

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

September 23, 2024

Justin Onwiler

ERM

555 17th St

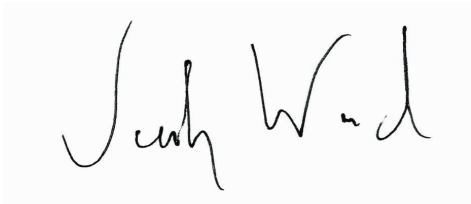
Denver, CO 80202

RE: Chevron RBU - LDS White #D 17-8

Work Order #2409243

Enclosed are the results of analyses for samples received by Summit Scientific on 09/17/24 16:50. 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 "W".

Jacob Wood For Paul Shrewsbury

President



ERM
555 17th St
Denver CO, 80202

Project: Chevron RBU - LDS White #D 17-8

Project Number: UWRWEA1801ABN 0736294
Project Manager: Justin Onwiler

Reported:
09/23/24 15:22

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
19270-BG-01-6-20240917	2409243-01	Soil	09/17/24 11:41	09/17/24 16:50
19270-BG-02-6-20240917	2409243-02	Soil	09/17/24 10:34	09/17/24 16:50
19270-BG-03-6-20240917	2409243-03	Soil	09/17/24 10:01	09/17/24 16:50
19270-BG-04-6-20240917	2409243-04	Soil	09/17/24 11:17	09/17/24 16:50
19270-WH-01-N-4-20240917	2409243-05	Soil	09/17/24 10:20	09/17/24 16:50
19270-WH-01-N-6-20240917	2409243-06	Soil	09/17/24 10:30	09/17/24 16:50
19270-WH-01-N-8-20240917	2409243-07	Soil	09/17/24 10:40	09/17/24 16:50
19270-WH-01-E-4-20240917	2409243-08	Soil	09/17/24 11:25	09/17/24 16:50
19270-WH-01-E-6-20240917	2409243-09	Soil	09/17/24 11:35	09/17/24 16:50
19270-WH-01-E-8-20240917	2409243-10	Soil	09/17/24 11:45	09/17/24 16:50
19270-WH-01-S-4-20240917	2409243-11	Soil	09/17/24 09:30	09/17/24 16:50
19270-WH-01-S-6-20240917	2409243-12	Soil	09/17/24 09:47	09/17/24 16:50
19270-WH-01-S-8-20240917	2409243-13	Soil	09/17/24 09:50	09/17/24 16:50
19270-WH-01-W-4-20240917	2409243-14	Soil	09/17/24 12:00	09/17/24 16:50
19270-WH-01-W-6-20240917	2409243-15	Soil	09/17/24 12:10	09/17/24 16:50
19270-WH-01-W-8-20240917	2409243-16	Soil	09/17/24 12:20	09/17/24 16:50

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

Lab ID	Page / of /
2409243	

Client: ERM	Project Manager: Justin Onweiler	Company: Chevron - RBU
Address: 555 17th St 1700	E-Mail: justin.onweiler@erm.com	Project Name/Location: Chevron/LDS White #D 17-8
City/State/Zip: Denver, CO 80202		AFE#: UWRWEA1801ABN
Phone:	Project Name: Chevron RBU - LDS White #D 17-8	PO/Billing Codes:
Sampler Name: CB, SJ, NB, NC, NS, CP, MN, MA, SW	Project Number: 0736294	Contact: Dan Peterson

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix			Analysis Requested				Special Instructions	
					HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other	EC EPA Method 120.1				
1	19270-BG-01-6-20240917	9/17/2024	1141	1						X			X				
2	19270-BG-02-6-20240917	9/17/2024	1034	1						X			X				
3	19270-BG-03-6-20240917	9/17/2024	1001	1						X			X				
4	19270-BG-04-6-20240917	9/17/2024	1117	1						X			X				
5	19270-WH-01-N-4-20240917	9/17/2024	1020	1						X			X				
6	19270-WH-01-N-6-20240917	9/17/2024	1030	1						X			X				
7	19270-WH-01-N-8-20240917	9/17/2024	1040	1						X			X				
8	19270-WH-01-E-4-20240917	9/17/2024	1020 ¹¹²⁵	1						X			X				
9	19270-WH-01-E-6-20240917	9/17/2024	1030 ¹¹³⁵	1						X			X				
10	19270-WH-01-E-8-20240917	9/17/2024	1040 ¹¹⁴⁵	1						X			X				
11	19270-WH-01-S-4-20240917	9/17/2024	0930	1						X			X				
12	19270-WH-01-S-6-20240917	9/17/2024	0947	1						X			X				
13	19270-WH-01-S-8-20240917	9/17/2024	0950	1						X			X				
14	19270-WH-01-W-4-20240917	9/17/2024	1200	1						X			X				
15	19270-WH-01-W-6-20240917	9/17/2024	1210	1						X			X				
16	19270-WH-01-W-8-20240917	9/17/2024	1220	1						X			X				

Relinquished by: <i>Nathan Chapman</i>	Date/Time: 9-17/1650	Received by: <i>Justin Onweiler</i>	Date/Time: 9/17/24 16:50	TAT Business Days	Field DO	Notes:
Relinquished by:	Date/Time:	Received by:	Date/Time:	Same Day	Field EC	
Relinquished by:	Date/Time:	Received by:	Date/Time:	1 Day	Field ORP	
Relinquished by:	Date/Time:	Received by:	Date/Time:	2 Days	Field pH	
Relinquished by:	Date/Time:	Received by:	Date/Time:	3 Days	Field Temp.	
Temperature Upon Receipt: 11.9	Corrected Temperature	IR gun #: 2	HNO3 lot #:	Standard	X	Field Turb.

S₂

S2 Work Order# 2409243

Sample Receipt Checklist

Client: ERM Client Project ID: Chexxon RBM - LDS White #D 17-8

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

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

Temp (°C) Thermometer #

	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 type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Some sample times do not match
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

AS
Custodian Printed Name

9/17/24
Date/Time



ERM
555 17th St
Denver CO, 80202

Project: Chevron RBU - LDS White #D 17-8

Project Number: UWRWEA1801ABN 0736294
Project Manager: Justin Onwiler

Reported:
09/23/24 15:22

19270-BG-01-6-20240917

2409243-01 (Soil)


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Saturation Paste by the Western Region Soil, Plant and Water Reference Methods 2013

Date Sampled: **09/17/24 11:41**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Specific Conductance (EC)	1.16	0.0100	mmhos/cm	1	BHI0570	09/18/24	09/23/24	EPA 120.1	

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ERM
555 17th St
Denver CO, 80202

Project: Chevron RBU - LDS White #D 17-8
Project Number: UWRWEA1801ABN 0736294
Project Manager: Justin Onwiler

Reported:
09/23/24 15:22

19270-BG-02-6-20240917
2409243-02 (Soil)


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Saturation Paste by the Western Region Soil, Plant and Water Reference Methods 2013

Date Sampled: **09/17/24 10:34**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Specific Conductance (EC)	1.08	0.0100	mmhos/cm	1	BHI0570	09/18/24	09/23/24	EPA 120.1	

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ERM
555 17th St
Denver CO, 80202

Project: Chevron RBU - LDS White #D 17-8

Project Number: UWRWEA1801ABN 0736294
Project Manager: Justin Onwiler

Reported:
09/23/24 15:22

19270-BG-03-6-20240917
2409243-03 (Soil)


Summit Scientific

Saturation Paste by the Western Region Soil, Plant and Water Reference Methods 2013

Date Sampled: **09/17/24 10:01**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Specific Conductance (EC)	3.12	0.0100	mmhos/cm	1	BHI0570	09/18/24	09/23/24	EPA 120.1	

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ERM
555 17th St
Denver CO, 80202

Project: Chevron RBU - LDS White #D 17-8

Project Number: UWRWEA1801ABN 0736294
Project Manager: Justin Onwiler

Reported:
09/23/24 15:22

19270-BG-04-6-20240917
2409243-04 (Soil)

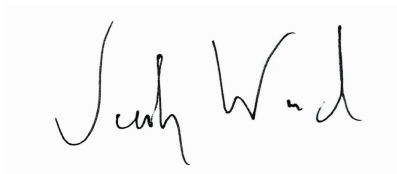
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Saturation Paste by the Western Region Soil, Plant and Water Reference Methods 2013

Date Sampled: **09/17/24 11:17**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Specific Conductance (EC)	0.576	0.0100	mmhos/cm	1	BHI0570	09/18/24	09/23/24	EPA 120.1	

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555 17th St
Denver CO, 80202

Project: Chevron RBU - LDS White #D 17-8

Project Number: UWRWEA1801ABN 0736294
Project Manager: Justin Onwiler

Reported:
09/23/24 15:22

19270-WH-01-N-4-20240917
2409243-05 (Soil)


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Saturation Paste by the Western Region Soil, Plant and Water Reference Methods 2013

Date Sampled: **09/17/24 10:20**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Specific Conductance (EC)	0.659	0.0100	mmhos/cm	1	BHI0570	09/18/24	09/23/24	EPA 120.1	

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Project Number: UWRWEA1801ABN 0736294
Project Manager: Justin Onwiler

Reported:
09/23/24 15:22

19270-WH-01-N-6-20240917
2409243-06 (Soil)


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Saturation Paste by the Western Region Soil, Plant and Water Reference Methods 2013

Date Sampled: **09/17/24 10:30**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Specific Conductance (EC)	0.876	0.0100	mmhos/cm	1	BHI0570	09/18/24	09/23/24	EPA 120.1	

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555 17th St
Denver CO, 80202

Project: Chevron RBU - LDS White #D 17-8

Project Number: UWRWEA1801ABN 0736294
Project Manager: Justin Onwiler

Reported:
09/23/24 15:22

19270-WH-01-N-8-20240917
2409243-07 (Soil)

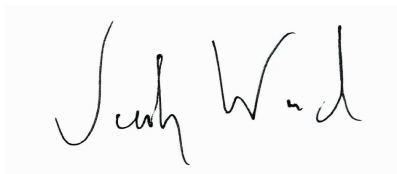
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Saturation Paste by the Western Region Soil, Plant and Water Reference Methods 2013

Date Sampled: **09/17/24 10:40**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Specific Conductance (EC)	0.704	0.0100	mmhos/cm	1	BHI0570	09/18/24	09/23/24	EPA 120.1	

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ERM
555 17th St
Denver CO, 80202

Project: Chevron RBU - LDS White #D 17-8

Project Number: UWRWEA1801ABN 0736294
Project Manager: Justin Onwiler

Reported:
09/23/24 15:22

19270-WH-01-E-4-20240917
2409243-08 (Soil)


Summit Scientific

Saturation Paste by the Western Region Soil, Plant and Water Reference Methods 2013

Date Sampled: **09/17/24 11:25**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Specific Conductance (EC)	1.53	0.0100	mmhos/cm	1	BHI0570	09/18/24	09/23/24	EPA 120.1	

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ERM
555 17th St
Denver CO, 80202

Project: Chevron RBU - LDS White #D 17-8

Project Number: UWRWEA1801ABN 0736294
Project Manager: Justin Onwiler

Reported:
09/23/24 15:22

19270-WH-01-E-6-20240917
2409243-09 (Soil)


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Saturation Paste by the Western Region Soil, Plant and Water Reference Methods 2013

Date Sampled: **09/17/24 11:35**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Specific Conductance (EC)	1.01	0.0100	mmhos/cm	1	BHI0570	09/18/24	09/23/24	EPA 120.1	

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ERM
555 17th St
Denver CO, 80202

Project: Chevron RBU - LDS White #D 17-8

Project Number: UWRWEA1801ABN 0736294
Project Manager: Justin Onwiler

Reported:
09/23/24 15:22

19270-WH-01-E-8-20240917
2409243-10 (Soil)


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Saturation Paste by the Western Region Soil, Plant and Water Reference Methods 2013

Date Sampled: **09/17/24 11:45**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Specific Conductance (EC)	0.984	0.0100	mmhos/cm	1	BHI0570	09/18/24	09/23/24	EPA 120.1	

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ERM
555 17th St
Denver CO, 80202

Project: Chevron RBU - LDS White #D 17-8

Project Number: UWRWEA1801ABN 0736294
Project Manager: Justin Onwiler

Reported:
09/23/24 15:22

19270-WH-01-S-4-20240917
2409243-11 (Soil)


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Saturation Paste by the Western Region Soil, Plant and Water Reference Methods 2013

Date Sampled: **09/17/24 09:30**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Specific Conductance (EC)	1.10	0.0100	mmhos/cm	1	BHI0570	09/18/24	09/23/24	EPA 120.1	

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Project Number: UWRWEA1801ABN 0736294
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Reported:
09/23/24 15:22

19270-WH-01-S-6-20240917
2409243-12 (Soil)


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Saturation Paste by the Western Region Soil, Plant and Water Reference Methods 2013

Date Sampled: **09/17/24 09:47**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Specific Conductance (EC)	3.12	0.0100	mmhos/cm	1	BHI0570	09/18/24	09/23/24	EPA 120.1	

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Denver CO, 80202

Project: Chevron RBU - LDS White #D 17-8

Project Number: UWRWEA1801ABN 0736294
Project Manager: Justin Onwiler

Reported:
09/23/24 15:22

19270-WH-01-S-8-20240917
2409243-13 (Soil)


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Saturation Paste by the Western Region Soil, Plant and Water Reference Methods 2013

Date Sampled: **09/17/24 09:50**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Specific Conductance (EC)	0.901	0.0100	mmhos/cm	1	BHI0570	09/18/24	09/23/24	EPA 120.1	

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Reported:
09/23/24 15:22

19270-WH-01-W-4-20240917
2409243-14 (Soil)


Summit Scientific

Saturation Paste by the Western Region Soil, Plant and Water Reference Methods 2013

Date Sampled: **09/17/24 12:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Specific Conductance (EC)	4.00	0.0100	mmhos/cm	1	BHI0570	09/18/24	09/23/24	EPA 120.1	

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Denver CO, 80202

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Reported:
09/23/24 15:22

19270-WH-01-W-6-20240917
2409243-15 (Soil)


Summit Scientific

Saturation Paste by the Western Region Soil, Plant and Water Reference Methods 2013

Date Sampled: **09/17/24 12:10**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Specific Conductance (EC)	2.10	0.0100	mmhos/cm	1	BHI0570	09/18/24	09/23/24	EPA 120.1	

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555 17th St
Denver CO, 80202

Project: Chevron RBU - LDS White #D 17-8

Project Number: UWRWEA1801ABN 0736294
Project Manager: Justin Onwiler

Reported:
09/23/24 15:22

19270-WH-01-W-8-20240917
2409243-16 (Soil)


Summit Scientific

Saturation Paste by the Western Region Soil, Plant and Water Reference Methods 2013

Date Sampled: **09/17/24 12:20**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Specific Conductance (EC)	0.927	0.0100	mmhos/cm	1	BHI0570	09/18/24	09/23/24	EPA 120.1	

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ERM 555 17th St Denver CO, 80202	Project: Chevron RBU - LDS White #D 17-8 Project Number: UWRWEA1801ABN 0736294 Project Manager: Justin Onwiler	Reported: 09/23/24 15:22
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Saturation Paste by the Western Region Soil, Plant and Water Reference Methods 2013 - Quality Control

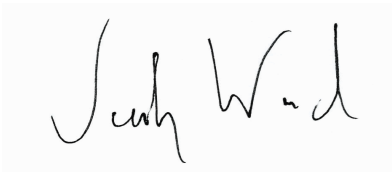
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Analyte	Result	Reporting		Spike Level	Source Result	%REC		RPD		Notes
		Limit	Units			%REC	Limits	RPD	Limit	

Batch BHI0570 - General Preparation

Blank (BHI0570-BLK1)		Prepared: 09/18/24 Analyzed: 09/23/24								
Specific Conductance (EC)	ND	0.0100	mmhos/cm							
LCS (BHI0570-BS1)		Prepared: 09/18/24 Analyzed: 09/23/24								
Specific Conductance (EC)	0.155	0.0100	mmhos/cm	0.150	103	95-105				
Duplicate (BHI0570-DUP1)		Source: 2409243-01		Prepared: 09/18/24 Analyzed: 09/23/24						
Specific Conductance (EC)	1.16	0.0100	mmhos/cm	1.16			0.173	20		

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Project Number: UWRWEA1801ABN 0736294
Project Manager: Justin Onwiler

Reported:
09/23/24 15:22

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