

TABLE 1
SOIL SAMPLE ANALYTICAL AND FIELD RESULTS
ALE W 29-21 WELLHEAD
WELD COUNTY, COLORADO
KERR-MCGEE OIL & GAS ONSHORE, LP

Analyte	Groundwater Protection Values (GPV)	B01@6'	N01@5'	Native-BG01@3'	Native-BG01@6'	Native-BG02@3'
		9/23/2021	9/23/2021	9/23/2021	9/23/2021	9/23/2021
Photoionization Detector Reading						
PID (ppm)	NA	0.5	27.3	0.0	0.0	0.0
Total Petroleum Hydrocarbons by USEPA Method 8015D						
TPH-GRO* (mg/kg)	500	<0.200	9.25	NA	NA	NA
TPH-DRO* (mg/kg)	500	<25.0	1670	NA	NA	NA
TPH-RRO* (mg/kg)	500	<100	1100	NA	NA	NA
Soil Suitability for Reclamation						
EC (mmhos/cm)	4	0.496	0.358	0.285	0.491	0.596
Sodium Adsorption Ratio (SAR)	6	0.978	0.146	1.73	1.49	2.13
pH, Lab (pH units)	6-8.3	7.65	7.62	7.04	7.56	6.69
Boron (mg/L)	2	<0.198	<0.200	<0.199	<0.199	<0.199
Organic Concentrations in Soil (GPV for Soil)						
Benzene (mg/kg)	0.0026	<0.00200	<0.00200	NA	NA	NA
Toluene (mg/kg)	0.69	<0.00200	<0.00200	NA	NA	NA
Ethylbenzene (mg/kg)	0.78	<0.00200	<0.00200	NA	NA	NA
Xylenes, Total (mg/kg)	9.9	<0.00200	<0.00200	NA	NA	NA
1,2,4-Trimethylbenzene (mg/kg)	0.0081	<0.00200	<0.00200	NA	NA	NA
1,3,5-Trimethylbenzene (mg/kg)	0.0087	<0.00200	<0.00200	NA	NA	NA
Acenaphthene (mg/Kg)	0.55	<0.00067	<0.00067	NA	NA	NA
Anthracene (mg/Kg)	5.8	<0.00067	<0.00067	NA	NA	NA
Benzo (a) anthracene (mg/Kg)	0.011	0.00281	0.00279	NA	NA	NA
Benzo (b) fluoranthene (mg/Kg)	0.3	0.00574	0.00611	NA	NA	NA
Benzo (k) fluoranthene (mg/Kg)	2.9	0.00157	0.00202	NA	NA	NA
Benzo (a) pyrene (mg/Kg)	0.24	0.00621	0.00693	NA	NA	NA
Chrysene (mg/Kg)	9	0.00542	0.00568	NA	NA	NA
Dibenz (a,h) anthracene (mg/Kg)	0.096	<0.00067	<0.00067	NA	NA	NA
Fluoranthene (mg/Kg)	8.9	0.00395	0.00376	NA	NA	NA
Fluorene (mg/Kg)	0.54	<0.00067	<0.00067	NA	NA	NA
Indeno (1,2,3-cd) pyrene (mg/Kg)	0.98	0.00282	0.00385	NA	NA	NA
1-Methylnaphthalene (mg/Kg)	0.006	<0.00067	<0.00067	NA	NA	NA
2-Methylnaphthalene (mg/Kg)	0.019	<0.00067	<0.00067	NA	NA	NA
Naphthalene (mg/Kg)	0.0038	<0.00067	<0.00067	NA	NA	NA
Pyrene (mg/Kg)	1.3	0.00598	0.00547	NA	NA	NA
Metals in Soils (GPV for Soil)						
Arsenic (mg/Kg)	0.29	1.69	2.17	1.74	1.11	1.4
Barium (mg/Kg)	82	50.4	62.4	66.1	55.3	55.8
Cadmium (mg/Kg)	0.38	0.247	0.387	0.0952	0.0811	0.0947
Chromium, Hexavalent (mg/Kg)	0.00067	<5.1	<5.13	<1.02	<1.04	<1
Copper (mg/Kg)	46	9.71	14.9	6.64	4.94	5.84
Lead (mg/Kg)	14	17.4	18	6.91	5.19	6.4
Nickel (mg/Kg)	26	4.78	5.57	6.77	5.09	5.83
Selenium (mg/Kg)	0.26	0.262	0.182	0.211	0.21	0.194
Silver (mg/Kg)	0.8	0.101	0.172	0.0533	0.0463	0.0399
Zinc (mg/Kg)	370	32	45.1	28.9	21.4	27.3

TABLE 1 (Continued)
SOIL SAMPLE ANALYTICAL AND FIELD RESULTS
ALE W 29-21 WELLHEAD
WELD COUNTY, COLORADO
KERR-MCGEE OIL & GAS ONSHORE, LP

Analyte	Groundwater Protection Values (GPV)	Native-BG02@6'	Native-BG03@3'	Native-BG03@6'	Native-BG04@3'	Native-BG04@6'
		9/23/2021	9/23/2021	9/23/2021	9/23/2021	9/23/2021
Photoionization Detector Reading						
PID (ppm)	NA	0.0	0.0	0.0	0.0	0.0
Total Petroleum Hydrocarbons by USEPA Method 8015D						
TPH-GRO* (mg/kg)	500	NA	NA	NA	NA	NA
TPH-DRO* (mg/kg)	500	NA	NA	NA	NA	NA
TPH-RRO* (mg/kg)	500	NA	NA	NA	NA	NA
Soil Suitability for Reclamation						
EC (mmhos/cm)	4	0.432	0.179	0.297	0.271	0.342
Sodium Adsorption Ratio (SAR)	6	2.71	1.91	1.78	2.04	1.90
pH, Lab (pH units)	6-8.3	7.19	6.47	7.11	7.07	7.17
Boron (mg/L)	2	<0.200	<0.199	<0.198	<0.199	<0.200
Organic Concentrations in Soil (GPV for Soil)						
Benzene (mg/kg)	0.0026	NA	NA	NA	NA	NA
Toluene (mg/kg)	0.69	NA	NA	NA	NA	NA
Ethylbenzene (mg/kg)	0.78	NA	NA	NA	NA	NA
Xylenes, Total (mg/kg)	9.9	NA	NA	NA	NA	NA
1,2,4-Trimethylbenzene (mg/kg)	0.0081	NA	NA	NA	NA	NA
1,3,5-Trimethylbenzene (mg/kg)	0.0087	NA	NA	NA	NA	NA
Acenaphthene (mg/Kg)	0.55	NA	NA	NA	NA	NA
Anthracene (mg/Kg)	5.8	NA	NA	NA	NA	NA
Benzo (a) anthracene (mg/Kg)	0.011	NA	NA	NA	NA	NA
Benzo (b) fluoranthene (mg/Kg)	0.3	NA	NA	NA	NA	NA
Benzo (k) fluoranthene (mg/Kg)	2.9	NA	NA	NA	NA	NA
Benzo (a) pyrene (mg/Kg)	0.24	NA	NA	NA	NA	NA
Chrysene (mg/Kg)	9	NA	NA	NA	NA	NA
Dibenz (a,h) anthracene (mg/Kg)	0.096	NA	NA	NA	NA	NA
Fluoranthene (mg/Kg)	8.9	NA	NA	NA	NA	NA
Fluorene (mg/Kg)	0.54	NA	NA	NA	NA	NA
Indeno (1,2,3-cd) pyrene (mg/Kg)	0.98	NA	NA	NA	NA	NA
1-Methylnaphthalene (mg/Kg)	0.006	NA	NA	NA	NA	NA
2-Methylnaphthalene (mg/Kg)	0.019	NA	NA	NA	NA	NA
Naphthalene (mg/Kg)	0.0038	NA	NA	NA	NA	NA
Pyrene (mg/Kg)	1.3	NA	NA	NA	NA	NA
Metals in Soils (GPV for Soil)						
Arsenic (mg/Kg)	0.29	0.706	1.06	1.16	1.31	1.21
Barium (mg/Kg)	82	35.1	43.7	46.5	57.2	47
Cadmium (mg/Kg)	0.38	0.0548	0.0422	0.13	0.0742	0.0962
Chromium, Hexavalent (mg/Kg)	0.00067	<0.52	<1	<1.03	<1.01	<1
Copper (mg/Kg)	46	3.23	3.49	5.97	5.15	5.31
Lead (mg/Kg)	14	3.42	4.51	8.09	5.72	5.79
Nickel (mg/Kg)	26	3.51	4.12	4.63	5.52	4.79
Selenium (mg/Kg)	0.26	0.138	0.14	0.173	0.208	0.229
Silver (mg/Kg)	0.8	0.0201	0.026	0.0574	0.038	0.038
Zinc (mg/Kg)	370	14.8	17.7	23.6	23	22.5

TABLE 1 (Continued)
SOIL SAMPLE ANALYTICAL AND FIELD RESULTS
ALE W 29-21 WELLHEAD
WELD COUNTY, COLORADO
KERR-MCGEE OIL & GAS ONSHORE, LP

Analyte	Groundwater Protection Values (GPV)	B02@7'	E01@5'	N02@5'	S01@5'	W01@5'
		1/27/2022	1/27/2022	1/27/2022	1/27/2022	1/27/2022
Photoionization Detector Reading						
PID (ppm)	NA	0.0	0.0	0.8	0.0	0.0
Total Petroleum Hydrocarbons by USEPA Method 8015D						
TPH-GRO* (mg/kg)	500	NA	<0.200	<0.200	<0.200	<0.200
TPH-DRO* (mg/kg)	500	NA	<25.0	<25.0	<25.0	<25.0
TPH-RRO* (mg/kg)	500	NA	<100	<100	<100	<100
Soil Suitability for Reclamation						
EC (mmhos/cm)	4	NA	0.218	NA	0.114	0.154
Sodium Adsorption Ratio (SAR)	6	NA	1.93	NA	2.56	0.304
pH, Lab (pH units)	6-8.3	NA	8.26	NA	7.89	8.21
Boron (mg/L)	2	NA	<0.199	NA	<0.202	<0.197
Organic Concentrations in Soil (GPV for Soil)						
Benzene (mg/kg)	0.0026	NA	<0.00200	NA	<0.00200	<0.00200
Toluene (mg/kg)	0.69	NA	<0.00200	NA	<0.00200	<0.00200
Ethylbenzene (mg/kg)	0.78	NA	<0.00200	NA	<0.00200	<0.00200
Xylenes, Total (mg/kg)	9.9	NA	<0.00200	NA	<0.00200	<0.00200
1,2,4-Trimethylbenzene (mg/kg)	0.0081	NA	<0.00200	NA	<0.00200	<0.00200
1,3,5-Trimethylbenzene (mg/kg)	0.0087	NA	<0.00200	NA	<0.00200	<0.00200
Acenaphthene (mg/Kg)	0.55	NA	<0.00067	NA	<0.00067	<0.00067
Anthracene (mg/Kg)	5.8	NA	<0.00067	NA	<0.00067	<0.00067
Benzo (a) anthracene (mg/Kg)	0.011	NA	<0.00067	NA	<0.00067	<0.00067
Benzo (b) fluoranthene (mg/Kg)	0.3	NA	<0.00067	NA	<0.00067	<0.00067
Benzo (k) fluoranthene (mg/Kg)	2.9	NA	<0.00067	NA	<0.00067	<0.00067
Benzo (a) pyrene (mg/Kg)	0.24	NA	<0.00067	NA	<0.00067	<0.00067
Chrysene (mg/Kg)	9	NA	<0.00067	NA	<0.00067	<0.00067
Dibenz (a,h) anthracene (mg/Kg)	0.096	NA	<0.00067	NA	<0.00067	<0.00067
Fluoranthene (mg/Kg)	8.9	NA	<0.00067	NA	<0.00067	<0.00067
Fluorene (mg/Kg)	0.54	NA	<0.00067	NA	<0.00067	<0.00067
Indeno (1,2,3-cd) pyrene (mg/Kg)	0.98	NA	<0.00067	NA	<0.00067	<0.00067
1-Methylnaphthalene (mg/Kg)	0.006	NA	<0.00067	NA	<0.00067	<0.00067
2-Methylnaphthalene (mg/Kg)	0.019	NA	<0.00067	NA	<0.00067	<0.00067
Naphthalene (mg/Kg)	0.0038	NA	<0.00067	NA	<0.00067	<0.00067
Pyrene (mg/Kg)	1.3	NA	<0.00067	NA	<0.00067	<0.00067
Metals in Soils (GPV for Soil)						
Arsenic (mg/Kg)	0.29	NA	0.942	NA	1.07	0.918
Barium (mg/Kg)	82	NA	40.2	NA	41.8	38.2
Cadmium (mg/Kg)	0.38	NA	0.0397	0.051	0.0403	0.0406
Chromium, Hexavalent (mg/Kg)	0.00067	NA	<0.503	NA	<0.51	<0.5
Copper (mg/Kg)	46	NA	3.31	NA	3.37	3.19
Lead (mg/Kg)	14	2.77	3.71	27.9	3.76	3.59
Nickel (mg/Kg)	26	NA	3.69	NA	3.78	3.31
Selenium (mg/Kg)	0.26	NA	0.297	NA	0.295	0.361
Silver (mg/Kg)	0.8	NA	0.0235	NA	0.0185	0.0143
Zinc (mg/Kg)	370	NA	13.8	NA	13.2	13.8

TABLE 1 (Continued)
SOIL SAMPLE ANALYTICAL AND FIELD RESULTS
ALE W 29-21 WELLHEAD
WELD COUNTY, COLORADO
KERR-MCGEE OIL & GAS ONSHORE, LP

Analyte	Groundwater Protection Values (GPV)	E02@5'	N03@5'	S02@5'	W02@5'	N04@5'
		2/15/2022	2/15/2022	2/15/2022	2/15/2022	3/2/2022
Photoionization Detector Reading						
PID (ppm)	NA	0.0	0.0	0.1	0.0	2.1
Total Petroleum Hydrocarbons by USEPA Method 8015D						
TPH-GRO* (mg/kg)	500	NA	NA	NA	NA	NA
TPH-DRO* (mg/kg)	500	NA	NA	NA	NA	NA
TPH-RRO* (mg/kg)	500	NA	NA	NA	NA	NA
Soil Suitability for Reclamation						
EC (mmhos/cm)	4	NA	NA	NA	NA	NA
Sodium Adsorption Ratio (SAR)	6	NA	NA	NA	NA	NA
pH, Lab (pH units)	6-8.3	NA	NA	NA	NA	NA
Boron (mg/L)	2	NA	NA	NA	NA	NA
Organic Concentrations in Soil (GPV for Soil)						
Benzene (mg/kg)	0.0026	NA	NA	NA	NA	NA
Toluene (mg/kg)	0.69	NA	NA	NA	NA	NA
Ethylbenzene (mg/kg)	0.78	NA	NA	NA	NA	NA
Xylenes, Total (mg/kg)	9.9	NA	NA	NA	NA	NA
1,2,4-Trimethylbenzene (mg/kg)	0.0081	NA	NA	NA	NA	NA
1,3,5-Trimethylbenzene (mg/kg)	0.0087	NA	NA	NA	NA	NA
Acenaphthene (mg/Kg)	0.55	NA	NA	NA	NA	NA
Anthracene (mg/Kg)	5.8	NA	NA	NA	NA	NA
Benzo (a) anthracene (mg/Kg)	0.011	NA	NA	NA	NA	NA
Benzo (b) fluoranthene (mg/Kg)	0.3	NA	NA	NA	NA	NA
Benzo (k) fluoranthene (mg/Kg)	2.9	NA	NA	NA	NA	NA
Benzo (a) pyrene (mg/Kg)	0.24	NA	NA	NA	NA	NA
Chrysene (mg/Kg)	9	NA	NA	NA	NA	NA
Dibenz (a,h) anthracene (mg/Kg)	0.096	NA	NA	NA	NA	NA
Fluoranthene (mg/Kg)	8.9	NA	NA	NA	NA	NA
Fluorene (mg/Kg)	0.54	NA	NA	NA	NA	NA
Indeno (1,2,3-cd) pyrene (mg/Kg)	0.98	NA	NA	NA	NA	NA
1-Methylnaphthalene (mg/Kg)	0.006	NA	NA	NA	NA	NA
2-Methylnaphthalene (mg/Kg)	0.019	NA	NA	NA	NA	NA
Naphthalene (mg/Kg)	0.0038	NA	NA	NA	NA	NA
Pyrene (mg/Kg)	1.3	NA	NA	NA	NA	NA
Metals in Soils (GPV for Soil)						
Arsenic (mg/Kg)	0.29	NA	NA	NA	NA	NA
Barium (mg/Kg)	82	NA	NA	NA	NA	NA
Cadmium (mg/Kg)	0.38	NA	NA	NA	NA	NA
Chromium, Hexavalent (mg/Kg)	0.00067	NA	NA	NA	NA	NA
Copper (mg/Kg)	46	NA	NA	NA	NA	NA
Lead (mg/Kg)	14	NA	113	NA	NA	4.73
Nickel (mg/Kg)	26	NA	NA	NA	NA	NA
Selenium (mg/Kg)	0.26	0.16	NA	0.162	0.145	NA
Silver (mg/Kg)	0.8	NA	NA	NA	NA	NA
Zinc (mg/Kg)	370	NA	NA	NA	NA	NA

TABLE 1 (Continued)
SOIL SAMPLE ANALYTICAL AND FIELD RESULTS
ALE W 29-21 WELLHEAD
WELD COUNTY, COLORADO
KERR-MCGEE OIL & GAS ONSHORE, LP

Notes:

GPV - groundwater protection values
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 Table 915 Groundwater Protection limits
*Allowable level for TPH is 500 mg/kg for combined GRO,
DRO, and RRO

TABLE 2
PHOTOIONIZATION DETECTOR FIELD RESULTS
ALE W 29-21 WELLHEAD
WELD COUNTY, COLORADO
KERR-MCGEE OIL & GAS ONSHORE, LP

Screening Location	Location	Date	PID Reading (ppm)
N Wall	Wellhead Excavation	9/23/2021	27.3
E Wall	Wellhead Excavation	9/23/2021	0.3
S Wall	Wellhead Excavation	9/23/2021	0.2
W Wall	Wellhead Excavation	9/23/2021	0.2
B01 @6'	Wellhead Excavation	9/23/2021	0.5
Native-BG01 @3'	Wellhead Excavation	9/23/2021	0.0
Native-BG01 @6'	Wellhead Excavation	9/23/2021	0.0
Native-BG02 @3'	Wellhead Excavation	9/23/2021	0.0
Native-BG02 @6'	Wellhead Excavation	9/23/2021	0.0
Native-BG03 @3'	Wellhead Excavation	9/23/2021	0.0
Native-BG03 @6'	Wellhead Excavation	9/23/2021	0.0
Native-BG04 @6'	Wellhead Excavation	9/23/2021	0.0
Native-BG04 @6'	Wellhead Excavation	9/23/2021	0.0
PH01	Pothole	9/23/2021	0.2
N02 @5'	Wellhead Excavation	1/27/2022	0.8
E01 @5'	Wellhead Excavation	1/27/2022	0.0
W01 @5'	Wellhead Excavation	1/27/2022	0.0
S01 @5'	Wellhead Excavation	1/27/2022	0.0
B02 @7'	Wellhead Excavation	1/27/2022	0.0
N03 @5'	Wellhead Excavation	2/15/2022	0.0
E02 @5'	Wellhead Excavation	2/15/2022	0.0
S02 @5'	Wellhead Excavation	2/15/2022	0.1
W02 @5'	Wellhead Excavation	2/15/2022	0.0
N04 @5'	Wellhead Excavation	3/2/2022	2.1

Notes:

PID - Photoionization Detector

ppm - parts per million

NA - Not Analyzed



February 08, 2022

WSP USA

Brian Sulzberger

4600 W. 60th Ave.

Arvada

CO

80003

Project Name - KMG - Ale W 29-21 WH

Project Number - 31403177.157

Attached are your analytical results for KMG - Ale W 29-21 WH received by Origins Laboratory, Inc. January 27, 2022. This project is associated with Origins project number Y201482-01.

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.

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WSP USA

4600 W. 60th Ave.

Arvada CO 80003

Brian Sulzberger

Project Number: 31403177.157

Project: KMG - Ale W 29-21 WH

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
N02@5'	Y201482-01	Soil	January 27, 2022 12:02	01/27/2022 15:08
S01@5'	Y201482-02	Soil	January 27, 2022 12:04	01/27/2022 15:08
W01@5'	Y201482-03	Soil	January 27, 2022 12:07	01/27/2022 15:08
E01@5'	Y201482-04	Soil	January 27, 2022 12:10	01/27/2022 15:08
B02@7'	Y201482-05	Soil	January 27, 2022 12:12	01/27/2022 15:08

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.

WSP USA

4600 W. 60th Ave.

Arvada

CO

80003

Brian Sulzberger

Project Number: 31403177.157

Project: KMG - Ale W 29-21 WH

Origins Laboratory

F-012207-01-R1

Effective Date: 01/09/12

Sample Receipt Checklist

Origins Work Order: 1001487

Client: WSP

Client Project ID: Ale W 29-21

Checklist Completed by: SKH

Shipped Via: TD
(UPS, FedEx, Hand Delivered, Pick-up, etc.)

Date/time completed: 1/27/12

Airbill #: NA

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

Cooler Number/Temperature: 1 5.8 °C 1 °C 1 °C

Thermometer ID: TOUS

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

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

Reviewed by (Project Manager) [Signature]

Date/Time Reviewed 1/27/12

Origins Laboratory, Inc.

[Signature]

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Page 4 of 34

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

Brian Sulzberger
Project Number: 31403177.157
Project: KMG - Ale W 29-21 WH

N02@5'

1/27/2022 12:02:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y201482-01 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B2A2705	01/27/2022	01/27/2022	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl 96.8 % 50-150 " " "

GBTEX+TMBs by 8260D

Gasoline Range Hydrocarbons	ND		0.200	mg/kg	1	B2A2717	01/27/2022	01/28/2022	U
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Surrogate: 1,2-Dichloroethane-d4 102 % 70-130 " " "
Surrogate: Toluene-d8 100 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 100 % 70-130 " " "

Total Metals by 6020B

Cadmium	0.051	0.0259	0.25	mg/Kg	5	L597033	01/31/2022	02/01/2022	J
Lead	27.9	0.031	0.25	"	"	"	"	"	

Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: 31403177.157
Project: KMG - Ale W 29-21 WH

S01@5'

1/27/2022 12:04:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y201482-02 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.202	mg/L	1	B2A2710	01/27/2022	01/28/2022	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B2A2705	01/27/2022	01/27/2022	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	81.3 %	50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B2A2717	01/27/2022	01/28/2022	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	105 %	70-130			"	"	"	
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Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: 31403177.157
Project: KMG - Ale W 29-21 WH

S01@5'

1/27/2022 12:04:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y201482-02 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	98.9 %	70-130	B2A27 17	01/27/2022	01/28/2022
Surrogate: 4-Bromofluorobenzene	99.2 %	70-130	"	"	"

Metals by Saturated Paste by EPA 6010

Calcium	ND	0.499	meq/L	10	[CALC]	01/31/2022	02/01/2022
Magnesium	ND	0.823	"	"	"	"	"
Sodium	0.979	0.435	"	"	"	"	"

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.000364	0.00067	mg/Kg	1	L597251	02/01/2022	02/01/2022
2-Methylnaphthalene	ND	0.000645	0.00067	"	"	"	"	"
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"
Anthracene	ND	0.000334	0.00067	"	"	"	"	"
Benzo(a)anthracene	ND	0.000493	0.00067	"	"	"	"	"
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	"	"	"	"	"
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"
Fluoranthene	ND	0.000394	0.00067	"	"	"	"	"

Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: 31403177.157
Project: KMG - Ale W 29-21 WH

S01@5'

1/27/2022 12:04:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y201482-02 (Soil)

PAH by 8270D SIM

Fluorene	ND	0.000286	0.00067	mg/Kg	1	L597251	02/01/2022	02/01/2022
Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	"	"	"	"	"
Naphthalene	ND	0.000484	0.00067	"	"	"	"	"
Pyrene	ND	0.000643	0.00067	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	56.5 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	72 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	57.4 %	29-110	"	"	"

pH in Soil by 9045D

pH	7.89	pH Units	1	B2A3107	01/31/2022	02/01/2022
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SAR by 20B Saturated Paste

SAR	2.56	SAR	1	B2A3103	01/31/2022	02/01/2022
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.114	0.00500	mmhos/cm	1	B2A3104	01/31/2022	02/01/2022
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Total Metals by 6020B

Arsenic	1.07	0.0855	0.25	mg/Kg	5	L597033	01/31/2022	02/01/2022
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Origins Laboratory, Inc.



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WSP USA

4600 W. 60th Ave.

Arvada CO 80003

Brian Sulzberger

Project Number: 31403177.157

Project: KMG - Ale W 29-21 WH

S01@5'

1/27/2022 12:04:00PM

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

Y201482-02 (Soil)

Total Metals by 6020B

Barium	41.8	0.042	0.25	mg/Kg	5	L597033	01/31/2022	02/01/2022	
Cadmium	0.0403	0.0259	0.25	"	"	"	"	"	J
Copper	3.37	0.0806	0.25	"	"	"	"	"	
Lead	3.76	0.031	0.25	"	"	"	"	"	
Nickel	3.78	0.0633	0.25	"	"	"	"	"	
Selenium	0.295	0.103	0.25	"	"	"	"	"	
Silver	0.0185	0.0067	0.25	"	"	"	"	"	J
Zinc	13.2	0.534	2.5	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.248	0.51	mg/Kg	1	L597575	01/27/2022	02/07/2022	
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Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: 31403177.157
Project: KMG - Ale W 29-21 WH

W01@5'

1/27/2022 12:07:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y201482-03 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.197	mg/L	1	B2A2710	01/27/2022	01/28/2022	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B2A2705	01/27/2022	01/27/2022	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	98.0 %	50-150	"	"	"
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B2A2717	01/27/2022	01/28/2022	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	106 %	70-130	"	"	"
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Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: 31403177.157
Project: KMG - Ale W 29-21 WH

W01@5'

1/27/2022 12:07:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y201482-03 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	99.3 %	70-130	B2A27 17	01/27/2022	01/28/2022
Surrogate: 4-Bromofluorobenzene	99.7 %	70-130	"	"	"

Metals by Saturated Paste by EPA 6010

Calcium	0.973	0.499	meq/L	10	[CALC]	01/31/2022	02/01/2022
Magnesium	ND	0.823	"	"	"	"	"
Sodium	ND	0.435	"	"	"	"	"

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.000364	0.00067	mg/Kg	1	L597251	02/01/2022	02/01/2022
2-Methylnaphthalene	ND	0.000645	0.00067	"	"	"	"	"
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"
Anthracene	ND	0.000334	0.00067	"	"	"	"	"
Benzo(a)anthracene	ND	0.000493	0.00067	"	"	"	"	"
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	"	"	"	"	"
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"
Fluoranthene	ND	0.000394	0.00067	"	"	"	"	"

Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: 31403177.157
Project: KMG - Ale W 29-21 WH

W01@5'

1/27/2022 12:07:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y201482-03 (Soil)

PAH by 8270D SIM

Fluorene	ND	0.000286	0.00067	mg/Kg	1	L597251	02/01/2022	02/01/2022
Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	"	"	"	"	"
Naphthalene	ND	0.000484	0.00067	"	"	"	"	"
Pyrene	ND	0.000643	0.00067	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	58.1 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	73.4 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	59.9 %	29-110	"	"	"

pH in Soil by 9045D

pH	8.21	pH Units	1	B2A3107	01/31/2022	02/01/2022
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SAR by 20B Saturated Paste

SAR	0.304	SAR	1	B2A3103	01/31/2022	02/01/2022
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.154	0.00500	mmhos/cm	1	B2A3104	01/31/2022	02/01/2022
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Total Metals by 6020B

Arsenic	0.918	0.0855	0.25	mg/Kg	5	L597033	01/31/2022	02/01/2022
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Origins Laboratory, Inc.



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WSP USA

4600 W. 60th Ave.

Arvada CO 80003

Brian Sulzberger

Project Number: 31403177.157

Project: KMG - Ale W 29-21 WH

W01@5'

1/27/2022 12:07:00PM

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

Y201482-03 (Soil)

Total Metals by 6020B

Barium	38.2	0.042	0.25	mg/Kg	5	L597033	01/31/2022	02/01/2022	
Cadmium	0.0406	0.0259	0.25	"	"	"	"	"	J
Copper	3.19	0.0806	0.25	"	"	"	"	"	
Lead	3.59	0.031	0.25	"	"	"	"	"	
Nickel	3.31	0.0633	0.25	"	"	"	"	"	
Selenium	0.361	0.103	0.25	"	"	"	"	"	
Silver	0.0143	0.0067	0.25	"	"	"	"	"	J
Zinc	13.8	0.534	2.5	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L597575	01/27/2022	02/07/2022	
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Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: 31403177.157
Project: KMG - Ale W 29-21 WH

E01@5'

1/27/2022 12:10:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y201482-04 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.199	mg/L	1	B2A2710	01/27/2022	01/28/2022	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B2A2705	01/27/2022	01/27/2022	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	98.8 %	50-150	"	"	"	"	"	"
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B2A2717	01/27/2022	01/28/2022	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	107 %	70-130	"	"	"	"	"	"
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Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: 31403177.157
Project: KMG - Ale W 29-21 WH

E01@5'

1/27/2022 12:10:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y201482-04 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	99.9 %	70-130	B2A27 17	01/27/2022	01/28/2022
Surrogate: 4-Bromofluorobenzene	101 %	70-130	"	"	"

Metals by Saturated Paste by EPA 6010

Calcium	0.604	0.499	meq/L	10	[CALC]	01/31/2022	02/01/2022
Magnesium	ND	0.823	"	"	"	"	"
Sodium	1.27	0.435	"	"	"	"	"

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.000364	0.00067	mg/Kg	1	L597251	02/01/2022	02/01/2022
2-Methylnaphthalene	ND	0.000645	0.00067	"	"	"	"	"
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"
Anthracene	ND	0.000334	0.00067	"	"	"	"	"
Benzo(a)anthracene	ND	0.000493	0.00067	"	"	"	"	"
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	"	"	"	"	"
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"
Fluoranthene	ND	0.000394	0.00067	"	"	"	"	"

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.

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

Brian Sulzberger
Project Number: 31403177.157
Project: KMG - Ale W 29-21 WH

E01@5'

1/27/2022 12:10:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y201482-04 (Soil)

PAH by 8270D SIM

Fluorene	ND	0.000286	0.00067	mg/Kg	1	L597251	02/01/2022	02/01/2022
Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	"	"	"	"	"
Naphthalene	ND	0.000484	0.00067	"	"	"	"	"
Pyrene	ND	0.000643	0.00067	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	57.5 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	72.2 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	59.3 %	29-110	"	"	"

pH in Soil by 9045D

pH	8.26	pH Units	1	B2A3107	01/31/2022	02/01/2022
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SAR by 20B Saturated Paste

SAR	1.93	SAR	1	B2A3103	01/31/2022	02/01/2022
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.218	0.00500	mmhos/cm	1	B2A3104	01/31/2022	02/01/2022
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Total Metals by 6020B

Arsenic	0.942	0.0855	0.25	mg/Kg	5	L597033	01/31/2022	02/01/2022
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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.

WSP USA

4600 W. 60th Ave.

Arvada CO 80003

Brian Sulzberger

Project Number: 31403177.157

Project: KMG - Ale W 29-21 WH

E01@5'

1/27/2022 12:10:00PM

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

Y201482-04 (Soil)

Total Metals by 6020B

Barium	40.2	0.042	0.25	mg/Kg	5	L597033	01/31/2022	02/01/2022	
Cadmium	0.0397	0.0259	0.25	"	"	"	"	"	J
Copper	3.31	0.0806	0.25	"	"	"	"	"	
Lead	3.71	0.031	0.25	"	"	"	"	"	
Nickel	3.69	0.0633	0.25	"	"	"	"	"	
Selenium	0.297	0.103	0.25	"	"	"	"	"	
Silver	0.0235	0.0067	0.25	"	"	"	"	"	J
Zinc	13.8	0.534	2.5	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.245	0.503	mg/Kg	1	L597575	01/27/2022	02/07/2022	
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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.

WSP USA

4600 W. 60th Ave.

Arvada CO 80003

Brian Sulzberger

Project Number: 31403177.157

Project: KMG - Ale W 29-21 WH

B02@7'

1/27/2022 12:12:00PM

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

Y201482-05 (Soil)

Total Metals by 6020B

Lead	2.77	0.031	0.25	mg/Kg	5	L597033	01/31/2022	02/01/2022
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Origins Laboratory, Inc.



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WSP USA

4600 W. 60th Ave.

Arvada CO 80003

Brian Sulzberger

Project Number: 31403177.157

Project: KMG - Ale W 29-21 WH

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 B2A2705 - EPA 3550B

Blank (B2A2705-BLK1)

Prepared: 01/27/2022 Analyzed: 01/27/2022

Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	26		"	24.9		104	50-150			

Origins Laboratory, Inc.



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Jordan A. Merrill, Project Manager

WSP USA

4600 W. 60th Ave.

Arvada CO 80003

Brian Sulzberger

Project Number: 31403177.157

Project: KMG - Ale W 29-21 WH

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 B2A2705 - EPA 3550B

LCS (B2A2705-BS1)

Prepared: 01/27/2022 Analyzed: 01/27/2022

Diesel (C10-C28)	974	50.0	mg/kg	1000		97.4	70-130			
Residual Range Organics (C28-C40)	908	200	"	1000		90.8	70-130			
Surrogate: o-Terphenyl	49		"	49.8		97.9	50-150			

Origins Laboratory, Inc.



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Jordan A. Merrill, Project Manager

WSP USA

4600 W. 60th Ave.

Arvada CO 80003

Brian Sulzberger

Project Number: 31403177.157

Project: KMG - Ale W 29-21 WH

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 B2A2705 - EPA 3550B

Matrix Spike (B2A2705-MS1)		Source: Y201482-01			Prepared: 01/27/2022 Analyzed: 01/27/2022					
Diesel (C10-C28)	970	50.0	mg/kg	1000	ND	97.0	70-130			
Residual Range Organics (C28-C40)	957	200	"	1000	ND	95.7	70-130			
Surrogate: o-Terphenyl	48		"	49.8		97.3	50-150			

Origins Laboratory, Inc.



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Jordan A. Merrill, Project Manager

WSP USA

4600 W. 60th Ave.

Arvada CO 80003

Brian Sulzberger

Project Number: 31403177.157

Project: KMG - Ale W 29-21 WH

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 B2A2705 - EPA 3550B

Matrix Spike Dup (B2A2705-MSD1)		Source: Y201482-01			Prepared: 01/27/2022 Analyzed: 01/27/2022					
Diesel (C10-C28)	985	50.0	mg/kg	1000	ND	98.5	70-130	1.52	35	
Residual Range Organics (C28-C40)	955	200	"	1000	ND	95.5	70-130	0.173	35	
Surrogate: o-Terphenyl	48		"	49.8		96.1	50-150			

Origins Laboratory, Inc.



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Jordan A. Merrill, Project Manager

WSP USA

4600 W. 60th Ave.

Arvada CO 80003

Brian Sulzberger

Project Number: 31403177.157

Project: KMG - Ale W 29-21 WH

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
Batch B2A2717 - EPA 5030 (soil)										
Blank (B2A2717-BLK1)					Prepared: 01/27/2022 Analyzed: 01/28/2022					
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	0.0100	"							U
Toluene	ND	0.00200	"							U
Xylenes, total	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		103	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		99.3	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		100	70-130			

Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: 31403177.157
Project: KMG - Ale W 29-21 WH

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
Batch B2A2717 - EPA 5030 (soil)										
LCS (B2A2717-BS1)					Prepared: 01/27/2022 Analyzed: 01/28/2022					
1,2,4-Trimethylbenzene	0.105	0.00200	mg/kg	0.100		105	70-130			
1,3,5-Trimethylbenzene	0.110	0.00200	"	0.100		110	70-130			
Benzene	0.104	0.00200	"	0.100		104	70-130			
Ethylbenzene	0.103	0.00200	"	0.100		103	70-130			
Naphthalene	0.0987	0.0100	"	0.100		98.7	70-130			
Toluene	0.104	0.00200	"	0.100		104	70-130			
o-Xylene	0.107	0.00200	"	0.100		107	70-130			
m,p-Xylene	0.207	0.00400	"	0.200		104	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		101	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		100	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		98.7	70-130			

Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: 31403177.157
Project: KMG - Ale W 29-21 WH

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
Batch B2A2717 - EPA 5030 (soil)										
Matrix Spike (B2A2717-MS1)		Source: Y201323-07			Prepared: 01/27/2022 Analyzed: 01/28/2022					
1,2,4-Trimethylbenzene	0.109	0.00200	mg/kg	0.100	ND	109	70-130			
1,3,5-Trimethylbenzene	0.105	0.00200	"	0.100	ND	105	70-130			
Benzene	0.103	0.00200	"	0.100	ND	103	70-130			
Ethylbenzene	0.100	0.00200	"	0.100	ND	100	70-130			
Naphthalene	0.115	0.0100	"	0.100	ND	115	70-130			
Toluene	0.102	0.00200	"	0.100	ND	102	70-130			
o-Xylene	0.105	0.00200	"	0.100	ND	105	70-130			
m,p-Xylene	0.201	0.00400	"	0.200	ND	100	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		105	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.8	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		99.9	70-130			

Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: 31403177.157
Project: KMG - Ale W 29-21 WH

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
Batch B2A2717 - EPA 5030 (soil)										
Matrix Spike Dup (B2A2717-MSD1)		Source: Y201323-07			Prepared: 01/27/2022 Analyzed: 01/28/2022					
1,2,4-Trimethylbenzene	0.0453	0.00200	mg/kg	0.100	ND	45.3	70-130	82.8	20	QM-07
1,3,5-Trimethylbenzene	0.0456	0.00200	"	0.100	ND	45.6	70-130	78.5	20	QM-07
Benzene	0.0847	0.00200	"	0.100	ND	84.7	70-130	19.4	20	
Ethylbenzene	0.0570	0.00200	"	0.100	ND	57.0	70-130	54.8	20	QM-07
Naphthalene	0.0715	0.0100	"	0.100	ND	71.5	70-130	46.6	20	QM-07
Toluene	0.0706	0.00200	"	0.100	ND	70.6	70-130	36.1	20	QM-07
o-Xylene	0.0623	0.00200	"	0.100	ND	62.3	70-130	50.7	20	QM-07
m,p-Xylene	0.111	0.00400	"	0.200	ND	55.5	70-130	57.7	20	QM-07
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		106	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.5	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		100	70-130			

Origins Laboratory, Inc.



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WSP USA

4600 W. 60th Ave.

Arvada CO 80003

Brian Sulzberger

Project Number: 31403177.157

Project: KMG - Ale W 29-21 WH

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 B2A3104 - NO PREP

Blank (B2A3104-BLK1)

Prepared: 01/31/2022 Analyzed: 02/01/2022

Specific Conductance (EC) 0.00120 0.00500 mmhos/cm

Duplicate (B2A3104-DUP1)

Source: Y201482-02

Prepared: 01/31/2022 Analyzed: 02/01/2022

Specific Conductance (EC) 0.112 0.00500 mmhos/cm 0.114 2.12 25

Batch B2A3107 - NO PREP

Duplicate (B2A3107-DUP1)

Source: Y201482-02

Prepared: 01/31/2022 Analyzed: 02/01/2022

pH 7.58 pH Units 7.89 4.01 25

Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: 31403177.157
Project: KMG - Ale W 29-21 WH

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L597251 - 3550B

MSD (L 86374-MSD-L597251)		Source: 86374			Prepared: 02/01/2022 Analyzed: 02/01/2022					
Benzo(a)anthracene	0.116	0.000493	mg/Kg	0.165	86374	70.3	30-130	5.3	30	
Pyrene	0.115	0.000643	"	0.165	86374	69.6	30-130	2.5	30	
Naphthalene	0.101	0.000484	"	0.165	86374	61.2	30-130	3	30	
Indeno(1,2,3-cd)pyrene	0.107	0.000627	"	0.165	86374	64.8	30-130	7.4	30	
Fluorene	0.104	0.000286	"	0.165	86374	63	30-130	0	30	
Dibenz(a,h)anthracene	0.129	0.000614	"	0.165	86374	78.1	30-130	6.4	30	
Benzo(k)fluoranthene	0.0988	0.000437	"	0.165	86374	59.8	30-130	29.9	30	
Benzo(a)pyrene	0.129	0.000468	"	0.165	86374	78.1	30-130	0.7	30	
Fluoranthene	0.117	0.000394	"	0.165	86374	70.9	30-130	1.6	30	
Anthracene	0.106	0.000334	"	0.165	86374	64.2	30-130	0.9	30	
Acenaphthene	0.0967	0.000304	"	0.165	86374	58.6	30-130	1.2	30	
2-Methylnaphthalene	0.0953	0.000645	"	0.165	86374	57.7	30-130	1.1	30	
1-Methylnaphthalene	0.0972	0.000364	"	0.165	86374	58.9	30-130	2.3	30	
Benzo(b)fluoranthene	0.101	0.000585	"	0.165	86374	61.2	30-130	57.3	30	
Chrysene	0.115	0.000624	"	0.165	86374	69.6	30-130	14.5	30	
Surrogate: Nitrobenzene-d5	60.6		"	0.33	178	60.6	29-110			
Surrogate: 4-Terphenyl-d14	77.8		"	0.33	225	77.8	33-122			
Surrogate: 2-Fluorobiphenyl	60		"	0.33	180	60	33-115			

MS (L 86374-MS-L597251)		Source: 86374			Prepared: 02/01/2022 Analyzed: 02/01/2022					
1-Methylnaphthalene	0.0949	0.000364	mg/Kg	0.166	86374	57.1	30-130			
2-Methylnaphthalene	0.0942	0.000645	"	0.166	86374	56.7	30-130			
Acenaphthene	0.0955	0.000304	"	0.166	86374	57.5	30-130			
Anthracene	0.107	0.000334	"	0.166	86374	64.4	30-130			
Benzo(a)anthracene	0.11	0.000493	"	0.166	86374	66.2	30-130			
Benzo(a)pyrene	0.13	0.000468	"	0.166	86374	78.3	30-130			
Benzo(b)fluoranthene	0.056	0.000585	"	0.166	86374	33.7	30-130			

Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: 31403177.157
Project: KMG - Ale W 29-21 WH

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L597251 - 3550B

MS (L 86374-MS-L597251)		Source: 86374			Prepared: 02/01/2022 Analyzed: 02/01/2022					
Benzo(k)fluoranthene	0.0731	0.000437	mg/Kg	0.166	86374	44	30-130			
Chrysene	0.133	0.000624	"	0.166	86374	80.1	30-130			
Dibenz(a,h)anthracene	0.121	0.000614	"	0.166	86374	72.8	30-130			
Fluoranthene	0.119	0.000394	"	0.166	86374	71.6	30-130			
Fluorene	0.104	0.000286	"	0.166	86374	62.6	30-130			
Indeno(1,2,3-cd)pyrene	0.0993	0.000627	"	0.166	86374	59.8	30-130			
Pyrene	0.118	0.000643	"	0.166	86374	71	30-130			
Naphthalene	0.098	0.000484	"	0.166	86374	59	30-130			
Surrogate: 4-Terphenyl-d14	78.6		"	0.332	225	78.6	33-122			
Surrogate: Nitrobenzene-d5	61.4		"	0.332	178	61.4	29-110			
Surrogate: 2-Fluorobiphenyl	60.8		"	0.332	180	60.8	33-115			

LCS (LCS-L597251)		Prepared: 02/01/2022 Analyzed: 02/01/2022								
Pyrene	0.117	0.000643	mg/Kg	0.167		70	30-130			
Fluoranthene	0.118	0.000394	"	0.167		70.6	30-130			
Dibenz(a,h)anthracene	0.121	0.000614	"	0.167		72.4	30-130			
Chrysene	0.119	0.000624	"	0.167		71.2	30-130			
Indeno(1,2,3-cd)pyrene	0.103	0.000627	"	0.167		61.6	30-130			
2-Methylnaphthalene	0.0936	0.000645	"	0.167		56	30-130			
Fluorene	0.103	0.000286	"	0.167		61.6	30-130			
Acenaphthene	0.0943	0.000304	"	0.167		56.4	30-130			
Anthracene	0.104	0.000334	"	0.167		62.2	30-130			
Benzo(a)anthracene	0.118	0.000493	"	0.167		70.6	30-130			
Benzo(a)pyrene	0.123	0.000468	"	0.167		73.6	30-130			
Benzo(k)fluoranthene	0.0895	0.000437	"	0.167		53.5	30-130			
Benzo(b)fluoranthene	0.0989	0.000585	"	0.167		59.2	30-130			
1-Methylnaphthalene	0.0934	0.000364	"	0.167		55.9	30-130			

Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: 31403177.157
Project: KMG - Ale W 29-21 WH

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L597251 - 3550B

LCS (LCS-L597251)

Prepared: 02/01/2022 Analyzed: 02/01/2022

Naphthalene	0.0979	0.000484	mg/Kg	0.167		58.6	30-130			
Surrogate: 4-Terphenyl-d14	81		"	0.333		81	33-122			
Surrogate: 2-Fluorobiphenyl	62.4		"	0.333		62.4	33-115			
Surrogate: Nitrobenzene-d5	62.7		"	0.333		62.7	29-110			

LRB (LRB-L597251)

Prepared: 02/01/2022 Analyzed: 02/01/2022

Acenaphthene	ND	0.00067	mg/Kg				-			
Benzo(k)fluoranthene	ND	0.00067	"				-			
Chrysene	ND	0.00067	"				-			
Dibenz(a,h)anthracene	ND	0.00067	"				-			
Pyrene	ND	0.00067	"				-			
1-Methylnaphthalene	ND	0.00067	"				-			
Benzo(b)fluoranthene	ND	0.00067	"				-			
Anthracene	ND	0.00067	"				-			
Benzo(a)anthracene	ND	0.00067	"				-			
Benzo(a)pyrene	ND	0.00067	"				-			
Fluoranthene	ND	0.00067	"				-			
Fluorene	ND	0.00067	"				-			
Indeno(1,2,3-cd)pyrene	ND	0.00067	"				-			
Naphthalene	ND	0.00067	"				-			
2-Methylnaphthalene	ND	0.00067	"				-			
Surrogate: 2-Fluorobiphenyl	60.9		"	0.333		60.9	33-115			
Surrogate: 4-Terphenyl-d14	74.4		"	0.333		74.4	33-122			
Surrogate: Nitrobenzene-d5	57.6		"	0.333		57.6	29-110			

Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: 31403177.157
Project: KMG - Ale W 29-21 WH

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch L597033 - 3050B										
MSD (L 86535-MSD-L597033)			Source: 86535		Prepared: 01/31/2022 Analyzed: 02/01/2022					
Barium	31.2	0.042	mg/Kg	4.83	26.3	101	75-125	10.3	80	
Zinc	30.8	0.534	"	24.2	8.1	94	75-125	5.3	80	
Silver	0.477	0.0067	"	0.483	0.0118	99	75-125	6	80	
Selenium	4.59	0.103	"	4.83	0.2	95	75-125	4.2	80	
Nickel	4	0.0633	"	2.42	2.24	73	75-125	11.3	80	*
Lead	4.75	0.031	"	2.42	2.22	105	75-125	6.1	80	
Cadmium	0.494	0.0259	"	0.483	0.0335	102	75-125	6.6	80	
Arsenic	2.68	0.0855	"	2.42	0.543	88	75-125	0.3	80	
Copper	3.73	0.0806	"	2.42	1.77	81	75-125	10.4	80	
MS (L 86535-MS-L597033)			Source: 86535		Prepared: 01/31/2022 Analyzed: 02/02/2022					
Selenium	4.4	0.103	mg/Kg	4.96	0.2	89	75-125			
Copper	4.14	0.0806	"	2.48	1.77	96	75-125			
Arsenic	2.69	0.0855	"	2.48	0.543	87	75-125			
Zinc	32.5	0.534	"	24.8	8.1	98	75-125			
Cadmium	0.528	0.0259	"	0.496	0.0335	107	75-125			
Lead	5.05	0.031	"	2.48	2.22	114	75-125			
Nickel	4.48	0.0633	"	2.48	2.24	90	75-125			
Silver	0.507	0.0067	"	0.496	0.0118	102	75-125			
Barium	34.6	0.042	"	4.96	26.3	167	75-125			*
LCS (LCS-L597033)			Prepared: 01/31/2022 Analyzed: 02/02/2022							
Arsenic	2.3	0.0855	mg/Kg	2.5		92	80-120			
Barium	4.97	0.042	"	5		99	80-120			
Cadmium	0.484	0.0259	"	0.5		97	80-120			
Copper	2.17	0.0806	"	2.5		87	80-120			
Lead	2.42	0.031	"	2.5		97	80-120			

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.

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

Brian Sulzberger
Project Number: 31403177.157
Project: KMG - Ale W 29-21 WH

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L597033 - 3050B

LCS (LCS-L597033)

Prepared: 01/31/2022 Analyzed: 02/01/2022

Nickel	2.24	0.0633	mg/Kg	2.5		90	80-120			
Selenium	4.67	0.103	"	5		93	80-120			
Silver	0.493	0.0067	"	0.5		99	80-120			
Zinc	21.3	0.534	"	25		85	80-120			

LRB (LRB-L597033)

Prepared: 01/31/2022 Analyzed: 02/02/2022

Selenium	ND	0.25	mg/Kg				-			
Barium	ND	0.25	"				-			
Cadmium	ND	0.25	"				-			
Copper	0.186	0.25	"				-			J
Lead	0.0363	0.25	"				-			J
Nickel	ND	0.25	"				-			
Zinc	ND	2.5	"				-			
Silver	ND	0.25	"				-			
Arsenic	ND	0.25	"				-			

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.

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

Brian Sulzberger
Project Number: 31403177.157
Project: KMG - Ale W 29-21 WH

Total Metals by 7196A - Quality Control Waypoint Analytical, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch L597575 -										
DUP (L 86480-DUP)		Source: Y201482-02			Prepared: Analyzed: 02/07/2022					
Chromium, Hexavalent	ND	0.25	mg/Kg		86480	-		0	20	
MS (L 86480-MS)		Source: Y201482-02			Prepared: Analyzed: 02/07/2022					
Chromium, Hexavalent	6.52	0.244	mg/Kg	7.88	86480	83	75-125			
LCS (LCS)					Prepared: Analyzed: 02/07/2022					
Chromium, Hexavalent	7.11	0.244	mg/Kg	8		89	75-125			
LRB (LRB)					Prepared: Analyzed: 02/07/2022					
Chromium, Hexavalent	ND	0.5	mg/Kg				-			

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.

WSP USA

4600 W. 60th Ave.

Arvada CO 80003

Brian Sulzberger

Project Number: 31403177.157

Project: KMG - Ale W 29-21 WH

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.

* 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.

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.

Jordan A. Merrill, Project Manager



September 30, 2021

WSP USA

Brian Sulzberger

4600 W. 60th Ave.

Arvada

CO

80003

Project Name - KMG - Ale W 29-21

Project Number - 31403177.157.05

Attached are your analytical results for KMG - Ale W 29-21 received by Origins Laboratory, Inc. September 23, 2021. This project is associated with Origins project number Y109510-01.

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: 31403177.157.05

Project: KMG - Ale W 29-21

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
N01@5'	Y109510-01	Soil	September 23, 2021 14:00	09/23/2021 16:30
B01@6'	Y109510-02	Soil	September 23, 2021 14:00	09/23/2021 16:30
Native-BG01@3'	Y109510-03	Soil	September 23, 2021 14:00	09/23/2021 16:30
Native-BG01@6'	Y109510-04	Soil	September 23, 2021 14:00	09/23/2021 16:30
Native-BG02@3'	Y109510-05	Soil	September 23, 2021 14:00	09/23/2021 16:30
Native-BG02@6'	Y109510-06	Soil	September 23, 2021 14:10	09/23/2021 16:30
Native-BG03@3'	Y109510-07	Soil	September 23, 2021 14:10	09/23/2021 16:30
Native-BG03@6'	Y109510-08	Soil	September 23, 2021 14:10	09/23/2021 16:30
Native-BG04@3'	Y109510-09	Soil	September 23, 2021 14:10	09/23/2021 16:30
Native-BG04@6'	Y109510-10	Soil	September 23, 2021 14:10	09/23/2021 16:30

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: 31403177.157.05

Project: KMG - Ale W 29-21

ORIGINS LABORATORY, INC

www.originslaboratory.com

page 1 of 1

Client: WSP

Address: 4600 W 60th Ave
Arvada CO 80003

Telephone Number: _____

Email Address: KMG Group

Project Manager: Brian Sulzberger

Project Name: Ale W 29-21

Project Number: 31403177.157.05

Samples Collected By: RS

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix	Analysis	Sample Instructions
				Unpreserved	HCl	HNO ₃	Other			
No 105	9-23-21	1400	2	X				Soil	PH, EC, TDS, 154, Boron, Nitrate	Low Priority
Bale 6		1402	2	X						
Native-B601e3		1404	2	X						
Native-B601e6		1406	2	X						
Native-B602e3		1408	2	X						
Native-B602e6		1410	2	X						
Native-B603e3		1412	2	X						
Native-B603e6		1414	2	X						
Native-B604e3		1416	2	X						
Native-B604e6		1418	2	X						

Relinquished By: [Signature]

Relinquished By: _____

Date: 9-23-21

Date: _____

Time: 1630

Time: _____

Received By: [Signature]

Received By: _____

Date: 9-23-21

Date: _____

Time: 16:50

Time: _____

Turnaround Time: ☒ Same Day ☐ 24 Hr ☐ 48 Hr ☐ 72 Hr ☐ Standard

Origins Laboratory, Inc.

Jefe 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: 31403177.157.05

Project: KMG - Ale W 29-21

Origins Laboratory

Sample Receipt Checklist

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

Origins Work Order: Y109510

Client: WSP

Client Project ID: Ale W 29-21

Checklist Completed by: JG

Shipped Via: HD

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

Date/Time completed: 9/23/21

Airbill #: N/A

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

Water

Other:

Cooler Number/Temperature: 1 / 28 °C

°C

(Describe)

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 ⁽¹⁾ ?	<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 ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?		<input checked="" type="checkbox"/>		
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	<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 ⁽¹⁾ ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity) (pH < 2 for samples preserved with HNO ₃ , HCl, H ₂ SO ₄) / (pH > 10 for samples preserved with NaAsO ₂ +NaOH, ZnAc+NaOH)			<input checked="" type="checkbox"/>	
Additional Comments (if any):				

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

Reviewed by (Project Manager)

Date/Time Reviewed: 9/23/21

Origins Laboratory, Inc.

Jefe 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: 31403177.157.05
Project: KMG - Ale W 29-21

N01@5'

9/23/2021 2:00:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y109510-01 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.200	mg/L	1	B112329	09/23/2021	09/24/2021	U
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	1670	25.0	mg/kg	1	B112322	09/23/2021	09/24/2021
Residual Range Organics (C28-C40)	1100	100	"	"	"	"	"

Surrogate: o-Terphenyl	134 %	50-150	"	"	"
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GBTEX+TMBs

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B112321	09/23/2021	09/23/2021	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	9.25	5.00	"	25	"	"	09/23/2021	
Xylenes, total	ND	0.00200	"	1	"	"	09/23/2021	U

Surrogate: 1,2-Dichloroethane-d4	90.7 %	70-130	"	"	"
Surrogate: Toluene-d8	100 %	70-130	"	"	"

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: 31403177.157.05
Project: KMG - Ale W 29-21

N01@5'

9/23/2021 2:00:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y109510-01 (Soil)

GBTEX+TMBs

Surrogate: 4-Bromofluorobenzene	117 %	70-130	B1I232 1	09/23/2021	09/23/2021
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Metals by Saturated Paste

Calcium	1.92	0.499	meq/L	10	[CALC]	09/23/2021	09/24/2021
Magnesium	ND	0.823	"	"	"	"	"
Sodium	ND	0.435	"	"	"	"	"

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00033	0.00067	mg/Kg	1	L575976	09/27/2021	09/27/2021
2-Methylnaphthalene	ND	0.00039	0.00067	"	"	"	"	"
Acenaphthene	ND	0.0003	0.00067	"	"	"	"	"
Anthracene	ND	0.00033	0.00067	"	"	"	"	"
Benzo(a)anthracene	0.00279	0.00041	0.00067	"	"	"	"	"
Benzo(a)pyrene	0.00693	0.00014	0.00067	"	"	"	"	"
Benzo(b)fluoranthene	0.00611	0.00021	0.00067	"	"	"	"	"
Benzo(k)fluoranthene	0.00202	0.00013	0.00067	"	"	"	"	"
Chrysene	0.00568	0.00027	0.00067	"	"	"	"	"
Dibenz(a,h)anthracene	ND	0.00036	0.00067	"	"	"	"	"
Fluoranthene	0.00376	0.00039	0.00067	"	"	"	"	"
Fluorene	ND	0.00029	0.00067	"	"	"	"	"
Indeno(1,2,3-cd)pyrene	0.00385	0.00029	0.00067	"	"	"	"	"

B

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: 31403177.157.05
Project: KMG - Ale W 29-21

N01@5'

9/23/2021 2:00:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y109510-01 (Soil)

PAH by 8270D SIM

Naphthalene	ND	0.000467	0.00067	mg/Kg	1	L575976	09/27/2021	09/27/2021	
Pyrene	0.00547	0.00059	0.00067	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	77.4 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	95.5 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	74.1 %		29-110			"	"	"	

pH in Soil by 9045D

pH	7.62			pH Units	1	B112327	09/23/2021	09/24/2021	
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SAR by 20B Saturated Paste

SAR	0.146			SAR	1	B112326	09/23/2021	09/24/2021	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.358		0.00500	mmhos/cm	1	B112328	09/23/2021	09/24/2021	
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Total Metals by 6020B

Arsenic	2.17	0.0855	0.25	mg/Kg	5	L576149	09/27/2021	09/28/2021	
Barium	62.4	0.042	0.25	"	"	"	"	"	
Cadmium	0.387	0.0259	0.25	"	"	"	"	"	

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

WSP USA

4600 W. 60th Ave.

Arvada CO 80003

Brian Sulzberger

Project Number: 31403177.157.05

Project: KMG - Ale W 29-21

N01@5'

9/23/2021 2:00:00PM

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

Y109510-01 (Soil)

Total Metals by 6020B

Copper	14.9	0.0806	0.25	mg/Kg	5	L576149	09/27/2021	09/28/2021	
Lead	18	0.031	0.25	"	"	"	"	"	
Nickel	5.57	0.0633	0.25	"	"	"	"	"	
Selenium	0.182	0.103	0.25	"	"	"	"	"	J
Silver	0.172	0.0067	0.25	"	"	"	"	"	J
Zinc	45.1	0.534	2.5	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	2.5	5.13	mg/Kg	10	L575959	09/23/2021	09/27/2021	
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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

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

Brian Sulzberger
Project Number: 31403177.157.05
Project: KMG - Ale W 29-21

B01@6'

9/23/2021 2:02:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y109510-02 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.198	mg/L	1	B112329	09/23/2021	09/24/2021	U
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B112322	09/23/2021	09/24/2021	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	105 %	50-150	"	"	"	"	"	"
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GBTEX+TMBs

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B112321	09/23/2021	09/24/2021	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	90.8 %	70-130	"	"	"	"	"	"
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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

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

Brian Sulzberger
Project Number: 31403177.157.05
Project: KMG - Ale W 29-21

B01@6'

9/23/2021 2:02:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y109510-02 (Soil)

GBTEX+TMBs

Surrogate: Toluene-d8	98.3 %		70-130			B1I232 1	09/23/2021	09/24/2021	
Surrogate: 4-Bromofluorobenzene	107 %		70-130			"	"	"	

Metals by Saturated Paste

Calcium	1.89		0.499	meq/L	10	[CALC]	09/23/2021	09/24/2021	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	1.12		0.435	"	"	"	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00033	0.00067	mg/Kg	1	L575976	09/27/2021	09/27/2021	
2-Methylnaphthalene	ND	0.00039	0.00067	"	"	"	"	"	
Acenaphthene	ND	0.0003	0.00067	"	"	"	"	"	
Anthracene	ND	0.00033	0.00067	"	"	"	"	"	
Benzo(a)anthracene	0.00281	0.00041	0.00067	"	"	"	"	"	
Benzo(a)pyrene	0.00621	0.00014	0.00067	"	"	"	"	"	
Benzo(b)fluoranthene	0.00574	0.00021	0.00067	"	"	"	"	"	
Benzo(k)fluoranthene	0.00157	0.00013	0.00067	"	"	"	"	"	B
Chrysene	0.00542	0.00027	0.00067	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.00036	0.00067	"	"	"	"	"	
Fluoranthene	0.00395	0.00039	0.00067	"	"	"	"	"	
Fluorene	ND	0.00029	0.00067	"	"	"	"	"	

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

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

Brian Sulzberger
Project Number: 31403177.157.05
Project: KMG - Ale W 29-21

B01@6'

9/23/2021 2:02:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y109510-02 (Soil)

PAH by 8270D SIM

Indeno(1,2,3-cd)pyrene	0.00282	0.00029	0.00067	mg/Kg	1	L575976	09/27/2021	09/27/2021	
Naphthalene	ND	0.000467	0.00067	"	"	"	"	"	
Pyrene	0.00598	0.00059	0.00067	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	71.4 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	88.9 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	69.3 %		29-110			"	"	"	

pH in Soil by 9045D

pH	7.65			pH Units	1	B112327	09/23/2021	09/24/2021	
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SAR by 20B Saturated Paste

SAR	0.978			SAR	1	B112326	09/23/2021	09/24/2021	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.496		0.00500	mmhos/cm	1	B112328	09/23/2021	09/24/2021	
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Total Metals by 6020B

Arsenic	1.69	0.0855	0.25	mg/Kg	5	L576149	09/27/2021	09/28/2021	
Barium	50.4	0.042	0.25	"	"	"	"	"	

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: 31403177.157.05

Project: KMG - Ale W 29-21

B01@6'

9/23/2021 2:02:00PM

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

Y109510-02 (Soil)

Total Metals by 6020B

Cadmium	0.247	0.0259	0.25	mg/Kg	5	L576149	09/27/2021	09/28/2021	J
Copper	9.71	0.0806	0.25	"	"	"	"	"	
Lead	17.4	0.031	0.25	"	"	"	"	"	
Nickel	4.78	0.0633	0.25	"	"	"	"	"	
Selenium	0.262	0.103	0.25	"	"	"	"	"	
Silver	0.101	0.0067	0.25	"	"	"	"	"	J
Zinc	32	0.534	2.5	"	"	"	"	"	

Total Metals by 7196 A

Chromium, Hexavalent	ND	2.49	5.1	mg/Kg	10	L575982	09/23/2021	09/27/2021	
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Jen Pellegrini For Noelle Doyle Mathis, President

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

Brian Sulzberger
Project Number: 31403177.157.05
Project: KMG - Ale W 29-21

Native-BG01@3'
9/23/2021 2:04:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y109510-03 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.199	mg/L	1	B112329	09/23/2021	09/24/2021	U
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Metals by Saturated Paste

Calcium	0.649	0.499	meq/L	10	[CALC]	09/23/2021	09/24/2021
Magnesium	ND	0.823	"	"	"	"	"
Sodium	1.25	0.435	"	"	"	"	"

pH in Soil by 9045D

pH	7.04	pH Units	1	B112327	09/23/2021	09/24/2021
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SAR by 20B Saturated Paste

SAR	1.73	SAR	1	B112326	09/23/2021	09/24/2021
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.285	0.00500	mmhos/cm	1	B112328	09/23/2021	09/24/2021
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Total Metals by 6020B

Arsenic	1.74	0.0855	0.25	mg/Kg	5	L576149	09/27/2021	09/28/2021
Barium	66.1	0.042	0.25	"	"	"	"	"
Cadmium	0.0952	0.0259	0.25	"	"	"	"	"
Copper	6.64	0.0806	0.25	"	"	"	"	"

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: 31403177.157.05
Project: KMG - Ale W 29-21

Native-BG01@3'

9/23/2021 2:04:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y109510-03 (Soil)

Total Metals by 6020B

Lead	6.91	0.031	0.25	mg/Kg	5	L576149	09/27/2021	09/28/2021	
Nickel	6.77	0.0633	0.25	"	"	"	"	"	
Selenium	0.211	0.103	0.25	"	"	"	"	"	J
Silver	0.0533	0.0067	0.25	"	"	"	"	"	J
Zinc	28.9	0.534	2.5	"	"	"	"	"	

Total Metals by 7196 A

Chromium, Hexavalent	ND	0.497	1.02	mg/Kg	2	L575982	09/23/2021	09/27/2021	
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Jen Pellegrini For Noelle Doyle Mathis, President

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

Brian Sulzberger
Project Number: 31403177.157.05
Project: KMG - Ale W 29-21

Native-BG01@6'

9/23/2021 2:06:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y109510-04 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.199	mg/L	1	B112329	09/23/2021	09/24/2021	U
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Metals by Saturated Paste

Calcium	1.85	0.499	meq/L	10	[CALC]	09/23/2021	09/24/2021
Magnesium	0.864	0.823	"	"	"	"	"
Sodium	1.74	0.435	"	"	"	"	"

pH in Soil by 9045D

pH	7.56	pH Units	1	B112327	09/23/2021	09/24/2021
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SAR by 20B Saturated Paste

SAR	1.49	SAR	1	B112326	09/23/2021	09/24/2021
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.491	0.00500	mmhos/cm	1	B112328	09/23/2021	09/24/2021
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Total Metals by 6020B

Arsenic	1.11	0.0855	0.25	mg/Kg	5	L576149	09/27/2021	09/28/2021
Barium	55.3	0.042	0.25	"	"	"	"	"
Cadmium	0.0811	0.0259	0.25	"	"	"	"	"
Copper	4.94	0.0806	0.25	"	"	"	"	"

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: 31403177.157.05
Project: KMG - Ale W 29-21

Native-BG01@6'

9/23/2021 2:06:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y109510-04 (Soil)

Total Metals by 6020B

Lead	5.19	0.031	0.25	mg/Kg	5	L576149	09/27/2021	09/28/2021	
Nickel	5.09	0.0633	0.25	"	"	"	"	"	
Selenium	0.21	0.103	0.25	"	"	"	"	"	J
Silver	0.0463	0.0067	0.25	"	"	"	"	"	J
Zinc	21.4	0.534	2.5	"	"	"	"	"	

Total Metals by 7196 A

Chromium, Hexavalent	ND	0.507	1.04	mg/Kg	2	L575982	09/23/2021	09/27/2021	
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Jen Pellegrini For Noelle Doyle Mathis, President

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

Brian Sulzberger
Project Number: 31403177.157.05
Project: KMG - Ale W 29-21

Native-BG02@3'
9/23/2021 2:08:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y109510-05 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.199	mg/L	1	B112329	09/23/2021	09/24/2021	U
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Metals by Saturated Paste

Calcium	1.53	0.499	meq/L	10	[CALC]	09/23/2021	09/24/2021
Magnesium	ND	0.823	"	"	"	"	"
Sodium	2.28	0.435	"	"	"	"	"

pH in Soil by 9045D

pH	6.69	pH Units	1	B112327	09/23/2021	09/24/2021
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SAR by 20B Saturated Paste

SAR	2.13	SAR	1	B112326	09/23/2021	09/24/2021
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.596	0.00500	mmhos/cm	1	B112328	09/23/2021	09/24/2021
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Total Metals by 6020B

Arsenic	1.4	0.0855	0.25	mg/Kg	5	L576149	09/27/2021	09/28/2021
Barium	55.8	0.042	0.25	"	"	"	"	"
Cadmium	0.0947	0.0259	0.25	"	"	"	"	J
Copper	5.84	0.0806	0.25	"	"	"	"	"

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: 31403177.157.05

Project: KMG - Ale W 29-21

Native-BG02@3'

9/23/2021 2:08:00PM

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

Y109510-05 (Soil)

Total Metals by 6020B

Lead	6.4	0.031	0.25	mg/Kg	5	L576149	09/27/2021	09/28/2021	
Nickel	5.83	0.0633	0.25	"	"	"	"	"	
Selenium	0.194	0.103	0.25	"	"	"	"	"	J
Silver	0.0399	0.0067	0.25	"	"	"	"	"	J
Zinc	27.3	0.534	2.5	"	"	"	"	"	

Total Metals by 7196 A

Chromium, Hexavalent	ND	0.488	1	mg/Kg	2	L575982	09/23/2021	09/27/2021	
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WSP USA
4600 W. 60th Ave.
Arvada CO 80003

Brian Sulzberger
Project Number: 31403177.157.05
Project: KMG - Ale W 29-21

Native-BG02@6'
9/23/2021 2:10:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y109510-06 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.200	mg/L	1	B112329	09/23/2021	09/24/2021	U
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Metals by Saturated Paste

Calcium	0.803	0.499	meq/L	10	[CALC]	09/23/2021	09/24/2021
Magnesium	ND	0.823	"	"	"	"	"
Sodium	2.15	0.435	"	"	"	"	"

pH in Soil by 9045D

pH	7.19	pH Units	1	B112327	09/23/2021	09/24/2021
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SAR by 20B Saturated Paste

SAR	2.71	SAR	1	B112326	09/23/2021	09/24/2021
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.432	0.00500	mmhos/cm	1	B112328	09/23/2021	09/24/2021
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Total Metals by 6020B

Arsenic	0.706	0.0855	0.25	mg/Kg	5	L576149	09/27/2021	09/28/2021
Barium	35.1	0.042	0.25	"	"	"	"	"
Cadmium	0.0548	0.0259	0.25	"	"	"	"	"
Copper	3.23	0.0806	0.25	"	"	"	"	"

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: 31403177.157.05

Project: KMG - Ale W 29-21

Native-BG02@6'

9/23/2021 2:10:00PM

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

Y109510-06 (Soil)

Total Metals by 6020B

Lead	3.42	0.031	0.25	mg/Kg	5	L576149	09/27/2021	09/28/2021	
Nickel	3.51	0.0633	0.25	"	"	"	"	"	
Selenium	0.138	0.103	0.25	"	"	"	"	"	J
Silver	0.0201	0.0067	0.25	"	"	"	"	"	J
Zinc	14.8	0.534	2.5	"	"	"	"	"	

Total Metals by 7196 A

Chromium, Hexavalent	ND	0.253	0.52	mg/Kg	1	L575982	09/23/2021	09/27/2021	
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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: 31403177.157.05
Project: KMG - Ale W 29-21

Native-BG03@3'
9/23/2021 2:12:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y109510-07 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.199	mg/L	1	B112329	09/23/2021	09/24/2021	U
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Metals by Saturated Paste

Calcium	0.544	0.499	meq/L	10	[CALC]	09/23/2021	09/24/2021
Magnesium	ND	0.823	"	"	"	"	"
Sodium	1.26	0.435	"	"	"	"	"

pH in Soil by 9045D

pH	6.47	pH Units	1	B112327	09/23/2021	09/24/2021
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SAR by 20B Saturated Paste

SAR	1.91	SAR	1	B112326	09/23/2021	09/24/2021
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.179	0.00500	mmhos/cm	1	B112328	09/23/2021	09/24/2021
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Total Metals by 6020B

Arsenic	1.06	0.0855	0.25	mg/Kg	5	L576149	09/27/2021	09/28/2021
Barium	43.7	0.042	0.25	"	"	"	"	"
Cadmium	0.0422	0.0259	0.25	"	"	"	"	"
Copper	3.49	0.0806	0.25	"	"	"	"	"

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: 31403177.157.05

Project: KMG - Ale W 29-21

Native-BG03@3'

9/23/2021 2:12:00PM

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

Y109510-07 (Soil)

Total Metals by 6020B

Lead	4.51	0.031	0.25	mg/Kg	5	L576149	09/27/2021	09/28/2021	
Nickel	4.12	0.0633	0.25	"	"	"	"	"	
Selenium	0.14	0.103	0.25	"	"	"	"	"	J
Silver	0.026	0.0067	0.25	"	"	"	"	"	J
Zinc	17.7	0.534	2.5	"	"	"	"	"	

Total Metals by 7196 A

Chromium, Hexavalent	ND	0.488	1	mg/Kg	2	L575982	09/23/2021	09/27/2021	
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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: 31403177.157.05
Project: KMG - Ale W 29-21

Native-BG03@6'
9/23/2021 2:14:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y109510-08 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.198	mg/L	1	B112329	09/23/2021	09/24/2021	U
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Metals by Saturated Paste

Calcium	0.634	0.499	meq/L	10	[CALC]	09/23/2021	09/24/2021
Magnesium	ND	0.823	"	"	"	"	"
Sodium	1.25	0.435	"	"	"	"	"

pH in Soil by 9045D

pH	7.11	pH Units	1	B112327	09/23/2021	09/24/2021
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SAR by 20B Saturated Paste

SAR	1.78	SAR	1	B112326	09/23/2021	09/24/2021
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.297	0.00500	mmhos/cm	1	B112328	09/23/2021	09/24/2021
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Total Metals by 6020B

Arsenic	1.16	0.0855	0.25	mg/Kg	5	L576149	09/27/2021	09/28/2021
Barium	46.5	0.042	0.25	"	"	"	"	"
Cadmium	0.13	0.0259	0.25	"	"	"	"	"
Copper	5.97	0.0806	0.25	"	"	"	"	"

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: 31403177.157.05

Project: KMG - Ale W 29-21

Native-BG03@6'

9/23/2021 2:14:00PM

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

Y109510-08 (Soil)

Total Metals by 6020B

Lead	8.09	0.031	0.25	mg/Kg	5	L576149	09/27/2021	09/28/2021	
Nickel	4.63	0.0633	0.25	"	"	"	"	"	
Selenium	0.173	0.103	0.25	"	"	"	"	"	J
Silver	0.0574	0.0067	0.25	"	"	"	"	"	J
Zinc	23.6	0.534	2.5	"	"	"	"	"	

Total Metals by 7196 A

Chromium, Hexavalent	ND	0.502	1.03	mg/Kg	2	L575982	09/23/2021	09/27/2021	
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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: 31403177.157.05
Project: KMG - Ale W 29-21

Native-BG04@3'
9/23/2021 2:16:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y109510-09 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.199	mg/L	1	B112329	09/23/2021	09/24/2021	U
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Metals by Saturated Paste

Calcium	0.509	0.499	meq/L	10	[CALC]	09/23/2021	09/24/2021
Magnesium	ND	0.823	"	"	"	"	"
Sodium	1.31	0.435	"	"	"	"	"

pH in Soil by 9045D

pH	7.07	pH Units	1	B112327	09/23/2021	09/24/2021
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SAR by 20B Saturated Paste

SAR	2.04	SAR	1	B112326	09/23/2021	09/24/2021
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.271	0.00500	mmhos/cm	1	B112328	09/23/2021	09/24/2021
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Total Metals by 6020B

Arsenic	1.31	0.0855	0.25	mg/Kg	5	L576149	09/27/2021	09/28/2021
Barium	57.2	0.042	0.25	"	"	"	"	"
Cadmium	0.0742	0.0259	0.25	"	"	"	"	"
Copper	5.15	0.0806	0.25	"	"	"	"	"

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: 31403177.157.05

Project: KMG - Ale W 29-21

Native-BG04@3'

9/23/2021 2:16:00PM

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

Y109510-09 (Soil)

Total Metals by 6020B

Lead	5.72	0.031	0.25	mg/Kg	5	L576149	09/27/2021	09/28/2021	
Nickel	5.52	0.0633	0.25	"	"	"	"	"	
Selenium	0.208	0.103	0.25	"	"	"	"	"	J
Silver	0.038	0.0067	0.25	"	"	"	"	"	J
Zinc	23	0.534	2.5	"	"	"	"	"	

Total Metals by 7196 A

Chromium, Hexavalent	ND	0.492	1.01	mg/Kg	2	L575982	09/23/2021	09/27/2021	
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Jen Pellegrini For Noelle Doyle Mathis, President

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

Brian Sulzberger
Project Number: 31403177.157.05
Project: KMG - Ale W 29-21

Native-BG04@6'
9/23/2021 2:18:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y109510-10 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.200	mg/L	1	B112329	09/23/2021	09/24/2021	U
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Metals by Saturated Paste

Calcium	0.833	0.499	meq/L	10	[CALC]	09/23/2021	09/24/2021
Magnesium	ND	0.823	"	"	"	"	"
Sodium	1.52	0.435	"	"	"	"	"

pH in Soil by 9045D

pH	7.17	pH Units	1	B112327	09/23/2021	09/24/2021
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SAR by 20B Saturated Paste

SAR	1.90	SAR	1	B112326	09/23/2021	09/24/2021
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.342	0.00500	mmhos/cm	1	B112328	09/23/2021	09/24/2021
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Total Metals by 6020B

Arsenic	1.21	0.0855	0.25	mg/Kg	5	L576149	09/27/2021	09/28/2021
Barium	47	0.042	0.25	"	"	"	"	"
Cadmium	0.0962	0.0259	0.25	"	"	"	"	"
Copper	5.31	0.0806	0.25	"	"	"	"	"

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: 31403177.157.05
Project: KMG - Ale W 29-21

Native-BG04@6'

9/23/2021 2:18:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y109510-10 (Soil)

Total Metals by 6020B

Lead	5.79	0.031	0.25	mg/Kg	5	L576149	09/27/2021	09/28/2021	
Nickel	4.79	0.0633	0.25	"	"	"	"	"	
Selenium	0.229	0.103	0.25	"	"	"	"	"	J
Silver	0.038	0.0067	0.25	"	"	"	"	"	J
Zinc	22.5	0.534	2.5	"	"	"	"	"	

Total Metals by 7196 A

Chromium, Hexavalent	ND	0.488	1	mg/Kg	2	L575982	09/23/2021	09/27/2021	
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WSP USA
4600 W. 60th Ave.
Arvada CO 80003

Brian Sulzberger
Project Number: 31403177.157.05
Project: KMG - Ale W 29-21

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
Batch B112321 - EPA 5030 (soil)										
Blank (B112321-BLK1)					Prepared: 09/23/2021 Analyzed: 09/23/2021					
1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							U
Naphthalene	ND	0.00380	"							U
1,3,5-Trimethylbenzene	ND	0.00200	"							U
Benzene	ND	0.00200	"							U
Ethylbenzene	ND	0.00200	"							U
Toluene	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U
Xylenes, total	ND	0.00200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		92.4	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		100	70-130			
Surrogate: 4-Bromofluorobenzene	0.14		"	0.125		108	70-130			

Origins Laboratory, Inc.



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WSP USA
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Arvada CO 80003

Brian Sulzberger
Project Number: 31403177.157.05
Project: KMG - Ale W 29-21

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 B112321 - EPA 5030 (soil)

LCS (B112321-BS1)

Prepared: 09/23/2021 Analyzed: 09/23/2021

1,2,4-Trimethylbenzene	0.0471	0.00200	mg/kg	0.0500		94.1	70-130			
Naphthalene	0.0411	0.0100	"	0.0500		82.3	70-130			
1,3,5-Trimethylbenzene	0.0466	0.00200	"	0.0500		93.1	70-130			
Benzene	0.0486	0.00200	"	0.0500		97.3	70-130			
Ethylbenzene	0.0500	0.00200	"	0.0500		100	70-130			
m,p-Xylene	0.0996	0.00400	"	0.100		99.6	70-130			
o-Xylene	0.0477	0.00200	"	0.0500		95.4	70-130			
Toluene	0.0504	0.00200	"	0.0500		101	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125		91.8	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		102	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		104	70-130			

Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: 31403177.157.05
Project: KMG - Ale W 29-21

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
Batch B112321 - EPA 5030 (soil)										
Matrix Spike (B112321-MS1)		Source: Y109510-01			Prepared: 09/23/2021 Analyzed: 09/23/2021					
1,2,4-Trimethylbenzene	0.0376	0.00200	mg/kg	0.0500	ND	75.2	70-130			
Naphthalene	0.0281	0.0100	"	0.0500	0.00114	53.9	70-130			QM-07
1,3,5-Trimethylbenzene	0.0377	0.00200	"	0.0500	ND	75.5	70-130			
Benzene	0.0479	0.00200	"	0.0500	ND	95.7	70-130			
Ethylbenzene	0.0530	0.00200	"	0.0500	ND	106	70-130			
m,p-Xylene	0.104	0.00400	"	0.100	ND	104	70-130			
o-Xylene	0.0513	0.00200	"	0.0500	ND	103	70-130			
Toluene	0.0450	0.00200	"	0.0500	ND	90.0	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125		90.2	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		102	70-130			
Surrogate: 4-Bromofluorobenzene	0.15		"	0.125		121	70-130			

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Brian Sulzberger
Project Number: 31403177.157.05
Project: KMG - Ale W 29-21

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
Batch B112321 - EPA 5030 (soil)										
Matrix Spike Dup (B112321-MSD1)	Source: Y109510-01				Prepared: 09/23/2021 Analyzed: 09/23/2021					
1,2,4-Trimethylbenzene	0.0378	0.00200	mg/kg	0.0500	ND	75.5	70-130	0.425	20	
Naphthalene	0.0301	0.0100	"	0.0500	0.00114	58.0	70-130	6.94	20	QM-07
1,3,5-Trimethylbenzene	0.0373	0.00200	"	0.0500	ND	74.7	70-130	1.07	20	
Benzene	0.0464	0.00200	"	0.0500	ND	92.8	70-130	3.10	20	
Ethylbenzene	0.0486	0.00200	"	0.0500	ND	97.3	70-130	8.58	20	
m,p-Xylene	0.0951	0.00400	"	0.100	ND	95.1	70-130	8.54	20	
o-Xylene	0.0476	0.00200	"	0.0500	ND	95.1	70-130	7.49	20	
Toluene	0.0427	0.00200	"	0.0500	ND	85.5	70-130	5.11	20	
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125		91.5	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		101	70-130			
Surrogate: 4-Bromofluorobenzene	0.14		"	0.125		115	70-130			

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WSP USA

4600 W. 60th Ave.

Arvada CO 80003

Brian Sulzberger

Project Number: 31403177.157.05

Project: KMG - Ale W 29-21

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 B112322 - EPA 3550B

Blank (B112322-BLK1)

Prepared: 09/23/2021 Analyzed: 09/23/2021

Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	21		"	25.0		85.0	50-150			

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Jen Pellegrini For Noelle Doyle Mathis, President

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4600 W. 60th Ave.

Arvada CO 80003

Brian Sulzberger

Project Number: 31403177.157.05

Project: KMG - Ale W 29-21

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 B112322 - EPA 3550B

LCS (B112322-BS1)

Prepared: 09/23/2021 Analyzed: 09/23/2021

Diesel (C10-C28)	1130	50.0	mg/kg	1000		113	70-130			
Residual Range Organics (C28-C40)	1280	200	"	1000		128	70-130			
Surrogate: o-Terphenyl	54		"	50.0		109	50-150			

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WSP USA

4600 W. 60th Ave.

Arvada CO 80003

Brian Sulzberger

Project Number: 31403177.157.05

Project: KMG - Ale W 29-21

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 B112322 - EPA 3550B

Matrix Spike (B112322-MS1)		Source: Y109510-01			Prepared: 09/23/2021 Analyzed: 09/24/2021					
Diesel (C10-C28)	3590	50.0	mg/kg	1000	1670	193	70-130			QM-07
Residual Range Organics (C28-C40)	2850	200	"	1000	1100	175	70-130			QM-07
Surrogate: o-Terphenyl	68		"	50.0		137	50-150			

Origins Laboratory, Inc.



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WSP USA

4600 W. 60th Ave.

Arvada CO 80003

Brian Sulzberger

Project Number: 31403177.157.05

Project: KMG - Ale W 29-21

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 B112322 - EPA 3550B

Matrix Spike Dup (B112322-MSD1)		Source: Y109510-01			Prepared: 09/23/2021 Analyzed: 09/24/2021					
Diesel (C10-C28)	2800	50.0	mg/kg	1000	1670	113	70-130	24.9	35	
Residual Range Organics (C28-C40)	2210	200	"	1000	1100	111	70-130	25.1	35	
Surrogate: o-Terphenyl	62		"	50.0		124	50-150			

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Jen Pellegrini For Noelle Doyle Mathis, President

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

Brian Sulzberger
Project Number: 31403177.157.05
Project: KMG - Ale W 29-21

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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Classical Chemistry Parameters - 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 B1I2326 - Default Prep Metals

Blank (B1I2326-BLK1)

Prepared: 09/23/2021 Analyzed: 09/24/2021

Calcium PPM	ND	10.0	mg/L							U
SAR	0.00		SAR							U
Magnesium PPM	ND	10.0	mg/L							U
Sodium PPM	ND	10.0	"							U

Batch B1I2329 - Default Prep Metals

Blank (B1I2329-BLK1)

Prepared: 09/23/2021 Analyzed: 09/24/2021

Boron	ND	0.200	mg/L							U
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Arvada CO 80003

Brian Sulzberger
Project Number: 31403177.157.05
Project: KMG - Ale W 29-21

Saturated Paste - Quality Control

Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B1I2327 - NO PREP										
Duplicate (B1I2327-DUP1)		Source: Y109444-01			Prepared: 09/23/2021 Analyzed: 09/24/2021					
pH	7.34		pH Units		7.32			0.273	25	
Batch B1I2328 - NO PREP										
Blank (B1I2328-BLK1)		Prepared: 09/23/2021 Analyzed: 09/24/2021								
Specific Conductance (EC)	ND	0.00500	mmhos/cm							U
Duplicate (B1I2328-DUP1)		Source: Y109444-01			Prepared: 09/23/2021 Analyzed: 09/24/2021					
Specific Conductance (EC)	1.08	0.00500	mmhos/cm		0.909			17.5	25	

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

Brian Sulzberger
Project Number: 31403177.157.05
Project: KMG - Ale W 29-21

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L575976 - 3550B

MSD (L 92375-MSD-L575976)		Source: 92375			Prepared: 09/27/2021 Analyzed: 09/27/2021					
Acenaphthene	0.121	0.0003	mg/Kg	0.166	<0.000300	72.8	30-130	9.5	30	
Dibenz(a,h)anthracene	0.143	0.00036	"	0.166	<0.000360	86.1	30-130	9.5	30	
Pyrene	0.137	0.00059	"	0.166	<0.000590	82.5	30-130	7.5	30	
Naphthalene	0.11	0.000467	"	0.166	<0.000467	66.2	30-130	8.5	30	
Indeno(1,2,3-cd)pyrene	0.122	0.00029	"	0.166	<0.000290	73.4	30-130	9.4	30	
Fluorene	0.129	0.00029	"	0.166	<0.000290	77.7	30-130	10.6	30	
Fluoranthene	0.135	0.00039	"	0.166	<0.000390	81.3	30-130	6.8	30	
2-Methylnaphthalene	0.11	0.00039	"	0.166	<0.000390	66.2	30-130	8.5	30	
Benzo(a)anthracene	0.129	0.00041	"	0.166	<0.000410	77.7	30-130	8	30	
Chrysene	0.132	0.00027	"	0.166	<0.000270	79.5	30-130	7.8	30	
Anthracene	0.129	0.00033	"	0.166	<0.000330	77.7	30-130	7.2	30	
Benzo(a)pyrene	0.153	0.00014	"	0.166	<0.000140	92.1	30-130	7.4	30	
Benzo(b)fluoranthene	0.113	0.00021	"	0.166	<0.000210	68	30-130	14.6	30	
Benzo(k)fluoranthene	0.11	0.00013	"	0.166	<0.000130	66.2	30-130	6.5	30	
1-Methylnaphthalene	0.119	0.00033	"	0.166	<0.000330	71.6	30-130	9.6	30	
Surrogate: Nitrobenzene-d5	76.4		"	0.331	255	76.4	29-110			
Surrogate: 2-Fluorobiphenyl	80.3		"	0.331	256	80.3	33-115			
Surrogate: 4-Terphenyl-d14	94.8		"	0.331	319	94.8	33-122			

MS (L 92375-MS-L575976)		Source: 92375			Prepared: 09/27/2021 Analyzed: 09/27/2021					
Benzo(a)anthracene	0.119	0.00041	mg/Kg	0.165	<0.000410	72.1	30-130			
1-Methylnaphthalene	0.108	0.00033	"	0.165	<0.000330	65.4	30-130			
2-Methylnaphthalene	0.101	0.00039	"	0.165	<0.000390	61.2	30-130			
Acenaphthene	0.11	0.0003	"	0.165	<0.000300	66.6	30-130			
Benzo(a)pyrene	0.142	0.00014	"	0.165	<0.000140	86	30-130			
Naphthalene	0.101	0.000467	"	0.165	<0.000467	61.2	30-130			
Anthracene	0.12	0.00033	"	0.165	<0.000330	72.7	30-130			

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: 31403177.157.05
Project: KMG - Ale W 29-21

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L575976 - 3550B

MS (L 92375-MS-L575976)		Source: 92375			Prepared: 09/27/2021 Analyzed: 09/27/2021					
Indeno(1,2,3-cd)pyrene	0.111	0.00029	mg/Kg	0.165	<0.000290	67.2	30-130			
Fluorene	0.116	0.00029	"	0.165	<0.000290	70.3	30-130			
Fluoranthene	0.126	0.00039	"	0.165	<0.000390	76.3	30-130			
Dibenz(a,h)anthracene	0.13	0.00036	"	0.165	<0.000360	78.7	30-130			
Chrysene	0.122	0.00027	"	0.165	<0.000270	73.9	30-130			
Benzo(k)fluoranthene	0.103	0.00013	"	0.165	<0.000130	62.4	30-130			
Benzo(b)fluoranthene	0.0976	0.00021	"	0.165	<0.000210	59.1	30-130			
Pyrene	0.127	0.00059	"	0.165	<0.000590	76.9	30-130			
Surrogate: 2-Fluorobiphenyl	73.3		"	0.33	256	73.3	33-115			
Surrogate: 4-Terphenyl-d14	91.8		"	0.33	319	91.8	33-122			
Surrogate: Nitrobenzene-d5	70		"	0.33	255	70	29-110			

LCS (LCS-L575976)		Prepared: 09/27/2021 Analyzed: 09/27/2021								
Naphthalene	0.115	0.000467	mg/Kg	0.167		68.8	30-130			
Benzo(a)pyrene	0.151	0.00014	"	0.167		90.4	30-130			
2-Methylnaphthalene	0.114	0.00039	"	0.167		68.2	30-130			
Acenaphthene	0.122	0.0003	"	0.167		73	30-130			
Anthracene	0.129	0.00033	"	0.167		77.2	30-130			
Benzo(a)anthracene	0.127	0.00041	"	0.167		76	30-130			
Benzo(b)fluoranthene	0.107	0.00021	"	0.167		64	30-130			
Chrysene	0.129	0.00027	"	0.167		77.2	30-130			
Fluoranthene	0.136	0.00039	"	0.167		81.4	30-130			
1-Methylnaphthalene	0.122	0.00033	"	0.167		73	30-130			
Indeno(1,2,3-cd)pyrene	0.108	0.00029	"	0.167		64.6	30-130			
Benzo(k)fluoranthene	0.0989	0.00013	"	0.167		59.2	30-130			
Pyrene	0.135	0.00059	"	0.167		80.8	30-130			
Fluorene	0.128	0.00029	"	0.167		76.6	30-130			

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

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

Brian Sulzberger
Project Number: 31403177.157.05
Project: KMG - Ale W 29-21

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch L575976 - 3550B										
LCS (LCS-L575976)					Prepared: 09/27/2021 Analyzed: 09/27/2021					
Dibenz(a,h)anthracene	0.128	0.00036	mg/Kg	0.167		76.6	30-130			
Surrogate: 2-Fluorobiphenyl	85.5		"	0.333		85.5	33-115			
Surrogate: 4-Terphenyl-d14	101		"	0.333		101	33-122			
Surrogate: Nitrobenzene-d5	81		"	0.333		81	29-110			
LRB (LRB-L575976)					Prepared: 09/27/2021 Analyzed: 09/27/2021					
Fluorene	ND	0.00067	mg/Kg				-			
Fluoranthene	ND	0.00067	"				-			
Dibenz(a,h)anthracene	ND	0.00067	"				-			
Indeno(1,2,3-cd)pyrene	ND	0.00067	"				-			
Chrysene	ND	0.00067	"				-			
Benzo(k)fluoranthene	0.000444	0.00067	"				-			J
Benzo(b)fluoranthene	0.000318	0.00067	"				-			J
Benzo(a)anthracene	ND	0.00067	"				-			
Naphthalene	ND	0.00067	"				-			
Anthracene	ND	0.00067	"				-			
Pyrene	ND	0.00067	"				-			
Acenaphthene	ND	0.00067	"				-			
1-Methylnaphthalene	ND	0.00067	"				-			
2-Methylnaphthalene	ND	0.00067	"				-			
Benzo(a)pyrene	ND	0.00067	"				-			
Surrogate: 4-Terphenyl-d14	89.4		"	0.333		89.4	33-122			
Surrogate: Nitrobenzene-d5	69.6		"	0.333		69.6	29-110			
Surrogate: 2-Fluorobiphenyl	73.8		"	0.333		73.8	33-115			

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: 31403177.157.05
Project: KMG - Ale W 29-21

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L576149 - 3050B

MSD (L 92396-MSD-L576149)		Source: 92396			Prepared: 09/27/2021 Analyzed: 09/28/2021					
Copper	22.7	0.0806	mg/Kg	2.44	21.2	61	75-125	18.7	80	*
Arsenic	3.04	0.0855	"	2.44	0.55	102	75-125	33.3	80	
Lead	18	0.031	"	2.44	11.6	262	75-125	20.8	80	*
Nickel	17.1	0.0633	"	2.44	14.8	94	75-125	17.8	80	
Selenium	3.15	0.103	"	4.89	0.435	56	75-125	0.6	80	*
Silver	0.527	0.0067	"	0.489	0.0679	108	75-125	0.9	80	
Zinc	93.3	0.534	"	24.4	63.3	123	75-125	12.4	80	
Cadmium	0.517	0.0259	"	0.489	0.0672	106	75-125	1.5	80	
Barium	147	0.042	"	4.89	130	348	75-125	10	80	*
MS (L 92396-MS-L576149)		Source: 92396			Prepared: 09/27/2021 Analyzed: 09/29/2021					
Arsenic	2.17	0.0855	mg/Kg	2.43	0.55	67	75-125			*
Nickel	14.3	0.0633	"	2.43	14.8	NR	75-125			*
Selenium	3.17	0.103	"	4.86	0.435	56	75-125			*
Silver	0.522	0.0067	"	0.486	0.0679	107	75-125			
Zinc	82.4	0.534	"	24.3	63.3	79	75-125			
Copper	18.8	0.0806	"	2.43	21.2	NR	75-125			*
Cadmium	0.509	0.0259	"	0.486	0.0672	105	75-125			
Lead	14.6	0.031	"	2.43	11.6	123	75-125			
Barium	133	0.042	"	4.86	130	62	75-125			*
LCS (LCS-L576149)		Prepared: 09/27/2021 Analyzed: 09/28/2021								
Nickel	2.5	0.0633	mg/Kg	2.5		100	80-120			
Zinc	23.7	0.534	"	25		95	80-120			
Selenium	4.82	0.103	"	5		96	80-120			
Lead	2.44	0.031	"	2.5		98	80-120			
Copper	2.37	0.0806	"	2.5		95	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: 31403177.157.05
Project: KMG - Ale W 29-21

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L576149 - 3050B

LCS (LCS-L576149)

Prepared: 09/27/2021 Analyzed: 09/28/2021

Cadmium	0.473	0.0259	mg/Kg	0.5		95	80-120			
Barium	4.68	0.042	"	5		94	80-120			
Arsenic	2.46	0.0855	"	2.5		98	80-120			
Silver	0.498	0.0067	"	0.5		100	80-120			

LRB (LRB-L576149)

Prepared: 09/27/2021 Analyzed: 09/28/2021

Silver	ND	0.25	mg/Kg				-			
Lead	ND	0.25	"				-			
Copper	ND	0.25	"				-			
Cadmium	ND	0.25	"				-			
Barium	ND	0.25	"				-			
Arsenic	ND	0.25	"				-			
Nickel	ND	0.25	"				-			
Selenium	ND	0.25	"				-			
Zinc	ND	2.5	"				-			

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: 31403177.157.05
Project: KMG - Ale W 29-21

Total Metals by 7196 A - Quality Control
Waypoint Analytical, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L575982 -

DUP (L 92379-DUP)		Source: Y109510-02			Prepared: Analyzed: 09/27/2021					
Chromium, Hexavalent	ND	2.44	mg/Kg		<5.00	-		0	20	
MS (L 92379-MS)		Source: Y109510-02			Prepared: Analyzed: 09/27/2021					
Chromium, Hexavalent	6.09	2.44	mg/Kg	7.79	<2.44	78	75-125			
LCS (LCS)					Prepared: Analyzed: 09/27/2021					
Chromium, Hexavalent	7.64	0.244	mg/Kg	8		96	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: 31403177.157.05
Project: KMG - Ale W 29-21

Total Metals by 7196A - Quality Control Waypoint Analytical, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch L575959 -										
DUP (L 91907-DUP)		Source: 91907			Prepared: Analyzed: 09/27/2021					
Chromium, Hexavalent	ND	0.253	mg/Kg		<0.520	-	0	20		
MS (L 91907-MS)		Source: 91907			Prepared: Analyzed: 09/27/2021					
Chromium, Hexavalent	5.11	0.244	mg/Kg	7.75	<0.244	66	75-125			*
LRB (LRB)					Prepared: Analyzed: 09/27/2021					
Chromium, Hexavalent	ND	0.5	mg/Kg				-			

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: 31403177.157.05

Project: KMG - Ale W 29-21

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.

B Analyte detected in associated method blank.

* 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.

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



February 28, 2022

WSP USA

Brian Sulzberger

4600 W. 60th Ave.

Arvada

CO

80003

Project Name - KMG - Ale W 29-21 WH

Project Number - 31403177.157

Attached are your analytical results for KMG - Ale W 29-21 WH received by Origins Laboratory, Inc. February 15, 2022. This project is associated with Origins project number Y202334-01.

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: 31403177.157

Project: KMG - Ale W 29-21 WH

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
N03@5'	Y202334-01	Soil	February 15, 2022 13:20	02/15/2022 16:45
E02@5'	Y202334-02	Soil	February 15, 2022 13:22	02/15/2022 16:45
S02@5'	Y202334-03	Soil	February 15, 2022 13:24	02/15/2022 16:45
W02@5'	Y202334-04	Soil	February 15, 2022 13:26	02/15/2022 16:45

Origins Laboratory, Inc.



Jen Pellegrini For Jordan A. Merrill, Project Manager

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.

Page 3 of 10

WSP USA

4600 W. 60th Ave.

Arvada

CO

80003

Brian Sulzberger

Project Number: 31403177.157

Project: KMG - Ale W 29-21 WH

Origins Laboratory

Sample Receipt Checklist

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

Origins Work Order: 17202334

Client: WSP

Client Project ID: Ale W 29-21 WH

Checklist Completed by: SG

Shipped Via: HD

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

Date/time completed: 2/15/22

Airbill #: N/A

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

☐ Water

☐ Other:

(Describe)

Cooler Number/Temperature: 1, 5.6 °C 1 °C 1 °C 1 °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 ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are custody seals present on cooler? (If so, document in comments if they are signed and dated, broken or intact)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Are custody seals present on each sample container? (If so, document in comments if they are signed and dated, broken or intact)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided ⁽¹⁾ ?	<input 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 type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input 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 type="checkbox"/>	<input checked="" 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 subcontracted 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 type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Additional Comments (if any):				

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

Reviewed by JP (Project Manager)

2/16/22
Date/Time Reviewed

Origins Laboratory, Inc.

Jefe Pellegrini

Jen Pellegrini For Jordan A. Merrill, Project Manager

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: 31403177.157

Project: KMG - Ale W 29-21 WH

N03@5'

2/15/2022 1:20:00PM

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

Y202334-01 (Soil)

Total Metals by 6020B

Lead	113	0.031	0.25	mg/Kg	5	L600453	02/18/2022	02/22/2022
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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 Jordan A. Merrill, Project Manager

WSP USA

4600 W. 60th Ave.

Arvada CO 80003

Brian Sulzberger

Project Number: 31403177.157

Project: KMG - Ale W 29-21 WH

E02@5'

2/15/2022 1:22:00PM

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

Y202334-02 (Soil)

Total Metals by 6020B

Selenium	0.16	0.103	0.25	mg/Kg	5	L600453	02/18/2022	02/22/2022	J
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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 Jordan A. Merrill, Project Manager

WSP USA

4600 W. 60th Ave.

Arvada CO 80003

Brian Sulzberger

Project Number: 31403177.157

Project: KMG - Ale W 29-21 WH

S02@5'

2/15/2022 1:24:00PM

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

Y202334-03 (Soil)

Total Metals by 6020B

Selenium	0.162	0.103	0.25	mg/Kg	5	L600453	02/18/2022	02/22/2022	J
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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 Jordan A. Merrill, Project Manager

WSP USA

4600 W. 60th Ave.

Arvada CO 80003

Brian Sulzberger

Project Number: 31403177.157

Project: KMG - Ale W 29-21 WH

W02@5'

2/15/2022 1:26:00PM

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

Y202334-04 (Soil)

Total Metals by 6020B

Selenium	0.145	0.103	0.25	mg/Kg	5	L600453	02/18/2022	02/22/2022	J
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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 Jordan A. Merrill, Project Manager

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

Brian Sulzberger
Project Number: 31403177.157
Project: KMG - Ale W 29-21 WH

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
Batch L600453 - 3050B										
MSD (L 89543-MSD-L600453)			Source: 89543		Prepared: 02/18/2022 Analyzed: 02/26/2022					
Selenium	3.59	0.103	mg/Kg	4.74	0.226	76	75-125	5.9	80	
Lead	11.2	0.031	"	2.37	17.7	NR	75-125	21.5	80	*
MS (L 89543-MS-L600453)			Source: 89543		Prepared: 02/18/2022 Analyzed: 02/26/2022					
Selenium	3.81	0.103	mg/Kg	4.91	0.226	78	75-125			
Lead	13.9	0.031	"	2.45	17.7	NR	75-125			*
LCS (LCS-L600453)			Prepared: 02/18/2022 Analyzed: 02/22/2022							
Selenium	4.85	0.103	mg/Kg	5		97	80-120			
Lead	2.42	0.031	"	2.5		97	80-120			
LRB (LRB-L600453)			Prepared: 02/18/2022 Analyzed: 02/24/2022							
Selenium	ND	0.25	mg/Kg				-			
Lead	ND	0.25	"				-			

Origins Laboratory, Inc.



Jen Pellegrini For Jordan A. Merrill, Project Manager

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: 31403177.157

Project: KMG - Ale W 29-21 WH

Notes and Definitions

J Estimated Value. Analyte below reported quantitation limit.

* 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.

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 Jordan A. Merrill, Project Manager



March 08, 2022

WSP USA

Brian Sulzberger

4600 W. 60th Ave.

Arvada

CO

80003

Project Name - KMG - Ale W 29-21 WH

Project Number - 31403177.157

Attached are your analytical results for KMG - Ale W 29-21 WH received by Origins Laboratory, Inc. March 02, 2022. This project is associated with Origins project number Y203055-01.

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.

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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: 31403177.157

Project: KMG - Ale W 29-21 WH

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
N04@5'	Y203055-01	Soil	March 2, 2022 11:40	03/02/2022 13:12

Origins Laboratory, Inc.



Jen Pellegrini For Jordan A. Merrill, Project Manager

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Page 3 of 7

WSP USA

4600 W. 60th Ave.

Arvada

CO

80003

Brian Sulzberger

Project Number: 31403177.157

Project: KMG - Ale W 29-21 WH

Origins Laboratory

Sample Receipt Checklist

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

Origins Work Order: 1203055

Client: WSP

Client Project ID: Ale W 29-21

Checklist Completed by: SG

Shipped Via: HD

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

Date/time completed: 3/12/22

Airbill #: N/A

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

☐ Water

☐ Other:

(Describe)

Cooler Number/Temperature: 1, 6.1 °C

1 °C

1 °C

1 °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 ⁽¹⁾ ?	<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 ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?		<input checked="" type="checkbox"/>		
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	<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 ⁽¹⁾ ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)(pH <2 for samples preserved with HNO ₃ , HCL, H ₂ SO ₄) / (pH >10 for samples preserved with NaAsO ₂ +NaOH, ZnAc+NaOH)			<input checked="" type="checkbox"/>	
Additional Comments (if any):				

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

Reviewed by (Project Manager) jm

3-3-22
Date/Time Reviewed

Origins Laboratory, Inc.

Jefe Pellegrini

Jen Pellegrini For Jordan A. Merrill, Project Manager

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WSP USA

4600 W. 60th Ave.

Arvada CO 80003

Brian Sulzberger

Project Number: 31403177.157

Project: KMG - Ale W 29-21 WH

N04@5'

3/2/2022 11:40:00AM

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

Y203055-01 (Soil)

Total Metals by 6020B

Lead	4.73	0.031	0.25	mg/Kg	5	L602812	03/03/2022	03/07/2022
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Origins Laboratory, Inc.



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Jen Pellegrini For Jordan A. Merrill, Project Manager

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

Brian Sulzberger
Project Number: 31403177.157
Project: KMG - Ale W 29-21 WH

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
Batch L602812 - 3050B										
MSD (L 85519-MSD-L602812)			Source: Y203055-01		Prepared: 03/03/2022 Analyzed: 03/07/2022					
Lead	7.14	0.031	mg/Kg	2.48	4.73	97	75-125	0.2	80	
MS (L 85519-MS-L602812)			Source: Y203055-01		Prepared: 03/03/2022 Analyzed: 03/07/2022					
Lead	7.12	0.031	mg/Kg	2.45	4.73	97	75-125			
LCS (LCS-L602812)			Prepared: 03/03/2022 Analyzed: 03/07/2022							
Lead	2.24	0.031	mg/Kg	2.5		90	80-120			
LRB (LRB-L602812)			Prepared: 03/03/2022 Analyzed: 03/07/2022							
Lead	ND	0.25	mg/Kg				-			

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Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

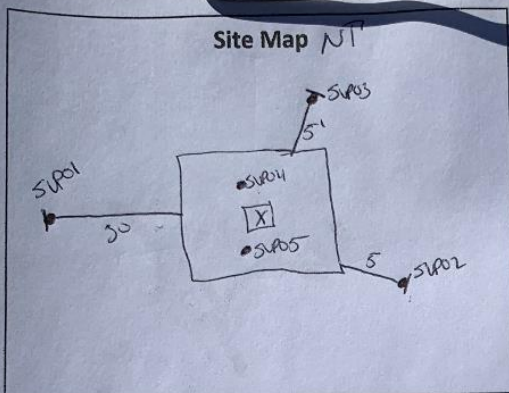
All soil results are reported on a wet weight basis.

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Jen Pellegrini For Jordan A. Merrill, Project Manager



Site Information	
Site	Alle W 29-21
Date	10-4-2021
Sampler Name	Vendy Poreas
GEM 5000	6553

GEM Calibrations	
Calibration Gas	Time
Pure N2	1325
Fresh Air	1327
50 ppm CO, 10 ppm H2S	1330
15% CH4, 15% CO2, Bal N2	1332

Bump Test						
Time		CH4 (%)	CO2 (%)	O2 (%)	H2S (PPM)	CO (PPM)
1455	Calibration Gas	15.0	15.0	0.0	0	0
	Readings	15.2	15.1	0.0	0	0

GEM Field Readings							
Well	CH4 (%)	CO2 (%)	O2 (%)	H2S (PPM)	CO (PPM)	Time	Comments
SUP01	0.0	0.6	20.3	0	0	1503	100 seconds
SUP02	0.0	0.5	20.4	0	0	1507	100 seconds
SUP03	0.0	0.6	20.2	0	0	1511	100 seconds
SUP04	0.0	0.4	20.3	0	0	1514	100 seconds
SUP05	0.0	0.3	20.3	0	0	1517	100 seconds

Site Notes and Observations (Surrounding vegetation, stressed or lack of vegetation, etc.)