

TABLE 1
GROUNDWATER ANALYTICAL AND FIELD RESULTS
CAMP 13-19A
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)	Depth to Water/ (Product Thickness) (ft bgs)	Relative GW Elev. (ft)
COGCC Allowable Levels		5	560	700	1400		
GW01	12/10/2019	37.8	<4.00	4.44	<4.00	5	NA
GW02	12/13/2019	<4.00	<4.00	<4.00	<4.00	5	NA
MW01	8/28/2020	<1.00	<1.00	<1.00	<1.00	4.79	95.51
	11/5/2020	<1.00	<1.00	<1.00	<1.00	4.38	95.92
	2/4/2021	<1.00	<1.00	<1.00	<1.00	5.18	95.12
MW02	8/28/2020	<1.00	<1.00	<1.00	<1.00	5.55	95.63
	11/5/2020	<1.00	<1.00	<1.00	<1.00	5.18	96.00
	2/4/2021	<1.00	<1.00	<1.00	<1.00	6.04	95.14
MW03	8/28/2020	<1.00	<1.00	<1.00	<1.00	4.75	95.41
	11/5/2020	<1.00	<1.00	<1.00	<1.00	5.35	94.81
	2/4/2021	<1.00	<1.00	<1.00	<1.00	5.09	95.07
MW04	8/28/2020	<1.00	<1.00	<1.00	<1.00	4.51	95.28
	11/5/2020	<1.00	<1.00	<1.00	<1.00	4.05	95.74
	2/4/2021	<1.00	<1.00	<1.00	<1.00	4.74	95.05
MW05	8/28/2020	<1.00	<1.00	<1.00	<1.00	4.40	95.17
	11/5/2020	<1.00	<1.00	<1.00	<1.00	3.92	95.65
	2/4/2021	<1.00	<1.00	<1.00	<1.00	4.64	94.93
MW06	8/28/2020	<1.00	<1.00	<1.00	<1.00	5.02	95.43
	11/5/2020	<1.00	<1.00	<1.00	<1.00	4.68	95.77
	2/4/2021	<1.00	<1.00	<1.00	<1.00	5.36	95.09
MW07	8/28/2020	<1.00	<1.00	<1.00	<1.00	5.09	95.26
	11/5/2020	<1.00	<1.00	<1.00	<1.00	4.67	95.68
	2/4/2021	<1.00	<1.00	<1.00	<1.00	5.37	94.98
MW08	8/28/2020	<1.00	<1.00	<1.00	<1.00	4.55	95.62
	11/5/2020	<1.00	<1.00	<1.00	<1.00	5.23	94.94
	2/4/2021	<1.00	<1.00	<1.00	<1.00	5.03	95.14

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CAMP 13-19A
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)	Depth to Water/ (Product Thickness) (ft bgs)	Relative GW Elev. (ft)
COGCC Allowable Levels		5	560	700	1400		
MW09	8/28/2020	<1.00	<1.00	<1.00	<1.00	5.26	95.71
	11/5/2020	<1.00	<1.00	<1.00	<1.00	4.93	96.04
	2/4/2021	<1.00	<1.00	<1.00	<1.00	5.76	95.21

Notes: COGCC - Colorado Oil and Gas Conservation Commission

µg/L - micrograms per liter

ft bgs - feet below ground surface

< - less than laboratory reporting limit

NA - not analyzed/not available

Excavation groundwater depth is approximate

NM - not measured

Corrected Relative GW Elev. is used when LNAPL is present.

BOLD = Analytical result is in exceedance of COGCC Table 915-1 groundwater standards.



February 12, 2021

WSP USA

Brian Sulzberger

4600 W. 60th Ave.

Arvada

CO 80003

Project Name - KMG - Camp 13-19A

Project Number - 014219234/GS-15163

Attached are your analytical results for KMG - Camp 13-19A received by Origins Laboratory, Inc. February 04, 2021. This project is associated with Origins project number Y102100-01.

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: 014219234/GS-15163

Project: KMG - Camp 13-19A

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW01	Y102100-01	Water	February 4, 2021 13:47	02/04/2021 16:30
MW02	Y102100-02	Water	February 4, 2021 13:35	02/04/2021 16:30
MW03	Y102100-03	Water	February 4, 2021 13:16	02/04/2021 16:30
MW04	Y102100-04	Water	February 4, 2021 12:55	02/04/2021 16:30
MW05	Y102100-05	Water	February 4, 2021 12:41	02/04/2021 16:30
MW06	Y102100-06	Water	February 4, 2021 14:23	02/04/2021 16:30
MW07	Y102100-07	Water	February 4, 2021 12:27	02/04/2021 16:30
MW08	Y102100-08	Water	February 4, 2021 14:37	02/04/2021 16:30
MW09	Y102100-09	Water	February 4, 2021 14:04	02/04/2021 16:30

All samples were taken off hold and analyzed for BTEX only per Jeremy Espinoza's email on 02/08/2021. JAM

Origins Laboratory, Inc.



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80003

Brian Sulzberger

Project Number: 014219234/GS-15163

Project: KMG - Camp 13-19A

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Y102100

Page 1 of 4

1725 Elk Place, Denver, CO 80211
Laboratory # - 303.433.1322

Client:	WSP USA	Project Manager:	Brian Sulzberger				
Project:	KMG - Camp 13-19A	Project Number:	014219234/GS-15163				
Number	Sample Identification	Matrix	Sample Date	Sample Time	Container	Qty	Analyses
01-001	MW01	Water	02/01/2021	1347	40mL Amber VOA Vial - HC	3	BTEX+N+TMBs Chloride by 300.0 by 8260D Sulfate by 300.0 Total Dissolved Solids by 2540C
01-001	MW01	Water		1347	5_250mL Plastic Cool to 4° C	1	BTEX+N+TMBs Chloride by 300.0 by 8260D Sulfate by 300.0 Total Dissolved Solids by 2540C
01-001	MW01	Water		1347	60_500mL Plastic Cool to 4° C	1	BTEX+N+TMBs Chloride by 300.0 by 8260D Sulfate by 300.0 Total Dissolved Solids by 2540C
02-001	MW02	Water		1335	40mL Amber VOA Vial - HC	3	BTEX+N+TMBs Chloride by 300.0 by 8260D Sulfate by 300.0 Total Dissolved Solids by 2540C
02-001	MW02	Water		1335	5_250mL Plastic Cool to 4° C	1	BTEX+N+TMBs Chloride by 300.0 by 8260D Sulfate by 300.0 Total Dissolved Solids by 2540C
02-001	MW02	Water		1335	60_500mL Plastic Cool to 4° C	1	BTEX+N+TMBs Chloride by 300.0 by 8260D Sulfate by 300.0 Total Dissolved Solids by 2540C

Received By: *Jordan A. Merrill* Date / Time: 02/01/2021 1535

Relinquished By: *Chris Todd* Date / Time: 2/4/21 1535

Received By: *Chris Todd* Date / Time: 2/4/21 1535

Relinquished By: *Chris Todd* Date / Time: 2/4/21 1535

Temperature on Receipt: 4.3

Turn Around Time: ☐ Same Day; ☐ 72-hr; ☒ Standard

☐ 24-hr; ☐ 48-hr

Origins Laboratory, Inc.

Jordan A. Merrill

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WSP USA

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Brian Sulzberger

Project Number: 014219234/GS-15163

Project: KMG - Camp 13-19A

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102100

1725 Elk Place, Denver, CO 80211

Laboratory # - 303.433.1322

03-001	MW03	Water	02/04/2021	1316	1316	40mL Amber VOA Vial - HC	3	BTEX+N-TMBs by 8260D Sulfate by 300.0 Total Dissolved Solids by 2540C
03-001	MW03	Water		1316	1316	500mL Plastic Cool to 4°	1	BTEX+N-TMBs by 8260D Sulfate by 300.0 Total Dissolved Solids by 2540C
03-001	MW03	Water		1316	1316	5_250mL Plastic Cool to 4°	1	BTEX+N-TMBs by 8260D Sulfate by 300.0 Total Dissolved Solids by 2540C
04-001	MW04	Water		1255	1255	40mL Amber VOA Vial - HC	3	BTEX+N-TMBs by 8260D Sulfate by 300.0 Total Dissolved Solids by 2540C
04-001	MW04	Water		1255	1255	5_250mL Plastic Cool to 4°	1	BTEX+N-TMBs by 8260D Sulfate by 300.0 Total Dissolved Solids by 2540C
04-001	MW04	Water		1255	1255	40_500mL Plastic Cool to 4°	1	BTEX+N-TMBs by 8260D Sulfate by 300.0 Total Dissolved Solids by 2540C
05-001	MW05	Water		1241	1241	40mL Amber VOA Vial - HC	3	BTEX+N-TMBs by 8260D Sulfate by 300.0 Total Dissolved Solids by 2540C

Temperature on Receipt: 4.3

Turn Around Time: ☐ 72-hr ☒ Standard ☐ 48-hr

Relinquished By: [Signature] Date / Time: 2/4/21 1630

Received By: [Signature] Date / Time: 2/4/21 1535

Origins Laboratory, Inc.

[Signature]

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WSP USA

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Brian Sulzberger

Project Number: 014219234/GS-15163

Project: KMG - Camp 13-19A

ORIGINS
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Y102100

Page 3 of 4

1725 Elk Place, Denver, CO 80211

Laboratory # - 303.433.1322

05-001	MW05	Water	02/01/2011 1241	16.250mL Plastic Cool to 4° C	1	BTEX+N+TMBs by 8260D Sulfate by 300.0 Total Dissolved Solids by 2540C
05-001	MW05	Water	1241	16.250mL Plastic Cool to 4° C	1	BTEX+N+TMBs by 8260D Sulfate by 300.0 Total Dissolved Solids by 2540C
06-001	MW06	Water	1423	16.250mL Plastic Cool to 4° C	1	BTEX+N+TMBs by 8260D Sulfate by 300.0 Total Dissolved Solids by 2540C
06-001	MW06	Water	1423	2.40mL Amber VOA Vial - HC	3	BTEX+N+TMBs by 8260D Sulfate by 300.0 Total Dissolved Solids by 2540C
06-001	MW06	Water	1423	16.250mL Plastic Cool to 4° C	1	BTEX+N+TMBs by 8260D Sulfate by 300.0 Total Dissolved Solids by 2540C
07-001	MW07	Water	1227	16.250mL Plastic Cool to 4° C	1	BTEX+N+TMBs by 8260D Sulfate by 300.0 Total Dissolved Solids by 2540C
07-001	MW07	Water	1227	2.40mL Amber VOA Vial - HC	3	BTEX+N+TMBs by 8260D Sulfate by 300.0 Total Dissolved Solids by 2540C

Temperature on Receipt: 43
Turn Around Time: 72-hr ☐ 24-hr ☒ 48-hr ☐
Same Day: ☐ Standard ☒

Relinquished By: [Signature] Date / Time: 2/1/21 1630
Received By: [Signature] Date / Time: 2/1/21 1630

Relinquished By: [Signature] Date / Time: 2/1/21 1535
Received By: [Signature] Date / Time: 2/1/21 1535

Origins Laboratory, Inc.

[Signature]

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WSP USA

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80003

Brian Sulzberger

Project Number: 014219234/GS-15163

Project: KMG - Camp 13-19A

ORIGINS
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4102100

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1725 Elk Place, Denver, CO 80211
Laboratory # - 303.433.1322

07-001	MW07	Water	02/04/2021	1223	5_250mL Plastic Cool to 4° C	1	BTEX+N+TMBs by 8260D Sulfate by 300.0 Total Dissolved Solids by 2540C
08-001	MW08	Water		1437	40mL Amber VOA Vial - HC	3	BTEX+N+TMBs by 8260D Sulfate by 300.0 Total Dissolved Solids by 2540C
08-001	MW08	Water		1437	5_250mL Plastic Cool to 4° C	1	BTEX+N+TMBs by 8260D Sulfate by 300.0 Total Dissolved Solids by 2540C
08-001	MW08	Water		1437	50_500mL Plastic Cool to 4° C	1	BTEX+N+TMBs by 8260D Sulfate by 300.0 Total Dissolved Solids by 2540C
09-001	MW09	Water		1404	40mL Amber VOA Vial - HC	3	BTEX+N+TMBs by 8260D Sulfate by 300.0 Total Dissolved Solids by 2540C
09-001	MW09	Water		1404	5_250mL Plastic Cool to 4° C	1	BTEX+N+TMBs by 8260D Sulfate by 300.0 Total Dissolved Solids by 2540C
09-001	MW09	Water		1404	50_500mL Plastic Cool to 4° C	1	BTEX+N+TMBs by 8260D Sulfate by 300.0 Total Dissolved Solids by 2540C

Temperature on Receipt: 1.3

Turn Around Time: Same Day: ☐ 72-hr: ☐ Standard: ☒ 24-hr: ☐ 48-hr: ☐

Relinquished By: [Signature] Date / Time: 2/4/21 1630

Received By: [Signature] Date / Time: 2/4/21 1535

Origins Laboratory, Inc.

Jordan A. Merrill

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CO

80003

Brian Sulzberger

Project Number: 014219234/GS-15163

Project: KMG - Camp 13-19A

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: 4102100

Client: WSP

Client Project ID: KMG - Camp 13-19A

Checklist Completed by: JP

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

Date/time completed: 2/5/21

Airbill #: NA

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

Cooler Number/Temperature: 1 / 4.3 °C 1 / °C 1 / °C 1 / °C

Thermometer ID: T003

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

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

Reviewed by (Project Manager)

Date/Time Reviewed 2/5/21

Origins Laboratory, Inc.

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WSP USA

4600 W. 60th Ave.

Arvada CO 80003

Brian Sulzberger

Project Number: 014219234/GS-15163

Project: KMG - Camp 13-19A

MW01

2/4/2021 1:47:00PM

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

Y102100-01 (Water)

BTEX+N+TMBs by 8260D

Benzene	ND	1.00	ug/L	1	B1B0508	TEM	02/05/2021	02/10/2021	U
Ethylbenzene	ND	1.00	"	"	"	TEM	"	"	U
Toluene	ND	1.00	"	"	"	TEM	"	"	U
Xylenes, total	ND	1.00	"	"	"	TEM	"	"	U

Surrogate: 1,2-Dichloroethane-d4	102 %	70-130	"	"	"
Surrogate: Toluene-d8	98.4 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	93.0 %	70-130	"	"	"

Origins Laboratory, Inc.

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WSP USA

4600 W. 60th Ave.

Arvada CO 80003

Brian Sulzberger

Project Number: 014219234/GS-15163

Project: KMG - Camp 13-19A

MW02

2/4/2021 1:35:00PM

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

Y102100-02 (Water)

BTEX+N+TMBs by 8260D

Benzene	ND	1.00	ug/L	1	B1B0508	TEM	02/05/2021	02/10/2021	U
Ethylbenzene	ND	1.00	"	"	"	TEM	"	"	U
Toluene	ND	1.00	"	"	"	TEM	"	"	U
Xylenes, total	ND	1.00	"	"	"	TEM	"	"	U

Surrogate: 1,2-Dichloroethane-d4	104 %	70-130	"	"	"
Surrogate: Toluene-d8	98.5 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	91.3 %	70-130	"	"	"

Origins Laboratory, Inc.



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4600 W. 60th Ave.

Arvada CO 80003

Brian Sulzberger

Project Number: 014219234/GS-15163

Project: KMG - Camp 13-19A

MW03

2/4/2021 1:16:00PM

Analyte	Result	Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y102100-03 (Water)

BTEX+N+TMBs by 8260D

Benzene	ND	1.00	ug/L	1	B1B0508	TEM	02/05/2021	02/10/2021	U
Ethylbenzene	ND	1.00	"	"	"	TEM	"	"	U
Toluene	ND	1.00	"	"	"	TEM	"	"	U
Xylenes, total	ND	1.00	"	"	"	TEM	"	"	U

Surrogate: 1,2-Dichloroethane-d4	128 %	70-130	"	"	"
Surrogate: Toluene-d8	94.3 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	90.1 %	70-130	"	"	"

Origins Laboratory, Inc.



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Arvada CO 80003

Brian Sulzberger

Project Number: 014219234/GS-15163

Project: KMG - Camp 13-19A

MW04

2/4/2021 12:55:00PM

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

Y102100-04 (Water)

BTEX+N+TMBs by 8260D

Benzene	ND	1.00	ug/L	1	B1B0508	TEM	02/05/2021	02/10/2021	U
Ethylbenzene	ND	1.00	"	"	"	TEM	"	"	U
Toluene	ND	1.00	"	"	"	TEM	"	"	U
Xylenes, total	ND	1.00	"	"	"	TEM	"	"	U

Surrogate: 1,2-Dichloroethane-d4	105 %	70-130	"	"	"
Surrogate: Toluene-d8	98.8 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	93.3 %	70-130	"	"	"

Origins Laboratory, Inc.



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WSP USA

4600 W. 60th Ave.

Arvada CO 80003

Brian Sulzberger

Project Number: 014219234/GS-15163

Project: KMG - Camp 13-19A

MW05

2/4/2021 12:41:00PM

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

Y102100-05 (Water)

BTEX+N+TMBs by 8260D

Benzene	ND	1.00	ug/L	1	B1B0508	TEM	02/05/2021	02/10/2021	U
Ethylbenzene	ND	1.00	"	"	"	TEM	"	"	U
Toluene	ND	1.00	"	"	"	TEM	"	"	U
Xylenes, total	ND	1.00	"	"	"	TEM	"	"	U

Surrogate: 1,2-Dichloroethane-d4	128 %	70-130	"	"	"
Surrogate: Toluene-d8	94.9 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	90.7 %	70-130	"	"	"

Origins Laboratory, Inc.

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4600 W. 60th Ave.

Arvada CO 80003

Brian Sulzberger

Project Number: 014219234/GS-15163

Project: KMG - Camp 13-19A

MW06

2/4/2021 2:23:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y102100-06 (Water)

BTEX+N+TMBs by 8260D

Benzene	ND	1.00	ug/L	1	B1B0508	TEM	02/05/2021	02/10/2021	U
Ethylbenzene	ND	1.00	"	"	"	TEM	"	"	U
Toluene	ND	1.00	"	"	"	TEM	"	"	U
Xylenes, total	ND	1.00	"	"	"	TEM	"	"	U

Surrogate: 1,2-Dichloroethane-d4	129 %	70-130	"	"	"
Surrogate: Toluene-d8	93.3 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	90.3 %	70-130	"	"	"

Origins Laboratory, Inc.

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WSP USA

4600 W. 60th Ave.

Arvada CO 80003

Brian Sulzberger

Project Number: 014219234/GS-15163

Project: KMG - Camp 13-19A

MW07

2/4/2021 12:27:00PM

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

Y102100-07 (Water)

BTEX+N+TMBs by 8260D

Benzene	ND	1.00	ug/L	1	B1B0508	TEM	02/05/2021	02/10/2021	U
Ethylbenzene	ND	1.00	"	"	"	TEM	"	"	U
Toluene	ND	1.00	"	"	"	TEM	"	"	U
Xylenes, total	ND	1.00	"	"	"	TEM	"	"	U

Surrogate: 1,2-Dichloroethane-d4	125 %	70-130	"	"	"
Surrogate: Toluene-d8	94.6 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	88.0 %	70-130	"	"	"

Origins Laboratory, Inc.

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WSP USA

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Arvada CO 80003

Brian Sulzberger

Project Number: 014219234/GS-15163

Project: KMG - Camp 13-19A

MW08

2/4/2021 2:37:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y102100-08 (Water)

BTEX+N+TMBs by 8260D

Benzene	ND	1.00	ug/L	1	B1B0508	TEM	02/05/2021	02/10/2021	U
Ethylbenzene	ND	1.00	"	"	"	TEM	"	"	U
Toluene	ND	1.00	"	"	"	TEM	"	"	U
Xylenes, total	ND	1.00	"	"	"	TEM	"	"	U

Surrogate: 1,2-Dichloroethane-d4	107 %	70-130	"	"	"
Surrogate: Toluene-d8	98.3 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	94.0 %	70-130	"	"	"

Origins Laboratory, Inc.



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Arvada CO 80003

Brian Sulzberger

Project Number: 014219234/GS-15163

Project: KMG - Camp 13-19A

MW09

2/4/2021 2:04:00PM

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

Y102100-09 (Water)

BTEX+N+TMBs by 8260D

Benzene	ND	1.00	ug/L	1	B1B0508	KDK	02/05/2021	02/10/2021	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	109 %	70-130	"	"	"
Surrogate: Toluene-d8	98.1 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	103 %	70-130	"	"	"

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Brian Sulzberger

Project Number: 014219234/GS-15163

Project: KMG - Camp 13-19A

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 B1B0508 - EPA 5030B (Water)

Blank (B1B0508-BLK1)

Prepared: 02/05/2021 Analyzed: 02/09/2021

Benzene	ND	1.00	ug/L							U
Ethylbenzene	ND	1.00	"							U
Toluene	ND	1.00	"							U
Xylenes, total	ND	1.00	"							U
Surrogate: 1,2-Dichloroethane-d4	69		"	62.5	110		70-130			
Surrogate: Toluene-d8	60		"	62.5	96.6		70-130			
Surrogate: 4-Bromofluorobenzene	58		"	62.5	92.0		70-130			

Origins Laboratory, Inc.



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Arvada CO 80003

Brian Sulzberger

Project Number: 014219234/GS-15163

Project: KMG - Camp 13-19A

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 B1B0508 - EPA 5030B (Water)

LCS (B1B0508-BS1)

Prepared: 02/05/2021 Analyzed: 02/09/2021

Benzene	44.8	1.00	ug/L	50.0		89.5	70-130			
Ethylbenzene	52.4	1.00	"	50.0		105	70-130			
m,p-Xylene	110	2.00	"	100		110	70-130			
o-Xylene	56.3	1.00	"	50.0		113	70-130			
Toluene	47.7	1.00	"	50.0		95.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	75		"	62.5		119	70-130			
Surrogate: Toluene-d8	62		"	62.5		98.6	70-130			
Surrogate: 4-Bromofluorobenzene	59		"	62.5		93.8	70-130			

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Brian Sulzberger

Project Number: 014219234/GS-15163

Project: KMG - Camp 13-19A

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 B1B0508 - EPA 5030B (Water)

Matrix Spike (B1B0508-MS1)		Source: Y102099-01			Prepared: 02/05/2021 Analyzed: 02/10/2021					
Benzene	44.4	1.00	ug/L	50.0	ND	88.8	70-130			
Ethylbenzene	46.2	1.00	"	50.0	ND	92.5	70-130			
m,p-Xylene	100	2.00	"	100	ND	100	70-130			
o-Xylene	52.4	1.00	"	50.0	ND	105	70-130			
Toluene	42.6	1.00	"	50.0	ND	85.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	52		"	62.5		83.8	70-130			
Surrogate: Toluene-d8	61		"	62.5		97.2	70-130			
Surrogate: 4-Bromofluorobenzene	57		"	62.5		91.8	70-130			

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Project Number: 014219234/GS-15163

Project: KMG - Camp 13-19A

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 B1B0508 - EPA 5030B (Water)

Matrix Spike Dup (B1B0508-MSD1)		Source: Y102099-01			Prepared: 02/05/2021 Analyzed: 02/10/2021					
Benzene	44.8	1.00	ug/L	50.0	ND	89.6	70-130	0.941	20	
Ethylbenzene	50.2	1.00	"	50.0	ND	100	70-130	8.13	20	
m,p-Xylene	108	2.00	"	100	ND	108	70-130	7.86	20	
o-Xylene	57.0	1.00	"	50.0	ND	114	70-130	8.43	20	
Toluene	46.4	1.00	"	50.0	ND	92.8	70-130	8.58	20	
Surrogate: 1,2-Dichloroethane-d4	77		"	62.5		124	70-130			
Surrogate: Toluene-d8	60		"	62.5		96.6	70-130			
Surrogate: 4-Bromofluorobenzene	57		"	62.5		91.5	70-130			

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Brian Sulzberger

Project Number: 014219234/GS-15163

Project: KMG - Camp 13-19A

Notes and Definitions

U Sample is Non-Detect.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported at a wet weight basis.

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