



September 21, 2021

WSP USA

Brian Sulzberger

4600 W. 60th Ave.

Arvada

CO 80003

Project Name - KMG - HSR-Chaknova 14-5

Project Number - 31403138.0000.37.410/4

Attached are your analytical results for KMG - HSR-Chaknova 14-5 received by Origins Laboratory, Inc. September 13, 2021. This project is associated with Origins project number Y109246-01.

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:
 Project: KMG - HSR-Chaknova 14-5

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW01	Y109246-01	Water	September 13, 2021 16:15	09/13/2021 17:56
MW02	Y109246-02	Water	September 13, 2021 16:41	09/13/2021 17:56
MW03	Y109246-03	Water	September 13, 2021 16:27	09/13/2021 17:56
MW04	Y109246-04	Water	September 13, 2021 11:32	09/13/2021 17:56
MW05	Y109246-05	Water	September 13, 2021 11:37	09/13/2021 17:56
MW06	Y109246-06	Water	September 13, 2021 11:26	09/13/2021 17:56
MW07	Y109246-07	Water	September 13, 2021 11:51	09/13/2021 17:56
MW08	Y109246-08	Water	September 13, 2021 11:44	09/13/2021 17:56
MW09	Y109246-09	Water	September 13, 2021 11:20	09/13/2021 17:56
MW10	Y109246-10	Water	September 13, 2021 13:05	09/13/2021 17:56
MW11	Y109246-11	Water	September 13, 2021 11:12	09/13/2021 17:56
MW12R	Y109246-12	Water	September 13, 2021 16:33	09/13/2021 17:56
MW13	Y109246-13	Water	September 13, 2021 12:32	09/13/2021 17:56
MW14	Y109246-14	Water	September 13, 2021 12:00	09/13/2021 17:56

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:

Project: KMG - HSR-Chaknova 14-5

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW15	Y109246-15	Water	September 13, 2021 12:39	09/13/2021 17:56
MW16	Y109246-16	Water	September 13, 2021 12:47	09/13/2021 17:56
MW17	Y109246-17	Water	September 13, 2021 12:56	09/13/2021 17:56

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.

ORIGINS

LABORATORY, INC

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

Brian Sulzberger
 Project Number:
 Project: KMG - HSR-Chaknova 14-5



4109246

www.originslaboratory.com

page 1 of 7

Client: WSP USA
 Address: 4600 W. 60th Ave. Arvada 80003
 Telephone Number:
 Email Address: KMG Group

Project Manager: Brian Sulzberger
 Project Name: HSR-Chaknova 14-5
 Project Number: 31403177-37
 Samples Collected By: KMG Group

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis	Sample Instructions
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	Air/Surface		
MW01	9-13-11	16:15	1	X				X				1 W. Protection
MW02		16:41										
MW03		16:47										
MW04		17:37										
MW05		17:57										
MW06		17:26										
MW07		11:51										
MW08		11:44										
MW09		11:20										
MW10		13:05										
Relinquished By: <i>John Mathis</i>	Date: 9/13/11	Time: 17:54	Received By: <i>AS</i>	Date: 9/13/11	Time: 17:56	Turnaround Time: <input checked="" type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input type="checkbox"/> 72 Hr	Standard <input checked="" type="checkbox"/>					

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

Origins Laboratory, Inc.

 Jordan A. Merrill For Noelle Doyle Mathis, President

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

ORIGINS

LABORATORY, INC

WSP USA

4600 W. 60th Ave.

Arvada CO 80003

Brian Sulzberger

Project Number:

Project: KMG - HSR-Chaknova 14-5

www.originslaboratory.com

page 2 of 7

ORIGINS

LABORATORY, INC

YORRMO

Client: WSP USA
 Address: 4600 W. 60th Ave. Arvada 80003
 Telephone Number:
 Email Address: KMG Group

Project Manager: Brian Sulzberger
 Project Name: HSR-Chaknova 14-5
 Project Number: 31403177, 37
 Samples Collected by: KMG Group

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analyte	Sample Instructions	
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	Air/Surface			Other
MW11	8/21/17	1117	4	X				X					
MW12A		1633											
MW13		1728											
MW14		1200											
MW15		1239											
MW16		1247											
MW17		1256											
Relinquished By: <i>[Signature]</i>	Date: 9/13/17	Time: 1754	Received By: <i>[Signature]</i>	Date: 9/13/17	Time: 1750	Turnaround Time: <input checked="" type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input checked="" type="checkbox"/> Standard							
Relinquished By:	Date:	Time:	Received By:	Date:	Time:								

Date Results Needed

17

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

Origins Laboratory, Inc.

Jordan A. Merrill

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

Jordan A. Merrill For Noelle Doyle Mathis, President

ORIGINS

LABORATORY, INC

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

Brian Sulzberger
 Project Number:
 Project: KMG - HSR-Chaknova 14-5

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

Sample Receipt Checklist

Origins Work Order: Y109246 Client: WSP
 Client Project ID: HSR Chaknova 14-5

Checklist Completed by: JG Shipped Via: HD
 Date/time completed: 9/14/21 (UPS, FedEx, Hand Delivered, Pick-up, etc.)
 Airbill #: N/A

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

Cooler Number/Temperature: 1 / 1.4 °C °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"/>	<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 checked="" type="checkbox"/>	<input 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 checked="" type="checkbox"/>	<input 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 checked="" type="checkbox"/>	<input 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 checked="" type="checkbox"/>	<input 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 HNO3, HCL, H2SO4) / (pH > 10 for samples preserved with NaAsO2+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: JG (Project Manager)

Date/Time Reviewed: 9/15/21

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:
 Project: KMG - HSR-Chaknova 14-5

MW01

9/13/2021 4:15:00PM

Analyte	Result	Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
---------	--------	-------	-------	----------	-------	---------	----------	----------	-------

Origins Laboratory, Inc.
Y109246-01 (Water)

Anions by IC 300.0

Chloride	257	31.2	mg/L	125	B111419	JMA	09/14/2021	09/15/2021	
Sulfate	331	31.2	"	"	"	JMA	"	"	

BTEX+N+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	1.00	ug/L	1	B111425	KDK	09/14/2021	09/15/2021	U
1,3,5-Trimethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Benzene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Naphthalene	ND	4.00	"	"	"	KDK	"	"	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	111 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	98.8 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	92.7 %	70-130			"	"	"	"	

Total Dissolved Solids by 2540C

Total Dissolved Solids	1180	5.00	mg/L	1	B111428	SCL	09/14/2021	09/15/2021	
------------------------	------	------	------	---	---------	-----	------------	------------	--

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:
 Project: KMG - HSR-Chaknova 14-5

MW02

9/13/2021 4:41:00PM

Analyte	Result	Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
---------	--------	-------	-------	----------	-------	---------	----------	----------	-------

Origins Laboratory, Inc.
Y109246-02 (Water)

Anions by IC 300.0

Chloride	268	31.2	mg/L	125	B111521	JMA	09/15/2021	09/15/2021	
Sulfate	413	31.2	"	"	"	JMA	"	"	

BTEX+N+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	1.00	ug/L	1	B111425	KDK	09/14/2021	09/15/2021	U
1,3,5-Trimethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Benzene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Naphthalene	ND	4.00	"	"	"	KDK	"	"	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	114 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	102 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	92.1 %	70-130			"	"	"	"	

Total Dissolved Solids by 2540C

Total Dissolved Solids	1490	5.00	mg/L	1	B111508	JMA	09/15/2021	09/17/2021	
------------------------	------	------	------	---	---------	-----	------------	------------	--

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:
 Project: KMG - HSR-Chaknova 14-5

MW03

9/13/2021 4:27:00PM

Analyte	Result	Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
---------	--------	-------	-------	----------	-------	---------	----------	----------	-------

Origins Laboratory, Inc.
Y109246-03 (Water)

Anions by IC 300.0

Chloride	218	31.2	mg/L	125	B111521	JMA	09/15/2021	09/15/2021	
Sulfate	489	31.2	"	"	"	JMA	"	"	

BTEX+N+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	1.00	ug/L	1	B111425	KDK	09/14/2021	09/15/2021	U
1,3,5-Trimethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Benzene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Naphthalene	ND	4.00	"	"	"	KDK	"	"	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	117 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	100 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	90.1 %	70-130			"	"	"	"	

Total Dissolved Solids by 2540C

Total Dissolved Solids	1410	5.00	mg/L	1	B111508	JMA	09/15/2021	09/17/2021	
------------------------	------	------	------	---	---------	-----	------------	------------	--

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:
 Project: KMG - HSR-Chaknova 14-5

MW04

09/13/2021 11:32:00AM

Analyte	Result	Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
---------	--------	-------	-------	----------	-------	---------	----------	----------	-------

Origins Laboratory, Inc.
Y109246-04 (Water)

Anions by IC 300.0

Chloride	158	31.2	mg/L	125	B111521	JMA	09/15/2021	09/15/2021	
Sulfate	305	31.2	"	"	"	JMA	"	"	

BTEX+N+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	1.00	ug/L	1	B111425	KDK	09/14/2021	09/15/2021	U
1,3,5-Trimethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Benzene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Naphthalene	ND	4.00	"	"	"	KDK	"	"	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	116 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	101 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	91.1 %	70-130			"	"	"	"	

Total Dissolved Solids by 2540C

Total Dissolved Solids	987	5.00	mg/L	1	B111508	JMA	09/15/2021	09/17/2021	
------------------------	-----	------	------	---	---------	-----	------------	------------	--

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:
 Project: KMG - HSR-Chaknova 14-5

MW05

9/13/2021 11:37:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
---------	--------	-----------------	-------	----------	-------	---------	----------	----------	-------

Origins Laboratory, Inc.
Y109246-05 (Water)

Anions by IC 300.0

Chloride	146	31.2	mg/L	125	B111521	JMA	09/15/2021	09/15/2021	
Sulfate	271	31.2	"	"	"	JMA	"	"	

BTEX+N+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	1.00	ug/L	1	B111425	KDK	09/14/2021	09/15/2021	U
1,3,5-Trimethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Benzene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Naphthalene	ND	4.00	"	"	"	KDK	"	"	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	118 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	99.6 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	89.5 %	70-130			"	"	"	"	

Total Dissolved Solids by 2540C

Total Dissolved Solids	873	5.00	mg/L	1	B111508	JMA	09/15/2021	09/17/2021	
------------------------	-----	------	------	---	---------	-----	------------	------------	--

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:
 Project: KMG - HSR-Chaknova 14-5

MW06

9/13/2021 11:26:00AM

Analyte	Result	Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
---------	--------	-------	-------	----------	-------	---------	----------	----------	-------

Origins Laboratory, Inc.
Y109246-06 (Water)

Anions by IC 300.0

Chloride	185	31.2	mg/L	125	B111521	JMA	09/15/2021	09/15/2021	
Sulfate	283	31.2	"	"	"	JMA	"	"	

BTEX+N+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	1.00	ug/L	1	B111425	KDK	09/14/2021	09/15/2021	U
1,3,5-Trimethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Benzene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Naphthalene	ND	4.00	"	"	"	KDK	"	"	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	116 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	101 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	90.1 %	70-130			"	"	"	"	

Total Dissolved Solids by 2540C

Total Dissolved Solids	930	5.00	mg/L	1	B111508	JMA	09/15/2021	09/17/2021	
------------------------	-----	------	------	---	---------	-----	------------	------------	--

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:
 Project: KMG - HSR-Chaknova 14-5

MW07

9/13/2021 11:51:00AM

Analyte	Result	Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
---------	--------	-------	-------	----------	-------	---------	----------	----------	-------

Origins Laboratory, Inc.
Y109246-07 (Water)

Anions by IC 300.0

Chloride	150	31.2	mg/L	125	B111521	JMA	09/15/2021	09/15/2021	
Sulfate	210	31.2	"	"	"	JMA	"	"	

BTEX+N+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	1.00	ug/L	1	B111425	KDK	09/14/2021	09/15/2021	U
1,3,5-Trimethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Benzene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Naphthalene	ND	4.00	"	"	"	KDK	"	"	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	119 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	95.7 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	92.0 %	70-130			"	"	"	"	

Total Dissolved Solids by 2540C

Total Dissolved Solids	778	5.00	mg/L	1	B111508	JMA	09/15/2021	09/17/2021	
------------------------	-----	------	------	---	---------	-----	------------	------------	--

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:
 Project: KMG - HSR-Chaknova 14-5

MW08

09/13/2021 11:44:00AM

Analyte	Result	Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
---------	--------	-------	-------	----------	-------	---------	----------	----------	-------

Origins Laboratory, Inc.
Y109246-08 (Water)

Anions by IC 300.0

Chloride	250	31.2	mg/L	125	B111521	JMA	09/15/2021	09/15/2021	
Sulfate	341	31.2	"	"	"	JMA	"	"	

BTEX+N+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	1.00	ug/L	1	B111425	KDK	09/14/2021	09/15/2021	U
1,3,5-Trimethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Benzene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Naphthalene	ND	4.00	"	"	"	KDK	"	"	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	115 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	101 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	93.0 %	70-130			"	"	"	"	

Total Dissolved Solids by 2540C

Total Dissolved Solids	1160	5.00	mg/L	1	B111508	JMA	09/15/2021	09/17/2021	
------------------------	------	------	------	---	---------	-----	------------	------------	--

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:
 Project: KMG - HSR-Chaknova 14-5

MW09

09/13/2021 11:20:00AM

Analyte	Result	Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
---------	--------	-------	-------	----------	-------	---------	----------	----------	-------

Origins Laboratory, Inc.
Y109246-09 (Water)

Anions by IC 300.0

Chloride	144	31.2	mg/L	125	B111521	JMA	09/15/2021	09/15/2021	
Sulfate	500	31.2	"	"	"	JMA	"	"	

BTEX+N+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	1.00	ug/L	1	B111425	KDK	09/14/2021	09/15/2021	U
1,3,5-Trimethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Benzene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Naphthalene	ND	4.00	"	"	"	KDK	"	"	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	110 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	102 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	93.8 %	70-130			"	"	"	"	

Total Dissolved Solids by 2540C

Total Dissolved Solids	1180	5.00	mg/L	1	B111508	JMA	09/15/2021	09/17/2021	
------------------------	------	------	------	---	---------	-----	------------	------------	--

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:
 1466123666665-146667133333

MW10
9/13/2021 1:05:00PM

Analyte	Result	Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
---------	--------	-------	-------	----------	-------	---------	----------	----------	-------

Origins Laboratory, Inc.
Y109246-10 (Water)

Anions by IC 300.0

Chloride	229	31.2	mg/L	125	B111521	JMA	09/15/2021	09/15/2021	
Sulfate	182	31.2	"	"	"	JMA	"	"	

BTEX+N+TMBs by 8260D

1,2,4-Trimethylbenzene	2.06	1.00	ug/L	1	B111425	KDK	09/14/2021	09/15/2021	
1,3,5-Trimethylbenzene	1.18	1.00	"	"	"	KDK	"	"	
Benzene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Naphthalene	ND	4.00	"	"	"	KDK	"	"	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	114 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	99.1 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	89.8 %	70-130			"	"	"	"	

Total Dissolved Solids by 2540C

Total Dissolved Solids	980	5.00	mg/L	1	B111508	JMA	09/15/2021	09/17/2021	
------------------------	-----	------	------	---	---------	-----	------------	------------	--

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:
 Project: KMG - HSR-Chaknova 14-5

MW11

09/13/2021 11:12:00AM

Analyte	Result	Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
---------	--------	-------	-------	----------	-------	---------	----------	----------	-------

Origins Laboratory, Inc.
Y109246-11 (Water)

Anions by IC 300.0

Chloride	255	31.2	mg/L	125	B111521	JMA	09/15/2021	09/15/2021	
Sulfate	447	31.2	"	"	"	JMA	"	"	

BTEX+N+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	1.00	ug/L	1	B111425	KDK	09/14/2021	09/15/2021	U
1,3,5-Trimethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Benzene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Naphthalene	ND	4.00	"	"	"	KDK	"	"	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	111 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	102 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	92.1 %	70-130			"	"	"	"	

Total Dissolved Solids by 2540C

Total Dissolved Solids	1360	5.00	mg/L	1	B111508	JMA	09/15/2021	09/17/2021	
------------------------	------	------	------	---	---------	-----	------------	------------	--

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:
 Project: KMG - HSR-Chaknova 14-5

MW12R

9/13/2021 4:33:00PM

Analyte	Result	Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
---------	--------	-------	-------	----------	-------	---------	----------	----------	-------

Origins Laboratory, Inc.
Y109246-12 (Water)

Anions by IC 300.0

Chloride	178	31.2	mg/L	125	B111521	JMA	09/15/2021	09/15/2021	
Sulfate	303	31.2	"	"	"	JMA	"	"	

BTEX+N+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	1.00	ug/L	1	B111425	KDK	09/14/2021	09/15/2021	U
1,3,5-Trimethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Benzene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Naphthalene	ND	4.00	"	"	"	KDK	"	"	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	116 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	97.3 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	92.4 %	70-130			"	"	"	"	

Total Dissolved Solids by 2540C

Total Dissolved Solids	1070	5.00	mg/L	1	B111508	JMA	09/15/2021	09/17/2021	
------------------------	------	------	------	---	---------	-----	------------	------------	--

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:
 Project: KMG - HSR-Chaknova 14-5

MW13

9/13/2021 12:32:00PM

Analyte	Result	Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
---------	--------	-------	-------	----------	-------	---------	----------	----------	-------

Origins Laboratory, Inc.
Y109246-13 (Water)

Anions by IC 300.0

Chloride	126	31.2	mg/L	125	B111521	JMA	09/15/2021	09/15/2021	
Sulfate	161	31.2	"	"	"	JMA	"	"	

BTEX+N+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	1.00	ug/L	1	B111425	KDK	09/14/2021	09/15/2021	U
1,3,5-Trimethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Benzene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Naphthalene	ND	4.00	"	"	"	KDK	"	"	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	113 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	100 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	91.6 %	70-130			"	"	"	"	

Total Dissolved Solids by 2540C

Total Dissolved Solids	929	5.00	mg/L	1	B111508	JMA	09/15/2021	09/17/2021	
------------------------	-----	------	------	---	---------	-----	------------	------------	--

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:

Project: KMG - HSR-Chaknova 14-5

MW14

9/13/2021 12:00:00PM

Analyte	Result	Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
---------	--------	-------	-------	----------	-------	---------	----------	----------	-------

Origins Laboratory, Inc.
Y109246-14 (Water)

Anions by IC 300.0

Chloride	153	31.2	mg/L	125	B111521	JMA	09/15/2021	09/15/2021	
Sulfate	192	31.2	"	"	"	JMA	"	"	

BTEX+N+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	1.00	ug/L	1	B111425	KDK	09/14/2021	09/15/2021	U
1,3,5-Trimethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Benzene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Naphthalene	ND	4.00	"	"	"	KDK	"	"	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	117 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	97.2 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	90.0 %	70-130			"	"	"	"	

Total Dissolved Solids by 2540C

Total Dissolved Solids	734	5.00	mg/L	1	B111508	JMA	09/15/2021	09/17/2021	
------------------------	-----	------	------	---	---------	-----	------------	------------	--

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:
 1468123666665-1468123666665
 Project: KMG - HSR-Chaknova 14-5

MW15

9/13/2021 12:39:00PM

Analyte	Result	Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
---------	--------	-------	-------	----------	-------	---------	----------	----------	-------

Origins Laboratory, Inc.
Y109246-15 (Water)

Anions by IC 300.0

Chloride	158	31.2	mg/L	125	B111521	JMA	09/15/2021	09/15/2021	
Sulfate	101	31.2	"	"	"	JMA	"	"	

BTEX+N+TMBs by 8260D

1,2,4-Trimethylbenzene	9.12	4.00	ug/L	4	B111425	KDK	09/14/2021	09/16/2021	
1,3,5-Trimethylbenzene	ND	4.00	"	"	"	KDK	"	"	U
Benzene	34.4	10.0	"	10	"	KDK	"	09/15/2021	
Ethylbenzene	ND	4.00	"	4	"	KDK	"	09/16/2021	U
Naphthalene	ND	16.0	"	"	"	KDK	"	"	U
Toluene	ND	4.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	4.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	110 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	101 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	91.1 %	70-130			"	"	"	"	

Total Dissolved Solids by 2540C

Total Dissolved Solids	795	5.00	mg/L	1	B111508	JMA	09/15/2021	09/17/2021	
------------------------	-----	------	------	---	---------	-----	------------	------------	--

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:
 Project: KMG - HSR-Chaknova 14-5

MW16

9/13/2021 12:47:00PM

Analyte	Result	Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
---------	--------	-------	-------	----------	-------	---------	----------	----------	-------

Origins Laboratory, Inc.
Y109246-16 (Water)

Anions by IC 300.0

Chloride	156	31.2	mg/L	125	B111521	JMA	09/15/2021	09/15/2021	
Sulfate	198	31.2	"	"	"	JMA	"	"	

BTEX+N+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	1.00	ug/L	1	B111425	KDK	09/14/2021	09/15/2021	U
1,3,5-Trimethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Benzene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Naphthalene	ND	4.00	"	"	"	KDK	"	"	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	115 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	101 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	92.0 %	70-130			"	"	"	"	

Total Dissolved Solids by 2540C

Total Dissolved Solids	740	5.00	mg/L	1	B111508	JMA	09/15/2021	09/17/2021	
------------------------	-----	------	------	---	---------	-----	------------	------------	--

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:
 Project: KMG - HSR-Chaknova 14-5

MW17

9/13/2021 12:56:00PM

Analyte	Result	Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
---------	--------	-------	-------	----------	-------	---------	----------	----------	-------

Origins Laboratory, Inc.
Y109246-17 (Water)

Anions by IC 300.0

Chloride	182	31.2	mg/L	125	B111521	JMA	09/15/2021	09/15/2021	
Sulfate	636	31.2	"	"	"	JMA	"	"	

BTEX+N+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	1.00	ug/L	1	B111425	KDK	09/14/2021	09/15/2021	U
1,3,5-Trimethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Benzene	ND	1.00	"	"	"	KDK	"	"	U
Ethylbenzene	ND	1.00	"	"	"	KDK	"	"	U
Naphthalene	ND	4.00	"	"	"	KDK	"	"	U
Toluene	ND	1.00	"	"	"	KDK	"	"	U
Xylenes, total	ND	1.00	"	"	"	KDK	"	"	U

Surrogate: 1,2-Dichloroethane-d4	118 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	103 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	92.3 %	70-130			"	"	"	"	

Total Dissolved Solids by 2540C

Total Dissolved Solids	1320	5.00	mg/L	1	B111508	JMA	09/15/2021	09/17/2021	
------------------------	------	------	------	---	---------	-----	------------	------------	--

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:
 Project: KMG - HSR-Chaknova 14-5

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 B111425 - EPA 5030B (Water)

Blank (B111425-BLK1)

Prepared: 09/14/2021 Analyzed: 09/15/2021

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		113	70-130			
Surrogate: Toluene-d8	63		"	62.5		101	70-130			
Surrogate: 4-Bromofluorobenzene	58		"	62.5		92.8	70-130			

Origins Laboratory, Inc.

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



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

Brian Sulzberger
 Project Number:
 Project: KMG - HSR-Chaknova 14-5

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 B111425 - EPA 5030B (Water)

LCS (B111425-BS1)

Prepared: 09/14/2021 Analyzed: 09/15/2021

1,2,4-Trimethylbenzene	46.2	1.00	ug/L	50.0		92.4	70-130			
1,3,5-Trimethylbenzene	46.5	1.00	"	50.0		93.0	70-130			
Benzene	47.6	1.00	"	50.0		95.2	70-130			
Ethylbenzene	49.8	1.00	"	50.0		99.5	70-130			
m,p-Xylene	103	2.00	"	100		103	70-130			
Naphthalene	41.9	4.00	"	50.0		83.7	70-130			
o-Xylene	51.0	1.00	"	50.0		102	70-130			
Toluene	46.6	1.00	"	50.0		93.3	70-130			
Surrogate: 1,2-Dichloroethane-d4	76		"	62.5		122	70-130			
Surrogate: Toluene-d8	60		"	62.5		96.4	70-130			
Surrogate: 4-Bromofluorobenzene	57		"	62.5		91.9	70-130			

Origins Laboratory, Inc.

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

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

Brian Sulzberger
 Project Number:
 Project: KMG - HSR-Chaknova 14-5

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 B111425 - EPA 5030B (Water)

Matrix Spike (B111425-MS1)

Source: Y109246-01

Prepared: 09/14/2021 Analyzed: 09/15/2021

1,2,4-Trimethylbenzene	49.2	1.00	ug/L	50.0	ND	98.4	70-130			
1,3,5-Trimethylbenzene	46.9	1.00	"	50.0	0.100	93.6	70-130			
Benzene	46.6	1.00	"	50.0	ND	93.3	70-130			
Ethylbenzene	47.3	1.00	"	50.0	ND	94.7	70-130			
m,p-Xylene	101	2.00	"	100	ND	101	70-130			
Naphthalene	49.6	4.00	"	50.0	0.790	97.7	70-130			
o-Xylene	53.5	1.00	"	50.0	ND	107	70-130			
Toluene	45.8	1.00	"	50.0	ND	91.5	70-130			
Surrogate: 1,2-Dichloroethane-d4	76		"	62.5		122	70-130			
Surrogate: Toluene-d8	60		"	62.5		96.1	70-130			
Surrogate: 4-Bromofluorobenzene	57		"	62.5		90.9	70-130			

Origins Laboratory, Inc.



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



WSP USA

4600 W. 60th Ave.

Arvada CO 80003

Brian Sulzberger

Project Number:

Project: KMG - HSR-Chaknova 14-5

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 B111425 - EPA 5030B (Water)

Matrix Spike Dup (B111425-MSD1)

Source: Y109246-01

Prepared: 09/14/2021 Analyzed: 09/15/2021

1,2,4-Trimethylbenzene	52.0	1.00	ug/L	50.0	ND	104	70-130	5.46	20	
1,3,5-Trimethylbenzene	50.2	1.00	"	50.0	0.100	100	70-130	6.65	20	
Benzene	49.1	1.00	"	50.0	ND	98.1	70-130	5.08	20	
Ethylbenzene	51.5	1.00	"	50.0	ND	103	70-130	8.44	20	
m,p-Xylene	109	2.00	"	100	ND	109	70-130	8.11	20	
Naphthalene	53.4	4.00	"	50.0	0.790	105	70-130	7.22	20	
o-Xylene	57.3	1.00	"	50.0	ND	115	70-130	6.82	20	
Toluene	49.5	1.00	"	50.0	ND	99.0	70-130	7.83	20	
Surrogate: 1,2-Dichloroethane-d4	74		"	62.5		119	70-130			
Surrogate: Toluene-d8	62		"	62.5		98.8	70-130			
Surrogate: 4-Bromofluorobenzene	58		"	62.5		93.0	70-130			

Origins Laboratory, Inc.

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



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

Brian Sulzberger
 Project Number:
 Project: KMG - HSR-Chaknova 14-5

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
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

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 B111419 - Filter .45um non acidified

Blank (B111419-BLK1)

Prepared: 09/14/2021 Analyzed: 09/15/2021

Chloride	ND	0.250	mg/L							
Fluoride	ND	0.100	"							
Bromide	ND	0.100	"							
Sulfate	ND	0.250	"							
Nitrate	ND	0.100	"							
Nitrite	ND	0.100	"							
Phosphate	ND	0.100	"							

LCS (B111419-BS1)

Prepared: 09/14/2021 Analyzed: 09/15/2021

Chloride	4.09	0.250	mg/L	4.00	102	90-110
Fluoride	4.12	0.100	"	4.00	103	90-110
Bromide	4.10	0.100	"	4.00	102	90-110
Sulfate	4.04	0.250	"	4.00	101	90-110
Nitrate	4.23	0.100	"	4.00	106	90-110
Nitrite	ND	0.100	"	4.00		90-110
Phosphate	ND	0.100	"	4.00		90-110

Matrix Spike (B111419-MS1)

Source: Y109227-01

Prepared: 09/14/2021 Analyzed: 09/15/2021

Chloride	776		mg/L	500	267	102	80-120
Fluoride	519		"	500	4.29	103	80-120
Bromide	511		"	500	1.96	102	80-120
Sulfate	2840		"	500	2420	84.0	80-120

Origins Laboratory, Inc.

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



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

Brian Sulzberger
 Project Number:
 Project: KMG - HSR-Chaknova 14-5

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 B111419 - Filter .45um non acidified

Matrix Spike (B111419-MS1)

Source: Y109227-01

Prepared: 09/14/2021 Analyzed: 09/15/2021

Nitrate	715		mg/L	500	186	106	80-120			
Nitrite	0.00		"	500	0.00		80-120			
Phosphate	0.00		"	500	0.00		80-120			

Matrix Spike Dup (B111419-MSD1)

Source: Y109227-01

Prepared: 09/14/2021 Analyzed: 09/15/2021

Chloride	780		mg/L	500	267	103	80-120	0.416	20	
Fluoride	525		"	500	4.29	104	80-120	0.989	20	
Bromide	512		"	500	1.96	102	80-120	0.239	20	
Sulfate	2920		"	500	2420	98.6	80-120	2.54	20	
Nitrate	718		"	500	186	106	80-120	0.433	20	
Nitrite	0.00		"	500	0.00		80-120		20	
Phosphate	0.00		"	500	0.00		80-120		20	

Batch B111428 - NO PREP

Blank (B111428-BLK1)

Prepared: 09/14/2021 Analyzed: 09/15/2021

Total Dissolved Solids	ND	5.00	mg/L							
------------------------	----	------	------	--	--	--	--	--	--	--

LCS (B111428-BS1)

Prepared: 09/14/2021 Analyzed: 09/15/2021

Total Dissolved Solids	930	5.00	mg/L	1000		93.0	85-115			
------------------------	-----	------	------	------	--	------	--------	--	--	--

Duplicate (B111428-DUP1)

Source: Y109227-01

Prepared: 09/14/2021 Analyzed: 09/15/2021

Total Dissolved Solids	4350	5.00	mg/L		4280			1.55	20	
------------------------	------	------	------	--	------	--	--	------	----	--

Batch B111508 - NO PREP

Blank (B111508-BLK1)

Prepared: 09/15/2021 Analyzed: 09/17/2021

Total Dissolved Solids	ND	5.00	mg/L							
------------------------	----	------	------	--	--	--	--	--	--	--

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:
 Project: KMG - HSR-Chaknova 14-5

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 B111508 - NO PREP

LCS (B111508-BS1)

Prepared: 09/15/2021 Analyzed: 09/17/2021

Total Dissolved Solids	998	5.00	mg/L	1000	99.8	85-115
------------------------	-----	------	------	------	------	--------

Duplicate (B111508-DUP1)

Source: Y109246-02

Prepared: 09/15/2021 Analyzed: 09/17/2021

Total Dissolved Solids	1360	5.00	mg/L	1490	8.62	20
------------------------	------	------	------	------	------	----

Batch B111521 - Filter .45um non acidified

Blank (B111521-BLK1)

Prepared: 09/15/2021 Analyzed: 09/15/2021

Chloride	ND	0.250	mg/L
Fluoride	ND	0.100	"
Bromide	ND	0.100	"
Sulfate	ND	0.250	"
Nitrate	ND	0.100	"
Nitrite	ND	0.100	"
Phosphate	ND	0.100	"

LCS (B111521-BS1)

Prepared: 09/15/2021 Analyzed: 09/15/2021

Chloride	4.15	0.250	mg/L	4.00	104	90-110
Fluoride	ND	0.100	"	4.00	90-110	
Bromide	ND	0.100	"	4.00	90-110	
Sulfate	4.21	0.250	"	4.00	105	90-110
Nitrate	4.34	0.100	"	4.00	109	90-110
Nitrite	ND	0.100	"	4.00	90-110	
Phosphate	ND	0.100	"	4.00	90-110	

Matrix Spike (B111521-MS1)

Source: Y109246-02

Prepared: 09/15/2021 Analyzed: 09/15/2021

Chloride	787	mg/L	500	268	104	80-120
Fluoride	0.00	"	500	0.00	80-120	

Origins Laboratory, Inc.

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



WSP USA

4600 W. 60th Ave.

Arvada CO 80003

Brian Sulzberger

Project Number:

Project: KMG - HSR-Chaknova 14-5

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 B111521 - Filter .45um non acidified

Matrix Spike (B111521-MS1)

Source: Y109246-02

Prepared: 09/15/2021 Analyzed: 09/15/2021

Bromide	0.00		mg/L	500	0.00		80-120			
Sulfate	933		"	500	413	104	80-120			
Nitrate	556		"	500	26.6	106	80-120			
Nitrite	0.00		"	500	0.00		80-120			
Phosphate	0.00		"	500	0.00		80-120			

Matrix Spike Dup (B111521-MSD1)

Source: Y109246-02

Prepared: 09/15/2021 Analyzed: 09/15/2021

Chloride	787		mg/L	500	268	104	80-120	0.0413	20	
Fluoride	0.00		"	500	0.00		80-120		20	
Bromide	0.00		"	500	0.00		80-120		20	
Sulfate	967		"	500	413	111	80-120	3.53	20	
Nitrate	556		"	500	26.6	106	80-120	0.101	20	
Nitrite	0.00		"	500	0.00		80-120		20	
Phosphate	0.00		"	500	0.00		80-120		20	

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:

Project: KMG - HSR-Chaknova 14-5

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.

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.