

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

July 25, 2024

Jacob Whritenour

Tasman Geosciences

6855 W. 119th Ave.

Broomfield, CO 80020

RE: Noble - Reinick C-64N64W 0SENE Tank Battery

Work Order #2407292

Enclosed are the results of analyses for samples received by Summit Scientific on 07/23/24 17:47. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read 'P. Shrewsbury', with a stylized, cursive script.

Paul Shrewsbury

President



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

Project: Noble - Reinick C-64N64W 0SENE Tank Battery

Project Number: UWRWE-A2811-ABN
Project Manager: Jacob Whritenour

Reported:
07/25/24 12:38

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
GW01	2407292-01	Water	07/23/24 14:46	07/23/24 17:47

Summit Scientific

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				Send Data To:				Send Invoice To:														
Client: Noble/Tasman				Project Manager: Jake Whritenour				Company: <u>Noble</u>														
Address: 6855 W. 119th Ave.				E-Mail: Jwhritenour@tasman-geo.com				Project Name/Location:														
City/State/Zip: Broomfield/CO/ 80020								AFE#: <u>UNREVE-A2811-ABN</u>														
Phone: 810-923-0781				Project Name: <u>Penich C-64N64w 050ne</u>				PO/Billing Codes:														
Sampler Name: Shannon Walus				Project Number: <u>TAN7100+TCU</u>				Contact: <u>Miguel Barron</u> <u>SW Mine Montalcy</u>														
				Preservative		Matrix		Analysis Requested				Special Instructions										
ID	Sample Description	Date Sampled	Time Sampled	# of containers	HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other	VOC-915	TPH-915	PAH -915	pH, EC, SAR	Boron-915	Metals-915	HOLD			
1	<u>ETNO1</u>	<u>7/23/24</u>	<u>1440</u>	<u>3</u>	<u>3</u>				<u>X</u>												<u>X</u>	SAR, EC, pH by saturated paste
2																						
3																						
4																						
5																						
6																						
7																						
8																						
9																						
10																						
11																						
12																						
13																						
14																						
15																						

Relinquished by: <u>Shannon Walus</u>	Date/Time: <u>7/23/24 1700</u>	Received by: <u>Tasman Lock Box</u>	Date/Time: <u>7/23/24 1700</u>	TAT Business Days	Field DO	Notes: <u>*1,2,4 & 1,3,5</u> <u>TWBS, BTEXN</u>
Relinquished by: <u>Tasman Lock Box</u>	Date/Time: <u>7/23/24 1747</u>	Received by: <u>[Signature]</u>	Date/Time: <u>7/23/24 1747</u>	Same Day <u>X</u>	Field EC	
Relinquished by:	Date/Time:	Received by:	Date/Time:	1 Day	Field ORP	
				2 Days	Field pH	
				3 Days	Field Temp.	
Relinquished by:	Date/Time:	Received by:	Date/Time:	Standard	Field Turb.	
Temperature Upon Receipt: <u>17.3</u>	Corrected Temperature <u>8</u>	IR gun #: <u>()</u>	HNO3 lot #:			

S₂

Sample Receipt Checklist

S2 Work Order# 2407292Client Noble Cosman

Client Project ID:

(Tank Battery)
Renick C-64N64W 6SENEShipped Via: H.D./P.U./FedEx/UPS/USPS/Other ☐

Airbill #: _____

☐	☐	☐	☐	☐
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Matrix (Check all that apply)

Air

☐

Soil/Solid

☐

Water

☒

Other

☐

Temp (°C)

17.3

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.	☒	☐	☐	<u>on ICE</u>
If custody seals are present, are they intact? ⁽¹⁾	☒	☐	☐	
Are samples due within 48 hours present?	☒	☐	☐	<u>Same day</u>
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	☐	☒	☐	
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⁾	☒	☐	☐	
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⁾	☐	☒	☐	<u>no project name</u>
For volatiles in water – is there headspace present? If yes, contact client and note in narrative.	☐	☒	☐	
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.	☒	☐	☐	<u>HCl</u>
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?	☐	☐	☒	

Additional Comments (if any):

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

7/23/24
Date/Time



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Project Manager: Jacob Whritenour

Reported:
07/25/24 12:38

GW01
2407292-01 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **07/23/24 14:46**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Benzene	ND	1.0	ug/l	1	BHG0664	07/23/24	07/24/24	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: **07/23/24 14:46**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: 1,2-Dichloroethane-d4	12.2	91.7 %	23-173		"	"	"	"	
Surrogate: Toluene-d8	13.3	99.7 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	12.8	96.1 %	21-167		"	"	"	"	

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Reported:
07/25/24 12:38

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 BHG0664 - EPA 5030 Water MS

Blank (BHG0664-BLK1)

Prepared: 07/23/24 Analyzed: 07/24/24

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	13.0		"	13.3		97.9	23-173			
Surrogate: Toluene-d8	14.6		"	13.3		109	20-170			
Surrogate: 4-Bromofluorobenzene	12.9		"	13.3		96.8	21-167			

LCS (BHG0664-BS1)

Prepared & Analyzed: 07/23/24

Benzene	39.4	1.0	ug/l	33.3		118	51-132			
Toluene	39.7	1.0	"	33.3		119	51-138			
Ethylbenzene	38.1	1.0	"	33.3		114	58-146			
m,p-Xylene	78.5	2.0	"	66.7		118	57-144			
o-Xylene	40.4	1.0	"	33.3		121	53-146			
Naphthalene	36.5	1.0	"	33.3		109	70-130			
1,2,4-Trimethylbenzene	38.9	1.0	"	33.3		117	70-130			
1,3,5-Trimethylbenzene	39.1	1.0	"	33.3		117	70-130			
Surrogate: 1,2-Dichloroethane-d4	14.1		"	13.3		106	23-173			
Surrogate: Toluene-d8	13.1		"	13.3		98.4	20-170			
Surrogate: 4-Bromofluorobenzene	14.0		"	13.3		105	21-167			

LCS Dup (BHG0664-BS1)

Prepared & Analyzed: 07/23/24

Benzene	40.9	1.0	ug/l	33.3		123	51-132	3.71	20	
Toluene	40.9	1.0	"	33.3		123	51-138	2.93	20	
Ethylbenzene	39.1	1.0	"	33.3		117	58-146	2.54	20	
m,p-Xylene	81.0	2.0	"	66.7		122	57-144	3.21	20	
o-Xylene	41.6	1.0	"	33.3		125	53-146	3.12	20	
Naphthalene	37.7	1.0	"	33.3		113	70-130	3.37	20	
1,2,4-Trimethylbenzene	40.1	1.0	"	33.3		120	70-130	3.14	20	
1,3,5-Trimethylbenzene	40.1	1.0	"	33.3		120	70-130	2.53	20	
Surrogate: 1,2-Dichloroethane-d4	14.5		"	13.3		109	23-173			
Surrogate: Toluene-d8	13.1		"	13.3		98.3	20-170			
Surrogate: 4-Bromofluorobenzene	13.6		"	13.3		102	21-167			

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Notes and Definitions

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