

TABLE 1
SOIL SAMPLE ANALYTICAL AND FIELD RESULTS
STATE 30-16 WELLHEAD
WELD COUNTY, COLORADO
KERR-MCGEE OIL & GAS ONSHORE, LP

Analyte	Groundwater Protection Values (GPV)	B01@6'	Native-BG01@3'	Native-BG01@6'	Native-BG02@3'	Native-BG02@6'
		8/17/2021	8/17/2021	8/17/2021	8/17/2021	8/17/2021
Photoionization Detector Reading						
PID (ppm)	NA	0.5	0.0	0.0	0.0	0.0
Total Petroleum Hydrocarbons by USEPA Method 8015D						
TPH-GRO* (mg/kg)	500	<0.200	NA	NA	NA	NA
TPH-DRO* (mg/kg)	500	<25.0	NA	NA	NA	NA
TPH-RRO* (mg/kg)	500	<100	NA	NA	NA	NA
Soil Suitability for Reclamation						
EC (mmhos/cm)	4	3.05	1.19	1.00	0.488	0.393
Sodium Adsorption Ratio (SAR)	6	0.943	2.38	1.33	1.12	0.611
pH, Lab (pH units)	6-8.3	7.82	8.10	7.98	8.23	8.43
Boron (mg/L)	2	0.741	0.853	0.517	0.836	0.339
Soil Suitability for Reclamation (GPV for Soil)						
Benzene (mg/kg)	0.0026	<0.00200	NA	NA	NA	NA
Toluene (mg/kg)	0.69	<0.00200	NA	NA	NA	NA
Ethylbenzene (mg/kg)	0.78	<0.00200	NA	NA	NA	NA
Xylenes, Total (mg/kg)	9.9	<0.00200	NA	NA	NA	NA
Naphthalene (mg/kg)	0.0038	<0.00380	NA	NA	NA	NA
Metals in Soils (GPV for Soil)						
Arsenic (mg/Kg)	0.29	NA	5.25	3.69	2.99	3.18
Barium (mg/Kg)	82	NA	170	322	170	267
Cadmium (mg/Kg)	0.38	NA	0.241	0.23	0.205	0.187
Chromium, Hexavalent (mg/Kg)	0.00067	NA	<0.5	<0.5	<0.517	<0.514
Copper (mg/Kg)	46	NA	16.5	15.4	14.3	14.9
Lead (mg/Kg)	14	NA	42.9	25.1	11.7	11.9
Nickel (mg/Kg)	26	NA	16.2	14.5	15.9	16
Selenium (mg/Kg)	0.26	NA	0.457	0.538	0.415	0.359
Silver (mg/Kg)	0.8	NA	0.0683	0.0811	0.0586	0.0573
Zinc (mg/Kg)	370	NA	149	151	56.4	58.8

TABLE 1 (Continued)
SOIL SAMPLE ANALYTICAL AND FIELD RESULTS
STATE 30-16 WELLHEAD
WELD COUNTY, COLORADO
KERR-MCGEE OIL & GAS ONSHORE, LP

Analyte	Groundwater Protection Values (GPV)	Native-BG03@3'	Native-BG03@6'	Native-BG04@3'	Native-BG04@6'
		8/17/2021	8/17/2021	8/17/2021	8/17/2021
Photoionization Detector Reading					
PID (ppm)	NA	0.0	0.0	0.0	0.0
Total Petroleum Hydrocarbons by USEPA Method 8015D					
TPH-GRO* (mg/kg)	500	NA	NA	NA	NA
TPH-DRO* (mg/kg)	500	NA	NA	NA	NA
TPH-RRO* (mg/kg)	500	NA	NA	NA	NA
Soil Suitability for Reclamation					
EC (mmhos/cm)	4	1.28	1.13	2.40	2.08
Sodium Adsorption Ratio (SAR)	6	1.13	1.63	4.16	4.30
pH, Lab (pH units)	6-8.3	7.97	8.03	8.17	8.20
Boron (mg/L)	2	0.700	0.724	0.853	1.78
Soil Suitability for Reclamation (GPV for Soil)					
Benzene (mg/kg)	0.0026	NA	NA	NA	NA
Toluene (mg/kg)	0.69	NA	NA	NA	NA
Ethylbenzene (mg/kg)	0.78	NA	NA	NA	NA
Xylenes, Total (mg/kg)	9.9	NA	NA	NA	NA
Naphthalene (mg/kg)	0.0038	NA	NA	NA	NA
Metals in Soils (GPV for Soil)					
Arsenic (mg/Kg)	0.29	2.79	3.32	2.73	3.29
Barium (mg/Kg)	82	227	171	114	382
Cadmium (mg/Kg)	0.38	0.212	0.228	0.193	0.185
Chromium, Hexavalent (mg/Kg)	0.00067	<0.506	<0.52	<0.505	<0.503
Copper (mg/Kg)	46	12.8	14	12.9	11.9
Lead (mg/Kg)	14	31.1	14.8	10.2	9.85
Nickel (mg/Kg)	26	12.7	15.8	13.9	13.3
Selenium (mg/Kg)	0.26	0.443	0.48	0.386	0.423
Silver (mg/Kg)	0.8	0.0503	0.0598	0.0478	0.0433
Zinc (mg/Kg)	370	161	142	49.9	47.9

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 allowable level
*Allowable level for TPH is 500 mg/kg for combined GRO, DRO, and RRO

TABLE 2
PHOTOIONIZATION DETECTOR FIELD RESULTS
STATE 30-16 WELLHEAD
WELD COUNTY, COLORADO
KERR-MCGEE OIL & GAS ONSHORE, LP

Screening Location	Location	Date	PID Reading (ppm)
N01@5'	Wellhead Excavation	8/17/2021	0.0
E01@5'	Wellhead Excavation	8/17/2021	0.0
S01@5'	Wellhead Excavation	8/17/2021	0.0
W01@5'	Wellhead Excavation	8/17/2021	0.0
B01@6'	Wellhead Excavation	8/17/2021	0.5
PH01	Flowline Screening	8/17/2021	0.0
PH02	Flowline Screening	8/17/2021	0.0
PH03	Flowline Screening	8/17/2021	0.0
PH04	Flowline Screening	8/17/2021	0.0
PH05	Flowline Screening	8/17/2021	0.0
Native-BG01@3'	Background	8/17/2021	0.0
Native-BG01@6'	Background	8/17/2021	0.0
Native-BG02@3'	Background	8/17/2021	0.0
Native-BG02@6'	Background	8/17/2021	0.0
Native-BG03@3'	Background	8/17/2021	0.0
Native-BG03@6'	Background	8/17/2021	0.0
Native-BG04@3'	Background	8/17/2021	0.0
Native-BG04@6'	Background	8/17/2021	0.0

Notes:

PID - Photoionization Detector

ppm - parts per million

NA - Not analyzed with PID; Sampled for inorganic parameters only.



August 23, 2021

WSP USA

Brian Sulzberger

4600 W. 60th Ave.

Arvada

CO

80003

Project Name - KMG - State 30-16

Project Number - 31403177.98.05

Attached are your analytical results for KMG - State 30-16 received by Origins Laboratory, Inc. August 17, 2021. This project is associated with Origins project number Y108375-01.

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: 31403177.98.05

Project: KMG - State 30-16

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
B01@6'	Y108375-01	Soil	August 17, 2021 16:00	08/17/2021 17:35
Native-BG01@3'	Y108375-02	Soil	August 17, 2021 16:02	08/17/2021 17:35
Native-BG01@6'	Y108375-03	Soil	August 17, 2021 16:04	08/17/2021 17:35
Native-BG02@3'	Y108375-04	Soil	August 17, 2021 16:06	08/17/2021 17:35
Native-BG02@6'	Y108375-05	Soil	August 17, 2021 16:08	08/17/2021 17:35
Native-BG03@3'	Y108375-06	Soil	August 17, 2021 16:10	08/17/2021 17:35
Native-BG03@6'	Y108375-07	Soil	August 17, 2021 16:12	08/17/2021 17:35
Native-BG04@3'	Y108375-08	Soil	August 17, 2021 16:14	08/17/2021 17:35
Native-BG04@6'	Y108375-09	Soil	August 17, 2021 16:16	08/17/2021 17:35

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.

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80003

Brian Sulzberger

Project Number: 31403177.98.05

Project: KMG - State 30-16

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ORIGINS
LABORATORY, INC

408375

www.originslaboratory.com

page | of

Client: WSP
Address: 4600 W 60th Ave
Arvada CO 80003
Telephone Number: _____
Email Address: KMG Group
Project Manager: Brian Sulzberger
Project Name: State 30-16
Project Number: 31403177.98.05
Samples Collected By: PS

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative			Matrix			Analysis	Sample Instructions
				Unpreserved	HCl	HNO ₃	Groundwater	Soil	Air Summa Canister #		
Bole	8-17-21	1600	2	X						GBTEX+N	Geo pattern
Native-Bole		1602	2	X						X	
Native-Bole		1604	2	X						X	
Native-Bole		1606	2	X						X	
Native-Bole		1608	2	X						X	
Native-Bole		1610	2	X						X	
Native-Bole		1612	2	X						X	
Native-Bole		1614	2	X						X	
Native-Bole		1616	2	X						X	
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WSP USA

4600 W. 60th Ave.

Arvada

CO

80003

Brian Sulzberger

Project Number: 31403177.98.05

Project: KMG - State 30-16

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: Y108375

Client: _____

Client Project ID: _____

Checklist Completed by: JAM

Shipped Via: _____

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

Date/time completed: 8/17/21

Airbill #: _____

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

Cooler Number/Temperature: 1 / 20.2 °C _____ / _____ °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"/>		<u>Rush</u>
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"/>	<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"/>	<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) JAM

Date/Time Reviewed 8/17/21

Origins Laboratory, Inc.

Jordan A. Merrill

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

Brian Sulzberger
Project Number: 31403177.98.05
Project: KMG - State 30-16

B01@6'

8/17/2021 4:00:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y108375-01 (Soil)

Boron (DTPA Sorbitol)

Boron	0.741	0.200	mg/L	1	B1H1802	08/18/2021	08/18/2021	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B1H1726	08/17/2021	08/18/2021	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	86.9 %	50-150			"	"	"	
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GBTEX+TMBs

Naphthalene	ND	0.00380	mg/kg	1	B1H1721	08/17/2021	08/17/2021	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	103 %	70-130			"	"	"	
Surrogate: Toluene-d8	100 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	101 %	70-130			"	"	"	

Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: 31403177.98.05
Project: KMG - State 30-16

B01@6'

8/17/2021 4:00:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y108375-01 (Soil)

Metals by Saturated Paste

Calcium	28.9	0.0499	meq/L	1	[CALC]	08/19/2021	08/19/2021
Magnesium	11.4	0.0823	"	"	"	"	"
Sodium	4.23	0.0435	"	"	"	"	"

pH in Soil by 9045D

pH	7.82		pH Units	1	B1H1904	08/19/2021	08/19/2021
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SAR by 20B Saturated Paste

SAR	0.943		SAR	1	B1H1912	08/19/2021	08/19/2021
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	3.05	0.00500	mmhos/cm	1	B1H1908	08/19/2021	08/19/2021
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Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: 31403177.98.05
Project: KMG - State 30-16

Native-BG01@3'

8/17/2021 4:02:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y108375-02 (Soil)

Boron (DTPA Sorbitol)

Boron	0.853	0.198	mg/L	1	B1H1802	08/18/2021	08/18/2021
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Metals by Saturated Paste

Calcium	3.98	0.0499	meq/L	"	[CALC]	08/19/2021	08/19/2021
Magnesium	3.68	0.0823	"	"	"	"	"
Sodium	4.65	0.0435	"	"	"	"	"

pH in Soil by 9045D

pH	8.10		pH Units	1	B1H1904	08/19/2021	08/19/2021
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SAR by 20B Saturated Paste

SAR	2.38		SAR	1	B1H1912	08/19/2021	08/19/2021
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	1.19	0.00500	mmhos/cm	1	B1H1908	08/19/2021	08/19/2021
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Total Metals by 6020B

Arsenic	5.25	0.0855	0.25	mg/Kg	5	L570028	08/19/2021	08/22/2021
Barium	170	0.042	0.25	"	"	"	"	"
Cadmium	0.241	0.0259	0.25	"	"	"	"	"
Copper	16.5	0.0806	0.25	"	"	"	"	"

Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: 31403177.98.05
Project: KMG - State 30-16

Native-BG01@3'

8/17/2021 4:02:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.
Y108375-02 (Soil)

Total Metals by 6020B

Lead	42.9	0.031	0.25	mg/Kg	5	L570028	08/19/2021	08/22/2021	
Nickel	16.2	0.0633	0.25	"	"	"	"	"	
Selenium	0.457	0.103	0.25	"	"	"	"	"	
Silver	0.0683	0.0067	0.25	"	"	"	"	"	J
Zinc	149	0.534	2.5	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L570100	08/17/2021	08/20/2021	
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Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: 31403177.98.05
Project: KMG - State 30-16

Native-BG01@6'

8/17/2021 4:04:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y108375-03 (Soil)

Boron (DTPA Sorbitol)

Boron	0.517	0.199	mg/L	1	B1H1901	08/19/2021	08/19/2021
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Metals by Saturated Paste

Calcium	5.24	0.0499	meq/L	"	[CALC]	08/19/2021	08/19/2021
Magnesium	2.93	0.0823	"	"	"	"	"
Sodium	2.68	0.0435	"	"	"	"	"

pH in Soil by 9045D

pH	7.98	pH Units	1	B1H1904	08/19/2021	08/19/2021
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SAR by 20B Saturated Paste

SAR	1.33	SAR	1	B1H1912	08/19/2021	08/19/2021
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	1.00	0.00500	mmhos/cm	1	B1H1908	08/19/2021	08/19/2021
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Total Metals by 6020B

Arsenic	3.69	0.0855	0.25	mg/Kg	5	L570028	08/19/2021	08/22/2021
Barium	322	0.042	0.25	"	"	"	"	"
Cadmium	0.23	0.0259	0.25	"	"	"	"	"
Copper	15.4	0.0806	0.25	"	"	"	"	"

Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: 31403177.98.05
Project: KMG - State 30-16

Native-BG01@6'**8/17/2021 4:04:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.
Y108375-03 (Soil)**Total Metals by 6020B**

Lead	25.1	0.031	0.25	mg/Kg	5	L570028	08/19/2021	08/22/2021	
Nickel	14.5	0.0633	0.25	"	"	"	"	"	
Selenium	0.538	0.103	0.25	"	"	"	"	"	
Silver	0.0811	0.0067	0.25	"	"	"	"	"	J
Zinc	151	0.534	2.5	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L570100	08/17/2021	08/20/2021	
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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.

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

Brian Sulzberger
Project Number: 31403177.98.05
Project: KMG - State 30-16

Native-BG02@3'

8/17/2021 4:06:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y108375-04 (Soil)

Boron (DTPA Sorbitol)

Boron	0.836	0.199	mg/L	1	B1H1901	08/19/2021	08/19/2021
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Metals by Saturated Paste

Calcium	1.40	0.0499	meq/L	"	[CALC]	08/19/2021	08/19/2021
Magnesium	1.76	0.0823	"	"	"	"	"
Sodium	1.41	0.0435	"	"	"	"	"

pH in Soil by 9045D

pH	8.23		pH Units	1	B1H1905	08/19/2021	08/19/2021
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SAR by 20B Saturated Paste

SAR	1.12		SAR	1	B1H1913	08/19/2021	08/19/2021
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.488	0.00500	mmhos/cm	1	B1H1909	08/19/2021	08/19/2021
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Total Metals by 6020B

Arsenic	2.99	0.0855	0.25	mg/Kg	5	L570028	08/19/2021	08/22/2021
Barium	170	0.042	0.25	"	"	"	"	"
Cadmium	0.205	0.0259	0.25	"	"	"	"	"
Copper	14.3	0.0806	0.25	"	"	"	"	"

Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: 31403177.98.05
Project: KMG - State 30-16

Native-BG02@3'

8/17/2021 4:06:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.
Y108375-04 (Soil)

Total Metals by 6020B

Lead	11.7	0.031	0.25	mg/Kg	5	L570028	08/19/2021	08/22/2021	
Nickel	15.9	0.0633	0.25	"	"	"	"	"	
Selenium	0.415	0.103	0.25	"	"	"	"	"	
Silver	0.0586	0.0067	0.25	"	"	"	"	"	J
Zinc	56.4	0.534	2.5	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.252	0.517	mg/Kg	1	L570100	08/17/2021	08/20/2021	
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Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: 31403177.98.05
Project: KMG - State 30-16

Native-BG02@6'

8/17/2021 4:08:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y108375-05 (Soil)

Boron (DTPA Sorbitol)

Boron	0.339	0.199	mg/L	1	B1H1901	08/19/2021	08/19/2021
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Metals by Saturated Paste

Calcium	1.04	0.0499	meq/L	"	[CALC]	08/19/2021	08/19/2021
Magnesium	1.90	0.0823	"	"	"	"	"
Sodium	0.740	0.0435	"	"	"	"	"

pH in Soil by 9045D

pH	8.43		pH Units	1	B1H1905	08/19/2021	08/19/2021
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SAR by 20B Saturated Paste

SAR	0.611		SAR	1	B1H1913	08/19/2021	08/19/2021
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.393	0.00500	mmhos/cm	1	B1H1909	08/19/2021	08/19/2021
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Total Metals by 6020B

Arsenic	3.18	0.0855	0.25	mg/Kg	5	L570028	08/19/2021	08/22/2021
Barium	267	0.042	0.25	"	"	"	"	"
Cadmium	0.187	0.0259	0.25	"	"	"	"	"
Copper	14.9	0.0806	0.25	"	"	"	"	"

Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: 31403177.98.05
Project: KMG - State 30-16

Native-BG02@6'

8/17/2021 4:08:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.
Y108375-05 (Soil)

Total Metals by 6020B

Lead	11.9	0.031	0.25	mg/Kg	5	L570028	08/19/2021	08/22/2021	
Nickel	16	0.0633	0.25	"	"	"	"	"	
Selenium	0.359	0.103	0.25	"	"	"	"	"	
Silver	0.0573	0.0067	0.25	"	"	"	"	"	J
Zinc	58.8	0.534	2.5	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.25	0.514	mg/Kg	1	L570100	08/17/2021	08/20/2021	
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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.

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

Brian Sulzberger
Project Number: 31403177.98.05
Project: KMG - State 30-16

Native-BG03@3'
8/17/2021 4:10:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y108375-06 (Soil)

Boron (DTPA Sorbitol)

Boron	0.700	0.200	mg/L	1	B1H1901	08/19/2021	08/19/2021
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Metals by Saturated Paste

Calcium	6.31	0.0499	meq/L	"	[CALC]	08/19/2021	08/19/2021
Magnesium	5.15	0.0823	"	"	"	"	"
Sodium	2.70	0.0435	"	"	"	"	"

pH in Soil by 9045D

pH	7.97	pH Units	1	B1H1905	08/19/2021	08/19/2021
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SAR by 20B Saturated Paste

SAR	1.13	SAR	1	B1H1913	08/19/2021	08/19/2021
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	1.28	0.00500	mmhos/cm	1	B1H1909	08/19/2021	08/19/2021
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Total Metals by 6020B

Arsenic	2.79	0.0855	0.25	mg/Kg	5	L570028	08/19/2021	08/22/2021
Barium	227	0.042	0.25	"	"	"	"	"
Cadmium	0.212	0.0259	0.25	"	"	"	"	"
Copper	12.8	0.0806	0.25	"	"	"	"	"

Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: 31403177.98.05
Project: KMG - State 30-16

Native-BG03@3'

8/17/2021 4:10:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.
Y108375-06 (Soil)

Total Metals by 6020B

Lead	31.1	0.031	0.25	mg/Kg	5	L570028	08/19/2021	08/22/2021	
Nickel	12.7	0.0633	0.25	"	"	"	"	"	
Selenium	0.443	0.103	0.25	"	"	"	"	"	
Silver	0.0503	0.0067	0.25	"	"	"	"	"	J
Zinc	161	0.534	2.5	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.246	0.506	mg/Kg	1	L570100	08/17/2021	08/20/2021	
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Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: 31403177.98.05
Project: KMG - State 30-16

Native-BG03@6'
8/17/2021 4:12:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y108375-07 (Soil)

Boron (DTPA Sorbitol)

Boron	0.724	0.201	mg/L	1	B1H1901	08/19/2021	08/19/2021
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Metals by Saturated Paste

Calcium	4.11	0.0499	meq/L	"	[CALC]	08/19/2021	08/19/2021
Magnesium	4.63	0.0823	"	"	"	"	"
Sodium	3.41	0.0435	"	"	"	"	"

pH in Soil by 9045D

pH	8.03		pH Units	1	B1H1905	08/19/2021	08/19/2021
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SAR by 20B Saturated Paste

SAR	1.63		SAR	1	B1H1913	08/19/2021	08/19/2021
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	1.13	0.00500	mmhos/cm	1	B1H1909	08/19/2021	08/19/2021
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Total Metals by 6020B

Arsenic	3.32	0.0855	0.25	mg/Kg	5	L570028	08/19/2021	08/22/2021
Barium	171	0.042	0.25	"	"	"	"	"
Cadmium	0.228	0.0259	0.25	"	"	"	"	"
Copper	14	0.0806	0.25	"	"	"	"	"

Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: 31403177.98.05
Project: KMG - State 30-16

Native-BG03@6'

8/17/2021 4:12:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.
Y108375-07 (Soil)

Total Metals by 6020B

Lead	14.8	0.031	0.25	mg/Kg	5	L570028	08/19/2021	08/22/2021	
Nickel	15.8	0.0633	0.25	"	"	"	"	"	
Selenium	0.48	0.103	0.25	"	"	"	"	"	
Silver	0.0598	0.0067	0.25	"	"	"	"	"	J
Zinc	142	0.534	2.5	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.253	0.52	mg/Kg	1	L570100	08/17/2021	08/20/2021	
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Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: 31403177.98.05
Project: KMG - State 30-16

Native-BG04@3'**8/17/2021 4:14:00PM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y108375-08 (Soil)**Boron (DTPA Sorbitol)**

Boron	0.853		0.198	mg/L	1	B1H1901	08/19/2021	08/19/2021	
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Metals by Saturated Paste

Calcium	3.92		0.0499	meq/L	"	[CALC]	08/19/2021	08/19/2021	
Magnesium	9.53		0.0823	"	"	"	"	"	
Sodium	10.8		0.0435	"	"	"	"	"	

pH in Soil by 9045D

pH	8.17			pH Units	1	B1H1905	08/19/2021	08/19/2021	
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SAR by 20B Saturated Paste

SAR	4.16			SAR	1	B1H1913	08/19/2021	08/19/2021	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	2.40		0.00500	mmhos/cm	1	B1H1909	08/19/2021	08/19/2021	
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Total Metals by 7196A

Chromium, Hexavalent	ND	0.246	0.505	mg/Kg	1	L570105	08/17/2021	08/20/2021	
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Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: 31403177.98.05
Project: KMG - State 30-16

Native-BG04@3'

8/17/2021 4:14:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.
Y108375-08 (Soil)

Total Metals by 6020B

Arsenic	2.73	0.0855	0.25	mg/Kg	5	L570028	08/19/2021	08/22/2021	
Barium	114	0.042	0.25	"	"	"	"	"	
Cadmium	0.193	0.0259	0.25	"	"	"	"	"	J
Copper	12.9	0.0806	0.25	"	"	"	"	"	
Lead	10.2	0.031	0.25	"	"	"	"	"	
Nickel	13.9	0.0633	0.25	"	"	"	"	"	
Selenium	0.386	0.103	0.25	"	"	"	"	"	
Silver	0.0478	0.0067	0.25	"	"	"	"	"	J
Zinc	49.9	0.534	2.5	"	"	"	"	"	

Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: 31403177.98.05
Project: KMG - State 30-16

Native-BG04@6'
8/17/2021 4:16:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y108375-09 (Soil)

Boron (DTPA Sorbitol)

Boron	1.78	0.202	mg/L	1	B1H1901	08/19/2021	08/19/2021
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Metals by Saturated Paste

Calcium	3.11	0.0499	meq/L	"	[CALC]	08/19/2021	08/19/2021
Magnesium	8.13	0.0823	"	"	"	"	"
Sodium	10.2	0.0435	"	"	"	"	"

pH in Soil by 9045D

pH	8.20		pH Units	1	B1H1905	08/19/2021	08/19/2021
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SAR by 20B Saturated Paste

SAR	4.30		SAR	1	B1H1913	08/19/2021	08/19/2021
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	2.08	0.00500	mmhos/cm	1	B1H1909	08/19/2021	08/19/2021
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Total Metals by 7196A

Chromium, Hexavalent	ND	0.245	0.503	mg/Kg	1	L570105	08/17/2021	08/20/2021
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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.

WSP USA

4600 W. 60th Ave.

Arvada CO 80003

Brian Sulzberger

Project Number: 31403177.98.05

Project: KMG - State 30-16

Native-BG04@6'

8/17/2021 4:16:00PM

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

Y108375-09 (Soil)

Total Metals by 6020B

Arsenic	3.29	0.0855	0.25	mg/Kg	5	L570028	08/19/2021	08/22/2021	
Barium	382	0.042	0.25	"	"	"	"	"	
Cadmium	0.185	0.0259	0.25	"	"	"	"	"	J
Copper	11.9	0.0806	0.25	"	"	"	"	"	
Lead	9.85	0.031	0.25	"	"	"	"	"	
Nickel	13.3	0.0633	0.25	"	"	"	"	"	
Selenium	0.423	0.103	0.25	"	"	"	"	"	
Silver	0.0433	0.0067	0.25	"	"	"	"	"	J
Zinc	47.9	0.534	2.5	"	"	"	"	"	

Origins Laboratory, Inc.

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

Brian Sulzberger
Project Number: 31403177.98.05
Project: KMG - State 30-16

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 B1H1721 - EPA 5030 (soil)										
Blank (B1H1721-BLK1)					Prepared: 08/17/2021 Analyzed: 08/17/2021					
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		99.0	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		104	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		99.8	70-130			

Origins Laboratory, Inc.



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

Brian Sulzberger
Project Number: 31403177.98.05
Project: KMG - State 30-16

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 B1H1721 - EPA 5030 (soil)

LCS (B1H1721-BS1)

Prepared: 08/17/2021 Analyzed: 08/17/2021

1,2,4-Trimethylbenzene	0.0469	0.00200	mg/kg	0.0500		93.8	70-130			
Naphthalene	0.0417	0.0100	"	0.0500		83.3	70-130			
1,3,5-Trimethylbenzene	0.0465	0.00200	"	0.0500		93.1	70-130			
Benzene	0.0431	0.00200	"	0.0500		86.2	70-130			
Ethylbenzene	0.0443	0.00200	"	0.0500		88.6	70-130			
m,p-Xylene	0.0932	0.00400	"	0.100		93.2	70-130			
o-Xylene	0.0452	0.00200	"	0.0500		90.4	70-130			
Toluene	0.0457	0.00200	"	0.0500		91.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		102	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		103	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		96.7	70-130			

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

Brian Sulzberger
Project Number: 31403177.98.05
Project: KMG - State 30-16

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 B1H1721 - EPA 5030 (soil)

Matrix Spike (B1H1721-MS1)		Source: Y108352-01			Prepared: 08/17/2021 Analyzed: 08/17/2021					
1,2,4-Trimethylbenzene	0.0508	0.00200	mg/kg	0.0500	ND	102	70-130			
Naphthalene	0.0403	0.0100	"	0.0500	ND	80.6	70-130			
1,3,5-Trimethylbenzene	0.0503	0.00200	"	0.0500	ND	101	70-130			
Benzene	0.0495	0.00200	"	0.0500	ND	99.1	70-130			
Ethylbenzene	0.0493	0.00200	"	0.0500	ND	98.6	70-130			
m,p-Xylene	0.104	0.00400	"	0.100	ND	104	70-130			
o-Xylene	0.0505	0.00200	"	0.0500	ND	101	70-130			
Toluene	0.0518	0.00200	"	0.0500	ND	104	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		106	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		100	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		97.2	70-130			

Origins Laboratory, Inc.



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4600 W. 60th Ave.
Arvada CO 80003

Brian Sulzberger
Project Number: 31403177.98.05
Project: KMG - State 30-16

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 B1H1721 - EPA 5030 (soil)										
Matrix Spike Dup (B1H1721-MSD1)		Source: Y108352-01			Prepared: 08/17/2021 Analyzed: 08/17/2021					
1,2,4-Trimethylbenzene	0.0457	0.00200	mg/kg	0.0500	ND	91.3	70-130	10.7	20	
Naphthalene	0.0373	0.0100	"	0.0500	ND	74.7	70-130	7.67	20	
1,3,5-Trimethylbenzene	0.0451	0.00200	"	0.0500	ND	90.3	70-130	10.9	20	
Benzene	0.0435	0.00200	"	0.0500	ND	86.9	70-130	13.1	20	
Ethylbenzene	0.0435	0.00200	"	0.0500	ND	86.9	70-130	12.6	20	
m,p-Xylene	0.0920	0.00400	"	0.100	ND	92.0	70-130	12.3	20	
o-Xylene	0.0442	0.00200	"	0.0500	ND	88.4	70-130	13.4	20	
Toluene	0.0460	0.00200	"	0.0500	ND	92.1	70-130	11.8	20	
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		104	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		102	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		97.0	70-130			

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WSP USA

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Arvada CO 80003

Brian Sulzberger

Project Number: 31403177.98.05

Project: KMG - State 30-16

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 B1H1726 - EPA 3550B										
Blank (B1H1726-BLK1)					Prepared: 08/17/2021 Analyzed: 08/17/2021					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	23		"	25.0		93.2	50-150			

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Brian Sulzberger
Project Number: 31403177.98.05
Project: KMG - State 30-16

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 B1H1726 - EPA 3550B

LCS (B1H1726-BS1)

Prepared: 08/17/2021 Analyzed: 08/17/2021

Diesel (C10-C28)	799	50.0	mg/kg	1000		79.9	70-130			
Residual Range Organics (C28-C40)	1000	200	"	1000		100	70-130			
Surrogate: o-Terphenyl	49		"	50.0		97.7	50-150			

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

Brian Sulzberger
Project Number: 31403177.98.05
Project: KMG - State 30-16

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 B1H1726 - EPA 3550B

Matrix Spike (B1H1726-MS1)		Source: Y108352-01			Prepared: 08/17/2021 Analyzed: 08/17/2021					
Diesel (C10-C28)	796	50.0	mg/kg	1000	ND	79.6	70-130			
Residual Range Organics (C28-C40)	973	200	"	1000	ND	97.3	70-130			
Surrogate: o-Terphenyl	44		"	50.0		88.2	50-150			

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WSP USA

4600 W. 60th Ave.

Arvada CO 80003

Brian Sulzberger

Project Number: 31403177.98.05

Project: KMG - State 30-16

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 B1H1726 - EPA 3550B

Matrix Spike Dup (B1H1726-MSD1)		Source: Y108352-01			Prepared: 08/17/2021 Analyzed: 08/17/2021					
Diesel (C10-C28)	861	50.0	mg/kg	1000	ND	86.1	70-130	7.81	35	
Residual Range Organics (C28-C40)	1120	200	"	1000	ND	112	70-130	14.3	35	
Surrogate: o-Terphenyl	49		"	50.0		97.1	50-150			

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WSP USA
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Arvada CO 80003

Brian Sulzberger
Project Number: 31403177.98.05
Project: KMG - State 30-16

Extractable Petroleum Hydrocarbons by 8015D - Quality Control

Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Saturated Paste - Quality Control

Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B1H1904 - NO PREP

Duplicate (B1H1904-DUP1)		Source: Y108369-01		Prepared: 08/19/2021 Analyzed: 08/19/2021	
pH	8.34	pH Units	8.14	2.43	

Batch B1H1905 - NO PREP

Duplicate (B1H1905-DUP1)		Source: Y108375-04		Prepared: 08/19/2021 Analyzed: 08/19/2021	
pH	8.23		pH Units	8.23	0.00

Batch B1H1908 - NO PREP

Blank (B1H1908-BLK1)				Prepared: 08/19/2021 Analyzed: 08/19/2021			
Specific Conductance (EC)	0.00300	0.00500	mmhos/cm				

Duplicate (B1H1908-DUP1)		Source: Y108369-01		Prepared: 08/19/2021 Analyzed: 08/19/2021	
Specific Conductance (EC)	0.361	0.00500	mmhos/cm	0.309	15.4

Batch B1H1909 - NO PREP

Blank (B1H1909-BLK1)				Prepared: 08/19/2021 Analyzed: 08/19/2021			
Specific Conductance (EC)	0.00330	0.00500	mmhos/cm				

Duplicate (B1H1909-DUP1)		Source: Y108375-04		Prepared: 08/19/2021 Analyzed: 08/19/2021	
Specific Conductance (EC)	0.508	0.00500	mmhos/cm	0.488	4.00

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WSP USA
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Brian Sulzberger
Project Number: 31403177.98.05
Project: KMG - State 30-16

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch L570105 -										
DUP (L 93181-DUP)	Source: Y108375-08				Prepared: Analyzed: 08/20/2021					
Chromium, Hexavalent	ND	0.244	mg/Kg		93181	-		0	20	
MS (L 93181-MS)	Source: Y108375-08				Prepared: Analyzed: 08/20/2021					
Chromium, Hexavalent	4.89	0.247	mg/Kg	8.12	93181	60	75-125			*
LCS (LCS)					Prepared: Analyzed: 08/20/2021					
Chromium, Hexavalent	7.5	0.244	mg/Kg	8		94	75-125			
LRB (LRB)					Prepared: Analyzed: 08/20/2021					
Chromium, Hexavalent	ND	0.5	mg/Kg							

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WSP USA
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Brian Sulzberger
Project Number: 31403177.98.05
Project: KMG - State 30-16

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L570028 - 3050B

MSD (L 93187-MSD-L570028)			Source: 93187			Prepared: 08/19/2021 Analyzed: 08/22/2021				
Silver	0.529	0.0067	mg/Kg	0.498	0.0458	106	75-125	1.3	80	
Barium	18.6	0.042	"	4.98	37.6	NR	75-125	23.4	80	*
Zinc	32.5	0.534	"	24.9	24.1	34	75-125	1.2	80	*
Selenium	4.4	0.103	"	4.98	0.942	69	75-125	2	80	*
Nickel	3.51	0.0633	"	2.49	2.8	29	75-125	5.2	80	*
Lead	5.75	0.031	"	2.49	5.9	NR	75-125	37.3	80	*
Cadmium	0.508	0.0259	"	0.498	0.0574	102	75-125	3.4	80	
Arsenic	2.87	0.0855	"	2.49	0.83	82	75-125	15.3	80	
Copper	4.18	0.0806	"	2.49	9.38	NR	75-125	6.7	80	*
MS (L 93187-MS-L570028)			Source: 93187			Prepared: 08/19/2021 Analyzed: 08/22/2021				
Nickel	3.33	0.0633	mg/Kg	2.41	2.8	22	75-125			*
Zinc	32.9	0.534	"	24.1	24.1	37	75-125			*
Lead	3.94	0.031	"	2.41	5.9	NR	75-125			*
Copper	4.47	0.0806	"	2.41	9.38	NR	75-125			*
Cadmium	0.526	0.0259	"	0.481	0.0574	109	75-125			
Barium	14.7	0.042	"	4.81	37.6	NR	75-125			*
Arsenic	2.46	0.0855	"	2.41	0.83	68	75-125			*
Silver	0.522	0.0067	"	0.481	0.0458	108	75-125			
Selenium	4.31	0.103	"	4.81	0.942	70	75-125			*
LCS (LCS-L570028)			Prepared: 08/19/2021 Analyzed: 08/22/2021							
Nickel	2.51	0.0633	mg/Kg	2.5		100	80-120			
Zinc	25.4	0.534	"	25		102	80-120			
Selenium	4.99	0.103	"	5		100	80-120			
Lead	2.44	0.031	"	2.5		98	80-120			
Cadmium	0.491	0.0259	"	0.5		98	80-120			

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4600 W. 60th Ave.
Arvada CO 80003

Brian Sulzberger
Project Number: 31403177.98.05
Project: KMG - State 30-16

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L570028 - 3050B

LCS (LCS-L570028)

Prepared: 08/19/2021 Analyzed: 08/22/2021

Barium	5.41	0.042	mg/Kg	5		108	80-120			
Arsenic	2.45	0.0855	"	2.5		98	80-120			
Copper	2.45	0.0806	"	2.5		98	80-120			
Silver	0.507	0.0067	"	0.5		101	80-120			

LRB (LRB-L570028)

Prepared: 08/19/2021 Analyzed: 08/22/2021

Arsenic	ND	0.25	mg/Kg				-			
Silver	ND	0.25	"				-			
Selenium	ND	0.25	"				-			
Nickel	ND	0.25	"				-			
Lead	ND	0.25	"				-			
Copper	ND	0.25	"				-			
Barium	0.0456	0.25	"				-			J
Zinc	ND	2.5	"				-			
Cadmium	ND	0.25	"				-			

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Arvada CO 80003

Brian Sulzberger
Project Number: 31403177.98.05
Project: KMG - State 30-16

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch L570100 -										
DUP (L 93168-DUP)		Source: 93168			Prepared: Analyzed: 08/20/2021					
Chromium, Hexavalent	ND	0.244	mg/Kg		93168	-		0	20	
MS (L 93168-MS)		Source: 93168			Prepared: Analyzed: 08/20/2021					
Chromium, Hexavalent	ND	0.244	mg/Kg	7.9	93168	0	75-125			*

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4600 W. 60th Ave.

Arvada CO 80003

Brian Sulzberger

Project Number: 31403177.98.05

Project: KMG - State 30-16

Notes and Definitions

U Sample is Non-Detect.

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.

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