

TABLE 1
SOIL SAMPLE ANALYTICAL AND FIELD RESULTS
GUNZNER 19-13 WELLHEAD
WELD COUNTY, COLORADO
KERR-MCGEE OIL & GAS ONSHORE, LP

Analyte	Groundwater Protection Values (GPV)	B01@5'	Native-BG01@3'	Native-BG01@5'	Native-BG02@3'	Native-BG02@5'
		1/10/2022	1/10/2022	1/10/2022	1/10/2022	1/10/2022
Photoionization Detector Reading						
PID (ppm)	NA	2.0	0.8	1.4	1.5	1.9
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	0.886	0.878	0.627	0.522	0.246
Sodium Adsorption Ratio (SAR)	6	3.86	3.54	3.40	3.49	2.45
pH, Lab (pH units)	6-8.3	7.77	7.94	8.00	8.04	7.67
Boron (mg/L)	2	0.471	<0.198	<0.199	<0.196	<0.200
Organic Concentrations in Soil (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	0.413	2.7	2.18	0.223
Barium (mg/Kg)	82	NA	9.45	17	27.7	7.42
Cadmium (mg/Kg)	0.38	NA	0.0395	0.196	0.217	0.095
Chromium, Hexavalent (mg/Kg)	0.00067	NA	<0.5	<5	<0.513	<0.51
Copper (mg/Kg)	46	NA	17.3	22.5	18.1	12
Lead (mg/Kg)	14	NA	8.67	19.2	24.1	2.99
Nickel (mg/Kg)	26	NA	0.754	1.32	1.78	0.795
Selenium (mg/Kg)	0.26	NA	<0.25	0.134	0.298	0.116
Silver (mg/Kg)	0.8	NA	0.0485	0.161	0.298	0.0947
Zinc (mg/Kg)	370	NA	27.3	35.6	51.8	29.9

TABLE 1 (Continued)
SOIL SAMPLE ANALYTICAL AND FIELD RESULTS
GUNZNER 19-13 WELLHEAD
WELD COUNTY, COLORADO
KERR-MCGEE OIL & GAS ONSHORE, LP

Analyte	Groundwater Protection Values (GPV)	Native-BG03@3'	Native-BG03@5'	SEP01-Inlet@4'	SEP-BG01@0.5'
		1/10/2022	1/10/2022	1/10/2022	1/10/2022
Photoionization Detector Reading					
PID (ppm)	NA	2.1	2.5	0.7	1.9
Total Petroleum Hydrocarbons by USEPA Method 8015D					
TPH-GRO* (mg/kg)	500	NA	NA	<0.200	NA
TPH-DRO* (mg/kg)	500	NA	NA	<25.0	NA
TPH-RRO* (mg/kg)	500	NA	NA	<100	NA
Soil Suitability for Reclamation					
EC (mmhos/cm)	4	0.732	1.25	0.355	0.237
Sodium Adsorption Ratio (SAR)	6	4.07	8.50	0.740	0.329
pH, Lab (pH units)	6-8.3	7.84	8.12	7.98	8.12
Boron (mg/L)	2	<0.197	<0.199	<0.200	<0.196
Organic Concentrations in Soil (GPV for Soil)					
Benzene (mg/kg)	0.0026	NA	NA	<0.00200	NA
Toluene (mg/kg)	0.69	NA	NA	<0.00200	NA
Ethylbenzene (mg/kg)	0.78	NA	NA	<0.00200	NA
Xylenes, Total (mg/kg)	9.9	NA	NA	<0.00200	NA
Naphthalene (mg/kg)	0.0038	NA	NA	<0.00380	NA
Metals in Soils (GPV for Soil)					
Arsenic (mg/Kg)	0.29	0.807	0.626	NA	1.04
Barium (mg/Kg)	82	14.4	12.8	NA	35.7
Cadmium (mg/Kg)	0.38	0.1	0.111	NA	0.0855
Chromium, Hexavalent (mg/Kg)	0.00067	<0.5	<0.511	NA	<0.513
Copper (mg/Kg)	46	17.3	23.4	NA	7.05
Lead (mg/Kg)	14	12.8	8.78	NA	6.11
Nickel (mg/Kg)	26	1.6	1.36	NA	4.44
Selenium (mg/Kg)	0.26	<0.25	0.24	NA	0.141
Silver (mg/Kg)	0.8	0.0624	0.0708	NA	0.0586
Zinc (mg/Kg)	370	37.7	29.2	NA	22.2

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
GUNZNER 19-13 WELLHEAD
WELD COUNTY, COLORADO
KERR-MCGEE OIL & GAS ONSHORE, LP

Screening Location	Location	Date	PID Reading (ppm)
B01@5'	Wellhead Excavation	1/10/2022	2.0
North Wall	Wellhead Excavation	1/10/2022	2.4
East Wall	Wellhead Excavation	1/10/2022	1.7
South Wall	Wellhead Excavation	1/10/2022	1.5
West Wall	Wellhead Excavation	1/10/2022	3.5
Sep01-Inlet@4'	Separator	1/10/2022	0.7
PH02	Pothole	1/10/2022	2.1
Native-BG01@3'	Background	1/10/2022	0.8
Native-BG01@5'	Background	1/10/2022	1.4
Native-BG02@3'	Background	1/10/2022	1.5
Native-BG02@5'	Background	1/10/2022	1.9
Native-BG03@3'	Background	1/10/2022	2.1
Native-BG03@5'	Background	1/10/2022	2.5
Sep-BG01@0.5'	Separator Background	1/10/2022	1.9

Notes:

PID - Photoionization Detector

ppm - parts per million

TABLE 3
GROUNDWATER ANALYTICAL RESULTS
GUNZNER 19-13 WELLHEAD
WELD COUNTY, COLORADO
KERR-MCGEE OIL & GAS ONSHORE, LP

Well Name	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	Naphthalene (µg/L)	1,2,4- trimethylbenzene (µg/L)	1,3,5- trimethylbenzene (µg/L)	Total Dissolved Solids (ug/L)	Chloride Ion (ug/L)	Sulfate Ion (ug/L)	Depth to Water/ (Product Thickness) (ft bgs)
COGCC Allowable Levels		5	560	700	1400	140	67	67	1,165,000	250,000	275,000	
GW01	1/10/2022	1.24	3.68	1.10	8.16	<4.00	3.01	1.60	1,130,000	224,000	263,000	3
GW-BG01	1/10/2022	NA	NA	NA	NA	NA	NA	NA	932,000	193,000	220,000	3

Notes: COGCC - Colorado Oil and Gas Conservation Commission

ft bgs - feet below ground surface

NA - not analyzed/not available

Total dissolved solids and sulfate ion parameters based on background sample (GW-BG01) concentration x 1.25

µg/L - micrograms per liter

< - less than laboratory reporting limit

Excavation groundwater depth is approximate



January 20, 2022

WSP USA

Brian Sulzberger

4600 W. 60th Ave.

Arvada

CO

80003

Project Name - KMG - Gunzer 19-13 WH

Project Number - 314031077.000.199.05

Attached are your analytical results for KMG - Gunzer 19-13 WH received by Origins Laboratory, Inc. January 10, 2022. This project is associated with Origins project number Y201134-01.

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: 314031077.000.199.05

Project: KMG - Gunzer 19-13 WH

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
B01@5'	Y201134-01	Soil	January 10, 2022 9:50	01/10/2022 17:28
Native-BG01@3'	Y201134-02	Soil	January 10, 2022 11:15	01/10/2022 17:28
Native-BG01@5'	Y201134-03	Soil	January 10, 2022 11:16	01/10/2022 17:28
Native-BG02@3'	Y201134-04	Soil	January 10, 2022 11:20	01/10/2022 17:28
Native-BG02@5'	Y201134-05	Soil	January 10, 2022 11:21	01/10/2022 17:28
Native-BG03@3'	Y201134-06	Soil	January 10, 2022 11:25	01/10/2022 17:28
Native-BG03@5'	Y201134-07	Soil	January 10, 2022 11:28	01/10/2022 17:28
SEP01-Inlet@4'	Y201134-08	Soil	January 10, 2022 12:07	01/10/2022 17:28
SEP-BG01@0.5	Y201134-09	Soil	January 10, 2022 12:13	01/10/2022 17:28
GW-BG01	Y201134-10	Water	January 10, 2022 10:05	01/10/2022 17:28
GW01	Y201134-11	Water	January 10, 2022 10:11	01/10/2022 17:28

Origins Laboratory, Inc.



Jen Pellegrini, 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: 314031077.000.199.05

Project: KMG - Gunzer 19-13 WH

www.originslaboratory.com

Y20134

ORIGINS
LABORATORY, INC

page 1 of 1

Client: WSP USA
Project Manager: Brian Sulzberger
Address: 4600 W 60th Ave
Arvada, CO 80003
Project Name: Gunzer 19-13 Wellhead
Project Number: 314031077.000.199.05
Telephone Number: 303 649 7943
Samples Collected By: Kyle Pellegrini
Email Address: KMG 6102P

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

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix	Analysis	Sample Instructions
				Unpreserved	HCl	HNO ₃	Groundwater			
Bol 05	1/10/22	0950	2					Soil	TD5 Chloride Full 1/10/22 Bolton PHEC, SAR L. B. E. in TDE (B. 2)	Ground water protection
Native - B60103		1115	1					Soil		
Native - B60105		1116	1					Soil		
Native - B60203		1120	1					Soil		
Native - B60205		1121	1					Soil		
Native - B60303		1125	1					Soil		
Native - B60305		1128	1					Soil		
sepal-Ente04		1207	1					Soil		
sep-B60100.5		1213	1					Soil		
BW-B601		1005	1					Soil		
		1011	4					Soil		
Relinquished By:	Date:	Time:	Time:	Received By:	Date:	Time:	Time:	Received By:	Date:	Time:
Kyle Pellegrini	1/10/22	1728	1728	[Signature]	1/10/22	1728	1728	[Signature]	1/10/22	1728
Relinquished By:	Date:	Time:	Time:	Received By:	Date:	Time:	Time:	Received By:	Date:	Time:

Date Results Needed

Temp Received: 5.7

Origins Laboratory, Inc.

Jefe Pellegrini

Jen Pellegrini, Project Manager

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WSP USA

4600 W. 60th Ave.

Arvada

CO

80003

Brian Sulzberger

Project Number: 314031077.000.199.05

Project: KMG - Gunzer 19-13 WH

Origins Laboratory

Sample Receipt Checklist

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

Origins Work Order: 4201134

Client: WSP

Client Project ID: Gunzer 19-13 WH

Checklist Completed by: AKH

Shipped Via: HD

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

Date/time completed: 1/10/12

Airbill #: 1112

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

Cooler Number/Temperature: 115.7 °C / 1 °C / 1 °C / 1 °C (Describe)

Thermometer ID: 1003

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"/>		clear vial
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): Brian Sulzberger

Date/Time Reviewed: 1/10/12

Origins Laboratory, Inc.

Jen Pellegrini

Jen Pellegrini, Project Manager

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

Brian Sulzberger
Project Number: 314031077.000.199.05
Project: KMG - Gunzer 19-13 WH

B01@5'

1/10/2022 9:50:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y201134-01 (Soil)

Boron (DTPA Sorbitol)

Boron	0.471	0.196	mg/L	1	B2A1109	01/11/2022	01/12/2022	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B2A1030	01/10/2022	01/10/2022	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	73.3 %	50-150	"	"	"
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GBTEX+TMBs by 8260D

Naphthalene	ND	0.00380	mg/kg	1	B2A1029	01/10/2022	01/10/2022	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	108 %	70-130	"	"	"
Surrogate: Toluene-d8	93.2 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	99.4 %	70-130	"	"	"

Origins Laboratory, Inc.



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Jen Pellegrini, Project Manager

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

Brian Sulzberger
Project Number: 314031077.000.199.05
Project: KMG - Gunzer 19-13 WH

B01@5'

1/10/2022 9:50:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y201134-01 (Soil)

Metals by Saturated Paste by EPA 6010

Calcium	2.43	0.499	meq/L	10	[CALC]	01/11/2022	01/12/2022
Magnesium	1.21	0.823	"	"	"	"	"
Sodium	5.21	0.435	"	"	"	"	"

pH in Soil by 9045D

pH	7.77		pH Units	1	B2A1115	01/11/2022	01/12/2022
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SAR by 20B Saturated Paste

SAR	3.86		SAR	1	B2A1106	01/11/2022	01/12/2022
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.886	0.00500	mmhos/cm	1	B2A1112	01/11/2022	01/12/2022
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Origins Laboratory, Inc.



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Jen Pellegrini, Project Manager

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

Brian Sulzberger
Project Number: 314031077.000.199.05
Project: KMG - Gunzer 19-13 WH

Native-BG01@3'

1/10/2022 11:15:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y201134-02 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.198	mg/L	1	B2A1109	01/11/2022	01/12/2022	U
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Metals by Saturated Paste by EPA 6010

Calcium	2.57	0.499	meq/L	10	[CALC]	01/11/2022	01/12/2022
Magnesium	1.14	0.823	"	"	"	"	"
Sodium	4.83	0.435	"	"	"	"	"

pH in Soil by 9045D

pH	7.94	pH Units	1	B2A1115	01/11/2022	01/12/2022
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SAR by 20B Saturated Paste

SAR	3.54	SAR	1	B2A1106	01/11/2022	01/12/2022
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.878	0.00500	mmhos/cm	1	B2A1112	01/11/2022	01/12/2022
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Total Metals by 6020B

Arsenic	0.413	0.0855	0.25	mg/Kg	5	L594237	01/12/2022	01/14/2022
Barium	9.45	0.042	0.25	"	"	"	"	"
Cadmium	0.0395	0.0259	0.25	"	"	"	"	"
Copper	17.3	0.0806	0.25	"	"	"	"	"

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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

Brian Sulzberger
Project Number: 314031077.000.199.05
Project: KMG - Gunzer 19-13 WH

Native-BG01@3'

1/10/2022 11:15:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.
Y201134-02 (Soil)

Total Metals by 6020B

Lead	8.67	0.031	0.25	mg/Kg	5	L594237	01/12/2022	01/14/2022	
Nickel	0.754	0.0633	0.25	"	"	"	"	"	
Selenium	ND	0.103	0.25	"	"	"	"	"	
Silver	0.0485	0.0067	0.25	"	"	"	"	"	J
Zinc	27.3	0.534	2.5	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L595090	01/10/2022	01/19/2022	
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Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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

Brian Sulzberger
Project Number: 314031077.000.199.05
Project: KMG - Gunzer 19-13 WH

Native-BG01@5'

1/10/2022 11:16:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y201134-03 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.199	mg/L	1	B2A1109	01/11/2022	01/12/2022	U
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Metals by Saturated Paste by EPA 6010

Calcium	1.62	0.499	meq/L	10	[CALC]	01/11/2022	01/12/2022
Magnesium	ND	0.823	"	"	"	"	"
Sodium	3.68	0.435	"	"	"	"	"

pH in Soil by 9045D

pH	8.00	pH Units	1	B2A1115	01/11/2022	01/12/2022
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SAR by 20B Saturated Paste

SAR	3.40	SAR	1	B2A1106	01/11/2022	01/12/2022
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.627	0.00500	mmhos/cm	1	B2A1112	01/11/2022	01/12/2022
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Total Metals by 6020B

Arsenic	2.7	0.0855	0.25	mg/Kg	5	L594237	01/12/2022	01/14/2022
Barium	17	0.042	0.25	"	"	"	"	"
Cadmium	0.196	0.0259	0.25	"	"	"	"	"
Copper	22.5	0.0806	0.25	"	"	"	"	"

Origins Laboratory, Inc.



Jen Pellegrini, 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: 314031077.000.199.05
Project: KMG - Gunzer 19-13 WH

Native-BG01@5'

1/10/2022 11:16:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.
Y201134-03 (Soil)

Total Metals by 6020B

Lead	19.2	0.031	0.25	mg/Kg	5	L594237	01/12/2022	01/14/2022	
Nickel	1.32	0.0633	0.25	"	"	"	"	"	
Selenium	0.134	0.103	0.25	"	"	"	"	"	J
Silver	0.161	0.0067	0.25	"	"	"	"	"	J
Zinc	35.6	0.534	2.5	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	2.44	5	mg/Kg	10	L595090	01/10/2022	01/19/2022	
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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, Project Manager

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

Brian Sulzberger
Project Number: 314031077.000.199.05
Project: KMG - Gunzer 19-13 WH

Native-BG02@3'

1/10/2022 11:20:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y201134-04 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.196	mg/L	1	B2A1109	01/11/2022	01/12/2022	U
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Metals by Saturated Paste by EPA 6010

Calcium	1.17	0.499	meq/L	10	[CALC]	01/11/2022	01/12/2022
Magnesium	ND	0.823	"	"	"	"	"
Sodium	3.18	0.435	"	"	"	"	"

pH in Soil by 9045D

pH	8.04	pH Units	1	B2A1115	01/11/2022	01/12/2022
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SAR by 20B Saturated Paste

SAR	3.49	SAR	1	B2A1106	01/11/2022	01/12/2022
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.522	0.00500	mmhos/cm	1	B2A1112	01/11/2022	01/12/2022
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Total Metals by 6020B

Arsenic	2.18	0.0855	0.25	mg/Kg	5	L594237	01/12/2022	01/14/2022
Barium	27.7	0.042	0.25	"	"	"	"	"
Cadmium	0.217	0.0259	0.25	"	"	"	"	"
Copper	18.1	0.0806	0.25	"	"	"	"	"

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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

Brian Sulzberger
Project Number: 314031077.000.199.05
Project: KMG - Gunzer 19-13 WH

Native-BG02@3'

1/10/2022 11:20:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.
Y201134-04 (Soil)

Total Metals by 6020B

Lead	24.1	0.031	0.25	mg/Kg	5	L594237	01/12/2022	01/14/2022
Nickel	1.78	0.0633	0.25	"	"	"	"	"
Selenium	0.298	0.103	0.25	"	"	"	"	"
Silver	0.298	0.0067	0.25	"	"	"	"	"
Zinc	51.8	0.534	2.5	"	"	"	"	"

Total Metals by 7196A

Chromium, Hexavalent	ND	0.25	0.513	mg/Kg	1	L595090	01/10/2022	01/19/2022
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Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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

Brian Sulzberger
Project Number: 314031077.000.199.05
Project: KMG - Gunzer 19-13 WH

Native-BG02@5'

1/10/2022 11:21:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y201134-05 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.200	mg/L	1	B2A1110	01/11/2022	01/12/2022	U
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Metals by Saturated Paste by EPA 6010

Calcium	ND	0.499	meq/L	10	[CALC]	01/11/2022	01/12/2022
Magnesium	ND	0.823	"	"	"	"	"
Sodium	1.44	0.435	"	"	"	"	"

pH in Soil by 9045D

pH	7.67	pH Units	1	B2A1116	01/11/2022	01/12/2022
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SAR by 20B Saturated Paste

SAR	2.45	SAR	1	B2A1106	01/11/2022	01/12/2022
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.246	0.00500	mmhos/cm	1	B2A1112	01/11/2022	01/12/2022
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Total Metals by 6020B

Arsenic	0.223	0.0855	0.25	mg/Kg	5	L594237	01/12/2022	01/14/2022	J
Barium	7.42	0.042	0.25	"	"	"	"	"	
Cadmium	0.095	0.0259	0.25	"	"	"	"	"	J
Copper	12	0.0806	0.25	"	"	"	"	"	

Origins Laboratory, Inc.



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Jen Pellegrini, Project Manager

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

Brian Sulzberger
Project Number: 314031077.000.199.05
Project: KMG - Gunzer 19-13 WH

Native-BG02@5'

1/10/2022 11:21:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.
Y201134-05 (Soil)

Total Metals by 6020B

Lead	2.99	0.031	0.25	mg/Kg	5	L594237	01/12/2022	01/14/2022	
Nickel	0.795	0.0633	0.25	"	"	"	"	"	
Selenium	0.116	0.103	0.25	"	"	"	"	"	J
Silver	0.0947	0.0067	0.25	"	"	"	"	"	J
Zinc	29.9	0.534	2.5	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.248	0.51	mg/Kg	1	L595090	01/10/2022	01/19/2022	
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Origins Laboratory, Inc.



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Jen Pellegrini, Project Manager

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

Brian Sulzberger
Project Number: 314031077.000.199.05
Project: KMG - Gunzer 19-13 WH

Native-BG03@3'

1/10/2022 11:25:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y201134-06 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.197	mg/L	1	B2A1110	01/11/2022	01/12/2022	U
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Metals by Saturated Paste by EPA 6010

Calcium	1.88	0.499	meq/L	10	[CALC]	01/11/2022	01/12/2022
Magnesium	0.823	0.823	"	"	"	"	"
Sodium	4.73	0.435	"	"	"	"	"

pH in Soil by 9045D

pH	7.84	pH Units	1	B2A1116	01/11/2022	01/12/2022
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SAR by 20B Saturated Paste

SAR	4.07	SAR	1	B2A1107	01/11/2022	01/12/2022
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.732	0.00500	mmhos/cm	1	B2A1113	01/11/2022	01/12/2022
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Total Metals by 6020B

Arsenic	0.807	0.0855	0.25	mg/Kg	5	L594237	01/12/2022	01/14/2022
Barium	14.4	0.042	0.25	"	"	"	"	"
Cadmium	0.1	0.0259	0.25	"	"	"	"	"
Copper	17.3	0.0806	0.25	"	"	"	"	"

Origins Laboratory, Inc.



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Jen Pellegrini, Project Manager

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

Brian Sulzberger
Project Number: 314031077.000.199.05
Project: KMG - Gunzer 19-13 WH

Native-BG03@3'

1/10/2022 11:25:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.
Y201134-06 (Soil)

Total Metals by 6020B

Lead	12.8	0.031	0.25	mg/Kg	5	L594237	01/12/2022	01/14/2022	
Nickel	1.6	0.0633	0.25	"	"	"	"	"	
Selenium	ND	0.103	0.25	"	"	"	"	"	
Silver	0.0624	0.0067	0.25	"	"	"	"	"	J
Zinc	37.7	0.534	2.5	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L595090	01/10/2022	01/19/2022	
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Origins Laboratory, Inc.



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Jen Pellegrini, Project Manager

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

Brian Sulzberger
Project Number: 314031077.000.199.05
Project: KMG - Gunzer 19-13 WH

Native-BG03@5'

1/10/2022 11:28:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y201134-07 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.199	mg/L	1	B2A1110	01/11/2022	01/12/2022	U
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Metals by Saturated Paste by EPA 6010

Calcium	1.66	0.499	meq/L	10	[CALC]	01/11/2022	01/12/2022
Magnesium	0.963	0.823	"	"	"	"	"
Sodium	9.73	0.435	"	"	"	"	"

pH in Soil by 9045D

pH	8.12	pH Units	1	B2A1116	01/11/2022	01/12/2022
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SAR by 20B Saturated Paste

SAR	8.50	SAR	1	B2A1107	01/11/2022	01/12/2022
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	1.25	0.00500	mmhos/cm	1	B2A1113	01/11/2022	01/12/2022
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Total Metals by 6020B

Arsenic	0.626	0.0855	0.25	mg/Kg	5	L594237	01/12/2022	01/14/2022
Barium	12.8	0.042	0.25	"	"	"	"	"
Cadmium	0.111	0.0259	0.25	"	"	"	"	"
Copper	23.4	0.0806	0.25	"	"	"	"	"

Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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

Brian Sulzberger
Project Number: 314031077.000.199.05
Project: KMG - Gunzer 19-13 WH

Native-BG03@5'

1/10/2022 11:28:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.
Y201134-07 (Soil)

Total Metals by 6020B

Lead	8.78	0.031	0.25	mg/Kg	5	L594237	01/12/2022	01/14/2022	
Nickel	1.36	0.0633	0.25	"	"	"	"	"	
Selenium	0.24	0.103	0.25	"	"	"	"	"	J
Silver	0.0708	0.0067	0.25	"	"	"	"	"	J
Zinc	29.2	0.534	2.5	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.249	0.511	mg/Kg	1	L595090	01/10/2022	01/19/2022	
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Origins Laboratory, Inc.



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Jen Pellegrini, Project Manager

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

Brian Sulzberger
Project Number: 314031077.000.199.05
Project: KMG - Gunzer 19-13 WH

SEP01-Inlet@4'

1/10/2022 12:07:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y201134-08 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.200	mg/L	1	B2A1110	01/11/2022	01/12/2022	U
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B2A1030	01/10/2022	01/10/2022	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	72.4 %	50-150	"	"	"
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GBTEX+TMBs by 8260D

Naphthalene	ND	0.00380	mg/kg	1	B2A1029	01/10/2022	01/10/2022	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	108 %	70-130	"	"	"
Surrogate: Toluene-d8	93.1 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	98.4 %	70-130	"	"	"

Origins Laboratory, Inc.



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Jen Pellegrini, Project Manager

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

Brian Sulzberger
Project Number: 314031077.000.199.05
Project: KMG - Gunzer 19-13 WH

SEP01-Inlet@4'

1/10/2022 12:07:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y201134-08 (Soil)

Metals by Saturated Paste by EPA 6010

Calcium	1.59	0.499	meq/L	10	[CALC]	01/11/2022	01/12/2022
Magnesium	0.963	0.823	"	"	"	"	"
Sodium	0.835	0.435	"	"	"	"	"

pH in Soil by 9045D

pH	7.98		pH Units	1	B2A1116	01/11/2022	01/12/2022
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SAR by 20B Saturated Paste

SAR	0.740		SAR	1	B2A1107	01/11/2022	01/12/2022
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.355	0.00500	mmhos/cm	1	B2A1113	01/11/2022	01/12/2022
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Origins Laboratory, Inc.



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Jen Pellegrini, Project Manager

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

Brian Sulzberger
Project Number: 314031077.000.199.05
Project: KMG - Gunzer 19-13 WH

SEP-BG01@0.5

1/10/2022 12:13:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y201134-09 (Soil)

Boron (DTPA Sorbitol)

Boron	ND	0.196	mg/L	1	B2A1110	01/11/2022	01/12/2022	U
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Metals by Saturated Paste by EPA 6010

Calcium	1.22	0.499	meq/L	10	[CALC]	01/11/2022	01/12/2022
Magnesium	ND	0.823	"	"	"	"	"
Sodium	ND	0.435	"	"	"	"	"

pH in Soil by 9045D

pH	8.12	pH Units	1	B2A1116	01/11/2022	01/12/2022
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SAR by 20B Saturated Paste

SAR	0.329	SAR	1	B2A1107	01/11/2022	01/12/2022
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.237	0.00500	mmhos/cm	1	B2A1113	01/11/2022	01/12/2022
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Total Metals by 6020B

Arsenic	1.04	0.0855	0.25	mg/Kg	5	L594237	01/12/2022	01/14/2022
Barium	35.7	0.042	0.25	"	"	"	"	"
Cadmium	0.0855	0.0259	0.25	"	"	"	"	J
Copper	7.05	0.0806	0.25	"	"	"	"	"

Origins Laboratory, Inc.



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Jen Pellegrini, Project Manager

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

Brian Sulzberger
Project Number: 314031077.000.199.05
Project: KMG - Gunzer 19-13 WH

SEP-BG01@0.5

1/10/2022 12:13:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.
Y201134-09 (Soil)

Total Metals by 6020B

Lead	6.11	0.031	0.25	mg/Kg	5	L594237	01/12/2022	01/14/2022	
Nickel	4.44	0.0633	0.25	"	"	"	"	"	
Selenium	0.141	0.103	0.25	"	"	"	"	"	J
Silver	0.0586	0.0067	0.25	"	"	"	"	"	J
Zinc	22.2	0.534	2.5	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.25	0.513	mg/Kg	1	L595091	01/10/2022	01/19/2022	
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Origins Laboratory, Inc.



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Jen Pellegrini, Project Manager

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

Brian Sulzberger
Project Number: 314031077.000.199.05
Project: KMG - Gunzer 19-13 WH

GW-BG01

1/10/2022 10:05:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y201134-10 (Water)

Anions by IC 300.0

Chloride	193		31.2	mg/L	125	B2A1024	01/10/2022	01/11/2022	
Sulfate	220		31.2	"	"	"	"	"	

Total Dissolved Solids by 2540C

Total Dissolved Solids	932		5.00	"	1	B2A1035	01/10/2022	01/11/2022	
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Origins Laboratory, Inc.



Jen Pellegrini, Project Manager

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

Brian Sulzberger
Project Number: 314031077.000.199.05
Project: KMG - Gunzer 19-13 WH

GW01

1/10/2022 10:11:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y201134-11 (Water)

Anions by IC 300.0

Chloride	224		31.2	mg/L	125	B2A1024	01/10/2022	01/11/2022	
Sulfate	263		31.2	"	"	"	"	"	

BTEX+N+TMBs by 8260D

1,2,4-Trimethylbenzene	3.01		1.00	ug/L	1	B2A1031	01/10/2022	01/10/2022	
1,3,5-Trimethylbenzene	1.60		1.00	"	"	"	"	"	
Benzene	1.24		1.00	"	"	"	"	"	
Ethylbenzene	1.10		1.00	"	"	"	"	"	
Naphthalene	ND		4.00	"	"	"	"	"	U
Toluene	3.68		1.00	"	"	"	"	"	
Xylenes, total	8.16		1.00	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	91.1 %		70-130			"	"	"	
Surrogate: Toluene-d8	107 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	86.9 %		70-130			"	"	"	

Total Dissolved Solids by 2540C

Total Dissolved Solids	1130		5.00	mg/L	1	B2A1035	01/10/2022	01/11/2022	
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WSP USA
4600 W. 60th Ave.
Arvada CO 80003

Brian Sulzberger
Project Number: 314031077.000.199.05
Project: KMG - Gunzer 19-13 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 B2A1029 - EPA 5030 (soil)										
Blank (B2A1029-BLK1)					Prepared: 01/10/2022 Analyzed: 01/10/2022					
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
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	94.2		70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125	98.0		70-130			

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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 B2A1029 - EPA 5030 (soil)

LCS (B2A1029-BS1)

Prepared: 01/10/2022 Analyzed: 01/10/2022

1,2,4-Trimethylbenzene	0.121	0.00200	mg/kg	0.100		121	70-130			
Naphthalene	0.130	0.0100	"	0.100		130	70-130			
1,3,5-Trimethylbenzene	0.120	0.00200	"	0.100		120	70-130			
Benzene	0.111	0.00200	"	0.100		111	70-130			
Ethylbenzene	0.115	0.00200	"	0.100		115	70-130			
m,p-Xylene	0.237	0.00400	"	0.200		119	70-130			
o-Xylene	0.115	0.00200	"	0.100		115	70-130			
Toluene	0.119	0.00200	"	0.100		119	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		97.2	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		95.9	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		98.2	70-130			

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Project: KMG - Gunzer 19-13 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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Batch B2A1029 - EPA 5030 (soil)

Matrix Spike (B2A1029-MS1)		Source: Y201132-01			Prepared: 01/10/2022 Analyzed: 01/10/2022					
1,2,4-Trimethylbenzene	0.112	0.00200	mg/kg	0.100	0.00614	105	70-130			
Naphthalene	0.129	0.0100	"	0.100	0.00956	119	70-130			
1,3,5-Trimethylbenzene	0.110	0.00200	"	0.100	0.00114	109	70-130			
Benzene	0.112	0.00200	"	0.100	ND	112	70-130			
Ethylbenzene	0.107	0.00200	"	0.100	ND	107	70-130			
m,p-Xylene	0.221	0.00400	"	0.200	0.00214	110	70-130			
o-Xylene	0.108	0.00200	"	0.100	0.00106	107	70-130			
Toluene	0.114	0.00200	"	0.100	ND	114	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		107	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		93.7	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		97.7	70-130			

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Brian Sulzberger
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Project: KMG - Gunzer 19-13 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 B2A1029 - EPA 5030 (soil)										
Matrix Spike Dup (B2A1029-MSD1)		Source: Y201132-01			Prepared: 01/10/2022 Analyzed: 01/10/2022					
1,2,4-Trimethylbenzene	0.116	0.00200	mg/kg	0.100	0.00614	109	70-130	3.49	20	
Naphthalene	0.135	0.0100	"	0.100	0.00956	125	70-130	4.47	20	
1,3,5-Trimethylbenzene	0.114	0.00200	"	0.100	0.00114	113	70-130	3.90	20	
Benzene	0.116	0.00200	"	0.100	ND	116	70-130	3.82	20	
Ethylbenzene	0.111	0.00200	"	0.100	ND	111	70-130	3.54	20	
m,p-Xylene	0.229	0.00400	"	0.200	0.00214	114	70-130	3.58	20	
o-Xylene	0.112	0.00200	"	0.100	0.00106	111	70-130	3.43	20	
Toluene	0.118	0.00200	"	0.100	ND	118	70-130	3.47	20	
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		107	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		93.5	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		97.9	70-130			

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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 B2A1030 - EPA 3550B										
Blank (B2A1030-BLK1)					Prepared: 01/10/2022 Analyzed: 01/10/2022					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	23		"	24.9		91.3	50-150			

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Brian Sulzberger
Project Number: 314031077.000.199.05
Project: KMG - Gunzer 19-13 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 B2A1030 - EPA 3550B										
LCS (B2A1030-BS1)					Prepared: 01/10/2022 Analyzed: 01/10/2022					
Diesel (C10-C28)	699	50.0	mg/kg	1000		69.9	70-130			QM-07
Residual Range Organics (C28-C40)	867	200	"	1000		86.7	70-130			
Surrogate: o-Terphenyl	39		"	49.8		79.4	50-150			

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Brian Sulzberger
Project Number: 314031077.000.199.05
Project: KMG - Gunzer 19-13 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 B2A1030 - EPA 3550B

Matrix Spike (B2A1030-MS1)		Source: Y201132-01			Prepared: 01/10/2022 Analyzed: 01/10/2022					
Diesel (C10-C28)	878	50.0	mg/kg	1000	ND	87.8	70-130			
Residual Range Organics (C28-C40)	1090	200	"	1000	ND	109	70-130			
Surrogate: o-Terphenyl	44		"	49.8		88.5	50-150			

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Brian Sulzberger
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Project: KMG - Gunzer 19-13 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 B2A1030 - EPA 3550B

Matrix Spike Dup (B2A1030-MSD1)		Source: Y201132-01			Prepared: 01/10/2022 Analyzed: 01/10/2022					
Diesel (C10-C28)	729	50.0	mg/kg	1000	ND	72.9	70-130	18.5	35	
Residual Range Organics (C28-C40)	863	200	"	1000	ND	86.3	70-130	23.0	35	
Surrogate: o-Terphenyl	37		"	49.8		73.7	50-150			

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Project: KMG - Gunzer 19-13 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 B2A1031 - EPA 5030B (Water)										
Blank (B2A1031-BLK1)					Prepared: 01/10/2022 Analyzed: 01/10/2022					
1,2,4-Trimethylbenzene	ND	1.00	ug/L							U
1,3,5-Trimethylbenzene	ND	1.00	"							U
Benzene	ND	1.00	"							U
Ethylbenzene	ND	1.00	"							U
Naphthalene	ND	4.00	"							U
Toluene	ND	1.00	"							U
Xylenes, total	ND	1.00	"							U
Surrogate: 1,2-Dichloroethane-d4	71		"	62.5		114	70-130			
Surrogate: Toluene-d8	83		"	62.5		132	70-130			S-GC
Surrogate: 4-Bromofluorobenzene	47		"	62.5		75.2	70-130			

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Brian Sulzberger
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Project: KMG - Gunzer 19-13 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 B2A1031 - EPA 5030B (Water)										
LCS (B2A1031-BS1)					Prepared: 01/10/2022 Analyzed: 01/10/2022					
1,2,4-Trimethylbenzene	40.5	1.00	ug/L	50.0		80.9	70-130			
1,3,5-Trimethylbenzene	41.6	1.00	"	50.0		83.2	70-130			
Benzene	44.5	1.00	"	50.0		89.0	70-130			
Ethylbenzene	44.4	1.00	"	50.0		88.7	70-130			
m,p-Xylene	87.5	2.00	"	100		87.5	70-130			
Naphthalene	58.8	4.00	"	50.0		118	70-130			
o-Xylene	47.1	1.00	"	50.0		94.2	70-130			
Toluene	47.6	1.00	"	50.0		95.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	70		"	62.5		112	70-130			
Surrogate: Toluene-d8	65		"	62.5		103	70-130			
Surrogate: 4-Bromofluorobenzene	61		"	62.5		97.2	70-130			

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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 B2A1031 - EPA 5030B (Water)

Matrix Spike (B2A1031-MS1)		Source: Y201134-11			Prepared: 01/10/2022 Analyzed: 01/10/2022					
1,2,4-Trimethylbenzene	58.5	1.00	ug/L	50.0	3.01	111	70-130			
1,3,5-Trimethylbenzene	65.0	1.00	"	50.0	1.60	127	70-130			
Benzene	53.6	1.00	"	50.0	1.24	105	70-130			
Ethylbenzene	61.2	1.00	"	50.0	1.10	120	70-130			
m,p-Xylene	127	2.00	"	100	6.33	121	70-130			
Naphthalene	60.0	4.00	"	50.0	1.15	118	70-130			
o-Xylene	57.6	1.00	"	50.0	1.83	112	70-130			
Toluene	66.4	1.00	"	50.0	3.68	125	70-130			
Surrogate: 1,2-Dichloroethane-d4	58		"	62.5		93.1	70-130			
Surrogate: Toluene-d8	68		"	62.5		108	70-130			
Surrogate: 4-Bromofluorobenzene	57		"	62.5		90.8	70-130			

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Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B2A1031 - EPA 5030B (Water)										
Matrix Spike Dup (B2A1031-MSD1)		Source: Y201134-11			Prepared: 01/10/2022 Analyzed: 01/10/2022					
1,2,4-Trimethylbenzene	54.0	1.00	ug/L	50.0	3.01	102	70-130	8.11	20	
1,3,5-Trimethylbenzene	59.0	1.00	"	50.0	1.60	115	70-130	9.68	20	
Benzene	52.5	1.00	"	50.0	1.24	102	70-130	2.07	20	
Ethylbenzene	57.5	1.00	"	50.0	1.10	113	70-130	6.20	20	
m,p-Xylene	122	2.00	"	100	6.33	116	70-130	3.71	20	
Naphthalene	56.8	4.00	"	50.0	1.15	111	70-130	5.48	20	
o-Xylene	55.6	1.00	"	50.0	1.83	108	70-130	3.62	20	
Toluene	62.5	1.00	"	50.0	3.68	118	70-130	6.03	20	
Surrogate: 1,2-Dichloroethane-d4	60		"	62.5		96.7	70-130			
Surrogate: Toluene-d8	67		"	62.5		107	70-130			
Surrogate: 4-Bromofluorobenzene	56		"	62.5		90.3	70-130			

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Project: KMG - Gunzer 19-13 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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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 B2A1024 - Filter .45um non acidified

Blank (B2A1024-BLK1)

Prepared: 01/10/2022 Analyzed: 01/11/2022

Chloride	ND	0.250	mg/L							U
Sulfate	ND	0.250	"							U

LCS (B2A1024-BS1)

Prepared: 01/10/2022 Analyzed: 01/11/2022

Chloride	4.01	0.250	mg/L	4.00		100	90-110			
Sulfate	3.99	0.250	"	4.00		99.7	90-110			

Matrix Spike (B2A1024-MS1)

Source: Y201097-15

Prepared: 01/10/2022 Analyzed: 01/11/2022

Chloride	1600		mg/L	500	1080	102	80-120			
Sulfate	5920		"	500	5400	104	80-120			

Matrix Spike Dup (B2A1024-MSD1)

Source: Y201097-15

Prepared: 01/10/2022 Analyzed: 01/11/2022

Chloride	1590		mg/L	500	1080	101	80-120	0.569	20	
Sulfate	5860		"	500	5400	92.2	80-120	0.974	20	

Batch B2A1035 - NO PREP

Blank (B2A1035-BLK1)

Prepared: 01/10/2022 Analyzed: 01/11/2022

Total Dissolved Solids	ND	5.00	mg/L							U
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LCS (B2A1035-BS1)

Prepared: 01/10/2022 Analyzed: 01/11/2022

Total Dissolved Solids	991	5.00	mg/L	1000		99.1	90-110			
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Duplicate (B2A1035-DUP1)

Source: Y201097-21

Prepared: 01/10/2022 Analyzed: 01/11/2022

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Brian Sulzberger
Project Number: 314031077.000.199.05
Project: KMG - Gunzer 19-13 WH

Classical Chemistry Parameters - Quality Control

Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B2A1035 - NO PREP										
Total Dissolved Solids	9130	5.00	mg/L		9100			0.329	10	
Batch B2A1109 - Default Prep Metals										
Blank (B2A1109-BLK1)					Prepared: 01/11/2022 Analyzed: 01/12/2022					
Boron	ND	0.200	mg/L							U
Duplicate (B2A1109-DUP1)					Source: Y201128-18 Prepared: 01/11/2022 Analyzed: 01/12/2022					
Boron	3.30	0.200	mg/L		3.77			13.3	50	
Batch B2A1110 - Default Prep Metals										
Blank (B2A1110-BLK1)					Prepared: 01/11/2022 Analyzed: 01/12/2022					
Boron	ND	0.200	mg/L							U
Duplicate (B2A1110-DUP1)					Source: Y201134-05 Prepared: 01/11/2022 Analyzed: 01/12/2022					
Boron	0.0200	0.200	mg/L		0.0200			0.100	50	U

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Brian Sulzberger
Project Number: 314031077.000.199.05
Project: KMG - Gunzer 19-13 WH

Saturated Paste - Quality Control

Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B2A1112 - NO PREP										
Blank (B2A1112-BLK1)					Prepared: 01/11/2022 Analyzed: 01/12/2022					
Specific Conductance (EC)	ND	0.00500	mmhos/cm							
Duplicate (B2A1112-DUP1)					Source: Y201128-19 Prepared: 01/11/2022 Analyzed: 01/12/2022					
Specific Conductance (EC)	0.660	0.00500	mmhos/cm		0.520			23.7	25	
Batch B2A1113 - NO PREP										
Blank (B2A1113-BLK1)					Prepared: 01/11/2022 Analyzed: 01/12/2022					
Specific Conductance (EC)	ND	0.00500	mmhos/cm							
Duplicate (B2A1113-DUP1)					Source: Y201134-06 Prepared: 01/11/2022 Analyzed: 01/12/2022					
Specific Conductance (EC)	0.848	0.00500	mmhos/cm		0.732			14.6	25	
Batch B2A1115 - NO PREP										
Duplicate (B2A1115-DUP1)					Source: Y201128-19 Prepared: 01/11/2022 Analyzed: 01/12/2022					
pH	7.49		pH Units		7.31			2.43	25	
Batch B2A1116 - NO PREP										
Duplicate (B2A1116-DUP1)					Source: Y201134-06 Prepared: 01/11/2022 Analyzed: 01/12/2022					
pH	7.90		pH Units		7.84			0.762	25	

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Brian Sulzberger
Project Number: 314031077.000.199.05
Project: KMG - Gunzer 19-13 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 L594237 - 3050B										
MSD (L 90078-MSD-L594237)			Source: 90078		Prepared: 01/12/2022 Analyzed: 01/14/2022					
Barium	45.6	0.042	mg/Kg	4.87	39.5	125	75-125	0.8	80	
Arsenic	4.96	0.0855	"	2.43	3.46	62	75-125	1.4	80	*
Cadmium	0.442	0.0259	"	0.487	0.0489	91	75-125	4.6	80	
Copper	4.83	0.0806	"	2.43	2.94	78	75-125	3.1	80	
Lead	5.7	0.031	"	2.43	4.02	69	75-125	0.8	80	*
Nickel	5.23	0.0633	"	2.43	3.35	77	75-125	0.7	80	
Selenium	3.66	0.103	"	4.87	<0.103	75	75-125	3	80	
Silver	0.413	0.0067	"	0.487	<0.0067	85	75-125	0.2	80	
Zinc	35.5	0.534	"	24.3	15.3	83	75-125	2.8	80	
MS (L 90078-MS-L594237)			Source: 90078		Prepared: 01/12/2022 Analyzed: 01/14/2022					
Barium	46	0.042	mg/Kg	4.78	39.5	136	75-125			*
Cadmium	0.422	0.0259	"	0.478	0.0489	88	75-125			
Silver	0.414	0.0067	"	0.478	<0.0067	87	75-125			
Arsenic	5.03	0.0855	"	2.39	3.46	66	75-125			*
Copper	4.68	0.0806	"	2.39	2.94	73	75-125			*
Selenium	3.55	0.103	"	4.78	<0.103	74	75-125			*
Nickel	5.27	0.0633	"	2.39	3.35	80	75-125			
Zinc	34.5	0.534	"	23.9	15.3	80	75-125			
Lead	5.75	0.031	"	2.39	4.02	72	75-125			*
LCS (LCS-L594237)			Prepared: 01/12/2022 Analyzed: 01/14/2022							
Cadmium	0.505	0.0259	mg/Kg	0.5		101	80-120			
Zinc	23.6	0.534	"	25		94	80-120			
Silver	1	0.0067	"	1		100	80-120			
Selenium	5.01	0.103	"	5		100	80-120			
Nickel	2.39	0.0633	"	2.5		96	80-120			

Origins Laboratory, Inc.



Jen Pellegrini, 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: 314031077.000.199.05
Project: KMG - Gunzer 19-13 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
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Batch L594237 - 3050B

LCS (LCS-L594237)

Prepared: 01/12/2022 Analyzed: 01/14/2022

Copper	2.31	0.0806	mg/Kg	2.5		92	80-120			
Barium	4.88	0.042	"	5		98	80-120			
Arsenic	2.47	0.0855	"	2.5		99	80-120			
Lead	2.37	0.031	"	2.5		95	80-120			

LRB (LRB-L594237)

Prepared: 01/12/2022 Analyzed: 01/14/2022

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

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WSP USA
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Arvada CO 80003

Brian Sulzberger
Project Number: 314031077.000.199.05
Project: KMG - Gunzer 19-13 WH

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 L595090 -										
DUP (L 90002-DUP)		Source: 90002			Prepared: Analyzed: 01/19/2022					
Chromium, Hexavalent	ND	0.497	mg/Kg		<1.02	-		0	20	
MS (L 90002-MS)		Source: 90002			Prepared: Analyzed: 01/19/2022					
Chromium, Hexavalent	3.54	0.502	mg/Kg	8.26	<0.502	43	75-125			*
Batch L595091 -										
DUP (L 90060-DUP)		Source: Y201134-09			Prepared: Analyzed: 01/19/2022					
Chromium, Hexavalent	ND	0.244	mg/Kg		<0.500	-		0	20	
MS (L 90060-MS)		Source: Y201134-09			Prepared: Analyzed: 01/19/2022					
Chromium, Hexavalent	5.98	0.244	mg/Kg	7.99	<0.244	75	75-125			
LCS (LCS)					Prepared: Analyzed: 01/19/2022					
Chromium, Hexavalent	6.84	0.244	mg/Kg	8		86	75-125			
LRB (LRB)					Prepared: Analyzed: 01/19/2022					
Chromium, Hexavalent	ND	0.5	mg/Kg							

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WSP USA

4600 W. 60th Ave.

Arvada CO 80003

Brian Sulzberger

Project Number: 314031077.000.199.05

Project: KMG - Gunzer 19-13 WH

Notes and Definitions

U Sample is Non-Detect.

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

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.



Jen Pellegrini, Project Manager

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