

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

June 26, 2025

Mike Medina

Tasman Geosciences

4725 Independence St.

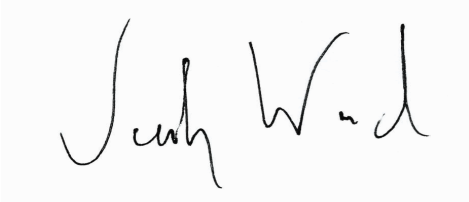
Wheat Ridge, CO 80033

RE: Noble - Darlene Dinnel 01 Tank Battery

Work Order #2504225

Enclosed are the results of analyses for samples received by Summit Scientific on 04/11/25 17:55. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black 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

Please Note - Out-of-Hold Results Included:

The 8260B GBTEXN 915 analyses were analyzed outside of allotted holding times due to delays at Summit Scientific.



Tasman Geosciences
 4725 Independence St.
 Wheat Ridge CO, 80033

Project: Noble - Darlene Dinnel 01 Tank Battery

Project Number: [none]
 Project Manager: Mike Medina

Reported:
 06/26/25 11:17

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SB01@3-4'	2504225-01	Soil	04/11/25 11:05	04/11/25 17:55
SB01@8-9'	2504225-02	Soil	04/11/25 11:25	04/11/25 17:55
SB02@6-7'	2504225-03	Soil	04/11/25 12:05	04/11/25 17:55
SB02@11-12'	2504225-04	Soil	04/11/25 12:30	04/11/25 17:55
SB03@5-6'	2504225-05	Soil	04/11/25 12:45	04/11/25 17:55
SB03@9-10'	2504225-06	Soil	04/11/25 13:00	04/11/25 17:55
SB10@5-6'	2504225-07	Soil	04/11/25 13:15	04/11/25 17:55
SB10@9-10'	2504225-08	Soil	04/11/25 13:20	04/11/25 17:55
GW01	2504225-09	Water	04/11/25 11:40	04/11/25 17:55
GW02	2504225-10	Water	04/11/25 12:35	04/11/25 17:55

Case Narrative

Samples SB02@11-12' and SB10@9-10' showed evidence of carry-over during initial 8260 analysis.


These samples have been reran outside of recommend hold-time.

The 8260B GBTEXN 915 analyses were completed out of the allotted holding times due to delays at Summit Scientific.

This report has been revised to include the proper hold-time qualifiers.

This is a revision of the report originally sent on 06/09/2025 at 09:38 AM MT.

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.



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

Lab ID	Page of
2504225	

Client: Noble / Tasman	Project Manager: Mike Medina	Send Invoice To:
Address: 4725 Independence St.	E-Mail: danpeterson@chevron.com; tas-chevron-2@tasman-geo.com;	Company: Noble Energy
City/State/Zip: Wheat Ridge / CO / 80033	rbueuf27@chevron.com	Project Name/Location: Darkene Dinnel Tank Battery
Phone: 303-487-1228	Project Name: Darkene Dinnel Tank Battery	AFE#:
Sampler Name: Rachael Noble, Jon Meier	Project Number:	PO/Billing Codes:
		Contact: Dan Peterson

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix		Air-Canister #	Other	Analysis Requested					Special Instructions
					HCl	HNO3	None	Other	Water	Soil			BTEXN - 8260B	1,2,4 & 1,3,5-TMB	TDS, Cl, SO4	Full 915-1 Suite	pH, EC, SAR, boron	
1	SB01 @ 3-4'	4/11/25	1105	2			X			X						X		
2	SB01 @ 8-9'		1125															
3	SB02 @ 6-7'		1205															
4	SB02 @ 11-12'		1230															
5	SB03 @ 5-6'		1245															
6	SB03 @ 9-10'		1300															
7	SB10 @ 5-6'		1315															
8	SB10 @ 9-10'		1320	↓														
9	GW01		1140	4	3			X				X	X	X				
10	GW02	↓	1235	↓	↓			↓				↓	↓	↓				
11																		
12																		
13																		
14																		
15																		

Relinquished by: Rachael Noble	Date/Time: 4/11/2025 1545	Received by: Tasman Lockbox	Date/Time: 4/11/20 1545	TAT Business Days	Field DO	Notes:
				Same Day	Field EC	
Relinquished by: Tasman Lockbox	Date/Time: 4/11/25 1755	Received by: [Signature]	Date/Time: 4/11/25 1755	1 Day	Field ORP	
				2 Days	Field pH	
Relinquished by:	Date/Time:	Received by:	Date/Time:	3 Days	Field Temp.	
				Standard	Field Turb.	
Temperature Upon Receipt: 1.3	Corrected Temperature: 6	IR gun #:		HNO3 lot #:		

S₂

S2 Work Order# 2504225

Sample Receipt Checklist

Client: Noble Fawcett Client Project ID: Darlene Dinnel Tank DuffellReceived Via: H.D. P.U. FedEx/UPS/USPS/Other Airbill #: _____Matrix (Circle all that apply) Air Soil Water Other Temp (°C) Thermometer # Bottle ware (Circle all that apply) Glass Jar Voa Amber Poly Other

	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.	-			on ice
If custody seals are present, are they intact? ⁽¹⁾	-			
Are samples due within 48 hours?		-		
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, Total Residual Chlorine (TRC)		-		
Is a chain-of-custody (COC) form present and filled out Completely? ⁽¹⁾	-			
Is the COC properly relinquished by the client w/ date and time recorded? ⁽¹⁾	-			
Were all samples received intact? ⁽¹⁾	✓			
Was adequate sample volume provided? ⁽¹⁾	-			
Were samples provided in appropriate bottle ware?	✓			
Does the COC agree with the number and type of sample bottles received? ⁽¹⁾	✓			
Do the sample IDs on the bottle labels match the COC? ⁽¹⁾	✓			
For volatiles in water – is there headspace present? If yes, contact client and note in narrative.		-		
Are any samples/bottles preserved (excluding cooling)? ⁽¹⁾ Note the type of preservative in the comments column – HCl, H ₂ SO ₄ , NaOH, HNO ₃ , etc.	✓			HCl
If samples are acid preserved for metals, is the pH ≤ 2? ⁽¹⁾ Record the pH in Comments.			-	
If dissolved metals are requested, were samples field filtered?		-		
Are there requested analysis that cannot be performed by S2? Note analysis in the comments column		✓		
Additional Comments (if any):				

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

Control Form #: SRC-001

SN
Custodian Printed Name

4/11/25
Date/Time



Tasman Geosciences
4725 Independence St.
Wheat Ridge CO, 80033

Project: Noble - Darlene Dinnel 01 Tank Battery

Project Number: [none]
Project Manager: Mike Medina

Reported:
06/26/25 11:17

SB01@3-4'
2504225-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **04/11/25 11:05**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	BID0894	04/15/25	05/11/25	EPA 8260B	I-02
Toluene	ND	0.0050		"	"	"	"	"	"	I-02
Ethylbenzene	ND	0.0050		"	"	"	"	"	"	I-02
Xylenes (total)	ND	0.010		"	"	"	"	"	"	I-02
1,2,4-Trimethylbenzene	ND	0.0050		"	"	"	"	"	"	I-02
1,3,5-Trimethylbenzene	ND	0.0050		"	"	"	"	"	"	I-02
Naphthalene	ND	0.0038		"	"	"	"	"	"	I-02
Gasoline Range Hydrocarbons	ND	0.50		"	"	"	"	"	"	I-02

Date Sampled: **04/11/25 11:05**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	0.0379	94.6 %		50-150		"	"	"	"	I-02
Surrogate: Toluene-d8	0.0406	102 %		50-150		"	"	"	"	I-02
Surrogate: 4-Bromofluorobenzene	0.0384	96.0 %		50-150		"	"	"	"	I-02

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **04/11/25 11:05**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	ND	50		mg/kg	1	BID0897	04/15/25	05/17/25	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **04/11/25 11:05**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl	8.48	67.9 %		50-140		"	"	"	"	

PAH by EPA Method 8270E SIM

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Tasman Geosciences
4725 Independence St.
Wheat Ridge CO, 80033

Project: Noble - Darlene Dinnel 01 Tank Battery

Project Number: [none]
Project Manager: Mike Medina

Reported:
06/26/25 11:17

SB01@3-4'
2504225-01 (Soil)

Summit Scientific

PAH by EPA Method 8270E SIM

Date Sampled: **04/11/25 11:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BID1044	04/18/25	05/08/25	EPA 8270E 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: **04/11/25 11:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0218	65.3 %	40-140		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0243	72.8 %	40-140		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **04/11/25 11:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L dry	1	BID0805	04/15/25	04/18/25	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **04/11/25 11:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Tasman Geosciences
4725 Independence St.
Wheat Ridge CO, 80033

Project: Noble - Darlene Dinnel 01 Tank Battery

Project Number: [none]
Project Manager: Mike Medina

Reported:
06/26/25 11:17

SB01@3-4'
2504225-01 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	2.78	0.200	mg/kg dry	1	BID0729	04/14/25	05/22/25	EPA 6020B	
Barium	56.7	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	5.10	0.400	"	"	"	"	"	"	
Lead	5.16	0.200	"	"	"	"	"	"	
Nickel	4.63	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	26.3	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by HACH M8023

Date Sampled: **04/11/25 11:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BID0858	04/15/25	04/16/25	Hach 8000	

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

Date Sampled: **04/11/25 11:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	95.1	0.0500	mg/L dry	1	BIE0053	05/01/25	06/04/25	EPA 6020B	
Magnesium	27.2	0.0500	"	"	"	"	"	"	
Sodium	124	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **04/11/25 11:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	2.89	0.00100	units	1	BIF0059	06/05/25	06/05/25	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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Tasman Geosciences
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 Wheat Ridge CO, 80033

Project: Noble - Darlene Dinnel 01 Tank Battery

Project Number: [none]
 Project Manager: Mike Medina

Reported:
 06/26/25 11:17

SB01@3-4'
2504225-01 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **04/11/25 11:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	89.2		%	1	BID0818	04/15/25	04/16/25	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **04/11/25 11:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.58	0.0100	mmhos/cm	1	BIE0056	05/01/25	05/05/25	EPA 120.1	

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

Date Sampled: **04/11/25 11:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.27		pH Units	1	BIE0061	05/01/25	05/05/25	EPA 9045D	

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Tasman Geosciences
4725 Independence St.
Wheat Ridge CO, 80033

Project: Noble - Darlene Dinnel 01 Tank Battery

Project Number: [none]
Project Manager: Mike Medina

Reported:
06/26/25 11:17

SB01@8-9'
2504225-02 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **04/11/25 11:25**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	BID0894	04/15/25	05/11/25	EPA 8260B	I-02
Toluene	ND	0.0050		"	"	"	"	"	"	I-02
Ethylbenzene	ND	0.0050		"	"	"	"	"	"	I-02
Xylenes (total)	ND	0.010		"	"	"	"	"	"	I-02
1,2,4-Trimethylbenzene	ND	0.0050		"	"	"	"	"	"	I-02
1,3,5-Trimethylbenzene	ND	0.0050		"	"	"	"	"	"	I-02
Naphthalene	ND	0.0038		"	"	"	"	"	"	I-02
Gasoline Range Hydrocarbons	ND	0.50		"	"	"	"	"	"	I-02

Date Sampled: **04/11/25 11:25**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	0.0368	92.0 %		50-150		"	"	"	"	I-02
Surrogate: Toluene-d8	0.0406	101 %		50-150		"	"	"	"	I-02
Surrogate: 4-Bromofluorobenzene	0.0384	95.9 %		50-150		"	"	"	"	I-02

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **04/11/25 11:25**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	ND	50		mg/kg	1	BID0897	04/15/25	05/17/25	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **04/11/25 11:25**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl	7.90	63.2 %		50-140		"	"	"	"	

PAH by EPA Method 8270E SIM

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Project: Noble - Darlene Dinnel 01 Tank Battery

Project Number: [none]
Project Manager: Mike Medina

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06/26/25 11:17

SB01@8-9'
2504225-02 (Soil)

Summit Scientific

PAH by EPA Method 8270E SIM

Date Sampled: **04/11/25 11:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BID1044	04/18/25	05/08/25	EPA 8270E 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: **04/11/25 11:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0198	59.3 %	40-140		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0221	66.3 %	40-140		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **04/11/25 11:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L dry	1	BID0805	04/15/25	04/18/25	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **04/11/25 11:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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4725 Independence St.
Wheat Ridge CO, 80033

Project: Noble - Darlene Dinnel 01 Tank Battery

Project Number: [none]
Project Manager: Mike Medina

Reported:
06/26/25 11:17

SB01@8-9'
2504225-02 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	1.13	0.200	mg/kg dry	1	BID0729	04/14/25	05/22/25	EPA 6020B	
Barium	18.7	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	2.06	0.400	"	"	"	"	"	"	
Lead	4.18	0.200	"	"	"	"	"	"	
Nickel	7.90	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	32.6	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by HACH M8023

Date Sampled: **04/11/25 11:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BID0858	04/15/25	04/16/25	Hach 8000	

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

Date Sampled: **04/11/25 11:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	36.5	0.0500	mg/L dry	1	BIE0053	05/01/25	06/04/25	EPA 6020B	
Magnesium	9.51	0.0500	"	"	"	"	"	"	
Sodium	72.2	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **04/11/25 11:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	2.75	0.00100	units	1	BIF0059	06/05/25	06/05/25	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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4725 Independence St.
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Project: Noble - Darlene Dinnel 01 Tank Battery

Project Number: [none]
Project Manager: Mike Medina

Reported:
06/26/25 11:17

SB01@8-9'
2504225-02 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **04/11/25 11:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	81.3		%	1	BID0818	04/15/25	04/16/25	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **04/11/25 11:25**


Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.584	0.0100	mmhos/cm	1	BIE0056	05/01/25	05/05/25	EPA 120.1	

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

Date Sampled: **04/11/25 11:25**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.63		pH Units	1	BIE0061	05/01/25	05/05/25	EPA 9045D	

Summit Scientific



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Tasman Geosciences
4725 Independence St.
Wheat Ridge CO, 80033

Project: Noble - Darlene Dinnel 01 Tank Battery

Project Number: [none]
Project Manager: Mike Medina

Reported:
06/26/25 11:17

SB02@6-7'
2504225-03 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **04/11/25 12:05**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	BID0894	04/15/25	05/11/25	EPA 8260B	I-02
Toluene	ND	0.0050		"	"	"	"	"	"	I-02
Ethylbenzene	0.079	0.0050		"	"	"	"	"	"	I-02
Xylenes (total)	1.0	0.010		"	"	"	"	"	"	E, I-02
1,2,4-Trimethylbenzene	ND	0.0050		"	"	"	"	"	"	I-02, Z-01
1,3,5-Trimethylbenzene	1.0	0.0050		"	"	"	"	"	"	E, I-02
Naphthalene	0.12	0.0038		"	"	"	"	"	"	I-02
Gasoline Range Hydrocarbons	120	0.50		"	"	"	"	"	"	E, I-02

Date Sampled: **04/11/25 12:05**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0364	90.9 %		50-150		"	"	"	"	I-02
<i>Surrogate: Toluene-d8</i>	0.0386	96.6 %		50-150		"	"	"	"	I-02
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0414	104 %		50-150		"	"	"	"	I-02

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **04/11/25 12:05**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	70	50		mg/kg	1	BID0897	04/15/25	05/17/25	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **04/11/25 12:05**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
<i>Surrogate: o-Terphenyl</i>	7.41	59.3 %		50-140		"	"	"	"	

PAH by EPA Method 8270E SIM

Summit Scientific

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Tasman Geosciences
4725 Independence St.
Wheat Ridge CO, 80033

Project: Noble - Darlene Dinnel 01 Tank Battery

Project Number: [none]
Project Manager: Mike Medina

Reported:
06/26/25 11:17

SB02@6-7'
2504225-03 (Soil)

Summit Scientific

PAH by EPA Method 8270E SIM

Date Sampled: **04/11/25 12:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BID1044	04/18/25	05/08/25	EPA 8270E SIM	
Anthracene	ND	0.00500	"	"	"	"	"	"	
Benzo (a) anthracene	0.00631	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	0.0347	0.00500	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.00500	"	"	"	"	"	"	
Pyrene	ND	0.00500	"	"	"	"	"	"	
1-Methylnaphthalene	0.268	0.00500	"	"	"	"	"	"	E
2-Methylnaphthalene	0.719	0.00500	"	"	"	"	"	"	E

Date Sampled: **04/11/25 12:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0167	50.1 %	40-140		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0209	62.8 %	40-140		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **04/11/25 12:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L dry	1	BID0805	04/15/25	04/18/25	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **04/11/25 12:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Summit Scientific

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Tasman Geosciences
4725 Independence St.
Wheat Ridge CO, 80033

Project: Noble - Darlene Dinnel 01 Tank Battery

Project Number: [none]
Project Manager: Mike Medina

Reported:
06/26/25 11:17

SB02@6-7'
2504225-03 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	2.06	0.200	mg/kg dry	1	BID0729	04/14/25	05/22/25	EPA 6020B	
Barium	69.4	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	2.90	0.400	"	"	"	"	"	"	
Lead	4.35	0.200	"	"	"	"	"	"	
Nickel	3.25	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	18.1	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by HACH M8023

Date Sampled: **04/11/25 12:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BID0858	04/15/25	04/16/25	Hach 8000	

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

Date Sampled: **04/11/25 12:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	4930	0.0500	mg/L dry	1	BIE0053	05/01/25	06/04/25	EPA 6020B	
Magnesium	271	0.0500	"	"	"	"	"	"	
Sodium	303	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **04/11/25 12:05**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.14	0.00100	units	1	BIF0059	06/05/25	06/05/25	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Summit Scientific

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Tasman Geosciences
4725 Independence St.
Wheat Ridge CO, 80033

Project: Noble - Darlene Dinnel 01 Tank Battery

Project Number: [none]
Project Manager: Mike Medina

Reported:
06/26/25 11:17

SB02@6-7'
2504225-03 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **04/11/25 12:05**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
% Solids	77.9			%	1	BID0818	04/15/25	04/16/25	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **04/11/25 12:05**


Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Specific Conductance (EC)	1.66	0.0100		mmhos/cm	1	BIE0056	05/01/25	05/05/25	EPA 120.1	

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

Date Sampled: **04/11/25 12:05**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
pH	8.09			pH Units	1	BIE0061	05/01/25	05/05/25	EPA 9045D	

Summit Scientific



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Tasman Geosciences
4725 Independence St.
Wheat Ridge CO, 80033

Project: Noble - Darlene Dinnel 01 Tank Battery

Project Number: [none]
Project Manager: Mike Medina

Reported:
06/26/25 11:17

SB02@6-7'
2504225-03RE1 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

I-02

Date Sampled: **04/11/25 12:05**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Benzene	ND	0.020	mg/kg	10	BID0894	05/12/25	05/12/25	EPA 8260B	
Toluene	ND	0.050	"	"	"	"	"	"	
Ethylbenzene	ND	0.050	"	"	"	"	"	"	
Xylenes (total)	0.14	0.10	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	0.18	0.050	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	0.11	0.050	"	"	"	"	"	"	
Naphthalene	ND	0.038	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	5.0	"	"	"	"	"	"	

Date Sampled: **04/11/25 12:05**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: 1,2-Dichloroethane-d4	0.0369	92.2 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0410	102 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0393	98.2 %	50-150		"	"	"	"	

Summit Scientific

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Tasman Geosciences
4725 Independence St.
Wheat Ridge CO, 80033

Project: Noble - Darlene Dinnel 01 Tank Battery

Project Number: [none]
Project Manager: Mike Medina

Reported:
06/26/25 11:17

SB02@11-12'
2504225-04 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **04/11/25 12:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	BID0894	04/15/25	05/11/25	EPA 8260B	I-02
Toluene	ND	0.0050	"	"	"	"	"	"	I-02
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	I-02
Xylenes (total)	ND	0.010	"	"	"	"	"	"	I-02
1,2,4-Trimethylbenzene	0.0082	0.0050	"	"	"	"	"	"	I-02, Z-01a
1,3,5-Trimethylbenzene	ND	0.0050	"	"	"	"	"	"	I-02
Naphthalene	ND	0.0038	"	"	"	"	"	"	I-02
Gasoline Range Hydrocarbons	3.6	0.50	"	"	"	"	"	"	I-02, Z-01a

Date Sampled: **04/11/25 12:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	0.0351	87.8 %	50-150		"	"	"	"	I-02
Surrogate: Toluene-d8	0.0403	101 %	50-150		"	"	"	"	I-02
Surrogate: 4-Bromofluorobenzene	0.0416	104 %	50-150		"	"	"	"	I-02

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **04/11/25 12:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	BID0897	04/15/25	05/17/25	EPA 8015M	
C28-C36 (ORO)	ND	50	"	"	"	"	"	"	

Date Sampled: **04/11/25 12:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl	8.02	64.2 %	50-140		"	"	"	"	

PAH by EPA Method 8270E SIM

Summit Scientific

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Tasman Geosciences
4725 Independence St.
Wheat Ridge CO, 80033

Project: Noble - Darlene Dinnel 01 Tank Battery

Project Number: [none]
Project Manager: Mike Medina

Reported:
06/26/25 11:17

SB02@11-12'
2504225-04 (Soil)

Summit Scientific

PAH by EPA Method 8270E SIM

Date Sampled: **04/11/25 12:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BID1044	04/18/25	05/08/25	EPA 8270E 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: **04/11/25 12:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0171	51.3 %	40-140		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0178	53.3 %	40-140		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **04/11/25 12:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L dry	1	BID0805	04/15/25	04/18/25	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **04/11/25 12:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Summit Scientific

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Tasman Geosciences
4725 Independence St.
Wheat Ridge CO, 80033

Project: Noble - Darlene Dinnel 01 Tank Battery

Project Number: [none]
Project Manager: Mike Medina

Reported:
06/26/25 11:17

SB02@11-12'
2504225-04 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	2.67	0.200	mg/kg dry	1	BID0729	04/14/25	05/22/25	EPA 6020B	
Barium	22.6	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	2.02	0.400	"	"	"	"	"	"	
Lead	3.94	0.200	"	"	"	"	"	"	
Nickel	9.34	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	35.6	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by HACH M8023

Date Sampled: **04/11/25 12:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BID0858	04/15/25	04/16/25	Hach 8000	

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

Date Sampled: **04/11/25 12:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	16.3	0.0500	mg/L dry	1	BIE0053	05/01/25	06/04/25	EPA 6020B	
Magnesium	5.82	0.0500	"	"	"	"	"	"	
Sodium	76.0	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **04/11/25 12:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	4.11	0.00100	units	1	BIF0059	06/05/25	06/05/25	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

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
 4725 Independence St.
 Wheat Ridge CO, 80033

Project: Noble - Darlene Dinnel 01 Tank Battery

Project Number: [none]
 Project Manager: Mike Medina

Reported:
 06/26/25 11:17

SB02@11-12'
2504225-04 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **04/11/25 12:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	79.7		%	1	BID0818	04/15/25	04/16/25	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **04/11/25 12:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.471	0.0100	mmhos/cm	1	BIE0056	05/01/25	05/05/25	EPA 120.1	

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

Date Sampled: **04/11/25 12:30**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.02		pH Units	1	BIE0061	05/01/25	05/05/25	EPA 9045D	

Summit Scientific

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Tasman Geosciences
4725 Independence St.
Wheat Ridge CO, 80033

Project: Noble - Darlene Dinnel 01 Tank Battery

Project Number: [none]
Project Manager: Mike Medina

Reported:
06/26/25 11:17

SB02@11-12'
2504225-04RE1 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

I-02

Date Sampled: **04/11/25 12:30**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Benzene	ND	0.0020	mg/kg	1	BIE0466	05/12/25	05/14/25	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: **04/11/25 12:30**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: 1,2-Dichloroethane-d4	0.0369	92.2 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0396	99.1 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0383	95.7 %	50-150		"	"	"	"	

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
4725 Independence St.
Wheat Ridge CO, 80033

Project: Noble - Darlene Dinnel 01 Tank Battery

Project Number: [none]
Project Manager: Mike Medina

Reported:
06/26/25 11:17

SB03@5-6'
2504225-05 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **04/11/25 12:45**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	BID0894	04/15/25	05/11/25	EPA 8260B	I-02
Toluene	ND	0.0050		"	"	"	"	"	"	I-02
Ethylbenzene	ND	0.0050		"	"	"	"	"	"	I-02
Xylenes (total)	ND	0.010		"	"	"	"	"	"	I-02
1,2,4-Trimethylbenzene	ND	0.0050		"	"	"	"	"	"	I-02
1,3,5-Trimethylbenzene	ND	0.0050		"	"	"	"	"	"	I-02
Naphthalene	ND	0.0038		"	"	"	"	"	"	I-02
Gasoline Range Hydrocarbons	ND	0.50		"	"	"	"	"	"	I-02

Date Sampled: **04/11/25 12:45**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	0.0362	90.6 %		50-150		"	"	"	"	I-02
Surrogate: Toluene-d8	0.0398	99.6 %		50-150		"	"	"	"	I-02
Surrogate: 4-Bromofluorobenzene	0.0389	97.4 %		50-150		"	"	"	"	I-02

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **04/11/25 12:45**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	ND	50		mg/kg	1	BID0897	04/15/25	05/17/25	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **04/11/25 12:45**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl	9.52	76.1 %		50-140		"	"	"	"	

PAH by EPA Method 8270E SIM

Summit Scientific

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Tasman Geosciences
4725 Independence St.
Wheat Ridge CO, 80033

Project: Noble - Darlene Dinnel 01 Tank Battery

Project Number: [none]
Project Manager: Mike Medina

Reported:
06/26/25 11:17

SB03@5-6'
2504225-05 (Soil)

Summit Scientific

PAH by EPA Method 8270E SIM

Date Sampled: **04/11/25 12:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BID1044	04/18/25	05/08/25	EPA 8270E 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: **04/11/25 12:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0141	42.2 %	40-140		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0171	51.4 %	40-140		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **04/11/25 12:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L dry	1	BID0805	04/15/25	04/18/25	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **04/11/25 12:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Summit Scientific

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Tasman Geosciences
4725 Independence St.
Wheat Ridge CO, 80033

Project: Noble - Darlene Dinnel 01 Tank Battery

Project Number: [none]
Project Manager: Mike Medina

Reported:
06/26/25 11:17

SB03@5-6'
2504225-05 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	9.41	0.200	mg/kg dry	1	BID0730	04/14/25	05/29/25	EPA 6020B	
Barium	65.6	0.400	"	"	"	"	"	"	
Cadmium	0.224	0.200	"	"	"	"	"	"	
Copper	6.16	0.400	"	"	"	"	"	"	
Lead	9.38	0.200	"	"	"	"	"	"	
Nickel	10.9	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	53.3	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by HACH M8023

Date Sampled: **04/11/25 12:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BID0858	04/15/25	04/16/25	Hach 8000	

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

Date Sampled: **04/11/25 12:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	140	0.0500	mg/L dry	1	BIE0053	05/01/25	06/04/25	EPA 6020B	
Magnesium	27.1	0.0500	"	"	"	"	"	"	
Sodium	132	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **04/11/25 12:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	2.67	0.00100	units	1	BIF0059	06/05/25	06/05/25	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Summit Scientific

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Tasman Geosciences
4725 Independence St.
Wheat Ridge CO, 80033

Project: Noble - Darlene Dinnel 01 Tank Battery

Project Number: [none]
Project Manager: Mike Medina

Reported:
06/26/25 11:17

SB03@5-6'
2504225-05 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **04/11/25 12:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	79.8		%	1	BID0818	04/15/25	04/16/25	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **04/11/25 12:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.24	0.0100	mmhos/cm	1	BIE0056	05/01/25	05/05/25	EPA 120.1	

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

Date Sampled: **04/11/25 12:45**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.20		pH Units	1	BIE0061	05/01/25	05/05/25	EPA 9045D	

Summit Scientific

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Tasman Geosciences
4725 Independence St.
Wheat Ridge CO, 80033

Project: Noble - Darlene Dinnel 01 Tank Battery

Project Number: [none]
Project Manager: Mike Medina

Reported:
06/26/25 11:17

SB03@9-10'
2504225-06 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **04/11/25 13:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	BID0894	04/15/25	05/11/25	EPA 8260B	I-02
Toluene	ND	0.0050		"	"	"	"	"	"	I-02
Ethylbenzene	ND	0.0050		"	"	"	"	"	"	I-02
Xylenes (total)	ND	0.010		"	"	"	"	"	"	I-02
1,2,4-Trimethylbenzene	ND	0.0050		"	"	"	"	"	"	I-02
1,3,5-Trimethylbenzene	ND	0.0050		"	"	"	"	"	"	I-02
Naphthalene	ND	0.0038		"	"	"	"	"	"	I-02
Gasoline Range Hydrocarbons	ND	0.50		"	"	"	"	"	"	I-02

Date Sampled: **04/11/25 13:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	0.0356	89.0 %		50-150		"	"	"	"	I-02
Surrogate: Toluene-d8	0.0394	98.4 %		50-150		"	"	"	"	I-02
Surrogate: 4-Bromofluorobenzene	0.0385	96.2 %		50-150		"	"	"	"	I-02

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **04/11/25 13:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	ND	50		mg/kg	1	BID0897	04/15/25	05/17/25	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **04/11/25 13:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl	8.38	67.1 %		50-140		"	"	"	"	

PAH by EPA Method 8270E SIM

Summit Scientific

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Tasman Geosciences
4725 Independence St.
Wheat Ridge CO, 80033

Project: Noble - Darlene Dinnel 01 Tank Battery

Project Number: [none]
Project Manager: Mike Medina

Reported:
06/26/25 11:17

SB03@9-10'
2504225-06 (Soil)

Summit Scientific

PAH by EPA Method 8270E SIM

Date Sampled: **04/11/25 13:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BID1044	04/18/25	05/08/25	EPA 8270E 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: **04/11/25 13:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0207	62.0 %	40-140		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0220	66.0 %	40-140		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **04/11/25 13:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L dry	1	BID0805	04/15/25	04/18/25	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **04/11/25 13:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Summit Scientific

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Tasman Geosciences
4725 Independence St.
Wheat Ridge CO, 80033

Project: Noble - Darlene Dinnel 01 Tank Battery

Project Number: [none]
Project Manager: Mike Medina

Reported:
06/26/25 11:17

SB03@9-10'
2504225-06 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	1.04	0.200	mg/kg dry	1	BID0730	04/14/25	05/29/25	EPA 6020B	
Barium	10.5	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	1.33	0.400	"	"	"	"	"	"	
Lead	3.08	0.200	"	"	"	"	"	"	
Nickel	9.01	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	20.1	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by HACH M8023

Date Sampled: **04/11/25 13:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BID0858	04/15/25	04/16/25	Hach 8000	

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

Date Sampled: **04/11/25 13:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	35.6	0.0500	mg/L dry	1	BIE0053	05/01/25	06/04/25	EPA 6020B	
Magnesium	10.7	0.0500	"	"	"	"	"	"	
Sodium	76.7	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **04/11/25 13:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	2.89	0.00100	units	1	BIF0059	06/05/25	06/05/25	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Summit Scientific

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Tasman Geosciences
4725 Independence St.
Wheat Ridge CO, 80033

Project: Noble - Darlene Dinnel 01 Tank Battery

Project Number: [none]
Project Manager: Mike Medina

Reported:
06/26/25 11:17

SB03@9-10'
2504225-06 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **04/11/25 13:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	80.2		%	1	BID0818	04/15/25	04/16/25	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **04/11/25 13:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.680	0.0100	mmhos/cm	1	BIE0056	05/01/25	05/05/25	EPA 120.1	

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

Date Sampled: **04/11/25 13:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.28		pH Units	1	BIE0061	05/01/25	05/05/25	EPA 9045D	

Summit Scientific

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Tasman Geosciences
4725 Independence St.
Wheat Ridge CO, 80033

Project: Noble - Darlene Dinnel 01 Tank Battery

Project Number: [none]
Project Manager: Mike Medina

Reported:
06/26/25 11:17

SB10@5-6'
2504225-07 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **04/11/25 13:15**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	BID0894	04/15/25	05/11/25	EPA 8260B	I-02
Toluene	ND	0.0050		"	"	"	"	"	"	I-02
Ethylbenzene	0.039	0.0050		"	"	"	"	"	"	I-02
Xylenes (total)	0.057	0.010		"	"	"	"	"	"	I-02
1,2,4-Trimethylbenzene	0.24	0.0050		"	"	"	"	"	"	I-02
1,3,5-Trimethylbenzene	0.022	0.0050		"	"	"	"	"	"	I-02
Naphthalene	0.014	0.0038		"	"	"	"	"	"	I-02
Gasoline Range Hydrocarbons	35	0.50		"	"	"	"	"	"	I-02

Date Sampled: **04/11/25 13:15**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.0358	89.4 %		50-150		"	"	"	"	I-02
<i>Surrogate: Toluene-d8</i>	0.0405	101 %		50-150		"	"	"	"	I-02
<i>Surrogate: 4-Bromofluorobenzene</i>	0.0503	126 %		50-150		"	"	"	"	I-02

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **04/11/25 13:15**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	ND	50		mg/kg	1	BID0897	04/15/25	05/17/25	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **04/11/25 13:15**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
<i>Surrogate: o-Terphenyl</i>	7.92	63.4 %		50-140		"	"	"	"	

PAH by EPA Method 8270E SIM

Summit Scientific

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Tasman Geosciences
4725 Independence St.
Wheat Ridge CO, 80033

Project: Noble - Darlene Dinnel 01 Tank Battery

Project Number: [none]
Project Manager: Mike Medina

Reported:
06/26/25 11:17

SB10@5-6'
2504225-07 (Soil)

Summit Scientific

PAH by EPA Method 8270E SIM

Date Sampled: **04/11/25 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BID1044	04/18/25	05/08/25	EPA 8270E 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	0.0111	0.00500	"	"	"	"	"	"	
2-Methylnaphthalene	0.0178	0.00500	"	"	"	"	"	"	

Date Sampled: **04/11/25 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0242	72.5 %	40-140		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0263	78.9 %	40-140		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **04/11/25 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L dry	1	BID0805	04/15/25	04/18/25	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **04/11/25 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Summit Scientific

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Tasman Geosciences
4725 Independence St.
Wheat Ridge CO, 80033

Project: Noble - Darlene Dinnel 01 Tank Battery

Project Number: [none]
Project Manager: Mike Medina

Reported:
06/26/25 11:17

SB10@5-6'
2504225-07 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	3.82	0.200	mg/kg dry	1	BID0730	04/14/25	05/29/25	EPA 6020B	
Barium	70.9	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	4.31	0.400	"	"	"	"	"	"	
Lead	4.39	0.200	"	"	"	"	"	"	
Nickel	5.98	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	18.6	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by HACH M8023

Date Sampled: **04/11/25 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BID0858	04/15/25	04/16/25	Hach 8000	

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

Date Sampled: **04/11/25 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	4440	0.0500	mg/L dry	1	BIE0053	05/01/25	06/04/25	EPA 6020B	
Magnesium	174	0.0500	"	"	"	"	"	"	
Sodium	130	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **04/11/25 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.521	0.00100	units	1	BIF0059	06/05/25	06/05/25	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Summit Scientific

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Tasman Geosciences
4725 Independence St.
Wheat Ridge CO, 80033

Project: Noble - Darlene Dinnel 01 Tank Battery

Project Number: [none]
Project Manager: Mike Medina

Reported:
06/26/25 11:17

SB10@5-6'
2504225-07 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **04/11/25 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	83.8		%	1	BID0818	04/15/25	04/16/25	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **04/11/25 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.944	0.0100	mmhos/cm	1	BIE0056	05/01/25	05/05/25	EPA 120.1	

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

Date Sampled: **04/11/25 13:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.38		pH Units	1	BIE0061	05/01/25	05/05/25	EPA 9045D	

Summit Scientific

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Tasman Geosciences
4725 Independence St.
Wheat Ridge CO, 80033

Project: Noble - Darlene Dinnel 01 Tank Battery

Project Number: [none]
Project Manager: Mike Medina

Reported:
06/26/25 11:17

SB10@9-10'
2504225-08 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **04/11/25 13:20**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	0.0020		mg/kg	1	BID0894	04/15/25	05/11/25	EPA 8260B	I-02
Toluene	ND	0.0050		"	"	"	"	"	"	I-02
Ethylbenzene	ND	0.0050		"	"	"	"	"	"	I-02
Xylenes (total)	ND	0.010		"	"	"	"	"	"	I-02
1,2,4-Trimethylbenzene	ND	0.0050		"	"	"	"	"	"	I-02
1,3,5-Trimethylbenzene	ND	0.0050		"	"	"	"	"	"	I-02
Naphthalene	ND	0.0038		"	"	"	"	"	"	I-02
Gasoline Range Hydrocarbons	0.72	0.50		"	"	"	"	"	"	I-02, Z-01a

Date Sampled: **04/11/25 13:20**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	0.0354	88.6 %		50-150		"	"	"	"	I-02
Surrogate: Toluene-d8	0.0401	100 %		50-150		"	"	"	"	I-02
Surrogate: 4-Bromofluorobenzene	0.0387	96.8 %		50-150		"	"	"	"	I-02

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **04/11/25 13:20**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
C10-C28 (DRO)	ND	50		mg/kg	1	BID0897	04/15/25	05/17/25	EPA 8015M	
C28-C36 (ORO)	ND	50		"	"	"	"	"	"	

Date Sampled: **04/11/25 13:20**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: o-Terphenyl	11.0	87.8 %		50-140		"	"	"	"	

PAH by EPA Method 8270E SIM

Summit Scientific

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Tasman Geosciences
4725 Independence St.
Wheat Ridge CO, 80033

Project: Noble - Darlene Dinnel 01 Tank Battery

Project Number: [none]
Project Manager: Mike Medina

Reported:
06/26/25 11:17

SB10@9-10'
2504225-08 (Soil)

Summit Scientific

PAH by EPA Method 8270E SIM

Date Sampled: **04/11/25 13:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Acenaphthene	ND	0.00500	mg/kg	1	BID1044	04/18/25	05/08/25	EPA 8270E 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: **04/11/25 13:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 2-Methylnaphthalene-d10	0.0210	63.1 %	40-140		"	"	"	"	
Surrogate: Fluoranthene-d10	0.0236	70.9 %	40-140		"	"	"	"	

Total Metals by EPA 6020B Hot Water Soluble Extraction

Date Sampled: **04/11/25 13:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Boron	ND	2.00	mg/L dry	1	BID0805	04/15/25	04/18/25	EPA 6020B	

Total Metals by EPA 6020B

Date Sampled: **04/11/25 13:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Tasman Geosciences
4725 Independence St.
Wheat Ridge CO, 80033

Project: Noble - Darlene Dinnel 01 Tank Battery

Project Number: [none]
Project Manager: Mike Medina

Reported:
06/26/25 11:17

SB10@9-10'
2504225-08 (Soil)

Summit Scientific

Total Metals by EPA 6020B

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Arsenic	3.56	0.200	mg/kg dry	1	BID0730	04/14/25	05/29/25	EPA 6020B	
Barium	13.1	0.400	"	"	"	"	"	"	
Cadmium	ND	0.200	"	"	"	"	"	"	
Copper	4.77	0.400	"	"	"	"	"	"	
Lead	3.71	0.200	"	"	"	"	"	"	
Nickel	15.9	0.400	"	"	"	"	"	"	
Silver	ND	0.0200	"	"	"	"	"	"	
Zinc	51.4	0.400	"	"	"	"	"	"	
Selenium	ND	0.260	"	"	"	"	"	"	

Hexavalent Chromium by HACH M8023

Date Sampled: **04/11/25 13:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chromium, Hexavalent	ND	0.30	mg/kg dry	1	BID0858	04/15/25	04/16/25	Hach 8000	

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

Date Sampled: **04/11/25 13:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	31.8	0.0500	mg/L dry	1	BIE0053	05/01/25	06/04/25	EPA 6020B	
Magnesium	8.67	0.0500	"	"	"	"	"	"	
Sodium	78.2	0.0500	"	"	"	"	"	"	

Calculated Analysis

Date Sampled: **04/11/25 13:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	3.17	0.00100	units	1	BIF0059	06/05/25	06/05/25	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Summit Scientific

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Tasman Geosciences
4725 Independence St.
Wheat Ridge CO, 80033

Project: Noble - Darlene Dinnel 01 Tank Battery

Project Number: [none]
Project Manager: Mike Medina

Reported:
06/26/25 11:17

SB10@9-10'
2504225-08 (Soil)

Summit Scientific

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **04/11/25 13:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	80.4		%	1	BID0818	04/15/25	04/16/25	Calculation	

Specific Conductance by EPA Method 120.1, Saturated Paste Extraction

Date Sampled: **04/11/25 13:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.529	0.0100	mmhos/cm	1	BIE0056	05/01/25	05/05/25	EPA 120.1	

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

Date Sampled: **04/11/25 13:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.64		pH Units	1	BIE0061	05/01/25	05/05/25	EPA 9045D	

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Tasman Geosciences
4725 Independence St.
Wheat Ridge CO, 80033

Project: Noble - Darlene Dinnel 01 Tank Battery

Project Number: [none]
Project Manager: Mike Medina

Reported:
06/26/25 11:17

SB10@9-10'
2504225-08RE1 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

I-02

Date Sampled: **04/11/25 13:20**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Benzene	ND	0.0020	mg/kg	1	BIE0466	05/12/25	05/14/25	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: **04/11/25 13:20**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: 1,2-Dichloroethane-d4	0.0368	92.0 %	50-150		"	"	"	"	
Surrogate: Toluene-d8	0.0398	99.6 %	50-150		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.0381	95.2 %	50-150		"	"	"	"	

Summit Scientific

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Tasman Geosciences
4725 Independence St.
Wheat Ridge CO, 80033

Project: Noble - Darlene Dinnel 01 Tank Battery

Project Number: [none]
Project Manager: Mike Medina

Reported:
06/26/25 11:17

GW01
2504225-09 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

pHHT1

Date Sampled: **04/11/25 11:40**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	1.0		ug/l	1	BID0776	04/14/25	04/15/25	EPA 8260B	
Toluene	ND	1.0		"	"	"	"	"	"	
Ethylbenzene	ND	1.0		"	"	"	"	"	"	
Xylenes (total)	ND	2.0		"	"	"	"	"	"	
Naphthalene	ND	1.0		"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0		"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0		"	"	"	"	"	"	

Date Sampled: **04/11/25 11:40**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	14.4	108 %		23-173		"	"	"	"	
Surrogate: Toluene-d8	14.1	106 %		20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	14.2	107 %		21-167		"	"	"	"	

Anions by EPA Method 300.0

Date Sampled: **04/11/25 11:40**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chloride	203	0.0600		mg/L	50	BID0976	04/16/25	04/18/25	EPA 300.0	
Sulfate	344	0.300		"	"	"	"	"	"	

Total Dissolved Solids by SM2540C

Date Sampled: **04/11/25 11:40**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Total Dissolved Solids	1100	10.0		mg/L	1	BID0929	04/16/25	04/18/25	SM2540C	

Summit Scientific

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Tasman Geosciences
4725 Independence St.
Wheat Ridge CO, 80033

Project: Noble - Darlene Dinnel 01 Tank Battery

Project Number: [none]
Project Manager: Mike Medina

Reported:
06/26/25 11:17

GW02
2504225-10 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

pHHT1

Date Sampled: **04/11/25 12:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	1.0	ug/l	1	BID0776	04/14/25	04/15/25	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	41	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	2.0	"	"	"	"	"	"	
Naphthalene	5.5	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	180	1.0	"	"	"	"	"	"	E

Date Sampled: **04/11/25 12:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4	17.2	129 %	23-173		"	"	"	"	
Surrogate: Toluene-d8	13.3	99.8 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	18.1	136 %	21-167		"	"	"	"	

Anions by EPA Method 300.0

Date Sampled: **04/11/25 12:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chloride	210	0.0600	mg/L	50	BID0976	04/16/25	04/18/25	EPA 300.0	
Sulfate	270	0.300	"	"	"	"	"	"	

Total Dissolved Solids by SM2540C

Date Sampled: **04/11/25 12:35**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Total Dissolved Solids	916	10.0	mg/L	1	BID0929	04/16/25	04/18/25	SM2540C	

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Tasman Geosciences
4725 Independence St.
Wheat Ridge CO, 80033

Project: Noble - Darlene Dinnel 01 Tank Battery

Project Number: [none]
Project Manager: Mike Medina

Reported:
06/26/25 11:17

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

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

Batch BID0776 - EPA 5030 Water MS

Blank (BID0776-BLK1)

Prepared & Analyzed: 04/14/25

Benzene	ND	1.0	ug/l							
Toluene	ND	1.0	"							
Ethylbenzene	ND	1.0	"							
Xylenes (total)	ND	2.0	"							
Naphthalene	ND	1.0	"							
1,2,4-Trimethylbenzene	ND	1.0	"							
1,3,5-Trimethylbenzene	ND	1.0	"							
Surrogate: 1,2-Dichloroethane-d4	13.8		"	13.3		103		23-173		
Surrogate: Toluene-d8	13.3		"	13.3		100		20-170		
Surrogate: 4-Bromofluorobenzene	13.2		"	13.3		99.0		21-167		

LCS (BID0776-BS1)

Prepared & Analyzed: 04/14/25

Benzene	35.0	1.0	ug/l	33.3		105		51-132		
Toluene	33.6	1.0	"	33.3		101		51-138		
Ethylbenzene	36.2	1.0	"	33.3		109		58-146		
m,p-Xylene	67.2	2.0	"	66.7		101		57-144		
o-Xylene	32.6	1.0	"	33.3		97.9		53-146		
Naphthalene	28.9	1.0	"	33.3		86.6		70-130		
1,2,4-Trimethylbenzene	34.8	1.0	"	33.3		104		70-130		
1,3,5-Trimethylbenzene	35.2	1.0	"	33.3		106		70-130		
Surrogate: 1,2-Dichloroethane-d4	12.9		"	13.3		96.8		23-173		
Surrogate: Toluene-d8	12.4		"	13.3		92.7		20-170		
Surrogate: 4-Bromofluorobenzene	14.0		"	13.3		105		21-167		

LCS Dup (BID0776-BSD1)

Prepared & Analyzed: 04/14/25

Benzene	36.7	1.0	ug/l	33.3		110		51-132	4.88	20
Toluene	35.8	1.0	"	33.3		107		51-138	6.17	20
Ethylbenzene	35.7	1.0	"	33.3		107		58-146	1.48	20
m,p-Xylene	67.1	2.0	"	66.7		101		57-144	0.268	20
o-Xylene	32.0	1.0	"	33.3		95.9		53-146	2.01	20
Naphthalene	31.1	1.0	"	33.3		93.2		70-130	7.38	20
1,2,4-Trimethylbenzene	34.2	1.0	"	33.3		103		70-130	1.77	20
1,3,5-Trimethylbenzene	34.9	1.0	"	33.3		105		70-130	0.941	20
Surrogate: 1,2-Dichloroethane-d4	13.6		"	13.3		102		23-173		
Surrogate: Toluene-d8	13.4		"	13.3		100		20-170		
Surrogate: 4-Bromofluorobenzene	13.3		"	13.3		100		21-167		

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Tasman Geosciences
4725 Independence St.
Wheat Ridge CO, 80033

Project: Noble - Darlene Dinnel 01 Tank Battery

Project Number: [none]
Project Manager: Mike Medina

Reported:
06/26/25 11:17

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

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

Batch BID0894 - EPA 5030 Soil MS

Blank (BID0894-BLK1)

Prepared: 04/15/25 Analyzed: 05/10/25

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	0.0381		"	0.0400		95.2	50-150			
Surrogate: Toluene-d8	0.0398		"	0.0400		99.5	50-150			
Surrogate: 4-Bromofluorobenzene	0.0372		"	0.0400		93.0	50-150			

Blank (BID0894-BLK2)

Prepared & Analyzed: 05/12/25

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	0.0367		"	0.0400		91.8	50-150			
Surrogate: Toluene-d8	0.0400		"	0.0400		100	50-150			
Surrogate: 4-Bromofluorobenzene	0.0380		"	0.0400		94.9	50-150			

LCS (BID0894-BS1)

Prepared: 04/15/25 Analyzed: 05/10/25

Benzene	0.102	0.0020	mg/kg	0.100		102	70-130			
Toluene	0.0970	0.0050	"	0.100		97.0	70-130			
Ethylbenzene	0.0925	0.0050	"	0.100		92.5	70-130			
m,p-Xylene	0.182	0.010	"	0.200		91.0	70-130			
o-Xylene	0.0940	0.0050	"	0.100		94.0	70-130			
1,2,4-Trimethylbenzene	0.0866	0.0050	"	0.100		86.6	70-130			
1,3,5-Trimethylbenzene	0.0875	0.0050	"	0.100		87.5	70-130			
Naphthalene	0.102	0.0038	"	0.100		102	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0362		"	0.0400		90.4	50-150			
Surrogate: Toluene-d8	0.0394		"	0.0400		98.5	50-150			
Surrogate: 4-Bromofluorobenzene	0.0387		"	0.0400		96.7	50-150			

Summit Scientific

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Tasman Geosciences
4725 Independence St.
Wheat Ridge CO, 80033

Project: Noble - Darlene Dinnel 01 Tank Battery

Project Number: [none]
Project Manager: Mike Medina

Reported:
06/26/25 11:17

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

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

Batch BID0894 - EPA 5030 Soil MS

LCS (BID0894-BS2)

Prepared & Analyzed: 05/12/25

Benzene	0.118	0.0020	mg/kg	0.100		118	70-130			
Toluene	0.113	0.0050	"	0.100		113	70-130			
Ethylbenzene	0.111	0.0050	"	0.100		111	70-130			
m,p-Xylene	0.214	0.010	"	0.200		107	70-130			
o-Xylene	0.106	0.0050	"	0.100		106	70-130			
1,2,4-Trimethylbenzene	0.101	0.0050	"	0.100		101	70-130			
1,3,5-Trimethylbenzene	0.104	0.0050	"	0.100		104	70-130			
Naphthalene	0.112	0.0038	"	0.100		112	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0382		"	0.0400		95.4	50-150			
Surrogate: Toluene-d8	0.0399		"	0.0400		99.8	50-150			
Surrogate: 4-Bromofluorobenzene	0.0392		"	0.0400		97.9	50-150			

Matrix Spike (BID0894-MS1)

Source: 2504203-01

Prepared: 04/15/25 Analyzed: 05/10/25

R-05

Benzene	0.0391	0.0020	mg/kg	0.100	ND	39.1	70-130			QM-05
Toluene	0.0388	0.0050	"	0.100	ND	38.8	70-130			QM-05
Ethylbenzene	0.0298	0.0050	"	0.100	ND	29.8	70-130			QM-05
m,p-Xylene	0.137	0.010	"	0.200	ND	68.5	70-130			QM-05
o-Xylene	0.0768	0.0050	"	0.100	ND	76.8	70-130			
1,2,4-Trimethylbenzene	0.0443	0.0050	"	0.100	ND	44.3	70-130			QM-05
1,3,5-Trimethylbenzene	0.0735	0.0050	"	0.100	ND	73.5	70-130			
Naphthalene	0.0468	0.0038	"	0.100	ND	46.8	70-130			QM-05
Surrogate: 1,2-Dichloroethane-d4	0.0398		"	0.0400		99.6	50-150			
Surrogate: Toluene-d8	0.0397		"	0.0400		99.3	50-150			
Surrogate: 4-Bromofluorobenzene	0.0388		"	0.0400		97.0	50-150			

Matrix Spike Dup (BID0894-MSD1)

Source: 2504203-01

Prepared: 04/15/25 Analyzed: 05/10/25

Benzene	0.0426	0.0020	mg/kg	0.100	ND	42.6	70-130	8.74	30	QM-05
Toluene	0.0396	0.0050	"	0.100	ND	39.6	70-130	1.91	30	QM-05
Ethylbenzene	0.0198	0.0050	"	0.100	ND	19.8	70-130	40.3	30	QM-05
m,p-Xylene	0.139	0.010	"	0.200	ND	69.3	70-130	1.13	30	QM-05
o-Xylene	0.0818	0.0050	"	0.100	ND	81.8	70-130	6.32	30	
1,2,4-Trimethylbenzene	0.0383	0.0050	"	0.100	ND	38.3	70-130	14.4	30	QM-05
1,3,5-Trimethylbenzene	0.0796	0.0050	"	0.100	ND	79.6	70-130	7.92	30	
Naphthalene	0.0378	0.0038	"	0.100	ND	37.8	70-130	21.3	30	QM-05
Surrogate: 1,2-Dichloroethane-d4	0.0380		"	0.0400		95.0	50-150			
Surrogate: Toluene-d8	0.0399		"	0.0400		99.8	50-150			
Surrogate: 4-Bromofluorobenzene	0.0390		"	0.0400		97.5	50-150			

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Tasman Geosciences
4725 Independence St.
Wheat Ridge CO, 80033

Project: Noble - Darlene Dinnel 01 Tank Battery

Project Number: [none]
Project Manager: Mike Medina

Reported:
06/26/25 11:17

Extractable Petroleum Hydrocarbons by 8015 - Quality Control
Summit Scientific

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

Batch BID0897 - EPA 3550A

Blank (BID0897-BLK1)

Prepared: 04/15/25 Analyzed: 05/16/25

C10-C28 (DRO)	ND	50	mg/kg								
C28-C36 (ORO)	ND	50	"								
Surrogate: <i>o</i> -Terphenyl	10.6		"	12.5		85.2	50-140				

LCS (BID0897-BS1)

Prepared: 04/15/25 Analyzed: 05/17/25

C10-C28 (DRO)	421	50	mg/kg	500		84.2	50-140				
Surrogate: <i>o</i> -Terphenyl	10.5		"	12.5		84.1	50-140				

Matrix Spike (BID0897-MS1)

Source: 2504203-01

Prepared: 04/15/25 Analyzed: 05/17/25

C10-C28 (DRO)	404	50	mg/kg	500	ND	80.8	50-140				
Surrogate: <i>o</i> -Terphenyl	7.09		"	12.5		56.7	50-140				

Matrix Spike Dup (BID0897-MSD1)

Source: 2504203-01

Prepared: 04/15/25 Analyzed: 05/17/25

C10-C28 (DRO)	489	50	mg/kg	500	ND	97.7	50-140	19.0	20		
Surrogate: <i>o</i> -Terphenyl	7.36		"	12.5		58.9	50-140				

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Tasman Geosciences
4725 Independence St.
Wheat Ridge CO, 80033

Project: Noble - Darlene Dinnel 01 Tank Battery

Project Number: [none]
Project Manager: Mike Medina

Reported:
06/26/25 11:17

PAH by EPA Method 8270E SIM - Quality Control

Summit Scientific

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

Batch BID1044 - EPA 5030 Soil MS

Blank (BID1044-BLK1)

Prepared: 04/18/25 Analyzed: 05/07/25

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	0.0246		"	0.0333		73.8	40-140			
Surrogate: Fluoranthene-d10	0.0282		"	0.0333		84.6	40-140			

LCS (BID1044-BS1)

Prepared: 04/18/25 Analyzed: 05/07/25

Acenaphthene	0.0239	0.00500	mg/kg	0.0333		71.6	40-140			
Anthracene	0.0254	0.00500	"	0.0333		76.3	40-140			
Benzo (a) anthracene	0.0269	0.00500	"	0.0333		80.7	40-140			
Benzo (a) pyrene	0.0269	0.00500	"	0.0333		80.8	40-140			
Benzo (b) fluoranthene	0.0271	0.00500	"	0.0333		81.3	40-140			
Benzo (k) fluoranthene	0.0250	0.00500	"	0.0333		75.1	40-140			
Chrysene	0.0249	0.00500	"	0.0333		74.6	40-140			
Dibenz (a,h) anthracene	0.0286	0.00500	"	0.0333		85.9	40-140			
Fluoranthene	0.0258	0.00500	"	0.0333		77.4	40-140			
Fluorene	0.0248	0.00500	"	0.0333		74.3	40-140			
Indeno (1,2,3-cd) pyrene	0.0298	0.00500	"	0.0333		89.4	40-140			
Pyrene	0.0246	0.00500	"	0.0333		73.9	40-140			
1-Methylnaphthalene	0.0244	0.00500	"	0.0333		73.1	40-140			
2-Methylnaphthalene	0.0247	0.00500	"	0.0333		74.0	40-140			
Surrogate: 2-Methylnaphthalene-d10	0.0280		"	0.0333		84.1	40-140			
Surrogate: Fluoranthene-d10	0.0304		"	0.0333		91.2	40-140			

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Tasman Geosciences
4725 Independence St.
Wheat Ridge CO, 80033

Project: Noble - Darlene Dinnel 01 Tank Battery

Project Number: [none]
Project Manager: Mike Medina

Reported:
06/26/25 11:17

PAH by EPA Method 8270E SIM - Quality Control

Summit Scientific

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

Batch BID1044 - EPA 5030 Soil MS

Matrix Spike (BID1044-MS1)		Source: 2504208-02			Prepared: 04/18/25 Analyzed: 05/07/25	
Acenaphthene	0.0185	0.00500	mg/kg	0.0333	ND	55.4 40-140
Anthracene	0.0185	0.00500	"	0.0333	ND	55.4 40-140
Benzo (a) anthracene	0.0205	0.00500	"	0.0333	ND	61.5 40-140
Benzo (a) pyrene	0.0202	0.00500	"	0.0333	ND	60.7 40-140
Benzo (b) fluoranthene	0.0200	0.00500	"	0.0333	ND	60.1 40-140
Benzo (k) fluoranthene	0.0188	0.00500	"	0.0333	ND	56.4 40-140
Chrysene	0.0192	0.00500	"	0.0333	ND	57.7 40-140
Dibenz (a,h) anthracene	0.0216	0.00500	"	0.0333	ND	64.8 40-140
Fluoranthene	0.0196	0.00500	"	0.0333	ND	58.8 40-140
Fluorene	0.0179	0.00500	"	0.0333	ND	53.6 40-140
Indeno (1,2,3-cd) pyrene	0.0167	0.00500	"	0.0333	ND	50.0 40-140
Pyrene	0.0181	0.00500	"	0.0333	ND	54.2 40-140
1-Methylnaphthalene	0.0177	0.00500	"	0.0333	ND	53.2 40-140
2-Methylnaphthalene	0.0180	0.00500	"	0.0333	ND	54.1 40-140
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0201</i>		"	<i>0.0333</i>		<i>60.4 40-140</i>
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0217</i>		"	<i>0.0333</i>		<i>65.2 40-140</i>

Matrix Spike Dup (BID1044-MSD1)		Source: 2504208-02			Prepared: 04/18/25 Analyzed: 05/08/25	
Acenaphthene	0.0242	0.00500	mg/kg	0.0333	ND	72.7 40-140 27.0 30
Anthracene	0.0242	0.00500	"	0.0333	ND	72.5 40-140 26.8 30
Benzo (a) anthracene	0.0267	0.00500	"	0.0333	ND	80.1 40-140 26.3 30
Benzo (a) pyrene	0.0267	0.00500	"	0.0333	ND	80.1 40-140 27.5 30
Benzo (b) fluoranthene	0.0268	0.00500	"	0.0333	ND	80.3 40-140 28.8 30
Benzo (k) fluoranthene	0.0245	0.00500	"	0.0333	ND	73.6 40-140 26.6 30
Chrysene	0.0250	0.00500	"	0.0333	ND	75.0 40-140 26.1 30
Dibenz (a,h) anthracene	0.0289	0.00500	"	0.0333	ND	86.8 40-140 28.9 30
Fluoranthene	0.0263	0.00500	"	0.0333	ND	79.0 40-140 29.3 30
Fluorene	0.0243	0.00500	"	0.0333	ND	73.0 40-140 30.7 30
Indeno (1,2,3-cd) pyrene	0.0304	0.00500	"	0.0333	ND	91.1 40-140 58.2 30
Pyrene	0.0235	0.00500	"	0.0333	ND	70.6 40-140 26.3 30
1-Methylnaphthalene	0.0239	0.00500	"	0.0333	ND	71.6 40-140 29.5 30
2-Methylnaphthalene	0.0238	0.00500	"	0.0333	ND	71.6 40-140 27.7 30
<i>Surrogate: 2-Methylnaphthalene-d10</i>	<i>0.0269</i>		"	<i>0.0333</i>		<i>80.7 40-140</i>
<i>Surrogate: Fluoranthene-d10</i>	<i>0.0293</i>		"	<i>0.0333</i>		<i>88.0 40-140</i>

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Tasman Geosciences
4725 Independence St.
Wheat Ridge CO, 80033

Project: Noble - Darlene Dinnel 01 Tank Battery

Project Number: [none]
Project Manager: Mike Medina

Reported:
06/26/25 11:17

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

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

Batch BID0805 - EPA 3050B

Blank (BID0805-BLK1)

Prepared: 04/15/25 Analyzed: 04/18/25

Boron ND 2.00 mg/L wet

LCS (BID0805-BS1)

Prepared: 04/15/25 Analyzed: 04/18/25

Boron 5.36 2.00 mg/L wet 5.00 107 80-120

Duplicate (BID0805-DUP1)

Source: 2504225-01

Prepared: 04/15/25 Analyzed: 04/18/25

Boron 1.36 2.00 mg/L dry 1.41 3.35 20

Matrix Spike (BID0805-MS1)

Source: 2504225-01

Prepared: 04/15/25 Analyzed: 04/18/25

Boron 7.21 2.00 mg/L dry 5.59 1.41 104 75-125

Matrix Spike Dup (BID0805-MSD1)

Source: 2504225-01

Prepared: 04/15/25 Analyzed: 04/18/25

Boron 7.47 2.00 mg/L dry 5.59 1.41 108 75-125 3.54 25

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Tasman Geosciences
4725 Independence St.
Wheat Ridge CO, 80033

Project: Noble - Darlene Dinnel 01 Tank Battery

Project Number: [none]
Project Manager: Mike Medina

Reported:
06/26/25 11:17

Total Metals by EPA 6020B - Quality Control
Summit Scientific

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

Batch BID0729 - EPA 3050B

Blank (BID0729-BLK1)

Prepared: 04/14/25 Analyzed: 05/22/25

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 (BID0729-BS1)

Prepared: 04/14/25 Analyzed: 05/22/25

Arsenic	39.8	0.200	mg/kg wet	41.7	95.6	80-120
Barium	41.1	0.400	"	41.7	98.6	80-120
Cadmium	2.05	0.200	"	2.08	98.6	80-120
Copper	40.6	0.400	"	41.7	97.5	80-120
Lead	20.1	0.200	"	20.8	96.5	80-120
Nickel	39.7	0.400	"	41.7	95.4	80-120
Silver	2.06	0.0200	"	2.08	98.7	80-120
Zinc	41.4	0.400	"	41.7	99.4	80-120
Selenium	4.70	0.260	"	4.17	113	80-120

Duplicate (BID0729-DUP1)

Source: 2504222-18

Prepared: 04/14/25 Analyzed: 05/22/25

Arsenic	2.52	0.200	mg/kg dry	2.74	8.18	20
Barium	92.4	0.400	"	92.0	0.434	20
Cadmium	0.0896	0.200	"	0.0937	4.42	20
Copper	5.29	0.400	"	5.31	0.468	20
Lead	5.69	0.200	"	5.99	5.02	20
Nickel	5.83	0.400	"	6.01	3.06	20
Silver	0.0339	0.0200	"	0.0294	14.4	20
Zinc	22.3	0.400	"	21.8	2.34	20
Selenium	ND	0.260	"	ND		20

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Tasman Geosciences
4725 Independence St.
Wheat Ridge CO, 80033

Project: Noble - Darlene Dinnel 01 Tank Battery

Project Number: [none]
Project Manager: Mike Medina

Reported:
06/26/25 11:17

Total Metals by EPA 6020B - Quality Control
Summit Scientific

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

Batch BID0729 - EPA 3050B

Matrix Spike (BID0729-MS1)	Source: 2504222-18			Prepared: 04/14/25 Analyzed: 05/22/25								
Arsenic	51.5	0.200	mg/kg dry	51.1	2.74	95.5	75-125					
Barium	170	0.400	"	51.1	92.0	152	75-125					QM-05
Cadmium	2.00	0.200	"	2.55	0.0937	74.8	75-125					QM-05
Copper	44.0	0.400	"	51.1	5.31	75.8	75-125					
Lead	31.5	0.200	"	25.5	5.99	99.9	75-125					
Nickel	44.3	0.400	"	51.1	6.01	74.9	75-125					QM-05
Silver	1.88	0.0200	"	2.55	0.0294	72.7	75-125					QM-05
Zinc	68.5	0.400	"	51.1	21.8	91.5	75-125					
Selenium	5.41	0.260	"	5.11	ND	106	75-125					

Matrix Spike Dup (BID0729-MSD1)	Source: 2504222-18			Prepared: 04/14/25 Analyzed: 05/22/25								
Arsenic	46.8	0.200	mg/kg dry	47.5	2.74	92.7	75-125	9.58	25			
Barium	151	0.400	"	47.5	92.0	125	75-125	11.4	25			
Cadmium	1.86	0.200	"	2.38	0.0937	74.5	75-125	7.20	25			QM-05
Copper	40.9	0.400	"	47.5	5.31	75.0	75-125	7.26	25			
Lead	27.9	0.200	"	23.8	5.99	92.3	75-125	12.0	25			
Nickel	41.0	0.400	"	47.5	6.01	73.6	75-125	7.63	25			QM-05
Silver	1.76	0.0200	"	2.38	0.0294	73.0	75-125	6.60	25			QM-05
Zinc	61.6	0.400	"	47.5	21.8	83.8	75-125	10.6	25			
Selenium	5.12	0.260	"	4.75	ND	108	75-125	5.43	25			

Batch BID0730 - EPA 3050B

Blank (BID0730-BLK1)	Prepared: 04/14/25 Analyzed: 05/29/25											
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	"									

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Tasman Geosciences
4725 Independence St.
Wheat Ridge CO, 80033

Project: Noble - Darlene Dinnel 01 Tank Battery

Project Number: [none]
Project Manager: Mike Medina

Reported:
06/26/25 11:17

Total Metals by EPA 6020B - Quality Control
Summit Scientific

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

Batch BID0730 - EPA 3050B

LCS (BID0730-BS1)

Prepared: 04/14/25 Analyzed: 05/29/25

Arsenic	38.1	0.200	mg/kg wet	39.1		97.6	80-120			
Barium	33.9	0.400	"	39.1		86.9	80-120			
Cadmium	1.59	0.200	"	1.95		81.5	80-120			
Copper	39.0	0.400	"	39.1		99.9	80-120			
Lead	16.7	0.200	"	19.5		85.3	80-120			
Nickel	39.0	0.400	"	39.1		99.9	80-120			
Silver	1.71	0.0200	"	1.95		87.7	80-120			
Zinc	39.6	0.400	"	39.1		101	80-120			
Selenium	3.86	0.260	"	3.91		98.9	80-120			

Duplicate (BID0730-DUP1)

Source: 2504225-05

Prepared: 04/14/25 Analyzed: 05/29/25

Arsenic	11.5	0.200	mg/kg dry		9.41			20.2	20	QR-04
Barium	66.7	0.400	"		65.6			1.63	20	
Cadmium	0.196	0.200	"		0.224			13.2	20	
Copper	7.19	0.400	"		6.16			15.5	20	
Lead	9.29	0.200	"		9.38			1.00	20	
Nickel	11.9	0.400	"		10.9			8.77	20	
Silver	0.0162	0.0200	"		0.0133			19.2	20	
Zinc	57.7	0.400	"		53.3			7.87	20	
Selenium	0.231	0.260	"		0.209			9.96	20	

Matrix Spike (BID0730-MS1)

Source: 2504225-05

Prepared: 04/14/25 Analyzed: 05/29/25

Arsenic	60.1	0.200	mg/kg dry	51.0	9.41	99.5	75-125			
Barium	108	0.400	"	51.0	65.6	82.8	75-125			
Cadmium	1.94	0.200	"	2.55	0.224	67.2	75-125			QM-05
Copper	44.9	0.400	"	51.0	6.16	76.0	75-125			
Lead	31.1	0.200	"	25.5	9.38	85.2	75-125			
Nickel	51.7	0.400	"	51.0	10.9	79.9	75-125			
Silver	2.00	0.0200	"	2.55	0.0133	78.0	75-125			
Zinc	103	0.400	"	51.0	53.3	96.9	75-125			
Selenium	4.42	0.260	"	5.10	0.209	82.6	75-125			

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Tasman Geosciences
 4725 Independence St.
 Wheat Ridge CO, 80033

Project: Noble - Darlene Dinnel 01 Tank Battery

Project Number: [none]
 Project Manager: Mike Medina

Reported:
 06/26/25 11:17

Total Metals by EPA 6020B - Quality Control

Summit Scientific

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

Batch BID0730 - EPA 3050B

Matrix Spike Dup (BID0730-MSD1)

Source: 2504225-05

Prepared: 04/14/25 Analyzed: 05/29/25

Analyte	Result	Limit	Units	Spike Level	Source Result	Source %REC	Source Limits	Source RPD	RPD Limit	Notes
Arsenic	57.4	0.200	mg/kg dry	51.0	9.41	94.2	75-125	4.59	25	
Barium	105	0.400	"	51.0	65.6	78.1	75-125	2.23	25	
Cadmium	1.87	0.200	"	2.55	0.224	64.8	75-125	3.24	25	QM-05
Copper	45.0	0.400	"	51.0	6.16	76.3	75-125	0.344	25	
Lead	29.8	0.200	"	25.5	9.38	80.2	75-125	4.20	25	
Nickel	52.9	0.400	"	51.0	10.9	82.3	75-125	2.28	25	
Silver	1.95	0.0200	"	2.55	0.0133	76.2	75-125	2.40	25	
Zinc	97.9	0.400	"	51.0	53.3	87.5	75-125	4.79	25	
Selenium	4.21	0.260	"	5.10	0.209	78.6	75-125	4.73	25	

Summit Scientific

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Tasman Geosciences
4725 Independence St.
Wheat Ridge CO, 80033

Project: Noble - Darlene Dinnel 01 Tank Battery

Project Number: [none]
Project Manager: Mike Medina

Reported:
06/26/25 11:17

Hexavalent Chromium by HACH M8023 - Quality Control
Summit Scientific

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

Batch BID0858 - 3060A Mod

Blank (BID0858-BLK1)

Prepared: 04/15/25 Analyzed: 04/16/25

Chromium, Hexavalent ND 0.30 mg/kg wet

LCS (BID0858-BS1)

Prepared: 04/15/25 Analyzed: 04/16/25

Chromium, Hexavalent 24.8 0.30 mg/kg wet 25.8 96.4 80-120

Duplicate (BID0858-DUP1)

Source: 2504222-21

Prepared: 04/15/25 Analyzed: 04/16/25

Chromium, Hexavalent ND 0.30 mg/kg dry ND 20

Matrix Spike (BID0858-MS1)

Source: 2504222-21

Prepared: 04/15/25 Analyzed: 04/16/25

Chromium, Hexavalent 29.0 0.30 mg/kg dry 29.7 ND 97.6 75-125

Matrix Spike Dup (BID0858-MSD1)

Source: 2504222-21

Prepared: 04/15/25 Analyzed: 04/16/25

Chromium, Hexavalent 31.3 0.30 mg/kg dry 30.9 ND 101 75-125 7.66 20

Summit Scientific

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Tasman Geosciences
 4725 Independence St.
 Wheat Ridge CO, 80033

Project: Noble - Darlene Dinnel 01 Tank Battery

Project Number: [none]
 Project Manager: Mike Medina

Reported:
 06/26/25 11:17

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

Summit Scientific

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

Batch BIE0053 - General Preparation

Blank (BIE0053-BLK1)

Prepared: 05/01/25 Analyzed: 06/04/25

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

LCS (BIE0053-BS1)

Prepared: 05/01/25 Analyzed: 06/04/25

Calcium	5.69	0.0500	mg/L wet	5.00		114	70-130			
Magnesium	5.23	0.0500	"	5.00		105	70-130			
Sodium	5.00	0.0500	"	5.00		100	70-130			

Summit Scientific

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Tasman Geosciences
4725 Independence St.
Wheat Ridge CO, 80033

Project: Noble - Darlene Dinnel 01 Tank Battery

Project Number: [none]
Project Manager: Mike Medina

Reported:
06/26/25 11:17

Anions by EPA Method 300.0 - Quality Control

Summit Scientific

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

Batch BID0976 - General Preparation

Blank (BID0976-BLK1)

Prepared: 04/16/25 Analyzed: 04/17/25

Chloride	ND	0.0600	mg/L						
Sulfate	ND	0.300	"						

LCS (BID0976-BS1)

Prepared: 04/16/25 Analyzed: 04/17/25

Chloride	2.97	0.0600	mg/L	3.00	99.1	90-110
Sulfate	15.1	0.300	"	15.0	100	90-110

Duplicate (BID0976-DUP1)

Source: 2504223-01

Prepared: 04/16/25 Analyzed: 04/17/25

Chloride	239	0.0600	mg/L	244	2.16	20
Sulfate	443	0.300	"	454	2.50	20

Matrix Spike (BID0976-MS1)

Source: 2504223-01

Prepared: 04/16/25 Analyzed: 04/17/25

Chloride	365	0.0600	mg/L	150	244	80.4	80-120
Sulfate	1060	0.300	"	750	454	80.7	80-120

Summit Scientific

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Tasman Geosciences
 4725 Independence St.
 Wheat Ridge CO, 80033

Project: Noble - Darlene Dinnel 01 Tank Battery

Project Number: [none]
 Project Manager: Mike Medina

Reported:
 06/26/25 11:17

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 BID0818 - General Preparation

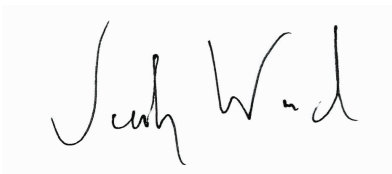
Duplicate (BID0818-DUP1)

Source: 2504205-02

Prepared: 04/15/25 Analyzed: 04/16/25

% Solids	72.3		%		69.7			3.59	20	
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Summit Scientific



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Tasman Geosciences
 4725 Independence St.
 Wheat Ridge CO, 80033

Project: Noble - Darlene Dinnel 01 Tank Battery

Project Number: [none]
 Project Manager: Mike Medina

Reported:
 06/26/25 11:17

Total Dissolved Solids by SM2540C - Quality Control

Summit Scientific

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

Batch BID0929 - General Preparation

Blank (BID0929-BLK1)

Prepared: 04/16/25 Analyzed: 04/18/25

Total Dissolved Solids ND 10.0 mg/L

Duplicate (BID0929-DUP1)

Source: 2504223-03

Prepared: 04/16/25 Analyzed: 04/18/25

Total Dissolved Solids 1360 10.0 mg/L 1350 0.738 20

Summit Scientific

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Tasman Geosciences
4725 Independence St.
Wheat Ridge CO, 80033

Project: Noble - Darlene Dinnel 01 Tank Battery

Project Number: [none]
Project Manager: Mike Medina

Reported:
06/26/25 11:17

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

Summit Scientific

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

Batch BIE0056 - General Preparation

Blank (BIE0056-BLK1)

Prepared: 05/01/25 Analyzed: 05/05/25

Specific Conductance (EC) ND 0.0100 mmhos/cm

LCS (BIE0056-BS1)

Prepared: 05/01/25 Analyzed: 05/05/25

Specific Conductance (EC) 0.155 0.0100 mmhos/cm 0.150 104 95-105

Duplicate (BIE0056-DUP1)

Source: 2504205-01

Prepared: 05/01/25 Analyzed: 05/05/25

Specific Conductance (EC) 0.531 0.0100 mmhos/cm 0.544 2.42 20

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
 4725 Independence St.
 Wheat Ridge CO, 80033

Project: Noble - Darlene Dinnel 01 Tank Battery

Project Number: [none]
 Project Manager: Mike Medina

Reported:
 06/26/25 11:17

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

Summit Scientific

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

Batch BIE0061 - General Preparation

LCS (BIE0061-BS1)

Prepared: 05/01/25 Analyzed: 05/05/25

pH	9.17	pH Units	9.18	99.9	95-105
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Duplicate (BIE0061-DUP1)

Source: 2504205-01

Prepared: 05/01/25 Analyzed: 05/05/25

pH	8.29	pH Units	8.42	1.56	20
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Summit Scientific

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Tasman Geosciences
4725 Independence St.
Wheat Ridge CO, 80033

Project: Noble - Darlene Dinnel 01 Tank Battery

Project Number: [none]
Project Manager: Mike Medina

Reported:
06/26/25 11:17

Notes and Definitions

- Z-01a This analyte is suspected carryover from the sample ran before it.
- Z-01 Analyte was above calibration range on the instrument (150 ppb) and cannot be accurately quantified. A dilution was ran out of hold.
- R-05 The reporting limit for this sample has been raised due to the presence of high levels of non-target analytes.
- 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. Only applies to source/DUP and MS/MSD pairs.
- 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.
- pHHT1 HCl-preserved VOA vial had a pH greater than 2 and is therefore outside of acceptance range; thus, hold-times have been reduced to 7 days. Analysis was completed within allowable hold-time. Data is unaffected.
- I-02 Sample was prepared and/or analyzed outside of holding time.
- E The concentration indicated for this analyte is an estimated value above the calibration range of the instrument.
- 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