

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

March 12, 2025

Brian Humphrey

Tasman Geosciences

6855 W. 119th Ave.

Broomfield, CO 80020

RE: P66/DCP - 4 Parmlee (H-6-9) 03/2024

Work Order #2501058

Enclosed are the results of analyses for samples received by Summit Scientific on 01/07/25 17:44. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "Natalie Tessier". The signature is fluid and cursive, with the first name being more prominent.

Natalie Tessier For Paul Shrewsbury

President



Tasman Geosciences
6855 W. 119th Ave.
Broomfield CO, 80020

Project: P66/DCP - 4 Parmlee (H-6-9) 03/2024

Project Number: [none]

Project Manager: Brian Humphrey

Reported:
03/12/25 09:54

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW08@45'	2501058-01	Soil	01/07/25 11:34	01/07/25 17:44
MW08@54'	2501058-02	Soil	01/07/25 11:39	01/07/25 17:44

SUMMIT SCIENTIFIC

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

Lab ID	Page 1 of 1
2501058	

Client: <u>Tasman</u> <u>DLF/166</u>		Send Data To:		Send Invoice To:	
Address: <u>6855 W 119th Ave</u>		Project Manager: <u>Stephen Weather, Brian Humphrey</u>		Company: <u>Tasman</u>	
City/State/Zip: <u>Broomfield / CO / 80220</u>		E-Mail: <u>stephen.weather@tasman.com</u>		Project Name/Location: <u>4 Permirec (H-6-2)</u>	
Phone: <u>303-487-1228</u>		b.humphrey@tasman.com		AFE#:	
Sampler Name: <u>B. Ulrich</u>		Project Name: <u>4 Permirec (H-6-4) 2/22/24</u>		PO/Billing Codes:	
		Project Number:		Contact: <u>Brian Humphrey</u>	

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	MW03045'	1-7-25	1134	2			X			X				Full table 9/15-1								
2	MW03054'	↓	1139	↓			↓			↓												
3																						
4																						
5																						
6																						
7																						
8																						
9																						
10																						
11																						
12																						
13																						
14																						
15	/																					

Relinquished by: <u>[Signature]</u>	Date/Time: <u>1-7-25 1642</u>	Received by: <u>Tasman backbox</u>	Date/Time: <u>1-7-25 1642</u>	TAT Business Days	Field DO	Notes:
Relinquished by: <u>Tasman backbox</u>	Date/Time: <u>1725 1744</u>	Received by: <u>[Signature]</u>	Date/Time: <u>1725 1744</u>	Same Day	Field EC	
Relinquished by:	Date/Time:	Received by:	Date/Time:	1 Day	Field ORP	
				2 Days	Field pH	
				3 Days	Field Temp.	
Temperature Upon Receipt: <u>4.7</u>	Corrected Temperature: <u>6</u>	IR gun #: <u>1</u>	HNO3 lot #: <u>X</u>	Standard	Field Turb.	

S₂

Sample Receipt Checklist

S2 Work Order# 2501058Client: DCP/Ree/TasmanClient Project ID: Four Parmlee (H-6-a) 3/2024Shipped Via: H.D./P.U./FedEx/UPS/USPS/Other ☐

Airbill #:

<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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Matrix (Check all that apply)

Air

☐

Soil

☒☐

Water

☐

Other

☐

Temp (°C)

4.7

Thermometer #

1

	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"/>	<u>on ice</u>
If custody seals are present, are they intact? ⁽¹⁾	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input 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.
AS
Custodian Printed Name

1/7/25
Date/Time



Tasman Geosciences
6855 W. 119th Ave.
Broomfield CO, 80020

Project: P66/DCP - 4 Parmlee (H-6-9) 03/2024

Project Number: [none]
Project Manager: Brian Humphrey

Reported:
03/12/25 09:54

MW08@45'
2501058-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **01/07/25 11:34**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BIA0412	01/10/25	01/14/25	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **01/07/25 11:34**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0415	104 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0404	101 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0391	97.8 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **01/07/25 11:34**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BIA0418	01/10/25	01/15/25	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **01/07/25 11:34**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	7.68	61.4 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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PAH by EPA Method 8270D SIM

Date Sampled: **01/07/25 11:34**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BIA0489	01/13/25	01/21/25	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **01/07/25 11:34**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0213	63.9 %	40-140		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0225	67.6 %	40-140		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **01/07/25 11:34**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BIB0921	02/18/25	02/24/25	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **01/07/25 11:34**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project Number: [none]
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Reported:
03/12/25 09:54

MW08@45'
2501058-01 (Soil)

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Total Metals by EPA 6020B

Arsenic	6.60	0.200	mg/kg dry	1	BIB1244	02/21/25	03/07/25	EPA 6020B
Barium	89.3	0.400	"	"	"	"	"	"
Cadmium	0.361	0.200	"	"	"	"	"	"
Copper	7.06	0.400	"	"	"	"	"	"
Lead	15.5	0.200	"	"	"	"	"	"
Nickel	7.81	0.400	"	"	"	"	"	"
Silver	0.140	0.0200	"	"	"	"	"	"
Zinc	36.6	0.400	"	"	"	"	"	"
Selenium	0.273	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **01/07/25 11:34**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BIA1098	01/23/25	01/24/25	EPA 7196A	

Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction

Date Sampled: **01/07/25 11:34**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	35.2	0.0500	mg/L dry	1	BIA1278	01/28/25	02/01/25	EPA 6020B	
Magnesium	12.4	0.0500	"	"	"	"	"	"	
Sodium	16.0	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **01/07/25 11:34**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Sodium Adsorption Ratio	0.591	0.00100	units	1	BIB0028	02/03/25	02/03/25	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **01/07/25 11:34**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						

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03/12/25 09:54

MW08@45'
2501058-01 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	86.1	%	1	BIA1255	01/28/25	01/28/25	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **01/07/25 11:34**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.309	0.0100	mmhos/cm	1	BIA1273	01/28/25	01/30/25	EPA 120.1	

Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction

Date Sampled: **01/07/25 11:34**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.16		pH Units	1	BIA1266	01/28/25	01/30/25	EPA 9045D	

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03/12/25 09:54

MW08@54'
2501058-02 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **01/07/25 11:39**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	BIA0412	01/10/25	01/14/25	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	
Naphthalene	ND	0.0038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50	"	"	"	"	"	"	

Date Sampled: **01/07/25 11:39**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4	0.0392	97.9 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0399	99.8 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0383	95.7 %	50-150		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **01/07/25 11:39**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	BIA0418	01/10/25	01/15/25	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **01/07/25 11:39**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl	7.78	62.2 %	30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

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03/12/25 09:54

MW08@54'
2501058-02 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **01/07/25 11:39**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BIA0489	01/13/25	01/21/25	EPA 8270D SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	"	"	"	"	"	"	
Chrysene	ND	0.00500	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.00500	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	"	"	"	"	"	"	
Fluorene	ND	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.00500	"	"	"	"	"	"	

Date Sampled: **01/07/25 11:39**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0174	52.1 %	40-140		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0194	58.1 %	40-140		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **01/07/25 11:39**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L	1	BIB0921	02/18/25	02/24/25	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **01/07/25 11:39**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Project Manager: Brian Humphrey

Reported:
03/12/25 09:54

MW08@54'
2501058-02 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Arsenic	5.31	0.200	mg/kg dry	1	BIB1244	02/21/25	03/07/25	EPA 6020B
Barium	41.5	0.400	"	"	"	"	"	"
Cadmium	0.449	0.200	"	"	"	"	"	"
Copper	9.94	0.400	"	"	"	"	"	"
Lead	21.1	0.200	"	"	"	"	"	"
Nickel	7.58	0.400	"	"	"	"	"	"
Silver	0.169	0.0200	"	"	"	"	"	"
Zinc	39.8	0.400	"	"	"	"	"	"
Selenium	0.354	0.260	"	"	"	"	"	"

Hexavalent Chromium by EPA Method 7196

Date Sampled: **01/07/25 11:39**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BIA1098	01/23/25	01/24/25	EPA 7196A	

Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction

Date Sampled: **01/07/25 11:39**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	32.3	0.0500	mg/L dry	1	BIA1278	01/28/25	02/01/25	EPA 6020B	
Magnesium	11.2	0.0500	"	"	"	"	"	"	
Sodium	18.3	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **01/07/25 11:39**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Sodium Adsorption Ratio	0.707	0.00100	units	1	BIB0028	02/03/25	02/03/25	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **01/07/25 11:39**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						

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Project: P66/DCP - 4 Parmlee (H-6-9) 03/2024

Project Number: [none]
Project Manager: Brian Humphrey

Reported:
03/12/25 09:54

MW08@54'
2501058-02 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

% Solids	85.3	%	1	BIA1255	01/28/25	01/28/25	Calculation
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Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **01/07/25 11:39**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.305	0.0100	mmhos/cm	1	BIA1273	01/28/25	01/30/25	EPA 120.1	

Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction

Date Sampled: **01/07/25 11:39**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.21		pH Units	1	BIA1266	01/28/25	01/30/25	EPA 9045D	

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Project Number: [none]
Project Manager: Brian Humphrey

Reported:
03/12/25 09:54

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

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

Batch BIA0412 - EPA 5030 Soil MS

Blank (BIA0412-BLK1)

Prepared: 01/10/25 Analyzed: 01/13/25

Benzene	ND	0.0020	mg/kg							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.010	"							
1,2,4-Trimethylbenzene	ND	0.0050	"							
1,3,5-Trimethylbenzene	ND	0.0050	"							
Naphthalene	ND	0.0038	"							
Gasoline Range Hydrocarbons	ND	0.50	"							
Surrogate: 1,2-Dichloroethane-d4	0.0406		"	0.0400		101	50-150			
Surrogate: Toluene-d8	0.0398		"	0.0400		99.5	50-150			
Surrogate: 4-Bromofluorobenzene	0.0390		"	0.0400		97.4	50-150			

LCS (BIA0412-BS1)

Prepared: 01/10/25 Analyzed: 01/13/25

Benzene	0.106	0.0020	mg/kg	0.100		106	70-130			
Toluene	0.104	0.0050	"	0.100		104	70-130			
Ethylbenzene	0.115	0.0050	"	0.100		115	70-130			
m,p-Xylene	0.217	0.010	"	0.200		108	70-130			
o-Xylene	0.104	0.0050	"	0.100		104	70-130			
1,2,4-Trimethylbenzene	0.105	0.0050	"	0.100		105	70-130			
1,3,5-Trimethylbenzene	0.107	0.0050	"	0.100		107	70-130			
Naphthalene	0.0954	0.0038	"	0.100		95.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0404		"	0.0400		101	50-150			
Surrogate: Toluene-d8	0.0403		"	0.0400		101	50-150			
Surrogate: 4-Bromofluorobenzene	0.0393		"	0.0400		98.2	50-150			

Matrix Spike (BIA0412-MS1)

Source: 2501041-01

Prepared: 01/10/25 Analyzed: 01/13/25

Benzene	0.102	0.0020	mg/kg	0.100	ND	102	70-130			
Toluene	0.101	0.0050	"	0.100	ND	101	70-130			
Ethylbenzene	0.107	0.0050	"	0.100	ND	107	70-130			
m,p-Xylene	0.204	0.010	"	0.200	ND	102	70-130			
o-Xylene	0.0968	0.0050	"	0.100	ND	96.8	70-130			
1,2,4-Trimethylbenzene	0.0945	0.0050	"	0.100	ND	94.5	70-130			
1,3,5-Trimethylbenzene	0.0973	0.0050	"	0.100	ND	97.3	70-130			
Naphthalene	0.0901	0.0038	"	0.100	ND	90.1	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0404		"	0.0400		101	50-150			
Surrogate: Toluene-d8	0.0413		"	0.0400		103	50-150			
Surrogate: 4-Bromofluorobenzene	0.0390		"	0.0400		97.5	50-150			

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6855 W. 119th Ave.
Broomfield CO, 80020

Project: P66/DCP - 4 Parmlee (H-6-9) 03/2024

Project Number: [none]
Project Manager: Brian Humphrey

Reported:
03/12/25 09:54

Volatile Organic Compounds by EPA Method 8260B - Quality Control
Summit Scientific

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

Batch BIA0412 - EPA 5030 Soil MS

Matrix Spike Dup (BIA0412-MSD1)	Source: 2501041-01			Prepared: 01/10/25 Analyzed: 01/13/25						
Benzene	0.105	0.0020	mg/kg	0.100	ND	105	70-130	2.47	30	
Toluene	0.101	0.0050	"	0.100	ND	101	70-130	0.0296	30	
Ethylbenzene	0.107	0.0050	"	0.100	ND	107	70-130	0.869	30	
m,p-Xylene	0.199	0.010	"	0.200	ND	99.7	70-130	2.13	30	
o-Xylene	0.0964	0.0050	"	0.100	ND	96.4	70-130	0.404	30	
1,2,4-Trimethylbenzene	0.0914	0.0050	"	0.100	ND	91.4	70-130	3.29	30	
1,3,5-Trimethylbenzene	0.0934	0.0050	"	0.100	ND	93.4	70-130	4.09	30	
Naphthalene	0.0839	0.0038	"	0.100	ND	83.9	70-130	7.07	30	
Surrogate: 1,2-Dichloroethane-d4	0.0416		"	0.0400		104	50-150			
Surrogate: Toluene-d8	0.0406		"	0.0400		102	50-150			
Surrogate: 4-Bromofluorobenzene	0.0400		"	0.0400		100	50-150			

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Project: P66/DCP - 4 Parmlee (H-6-9) 03/2024

Project Number: [none]
Project Manager: Brian Humphrey

Reported:
03/12/25 09:54

Extractable Petroleum Hydrocarbons by 8015 - Quality Control
Summit Scientific

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

Batch BIA0418 - EPA 3550A

Blank (BIA0418-BLK1)

Prepared: 01/10/25 Analyzed: 01/15/25

C10-C28 (DRO)	ND	50	mg/kg							
C28-C36 (ORO)	ND	50	"							
Surrogate: o-Terphenyl	14.3		"	12.5		114	30-150			

LCS (BIA0418-BS1)

Prepared: 01/10/25 Analyzed: 01/15/25

C10-C28 (DRO)	605	50	mg/kg	500		121	70-130			
Surrogate: o-Terphenyl	18.2		"	12.5		146	30-150			

Matrix Spike (BIA0418-MS1)

Source: 2501041-01

Prepared: 01/10/25 Analyzed: 01/15/25

C10-C28 (DRO)	534	50	mg/kg	500	21.9	103	70-130			
Surrogate: o-Terphenyl	12.9		"	12.5		104	30-150			

Matrix Spike Dup (BIA0418-MSD1)

Source: 2501041-01

Prepared: 01/10/25 Analyzed: 01/15/25

C10-C28 (DRO)	520	50	mg/kg	500	21.9	99.5	70-130	2.83	20	
Surrogate: o-Terphenyl	14.2		"	12.5		113	30-150			

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Project: P66/DCP - 4 Parmlee (H-6-9) 03/2024

Project Number: [none]
Project Manager: Brian Humphrey

Reported:
03/12/25 09:54

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BIA0489 - EPA 5030 Soil MS

Blank (BIA0489-BLK1)

Prepared: 01/13/25 Analyzed: 01/21/25

Acenaphthene	ND	0.00500	mg/kg							
Anthracene	ND	0.00500	"							
Benzo (a) anthracene	ND	0.00500	"							
Benzo (a) pyrene	ND	0.00500	"							
Benzo (b) fluoranthene	ND	0.00500	"							
Benzo (k) fluoranthene	ND	0.00500	"							
Chrysene	ND	0.00500	"							
Dibenz (a,h) anthracene	ND	0.00500	"							
Fluoranthene	ND	0.00500	"							
Fluorene	ND	0.00500	"							
Indeno (1,2,3-cd) pyrene	ND	0.00500	"							
Pyrene	ND	0.00500	"							
1-Methylnaphthalene	ND	0.00500	"							
2-Methylnaphthalene	ND	0.00500	"							
Surrogate: 2-Methylnaphthalene-d10	0.0270		"	0.0333		81.0	40-140			
Surrogate: Fluoranthene-d10	0.0289		"	0.0333		86.7	40-140			

LCS (BIA0489-BS1)

Prepared: 01/13/25 Analyzed: 01/21/25

Acenaphthene	0.0226	0.00500	mg/kg	0.0333		67.7	40-140			
Anthracene	0.0240	0.00500	"	0.0333		72.1	40-140			
Benzo (a) anthracene	0.0255	0.00500	"	0.0333		76.6	40-140			
Benzo (a) pyrene	0.0226	0.00500	"	0.0333		67.7	40-140			
Benzo (b) fluoranthene	0.0227	0.00500	"	0.0333		68.2	40-140			
Benzo (k) fluoranthene	0.0237	0.00500	"	0.0333		71.2	40-140			
Chrysene	0.0250	0.00500	"	0.0333		75.0	40-140			
Dibenz (a,h) anthracene	0.0245	0.00500	"	0.0333		73.4	40-140			
Fluoranthene	0.0250	0.00500	"	0.0333		74.9	40-140			
Fluorene	0.0223	0.00500	"	0.0333		66.9	40-140			
Indeno (1,2,3-cd) pyrene	0.0155	0.00500	"	0.0333		46.6	40-140			
Pyrene	0.0261	0.00500	"	0.0333		78.3	40-140			
1-Methylnaphthalene	0.0247	0.00500	"	0.0333		74.2	40-140			
2-Methylnaphthalene	0.0272	0.00500	"	0.0333		81.6	40-140			
Surrogate: 2-Methylnaphthalene-d10	0.0239		"	0.0333		71.8	40-140			
Surrogate: Fluoranthene-d10	0.0267		"	0.0333		80.0	40-140			

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Project: P66/DCP - 4 Parmlee (H-6-9) 03/2024

Project Number: [none]
Project Manager: Brian Humphrey

Reported:
03/12/25 09:54

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BIA0489 - EPA 5030 Soil MS

Matrix Spike (BIA0489-MS1)

Source: 2501057-01

Prepared: 01/13/25 Analyzed: 01/21/25

Acenaphthene	0.0227	0.00500	mg/kg	0.0333	ND	68.1	40-140			
Anthracene	0.0237	0.00500	"	0.0333	ND	71.1	40-140			
Benzo (a) anthracene	0.0241	0.00500	"	0.0333	ND	72.4	40-140			
Benzo (a) pyrene	0.0207	0.00500	"	0.0333	ND	62.2	40-140			
Benzo (b) fluoranthene	0.0206	0.00500	"	0.0333	ND	61.8	40-140			
Benzo (k) fluoranthene	0.0210	0.00500	"	0.0333	ND	62.9	40-140			
Chrysene	0.0232	0.00500	"	0.0333	ND	69.7	40-140			
Dibenz (a,h) anthracene	0.0241	0.00500	"	0.0333	ND	72.2	40-140			
Fluoranthene	0.0232	0.00500	"	0.0333	ND	69.6	40-140			
Fluorene	0.0227	0.00500	"	0.0333	ND	68.1	40-140			
Indeno (1,2,3-cd) pyrene	0.0153	0.00500	"	0.0333	ND	45.8	40-140			
Pyrene	0.0232	0.00500	"	0.0333	ND	69.5	40-140			
1-Methylnaphthalene	0.0248	0.00500	"	0.0333	ND	74.5	40-140			
2-Methylnaphthalene	0.0271	0.00500	"	0.0333	ND	81.3	40-140			
Surrogate: 2-Methylnaphthalene-d10	0.0233		"	0.0333		69.9	40-140			
Surrogate: Fluoranthene-d10	0.0257		"	0.0333		77.1	40-140			

Matrix Spike Dup (BIA0489-MSD1)

Source: 2501057-01

Prepared: 01/13/25 Analyzed: 01/21/25

Acenaphthene	0.0160	0.00500	mg/kg	0.0333	ND	47.9	40-140	34.8	30	QR-02
Anthracene	0.0160	0.00500	"	0.0333	ND	48.1	40-140	38.6	30	QR-02
Benzo (a) anthracene	0.0166	0.00500	"	0.0333	ND	49.9	40-140	36.8	30	QR-02
Benzo (a) pyrene	0.0143	0.00500	"	0.0333	ND	43.0	40-140	36.6	30	QR-02
Benzo (b) fluoranthene	0.0140	0.00500	"	0.0333	ND	41.9	40-140	38.3	30	QR-02
Benzo (k) fluoranthene	0.0143	0.00500	"	0.0333	ND	42.9	40-140	37.8	30	QR-02
Chrysene	0.0160	0.00500	"	0.0333	ND	48.1	40-140	36.7	30	QR-02
Dibenz (a,h) anthracene	0.0192	0.00500	"	0.0333	ND	57.6	40-140	22.6	30	
Fluoranthene	0.0166	0.00500	"	0.0333	ND	49.9	40-140	33.1	30	QR-02
Fluorene	0.0169	0.00500	"	0.0333	ND	50.7	40-140	29.4	30	
Indeno (1,2,3-cd) pyrene	0.0177	0.00500	"	0.0333	ND	53.1	40-140	14.7	30	
Pyrene	0.0162	0.00500	"	0.0333	ND	48.6	40-140	35.3	30	QR-02
1-Methylnaphthalene	0.0180	0.00500	"	0.0333	ND	53.9	40-140	32.2	30	QR-02
2-Methylnaphthalene	0.0202	0.00500	"	0.0333	ND	60.5	40-140	29.4	30	
Surrogate: 2-Methylnaphthalene-d10	0.0166		"	0.0333		49.9	40-140			
Surrogate: Fluoranthene-d10	0.0173		"	0.0333		51.9	40-140			

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Tasman Geosciences
6855 W. 119th Ave.
Broomfield CO, 80020

Project: P66/DCP - 4 Parmlee (H-6-9) 03/2024

Project Number: [none]
Project Manager: Brian Humphrey

Reported:
03/12/25 09:54

Total Metals by EPA 6020B Hot Water Soluble Extraction - Quality Control
Summit Scientific

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

Batch BIB0921 - EPA 3050B

Blank (BIB0921-BLK1)

Prepared: 02/18/25 Analyzed: 02/24/25

Boron ND 2.00 mg/L

LCS (BIB0921-BS1)

Prepared: 02/18/25 Analyzed: 02/24/25

Boron 4.61 2.00 mg/L 5.00 92.2 80-120

Duplicate (BIB0921-DUP1)

Source: 2501057-04

Prepared: 02/18/25 Analyzed: 02/24/25

Boron ND 2.00 mg/L ND 20

Matrix Spike (BIB0921-MS1)

Source: 2501057-04

Prepared: 02/18/25 Analyzed: 02/24/25

Boron 4.72 2.00 mg/L 5.02 ND 94.1 75-125

Matrix Spike Dup (BIB0921-MSD1)

Source: 2501057-04

Prepared: 02/18/25 Analyzed: 02/24/25

Boron 4.81 2.00 mg/L 5.02 ND 96.0 75-125 2.05 25

Summit Scientific

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Tasman Geosciences
6855 W. 119th Ave.
Broomfield CO, 80020

Project: P66/DCP - 4 Parmlee (H-6-9) 03/2024

Project Number: [none]
Project Manager: Brian Humphrey

Reported:
03/12/25 09:54

Total Metals by EPA 6020B - Quality Control

Summit Scientific

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

Batch BIB1244 - EPA 3050B

Blank (BIB1244-BLK1)

Prepared: 02/21/25 Analyzed: 03/07/25

Arsenic	ND	0.200	mg/kg wet
Barium	ND	0.400	"
Cadmium	ND	0.200	"
Copper	ND	0.400	"
Lead	ND	0.200	"
Nickel	ND	0.400	"
Silver	ND	0.0200	"
Zinc	ND	0.400	"
Selenium	ND	0.260	"

LCS (BIB1244-BS1)

Prepared: 02/21/25 Analyzed: 03/07/25

Arsenic	39.1	0.200	mg/kg wet	39.7	98.7	80-120
Barium	42.3	0.400	"	39.7	107	80-120
Cadmium	2.06	0.200	"	1.98	104	80-120
Copper	42.7	0.400	"	39.7	108	80-120
Lead	20.2	0.200	"	19.8	102	80-120
Nickel	41.9	0.400	"	39.7	105	80-120
Silver	2.13	0.0200	"	1.98	107	80-120
Zinc	42.7	0.400	"	39.7	108	80-120
Selenium	3.93	0.260	"	3.97	99.1	80-120

Duplicate (BIB1244-DUP1)

Source: 2501029-20

Prepared: 02/21/25 Analyzed: 03/07/25

Arsenic	32.2	0.200	mg/kg dry	26.4	20.0	20
Barium	49.1	0.400	"	44.6	9.64	20
Cadmium	0.190	0.200	"	0.186	2.41	20
Copper	6.44	0.400	"	5.60	14.0	20
Lead	15.7	0.200	"	14.1	10.4	20
Nickel	7.87	0.400	"	7.13	9.92	20
Silver	0.0609	0.0200	"	0.0337	57.4	20
Zinc	33.7	0.400	"	30.8	9.09	20
Selenium	ND	0.260	"	ND		20

QR-04

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Project: P66/DCP - 4 Parmlee (H-6-9) 03/2024

Project Number: [none]
Project Manager: Brian Humphrey

Reported:
03/12/25 09:54

Total Metals by EPA 6020B - Quality Control

Summit Scientific

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

Batch BIB1244 - EPA 3050B

Matrix Spike (BIB1244-MS1)		Source: 2501029-20			Prepared: 02/21/25 Analyzed: 03/07/25					
Arsenic	82.0	0.200	mg/kg dry	53.2	26.4	105	75-125			
Barium	97.0	0.400	"	53.2	44.6	98.4	75-125			
Cadmium	3.07	0.200	"	2.66	0.186	108	75-125			
Copper	35.8	0.400	"	53.2	5.60	56.6	75-125			QM-05
Lead	42.4	0.200	"	26.6	14.1	106	75-125			
Nickel	37.7	0.400	"	53.2	7.13	57.4	75-125			QM-05
Silver	2.85	0.0200	"	2.66	0.0337	106	75-125			
Zinc	62.6	0.400	"	53.2	30.8	59.8	75-125			QM-05
Selenium	4.27	0.260	"	5.32	ND	80.1	75-125			

Matrix Spike Dup (BIB1244-MSD1)		Source: 2501029-20			Prepared: 02/21/25 Analyzed: 03/07/25					
Arsenic	88.0	0.200	mg/kg dry	54.1	26.4	114	75-125	7.07	25	
Barium	95.4	0.400	"	54.1	44.6	93.8	75-125	1.66	25	
Cadmium	2.94	0.200	"	2.71	0.186	102	75-125	4.56	25	
Copper	36.8	0.400	"	54.1	5.60	57.7	75-125	2.98	25	QM-05
Lead	41.8	0.200	"	27.1	14.1	102	75-125	1.49	25	
Nickel	38.0	0.400	"	54.1	7.13	57.1	75-125	0.966	25	QM-05
Silver	2.75	0.0200	"	2.71	0.0337	100	75-125	3.56	25	
Zinc	64.2	0.400	"	54.1	30.8	61.6	75-125	2.45	25	QM-05
Selenium	4.49	0.260	"	5.41	ND	82.9	75-125	5.09	25	

Summit Scientific

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6855 W. 119th Ave.
Broomfield CO, 80020

Project: P66/DCP - 4 Parmlee (H-6-9) 03/2024

Project Number: [none]
Project Manager: Brian Humphrey

Reported:
03/12/25 09:54

Hexavalent Chromium by EPA Method 7196 - Quality Control
Summit Scientific

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

Batch BIA1098 - 3060A Mod

Blank (BIA1098-BLK1)

Prepared: 01/23/25 Analyzed: 01/24/25

Chromium, Hexavalent ND 0.30 mg/kg wet

LCS (BIA1098-BS1)

Prepared: 01/23/25 Analyzed: 01/24/25

Chromium, Hexavalent 26.3 0.30 mg/kg wet 24.8 106 80-120

Duplicate (BIA1098-DUP1)

Source: 2501055-16

Prepared: 01/23/25 Analyzed: 01/24/25

Chromium, Hexavalent ND 0.30 mg/kg dry ND 20

Matrix Spike (BIA1098-MS1)

Source: 2501055-16

Prepared: 01/23/25 Analyzed: 01/24/25

Chromium, Hexavalent 32.9 0.30 mg/kg dry 29.5 ND 111 75-125

Matrix Spike Dup (BIA1098-MSD1)

Source: 2501055-16

Prepared: 01/23/25 Analyzed: 01/24/25

Chromium, Hexavalent 27.4 0.30 mg/kg dry 29.3 ND 93.8 75-125 18.1 20

Summit Scientific

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Tasman Geosciences
6855 W. 119th Ave.
Broomfield CO, 80020

Project: P66/DCP - 4 Parmlee (H-6-9) 03/2024

Project Number: [none]
Project Manager: Brian Humphrey

Reported:
03/12/25 09:54

Soluble Nutrients by EPA 6020/USDA60 6(2) - Saturated Paste Extraction - Quality Control
Summit Scientific

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

Batch BIA1278 - General Preparation

Blank (BIA1278-BLK1)

Prepared: 01/28/25 Analyzed: 02/01/25

Calcium	ND	0.0500	mg/L wet
Magnesium	ND	0.0500	"
Sodium	ND	0.0500	"

LCS (BIA1278-BS1)

Prepared: 01/28/25 Analyzed: 02/01/25

Calcium	5.07	0.0500	mg/L wet	5.00	101	70-130
Magnesium	5.00	0.0500	"	5.00	99.9	70-130
Sodium	4.82	0.0500	"	5.00	96.3	70-130

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.



Tasman Geosciences
6855 W. 119th Ave.
Broomfield CO, 80020

Project: P66/DCP - 4 Parmlee (H-6-9) 03/2024

Project Number: [none]
Project Manager: Brian Humphrey

Reported:
03/12/25 09:54

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

Summit Scientific

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

Batch BIA1255 - General Preparation

Duplicate (BIA1255-DUP1)

Source: 2501057-01

Prepared & Analyzed: 01/28/25

% Solids	84.6	%	84.1	0.575	20
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Summit Scientific

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Tasman Geosciences
6855 W. 119th Ave.
Broomfield CO, 80020

Project: P66/DCP - 4 Parmlee (H-6-9) 03/2024

Project Number: [none]
Project Manager: Brian Humphrey

Reported:
03/12/25 09:54

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction - Quality Control
Summit Scientific

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

Batch BIA1273 - General Preparation

Blank (BIA1273-BLK1)

Prepared: 01/28/25 Analyzed: 01/30/25

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BIA1273-BS1)

Prepared: 01/28/25 Analyzed: 01/30/25

Specific Conductance (EC) 1.35 0.0100 mmhos/cm 1.41 95.9 95-105

Duplicate (BIA1273-DUP1)

Source: 2501055-19

Prepared: 01/28/25 Analyzed: 01/30/25

Specific Conductance (EC) 1.78 0.0100 mmhos/cm 1.79 0.675 20

Summit Scientific

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Tasman Geosciences
6855 W. 119th Ave.
Broomfield CO, 80020

Project: P66/DCP - 4 Parmlee (H-6-9) 03/2024

Project Number: [none]
Project Manager: Brian Humphrey

Reported:
03/12/25 09:54

Physical Parameters by APHA/ASTM/EPA Methods, Saturated Paste Extraction - Quality Control
Summit Scientific

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

Batch BIA1266 - General Preparation

LCS (BIA1266-BS1)

Prepared: 01/28/25 Analyzed: 01/30/25

pH	9.12	pH Units	9.18	99.4	95-105
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Duplicate (BIA1266-DUP1)

Source: 2501055-19

Prepared: 01/28/25 Analyzed: 01/30/25

pH	9.06	pH Units	9.13	0.770	20
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Summit Scientific

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Tasman Geosciences
6855 W. 119th Ave.
Broomfield CO, 80020

Project: P66/DCP - 4 Parmlee (H-6-9) 03/2024

Project Number: [none]
Project Manager: Brian Humphrey

Reported:
03/12/25 09:54

Notes and Definitions

QR-04	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits. Sample results were accepted based on LCS and/or LCSD recoveries and/or RPD values.
QR-02	The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
QM-05	The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. Sample results were accepted based on LCS and/or LCSD recoveries and/or RPD values.
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