	"				-			U
Indeno(1,2,3-cd)pyrene	ND	0.00332	"				-			U
Naphthalene	ND	0.00332	"				-			U
Pyrene	ND	0.00332	"				-			U
Dibenzo(a,h)anthracene	ND	0.00332	"				-			U

Surrogate: 5-alpha-Androstane

0.137

"

0.166

82

25-121

LCS (1204763510-BKS)

Prepared: 03/02/2021 Analyzed: 03/02/2021

Fluoranthene	0.273	0.00330	mg/kg	0.330		83	43-116
Pyrene	0.299	0.00330	"	0.330		91	42-114
Naphthalene	0.254	0.00330	"	0.330		77	52-106
Fluorene	0.272	0.00330	"	0.330		82	42-113
Dibenzo(a,h)anthracene	0.313	0.00330	"	0.330		95	40-137
Chrysene	0.288	0.00330	"	0.330		87	53-108
Benzo(k)fluoranthene	0.264	0.00330	"	0.330		80	39-119
Benzo(b)fluoranthene	0.272	0.00330	"	0.330		82	42-119
Benzo(a)pyrene	0.293	0.00330	"	0.330		89	42-123

Origins Laboratory, Inc.



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WSP USA  
4600 W. 60th Ave.  
Arvada CO 80003

Brian Sulzberger  
Project Number: 105720048  
Project: KMG - Newby 15-33 Hz

PAH by EPA 8270D SIM - Quality Control  
GEL Laboratories, LLC

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2097932 - SW846 3541

LCS (1204763510-BKS)

Prepared: 03/02/2021 Analyzed: 03/02/2021

2-Methylnaphthalene	0.254	0.00330	mg/kg	0.330		77	50-109			
Benzo(a)anthracene	0.251	0.00330	"	0.330		76	51-118			
Anthracene	0.275	0.00330	"	0.330		83	49-113			
Acenaphthene	0.262	0.00330	"	0.330		79	48-107			
1-Methylnaphthalene	0.251	0.00330	"	0.330		76	50-109			
Indeno(1,2,3-cd)pyrene	0.309	0.00330	"	0.330		94	40-132			
Surrogate: 5-alpha-Androstane	0.149		"	0.165		90	25-121			

LCSD (1204763511-BKSD)

Prepared: 03/02/2021 Analyzed: 03/02/2021

2-Methylnaphthalene	0.268	0.00331	mg/kg	0.331		81	50-109	5	30	
1-Methylnaphthalene	0.264	0.00331	"	0.331		80	50-109	5	30	
Fluoranthene	0.289	0.00331	"	0.331		87	43-116	6	30	
Benzo(a)anthracene	0.267	0.00331	"	0.331		81	51-118	6	30	
Dibenzo(a,h)anthracene	0.332	0.00331	"	0.331		100	40-137	6	30	
Chrysene	0.312	0.00331	"	0.331		94	53-108	8	30	
Benzo(k)fluoranthene	0.286	0.00331	"	0.331		86	39-119	8	30	
Benzo(b)fluoranthene	0.288	0.00331	"	0.331		87	42-119	6	30	
Fluorene	0.286	0.00331	"	0.331		86	42-113	5	30	
Naphthalene	0.270	0.00331	"	0.331		82	52-106	6	30	
Benzo(a)pyrene	0.314	0.00331	"	0.331		95	42-123	7	30	
Anthracene	0.291	0.00331	"	0.331		88	49-113	6	30	
Pyrene	0.303	0.00331	"	0.331		92	42-114	1	30	
Acenaphthene	0.276	0.00331	"	0.331		83	48-107	5	30	
Indeno(1,2,3-cd)pyrene	0.329	0.00331	"	0.331		99	40-132	6	30	
Surrogate: 5-alpha-Androstane	0.161		"	0.166		97	25-121			

MS (1204763512 S)

Source: Y102485-01

Prepared: 03/02/2021 Analyzed: 03/02/2021

Origins Laboratory, Inc.



Jen Pellegrini For Noelle Doyle Mathis, President

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4600 W. 60th Ave.  
Arvada CO 80003

Brian Sulzberger  
Project Number: 105720048  
Project: KMG - Newby 15-33 Hz

**PAH by EPA 8270D SIM - Quality Control**  
**GEL Laboratories, LLC**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 2097932 - SW846 3541**

<b>MS (1204763512 S)</b>		<b>Source: Y102485-01</b>			<b>Prepared: 03/02/2021 Analyzed: 03/02/2021</b>					
Fluoranthene	0.275	0.00363	mg/kg dry	0.363	<0.00120	76	21-122			
Dibenzo(a,h)anthracene	0.296	0.00363	"	0.363	<0.00120	81	16-139			
Chrysene	0.291	0.00363	"	0.363	<0.00120	80	31-119			
Indeno(1,2,3-cd)pyrene	0.292	0.00363	"	0.363	<0.00120	80	14-132			
Fluorene	0.269	0.00363	"	0.363	<0.00120	74	26-123			
Naphthalene	0.258	0.00363	"	0.363	<0.00120	71	29-122			
Pyrene	0.276	0.00363	"	0.363	<0.00120	76	19-139			
Benzo(k)fluoranthene	0.269	0.00363	"	0.363	<0.00120	74	26-130			
2-Methylnaphthalene	0.257	0.00363	"	0.363	<0.00120	71	23-124			
Acenaphthene	0.257	0.00363	"	0.363	<0.00120	71	29-118			
Anthracene	0.277	0.00363	"	0.363	<0.00120	76	29-127			
Benzo(a)anthracene	0.251	0.00363	"	0.363	<0.00120	69	31-124			
Benzo(a)pyrene	0.294	0.00363	"	0.363	<0.00120	81	24-129			
Benzo(b)fluoranthene	0.277	0.00363	"	0.363	<0.00120	76	22-130			
1-Methylnaphthalene	0.253	0.00363	"	0.363	<0.00120	70	30-129			
Surrogate: 5-alpha-Androstane	0.144		"	0.182	0.144	79	25-121			

<b>MSD (1204763513 SD)</b>		<b>Source: Y102485-01</b>			<b>Prepared: 03/02/2021 Analyzed: 03/02/2021</b>					
Benzo(a)anthracene	0.279	0.00363	mg/kg dry	0.363	<0.00120	77	31-124	11	30	
Chrysene	0.323	0.00363	"	0.363	<0.00120	89	31-119	11	30	
Pyrene	0.295	0.00363	"	0.363	<0.00120	81	19-139	7	30	
Naphthalene	0.273	0.00363	"	0.363	<0.00120	75	29-122	6	30	
Indeno(1,2,3-cd)pyrene	0.320	0.00363	"	0.363	<0.00120	88	14-132	9	30	
Fluorene	0.294	0.00363	"	0.363	<0.00120	81	26-123	9	30	
Acenaphthene	0.282	0.00363	"	0.363	<0.00120	78	29-118	9	30	
Dibenzo(a,h)anthracene	0.328	0.00363	"	0.363	<0.00120	90	16-139	10	30	
Benzo(k)fluoranthene	0.299	0.00363	"	0.363	<0.00120	82	26-130	11	30	

Origins Laboratory, Inc.



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Jen Pellegrini For Noelle Doyle Mathis, President

WSP USA  
4600 W. 60th Ave.  
Arvada CO 80003

Brian Sulzberger  
Project Number: 105720048  
Project: KMG - Newby 15-33 Hz

PAH by EPA 8270D SIM - Quality Control  
GEL Laboratories, LLC

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2097932 - SW846 3541

MSD (1204763513 SD)		Source: Y102485-01			Prepared: 03/02/2021 Analyzed: 03/02/2021					
Benzo(b)fluoranthene	0.303	0.00363	mg/kg dry	0.363	<0.00120	84	22-130	9	30	
Benzo(a)pyrene	0.331	0.00363	"	0.363	<0.00120	91	24-129	12	30	
Anthracene	0.305	0.00363	"	0.363	<0.00120	84	29-127	10	30	
2-Methylnaphthalene	0.272	0.00363	"	0.363	<0.00120	75	23-124	5	30	
1-Methylnaphthalene	0.266	0.00363	"	0.363	<0.00120	73	30-129	5	30	
Fluoranthene	0.306	0.00363	"	0.363	<0.00120	84	21-122	11	30	
Surrogate: 5-alpha-Androstane	0.157		"	0.182	0.144	86	25-121			

Origins Laboratory, Inc.



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Jen Pellegrini For Noelle Doyle Mathis, President

WSP USA  
4600 W. 60th Ave.  
Arvada CO 80003

Brian Sulzberger  
Project Number: 105720048  
Project: KMG - Newby 15-33 Hz

## Total Metals by EPA 6010C - Quality Control GEL Laboratories, LLC

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch 2097670 - SW846 3050B</b>										
<b>BLANK (1204763044-BLK)</b>					Prepared: 03/02/2021 Analyzed: 03/02/2021					
Silver	ND	0.463	mg/kg				-			U
<b>LCS (1204763045-BKS)</b>					Prepared: 03/02/2021 Analyzed: 03/02/2021					
Silver	9.84	0.475	mg/kg	9.51		104	80-120			
<b>DUP (1204763046 D)</b>					Prepared: 03/02/2021 Analyzed: 03/02/2021					
		<b>Source: Y102485-01</b>								
Silver	ND	0.515	mg/kg dry		<0.103		0-20	44.5	20	U
<b>MS (1204763047 S)</b>					Prepared: 03/02/2021 Analyzed: 03/02/2021					
		<b>Source: Y102485-01</b>								
Silver	10.2	0.508	mg/kg dry	10.2	<0.102	100	75-125			

Origins Laboratory, Inc.



Jen Pellegrini For Noelle Doyle Mathis, President

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WSP USA  
4600 W. 60th Ave.  
Arvada CO 80003

Brian Sulzberger  
Project Number: 105720048  
Project: KMG - Newby 15-33 Hz

## Total Metals by EPA 6020A - Quality Control GEL Laboratories, LLC

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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### Batch 2097666 - SW846 3050B

#### BLANK (1204763038-BLK)

Prepared: 03/02/2021 Analyzed: 03/03/2021

Cadmium	ND	0.198	mg/kg				-			U
Copper	0.0820	0.396	"				-			J
Lead	ND	0.396	"				-			U
Nickel	ND	0.396	"				-			U
Selenium	ND	0.990	"				-			U
Zinc	ND	3.96	"				-			U
Arsenic	ND	0.990	"				-			U
Barium	ND	0.792	"				-			U

#### LCS (1204763039-BKS)

Prepared: 03/02/2021 Analyzed: 03/03/2021

Lead	4.81	0.372	mg/kg	4.66		103	80-120
Zinc	4.16	3.72	"	4.66		89.5	80-120
Nickel	5.06	0.372	"	4.66		109	80-120
Copper	4.97	0.372	"	4.66		107	80-120
Cadmium	4.06	0.186	"	4.66		87.1	80-120
Barium	4.74	0.745	"	4.66		102	80-120
Arsenic	4.01	0.931	"	4.66		86.2	80-120
Selenium	3.86	0.931	"	4.66		82.9	80-120

#### DUP (1204763040 D)

Source: Y102485-01

Prepared: 03/02/2021 Analyzed: 03/03/2021

Arsenic	1.95	1.01	mg/kg dry	2.72		0-20	33.2	20	
Barium	54.6	0.809	"	107		0-20	65.2	20	
Cadmium	0.0558	0.202	"	0.171		0-20	102	20	J
Copper	5.62	0.404	"	6.82		0-20	19.3	20	
Lead	4.87	0.404	"	4.97		0-20	1.98	20	
Nickel	6.18	0.404	"	7.30		0-20	16.7	20	
Selenium	0.579	1.01	"	0.578		0-20	0.246	20	J

Origins Laboratory, Inc.



Jen Pellegrini For Noelle Doyle Mathis, President

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WSP USA  
4600 W. 60th Ave.  
Arvada CO 80003

Brian Sulzberger  
Project Number: 105720048  
Project: KMG - Newby 15-33 Hz

## Total Metals by EPA 6020A - Quality Control GEL Laboratories, LLC

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch 2097666 - SW846 3050B</b>										
<b>DUP (1204763040 D)</b>	<b>Source: Y102485-01</b>				Prepared: 03/02/2021 Analyzed: 03/03/2021					
Zinc	18.0	4.04	mg/kg dry		21.0		0-20	15.5	20	
<b>MS (1204763041 S)</b>	<b>Source: Y102485-01</b>				Prepared: 03/02/2021 Analyzed: 03/03/2021					
Arsenic	6.84	0.989	mg/kg dry	4.94	2.72	83.1	75-125			
Barium	73.4	0.791	"	4.94	107	0	75-125			
Cadmium	4.36	0.198	"	4.94	0.171	84.7	75-125			
Copper	10.8	0.396	"	4.94	6.82	81.3	75-125			
Lead	11.7	0.396	"	4.94	4.97	136	75-125			
Nickel	11.9	0.396	"	4.94	7.30	93.5	75-125			
Zinc	25.4	3.96	"	4.94	21.0	0	75-125			
Selenium	4.42	0.989	"	4.94	0.578	77.7	75-125			
<b>PS (1204765008 S)</b>	<b>Source: Y102485-01</b>				Prepared: 03/02/2021 Analyzed: 03/03/2021					
Lead	0.108	0.00440	mg/kg dry	0.0250		96.9	80-120			

Origins Laboratory, Inc.



Jen Pellegrini For Noelle Doyle Mathis, President

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WSP USA

4600 W. 60th Ave.

Arvada CO 80003

Brian Sulzberger

Project Number: 105720048

Project: KMG - Newby 15-33 Hz

### Notes and Definitions

Ua Sample is Non-Detect.

U Result not detected above the detection limit

QR-03 The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.

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 Greater than the detection limit but less than the reporting limit

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported on a wet weight basis.

Origins Laboratory, Inc.



*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*

Jen Pellegrini For Noelle Doyle Mathis, President



April 07, 2021

WSP USA

Brian Sulzberger

4600 W. 60th Ave.

Arvada

CO 80003

**Project Name - KMG - Newby 15-33 Hz**

**Project Number - 105720048**

Attached are your analytical results for KMG - Newby 15-33 Hz received by Origins Laboratory, Inc. April 02, 2021. This project is associated with Origins project number Y104027-01.

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

WSP USA

4600 W. 60th Ave.

Arvada CO 80003

Brian Sulzberger

Project Number: 105720048

Project: KMG - Newby 15-33 Hz

## CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
B07@1.5'	Y104027-01	Soil	April 1, 2021 12:10	04/02/2021 09:50
B08@1.5'	Y104027-02	Soil	April 1, 2021 12:25	04/02/2021 09:50
B09@1.5'	Y104027-03	Soil	April 1, 2021 12:32	04/02/2021 09:50

Origins Laboratory, Inc.



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WSP USA

4600 W. 60th Ave.

Arvada

CO

80003

Brian Sulzberger

Project Number: 105720048

Project: KMG - Newby 15-33 Hz

Origins Laboratory

## Sample Receipt Checklist

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

Origins Work Order:

Y104027

Client:

WSP

Client Project ID:

KMG-NEWBY

Checklist Completed by:

jm

Date/time completed:

4-2-21

Shipped Via:

HP

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

Airbill #:

N/A

Matrix(s) Received: (Check all that apply):

X

Soil/Solid

Water

Other:

(Describe)

Cooler Number/Temperature:

1 5.3 °C

/ °C

/ °C

/ °C

Thermometer ID:

T003

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> ?	X			
Is there ice present (document if blue ice is used)	X			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		X		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)		X		
Were all samples received intact <sup>(1)</sup> ?	X			
Was adequate sample volume provided <sup>(1)</sup> ?	X			
Are short holding time analytes or samples with HTs due within 48 hours present <sup>(1)</sup> ?		X		
Is a chain-of-custody (COC) present and filled out completely <sup>(1)</sup> ?	X			
Does the COC agree with the number and type of sample bottles received <sup>(1)</sup> ?	X			
Do the sample IDs on the bottle labels match the COC <sup>(1)</sup> ?	X			
Is the COC properly relinquished by the client with date and time recorded <sup>(1)</sup> ?	X			
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.			X	
Are samples preserved that require preservation and was it checked <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 Na <sub>2</sub> S <sub>2</sub> O <sub>2</sub> +NaOH, ZnAc+NaOH)			X	
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)

jm

Date/Time Reviewed

4-2-21

Origins Laboratory, Inc.

Jefe Pellegrini

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

WSP USA

4600 W. 60th Ave.

Arvada CO 80003

Brian Sulzberger

Project Number: 105720048

Project: KMG - Newby 15-33 Hz

B07@1.5'

4/1/2021 12:10:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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AAL, Inc.

Y104027-01 (Soil)

### Metals (Saturated Paste Prep)

Calcium	2.30	me/L	1	[none]	04/05/2021	04/07/2021
Magnesium	1.19	"	"	"	"	"
Sodium	1.53	"	"	"	"	"

### SAR by 20B Saturated Paste

SAR	1.16		1	[none]	"	04/07/2021
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Origins Laboratory, Inc.



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WSP USA

4600 W. 60th Ave.

Arvada CO 80003

Brian Sulzberger

Project Number: 105720048

Project: KMG - Newby 15-33 Hz

**B08@1.5'**

**4/1/2021 12:25:00PM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**AAL, Inc.**

**Y104027-02 (Soil)**

## Metals (Saturated Paste Prep)

Calcium	3.27		me/L	1	[none]		04/05/2021	04/07/2021	
Magnesium	1.92		"	"	"		"	"	
Sodium	1.89		"	"	"		"	"	

## SAR by 20B Saturated Paste

SAR	1.17			1	[none]		"	04/07/2021	
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## Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.663	0.00500	mmhos/cm	1	B1D0506	DJL	04/05/2021	04/05/2021	
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Origins Laboratory, Inc.



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WSP USA

4600 W. 60th Ave.

Arvada CO 80003

Brian Sulzberger

Project Number: 105720048

Project: KMG - Newby 15-33 Hz

B09@1.5'

4/1/2021 12:32:00PM

Analyte	Result	Reporting	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
		Limit							

Origins Laboratory, Inc.  
Y104027-03 (Soil)

## Specific Conductance by Modified 9050A

Specific Conductance (EC)	1.14	0.00500	mmhos/cm	1	B1D0506	DJL	04/05/2021	04/05/2021
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Origins Laboratory, Inc.



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WSP USA

4600 W. 60th Ave.

Arvada CO 80003

Brian Sulzberger

Project Number: 105720048

Project: KMG - Newby 15-33 Hz

## Saturated Paste - Quality Control

Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B1D0506 - NO PREP										
Blank (B1D0506-BLK1)					Prepared: 04/05/2021 Analyzed: 04/05/2021					
Specific Conductance (EC)	0.00340	0.00500	mmhos/cm							
Duplicate (B1D0506-DUP1)					Source: Y104020-01 Prepared: 04/05/2021 Analyzed: 04/05/2021					
Specific Conductance (EC)	0.690	0.00500	mmhos/cm		0.685			0.815	25	

Origins Laboratory, Inc.



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WSP USA

4600 W. 60th Ave.

Arvada CO 80003

Brian Sulzberger

Project Number: 105720048

Project: KMG - Newby 15-33 Hz

### Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported at a wet weight basis.

Origins Laboratory, Inc.



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