

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

August 21, 2024

Justin Onwiler

ERM

555 17th St

Denver, CO 80202

RE: Massey #5-31

Work Order #2408174

Enclosed are the results of analyses for samples received by Summit Scientific on 08/16/24 16:07. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in blue ink that reads "Jacob Wood". The signature is written in a cursive style with a large initial "J" and a distinct "W".

Jacob Wood For Paul Shrewsbury
President



ERM
555 17th St
Denver CO, 80202

Project: Massey #5-31

Project Number: 0736294
Project Manager: Justin Onwiler

Reported:
08/21/24 13:02

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
27643-BG-01-4-20240815	2408174-01	Soil	08/15/24 14:00	08/16/24 16:07
27643-BG-02-4-20240815	2408174-02	Soil	08/15/24 14:15	08/16/24 16:07
27643-BG-03-4-20240815	2408174-03	Soil	08/15/24 14:30	08/16/24 16:07
27643-BG-04-4-20240815	2408174-04	Soil	08/15/24 14:40	08/16/24 16:07
27643-BG-05-4-20240815	2408174-05	Soil	08/15/24 14:50	08/16/24 16:07
27643-BG-06-4-20240815	2408174-06	Soil	08/15/24 15:00	08/16/24 16:07
27643-BG-07-4-20240815	2408174-07	Soil	08/15/24 15:15	08/16/24 16:07
27643-BG-08-4-20240815	2408174-08	Soil	08/15/24 15:20	08/16/24 16:07
27643-WH-01-N-3-20240816	2408174-09	Soil	08/16/24 08:30	08/16/24 16:07
27643-WH-01-N-5-20240816	2408174-10	Soil	08/16/24 08:45	08/16/24 16:07
27643-WH-01-N-7-20240816	2408174-11	Soil	08/16/24 08:53	08/16/24 16:07
27643-WH-01-E-3-20240815	2408174-12	Soil	08/15/24 15:50	08/16/24 16:07
27643-WH-01-E-5-20240815	2408174-13	Soil	08/15/24 16:05	08/16/24 16:07
27643-WH-01-E-7-20240815	2408174-14	Soil	08/15/24 16:17	08/16/24 16:07
27643-WH-01-S-3-20240816	2408174-15	Soil	08/16/24 08:30	08/16/24 16:07
27643-WH-01-S-5-20240816	2408174-16	Soil	08/16/24 08:35	08/16/24 16:07
27643-WH-01-S-7-20240816	2408174-17	Soil	08/16/24 08:40	08/16/24 16:07
27643-WH-01-W-3-20240816	2408174-18	Soil	08/16/24 08:35	08/16/24 16:07
27643-WH-01-W-5-20240816	2408174-19	Soil	08/16/24 08:40	08/16/24 16:07
27643-WH-01-W-7-20240816	2408174-20	Soil	08/16/24 08:50	08/16/24 16:07

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

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4653 Table Mountain Drive
Golden, CO 80403
303-277-9310

Lab ID	Page	of
2408174.1		2

Send Data To:		Send Invoice To:	
Client: <u>ELM</u>	Project Manager: <u>Justin Onwiler</u>	Company: <u>ELM</u>	
Address: <u>555 17th St</u>	E-Mail: <u>justin.onwiler@elm.com</u>	Project Name/Location: <u>Massey</u>	
City/State/Zip: <u>Denver CO, 80202</u>		AFE#:	
Phone: <u>303-741-5050</u>	Project Name: <u>Massey # 5-31</u>	PO/Billing Codes: <u>0736294</u>	
Sampler Name: <u>Parkier Lmt</u>	Project Number:	Contact:	

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix			Analysis Requested					Special Instructions		
					HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other	pH						
1	27643-B6-01-4-20240815	8/15/24	1400	1															
2	27643-B6-02-4-20240815		1415																
3	27643-B6-03-4-20240815		1430																
4	27643-B6-04-4-20240815		1440																
5	27643-B6-05-4-20240815		1450																
6	27643-B6-06-4-20240815		1500																
7	27643-B6-07-4-20240815		1515																
8	27643-B6-08-4-20240815		1520 1520																
9	27643-WH-01-N-3-20240816	8/16/24	830																
10	27643-WH-01-N-5-20240816	8/16/24	845																
11	27643-WH-01-N-7-20240816	8/16/24	853																
12	27643-WH-01-E-3-20240815	8/15/24	1550																
13	27643-WH-01-E-5-20240815	8/15/24	1605																
14	27643-WH-01-E-7-20240815	8/15/24	1617																
15	27643-WH-01-E-3-20240816	8/16/24	830																

Relinquished by: <u>[Signature]</u>	Date/Time: <u>8/16/24 1604</u>	Received by: <u>[Signature]</u>	Date/Time: <u>8/16/24 16:07</u>	TAT Business Days	Field DO	Notes:
Relinquished by:	Date/Time:	Received by:	Date/Time:	Same Day	Field EC	
				1 Day	Field ORP	
				2 Days	Field pH	
				3 Days	Field Temp.	
				Standard	Field Turb. <input checked="" type="checkbox"/>	
Temperature Upon Receipt: <u>6.5°C</u>	Corrected Temperature	IR gun #:		HNO3 lot #:		

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4653 Table Mountain Drive
Golden, CO 80403
303-277-9310

Lab ID	Page 2 of 2
2408174.2	

Client: ERM	Project Manager: Justin Onwier	Company: ERM
Address: 555 17th St	E-Mail: Justin.Onwier@erm.com	Project Name/Location: Massey
City/State/Zip: Denver CO, 80202	Project Name: Massey # 5-31	AFE#:
Phone: 303-741-5050	Project Number: 0736294	PO/Billing Codes: 0736294
Sampler Name: Patrick Lunt	Contact:	

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix			Analysis Requested				Special Instructions	
					HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other					
1	27643-WH-01-S-5-20240816	8/16/24	835	1													
2	27643-WH-01-S-7-20240816	↓	840	↓													
3	27643-WH-01-W-3-20240816	↓	835	↓													
4	27643-WH-01-W-5-20240816	↓	840	↓													
5	27643-WH-01-W-7-20240816	↓	850	↓													
6																	
7																	
8																	
9																	
10																	
11																	
12																	
13																	
14																	
15																	

Relinquished by: [Signature]	Date/Time: 8/16/24 1605	Received by: [Signature]	Date/Time: 8/16/24 1607	TAT Business Days	Field DO	Notes:
Relinquished by:	Date/Time:	Received by:	Date/Time:	Same Day	Field EC	
				1 Day	Field ORP	
				2 Days	Field pH	
				3 Days	Field Temp.	
				Standard	<input checked="" type="checkbox"/> Field Turb.	
Temperature Upon Receipt: 8.30C	Corrected Temperature	IR gun #: 02	HNO3 lot #:			

S₂

2/2

S2 Work Order# 2408174

Sample Receipt Checklist

Client: ERM

Client Project ID: Masset # S-31

Shipped Via: H.D./P.U./FedEx/UPS/USPS/Other Airbill #: _____

Matrix (Check all that apply) Air Soil/Solid Water Other

Temp (°C) 8.32 Thermometer # Q2

	Yes	No	N/A	Comments (if any)
If samples require cooling, is the temperature < 6°C? ⁽¹⁾ NOTE: If samples are delivered the same day of sampling, this requirement is met if there is evidence that cooling has begun.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	on ice
If custody seals are present, are they intact? ⁽¹⁾	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are samples due within 48 hours present?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Are water samples with short hold times present? Note the short hold analysis in the comments column - pH, Nitrate/Nitrite, Ferrous Iron (Fe ²⁺), Hexavalent Chromium (Cr ⁶⁺ , Cr VI), COD/BOD, Total Coliform, E. Coli, Total Residual Chlorine (TRC), Dissolved Oxygen	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Is a chain-of-custody (COC) form present and filled out Completely? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client w/ date and time recorded? ⁽¹⁾	<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"/>	
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"/>	
For volatiles in water – is there headspace present? If yes, contact client and note in narrative.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are samples preserved that require preservation (excluding cooling)? ⁽¹⁾ Note the type of preservative in the comments column – HCl, H ₂ SO ₄ , NaOH, HNO ₃ , etc.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If samples are acid preserved for metals, is the pH ≤ 2? ⁽¹⁾ Record the pH in Comments.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If dissolved metals are requested, were samples field filtered?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

Additional Comments (if any):

⁽¹⁾ If NO, then contact the client before proceeding with analysis and note in case narrative.

Control Form #: SRC-001

GAC

8/16/24 16:07

Custodian Printed Name

Date/Time



ERM
555 17th St
Denver CO, 80202

Project: Massey #5-31

Project Number: 0736294
Project Manager: Justin Onwiler

Reported:
08/21/24 13:02

27643-BG-01-4-20240815

2408174-01 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **08/15/24 14:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.6		pH Units	1	BHH0472	08/19/24	08/20/24	EPA 9045D	

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ERM
555 17th St
Denver CO, 80202

Project: Massey #5-31

Project Number: 0736294
Project Manager: Justin Onwiler

Reported:
08/21/24 13:02

27643-BG-02-4-20240815
2408174-02 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **08/15/24 14:15**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
pH	7.5		pH Units	1	BHH0472	08/19/24	08/20/24	EPA 9045D	

Summit Scientific



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ERM 555 17th St Denver CO, 80202	Project: Massey #5-31 Project Number: 0736294 Project Manager: Justin Onwiler	Reported: 08/21/24 13:02
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27643-BG-03-4-20240815
2408174-03 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **08/15/24 14:30**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
pH	7.6		pH Units	1	BHH0472	08/19/24	08/20/24	EPA 9045D	

Summit Scientific



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ERM
555 17th St
Denver CO, 80202

Project: Massey #5-31

Project Number: 0736294
Project Manager: Justin Onwiler

Reported:
08/21/24 13:02

27643-BG-04-4-20240815
2408174-04 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **08/15/24 14:40**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
pH	8.2		pH Units	1	BHH0472	08/19/24	08/20/24	EPA 9045D	

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ERM
555 17th St
Denver CO, 80202

Project: Massey #5-31

Project Number: 0736294
Project Manager: Justin Onwiler

Reported:
08/21/24 13:02

27643-BG-05-4-20240815
2408174-05 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **08/15/24 14:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	6.9		pH Units	1	BHH0472	08/19/24	08/20/24	EPA 9045D	

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ERM
555 17th St
Denver CO, 80202

Project: Massey #5-31

Project Number: 0736294
Project Manager: Justin Onwiler

Reported:
08/21/24 13:02

27643-BG-06-4-20240815
2408174-06 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **08/15/24 15:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	6.6		pH Units	1	BHH0472	08/19/24	08/20/24	EPA 9045D	

Summit Scientific



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ERM
555 17th St
Denver CO, 80202

Project: Massey #5-31

Project Number: 0736294
Project Manager: Justin Onwiler

Reported:
08/21/24 13:02

27643-BG-07-4-20240815
2408174-07 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **08/15/24 15:15**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
pH	7.8		pH Units	1	BHH0472	08/19/24	08/20/24	EPA 9045D	

Summit Scientific



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ERM
555 17th St
Denver CO, 80202

Project: Massey #5-31

Project Number: 0736294
Project Manager: Justin Onwiler

Reported:
08/21/24 13:02

27643-BG-08-4-20240815
2408174-08 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **08/15/24 15:20**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
pH	7.8		pH Units	1	BHH0472	08/19/24	08/20/24	EPA 9045D	

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ERM
555 17th St
Denver CO, 80202

Project: Massey #5-31

Project Number: 0736294
Project Manager: Justin Onwiler

Reported:
08/21/24 13:02

27643-WH-01-N-3-20240816
2408174-09 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **08/16/24 08:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.5		pH Units	1	BHH0472	08/19/24	08/20/24	EPA 9045D	

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ERM
555 17th St
Denver CO, 80202

Project: Massey #5-31

Project Number: 0736294
Project Manager: Justin Onwiler

Reported:
08/21/24 13:02

27643-WH-01-N-5-20240816
2408174-10 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **08/16/24 08:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.5		pH Units	1	BHH0472	08/19/24	08/20/24	EPA 9045D	

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ERM
555 17th St
Denver CO, 80202

Project: Massey #5-31

Project Number: 0736294

Project Manager: Justin Onwiler

Reported:
08/21/24 13:02

27643-WH-01-N-7-20240816

2408174-11 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **08/16/24 08:53**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
pH	8.8		pH Units	1	BHH0472	08/19/24	08/20/24	EPA 9045D	

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ERM
555 17th St
Denver CO, 80202

Project: Massey #5-31

Project Number: 0736294
Project Manager: Justin Onwiler

Reported:
08/21/24 13:02

27643-WH-01-E-3-20240815
2408174-12 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **08/15/24 15:50**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
pH	7.8		pH Units	1	BHH0472	08/19/24	08/20/24	EPA 9045D	

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ERM
555 17th St
Denver CO, 80202

Project: Massey #5-31

Project Number: 0736294
Project Manager: Justin Onwiler

Reported:
08/21/24 13:02

27643-WH-01-E-5-20240815
2408174-13 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **08/15/24 16:05**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
pH	7.6		pH Units	1	BHH0472	08/19/24	08/20/24	EPA 9045D	

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ERM
555 17th St
Denver CO, 80202

Project: Massey #5-31

Project Number: 0736294
Project Manager: Justin Onwiler

Reported:
08/21/24 13:02

27643-WH-01-E-7-20240815
2408174-14 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **08/15/24 16:17**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
pH	8.3		pH Units	1	BHH0472	08/19/24	08/20/24	EPA 9045D	

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ERM
555 17th St
Denver CO, 80202

Project: Massey #5-31

Project Number: 0736294
Project Manager: Justin Onwiler

Reported:
08/21/24 13:02

27643-WH-01-S-3-20240816
2408174-15 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **08/16/24 08:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.8		pH Units	1	BHH0472	08/19/24	08/20/24	EPA 9045D	

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ERM
555 17th St
Denver CO, 80202

Project: Massey #5-31

Project Number: 0736294
Project Manager: Justin Onwiler

Reported:
08/21/24 13:02

27643-WH-01-S-5-20240816
2408174-16 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **08/16/24 08:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	7.7		pH Units	1	BHH0472	08/19/24	08/20/24	EPA 9045D	

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ERM
555 17th St
Denver CO, 80202

Project: Massey #5-31

Project Number: 0736294
Project Manager: Justin Onwiler

Reported:
08/21/24 13:02

27643-WH-01-S-7-20240816
2408174-17 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **08/16/24 08:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.0		pH Units	1	BHH0472	08/19/24	08/20/24	EPA 9045D	

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ERM
555 17th St
Denver CO, 80202

Project: Massey #5-31

Project Number: 0736294
Project Manager: Justin Onwiler

Reported:
08/21/24 13:02

27643-WH-01-W-3-20240816
2408174-18 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **08/16/24 08:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.1		pH Units	1	BHH0472	08/19/24	08/20/24	EPA 9045D	

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ERM
555 17th St
Denver CO, 80202

Project: Massey #5-31

Project Number: 0736294
Project Manager: Justin Onwiler

Reported:
08/21/24 13:02

27643-WH-01-W-5-20240816
2408174-19 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **08/16/24 08:40**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.1		pH Units	1	BHH0472	08/19/24	08/20/24	EPA 9045D	

Summit Scientific



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ERM
555 17th St
Denver CO, 80202

Project: Massey #5-31

Project Number: 0736294
Project Manager: Justin Onwiler

Reported:
08/21/24 13:02

27643-WH-01-W-7-20240816
2408174-20 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **08/16/24 08:50**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.6		pH Units	1	BHH0472	08/19/24	08/20/24	EPA 9045D	

Summit Scientific



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ERM
555 17th St
Denver CO, 80202

Project: Massey #5-31

Project Number: 0736294
Project Manager: Justin Onwiler

Reported:
08/21/24 13:02

Physical Parameters by APHA/ASTM/EPA Methods - Quality Control

Summit Scientific

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

Batch BHH0472 - General Preparation

LCS (BHH0472-BS1)

Prepared: 08/19/24 Analyzed: 08/20/24

pH	9.29		pH Units	9.18	101	95-105			
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Duplicate (BHH0472-DUP1)

Source: 2408174-01

Prepared: 08/19/24 Analyzed: 08/20/24

pH	7.57		pH Units	7.60		0.396	20		
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Summit Scientific



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.



ERM
555 17th St
Denver CO, 80202

Project: Massey #5-31
Project Number: 0736294
Project Manager: Justin Onwiler

Reported:
08/21/24 13:02

Notes and Definitions

DET Analyte DETECTED
ND Analyte NOT DETECTED at or above the reporting limit
NR Not Reported
dry Sample results reported on a dry weight basis
RPD Relative Percent Difference