

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

June 24, 2025

Bryce Goldade

Tasman Geosciences

4725 Independence St.

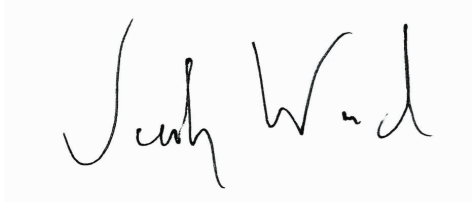
Wheat Ridge, CO 80033

RE: PDC - Jerke UP 8-7 Tank Battery

Work Order #2501298

Enclosed are the results of analyses for samples received by Summit Scientific on 01/21/25 17:30. 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 "W".

Jacob Wood For Paul Shrewsbury

President

Please Note - Out-of-Hold Results Included:

The 300.0 Anions analyses were analyzed outside of allotted holding times due to delays at Summit Scientific.



Tasman Geosciences
4725 Independence St.
Wheat Ridge CO, 80033

Project: PDC - Jerke UP 8-7 Tank Battery

Project Number: [none]
Project Manager: Bryce Goldade

Reported:
06/24/25 12:28

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BH19	2501298-01	Water	01/21/25 10:56	01/21/25 17:30
BH20	2501298-02	Water	01/21/25 10:54	01/21/25 17:30
BH22	2501298-03	Water	01/21/25 10:50	01/21/25 17:30
BH23	2501298-04	Water	01/21/25 10:48	01/21/25 17:30
BH24	2501298-05	Water	01/21/25 10:46	01/21/25 17:30
BH25	2501298-06	Water	01/21/25 10:40	01/21/25 17:30
BH26	2501298-07	Water	01/21/25 10:38	01/21/25 17:30
BH27	2501298-08	Water	01/21/25 10:36	01/21/25 17:30
BH28	2501298-09	Water	01/21/25 10:34	01/21/25 17:30
BH29	2501298-10	Water	01/21/25 10:52	01/21/25 17:30
BH30	2501298-11	Water	01/21/25 10:32	01/21/25 17:30

Case Narrative

The analyses for Chloride and Sulfate (Anions by EPA Method 300.0) 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 3/11/2025 at 12:41 MT.

Summit Scientific

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

Lab ID	Page 1 of 1
2501298	

Send Data To:		Send Invoice To:
Client: Tasman	Project Manager: Bryce Goldade	Company: PDC Energy
Address: 6855 W. 119th Ave.	E-Mail: tas-chevron-4@tasman-geo.com	Project Name/Location: Jerve UP 8-7
City/State/Zip: Broomfield/CO/ 80020	KRUEFZ@cnx.com	AFE#:
Phone: 8109230781	Project Name: Jerve UP 8-7 tank battery	PO/Billing Codes:
Sampler Name: Shannon Wallis	Project Number:	Contact: Karen Olson

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix			Analysis Requested				Special Instructions			
					HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other	BTEXN	1,2,4 & 1,3,5-TMB	TDS, CL, SO4		Dissolved Selenium		
1	BH19	11/21/05	1056	5	3		2			X			X	X	X				SAR, EC, pH by saturated paste
2	BH20		1054																
3	BH22		1050																
4	BH23		1048																
5	BH24		1046																
6	BH25		1040																
7	BH26		1038																
8	BH27		1036																
9	BH28		1034																
10	BH29		1052																
11	BH30		1032																
12																			
13																			
14																			
15																			

Relinquished by: Shannon Wallis	Date/Time: 11/21/05 1500	Received by: Tasman Lock Box	Date/Time: 11/21/05 1500	TAT Business Days	Field DO	Notes: *Dissolved Selenium on hold
Relinquished by: Tasman Lock Box	Date/Time: 12/25 1730	Received by: [Signature]	Date/Time: 12/25 1730	Same Day	Field EC	
				1 Day	Field ORP	
				2 Days	Field pH	
				3 Days	Field Temp.	
Temperature Upon Receipt: 1-1	Corrected Temperature: 0	IR gun #: 1	HNO3 lot #:	Standard	Field Turb. ✓	

S₂

S2 Work Order# 2501298

Sample Receipt Checklist

Client: Tasman Client Project ID: Jerkeup 8-7 Tank Battery

Received Via: H.D./FU/FedEx/UPS/USPS/Other Airbill #: _____

Matrix (Circle all that apply) Air/Soil/Water/Other Temp (°C) 1.1 Thermometer # 1

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.	-			<u>on 2 CE</u>
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.	✓			
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		✓		
<u>Additional Comments (if any):</u>				
⁽¹⁾ If NO, then contact the client before proceeding with analysis and note in case narrative.				

Control Form #: SRC-001

AS

Custodian Printed Name

1/21/25
Date/Time



Tasman Geosciences
4725 Independence St.
Wheat Ridge CO, 80033

Project: PDC - Jerke UP 8-7 Tank Battery

Project Number: [none]
Project Manager: Bryce Goldade

Reported:
06/24/25 12:28

BH19
2501298-01 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **01/21/25 10:56**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	1.0		ug/l	1	BIA1440	01/30/25	01/31/25	EPA 8260B	
Toluene	ND	1.0		"	"	"	"	"	"	
Ethylbenzene	7.3	1.0		"	"	"	"	"	"	
Xylenes (total)	20	2.0		"	"	"	"	"	"	
Naphthalene	1.6	1.0		"	"	"	"	"	"	
1,2,4-Trimethylbenzene	14	1.0		"	"	"	"	"	"	
1,3,5-Trimethylbenzene	1.3	1.0		"	"	"	"	"	"	

Date Sampled: **01/21/25 10:56**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	13.4	100 %		23-173		"	"	"	"	
Surrogate: Toluene-d8	12.8	95.7 %		20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	13.9	104 %		21-167		"	"	"	"	

Anions by EPA Method 300.0

Date Sampled: **01/21/25 10:56**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chloride	146	0.0600		mg/L	50	BIB0263	02/06/25	02/28/25	EPA 300.0	I-02
Sulfate	241	0.300		"	"	"	"	"	"	I-02

Total Dissolved Solids by SM2540C

Date Sampled: **01/21/25 10:56**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Total Dissolved Solids	950	10.0		mg/L	1	BIA0990	01/22/25	01/23/25	SM2540C	

Summit Scientific

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Tasman Geosciences
4725 Independence St.
Wheat Ridge CO, 80033

Project: PDC - Jerke UP 8-7 Tank Battery

Project Number: [none]
Project Manager: Bryce Goldade

Reported:
06/24/25 12:28

BH20
2501298-02 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **01/21/25 10:54**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	1.0		ug/l	1	BIA1440	01/30/25	01/31/25	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: **01/21/25 10:54**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	13.3	99.6 %		23-173		"	"	"	"	
Surrogate: Toluene-d8	13.2	99.2 %		20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	13.0	97.4 %		21-167		"	"	"	"	

Anions by EPA Method 300.0

Date Sampled: **01/21/25 10:54**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chloride	238	0.0600		mg/L	50	BIB0263	02/06/25	02/28/25	EPA 300.0	I-02
Sulfate	420	0.300		"	"	"	"	"	"	I-02

Total Dissolved Solids by SM2540C

Date Sampled: **01/21/25 10:54**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Total Dissolved Solids	3280	10.0		mg/L	1	BIA0990	01/22/25	01/23/25	SM2540C	

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Tasman Geosciences
4725 Independence St.
Wheat Ridge CO, 80033

Project: PDC - Jerke UP 8-7 Tank Battery

Project Number: [none]
Project Manager: Bryce Goldade

Reported:
06/24/25 12:28

BH22
2501298-03 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **01/21/25 10:50**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	1.0		ug/l	1	BIA1440	01/30/25	01/31/25	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: **01/21/25 10:50**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	13.6	102 %		23-173		"	"	"	"	
Surrogate: Toluene-d8	13.1	98.6 %		20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	13.5	101 %		21-167		"	"	"	"	

Anions by EPA Method 300.0

Date Sampled: **01/21/25 10:50**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chloride	199	0.0600		mg/L	50	BIB0263	02/06/25	02/28/25	EPA 300.0	I-02
Sulfate	355	0.300		"	"	"	"	"	"	I-02

Total Dissolved Solids by SM2540C

Date Sampled: **01/21/25 10:50**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Total Dissolved Solids	609	10.0		mg/L	1	BIA0990	01/22/25	01/23/25	SM2540C	JAN

Summit Scientific

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Tasman Geosciences
4725 Independence St.
Wheat Ridge CO, 80033

Project: PDC - Jerke UP 8-7 Tank Battery

Project Number: [none]
Project Manager: Bryce Goldade

Reported:
06/24/25 12:28

BH23
2501298-04 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **01/21/25 10:48**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	1.0		ug/l	1	BIA1440	01/30/25	01/31/25	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: **01/21/25 10:48**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	13.4	101 %		23-173		"	"	"	"	
Surrogate: Toluene-d8	13.1	98.3 %		20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	13.5	101 %		21-167		"	"	"	"	

Anions by EPA Method 300.0

Date Sampled: **01/21/25 10:48**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chloride	210	0.0600		mg/L	50	BIB0263	02/06/25	02/28/25	EPA 300.0	I-02
Sulfate	325	0.300		"	"	"	"	"	"	I-02

Total Dissolved Solids by SM2540C

Date Sampled: **01/21/25 10:48**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Total Dissolved Solids	1150	10.0		mg/L	1	BIA0990	01/22/25	01/23/25	SM2540C	

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Tasman Geosciences
4725 Independence St.
Wheat Ridge CO, 80033

Project: PDC - Jerke UP 8-7 Tank Battery

Project Number: [none]
Project Manager: Bryce Goldade

Reported:
06/24/25 12:28

BH24
2501298-05 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **01/21/25 10:46**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	1.0		ug/l	1	BIA1440	01/30/25	01/31/25	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: **01/21/25 10:46**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	13.5	101 %		23-173		"	"	"	"	
Surrogate: Toluene-d8	13.2	98.8 %		20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	13.5	101 %		21-167		"	"	"	"	

Anions by EPA Method 300.0

Date Sampled: **01/21/25 10:46**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chloride	249	0.0600		mg/L	50	BIB0263	02/06/25	02/28/25	EPA 300.0	I-02
Sulfate	354	0.300		"	"	"	"	"	"	I-02

Total Dissolved Solids by SM2540C

Date Sampled: **01/21/25 10:46**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Total Dissolved Solids	1220	10.0		mg/L	1	BIA0990	01/22/25	01/23/25	SM2540C	

Summit Scientific

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Tasman Geosciences
4725 Independence St.
Wheat Ridge CO, 80033

Project: PDC - Jerke UP 8-7 Tank Battery

Project Number: [none]
Project Manager: Bryce Goldade

Reported:
06/24/25 12:28

BH25
2501298-06 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **01/21/25 10:40**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	1.0		ug/l	1	BIA1440	01/30/25	01/31/25	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: **01/21/25 10:40**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	13.8	104 %		23-173		"	"	"	"	
Surrogate: Toluene-d8	13.4	100 %		20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	13.3	99.5 %		21-167		"	"	"	"	

Anions by EPA Method 300.0

Date Sampled: **01/21/25 10:40**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chloride	165	0.0600		mg/L	50	BIB0263	02/06/25	02/28/25	EPA 300.0	I-02
Sulfate	337	0.300		"	"	"	"	"	"	I-02

Total Dissolved Solids by SM2540C

Date Sampled: **01/21/25 10:40**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Total Dissolved Solids	1610	10.0		mg/L	1	BIA0990	01/22/25	01/23/25	SM2540C	

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Tasman Geosciences
4725 Independence St.
Wheat Ridge CO, 80033

Project: PDC - Jerke UP 8-7 Tank Battery

Project Number: [none]
Project Manager: Bryce Goldade

Reported:
06/24/25 12:28

BH26
2501298-07 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **01/21/25 10:38**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	1.0		ug/l	1	BIA1440	01/30/25	01/31/25	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: **01/21/25 10:38**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	13.9	104 %		23-173		"	"	"	"	
Surrogate: Toluene-d8	13.3	99.5 %		20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	13.6	102 %		21-167		"	"	"	"	

Anions by EPA Method 300.0

Date Sampled: **01/21/25 10:38**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chloride	189	0.0600		mg/L	50	BIB0263	02/06/25	02/28/25	EPA 300.0	I-02
Sulfate	302	0.300		"	"	"	"	"	"	I-02

Total Dissolved Solids by SM2540C

Date Sampled: **01/21/25 10:38**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Total Dissolved Solids	1160	10.0		mg/L	1	BIA0990	01/22/25	01/23/25	SM2540C	

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Tasman Geosciences
4725 Independence St.
Wheat Ridge CO, 80033

Project: PDC - Jerke UP 8-7 Tank Battery

Project Number: [none]
Project Manager: Bryce Goldade

Reported:
06/24/25 12:28

BH27
2501298-08 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **01/21/25 10:36**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	1.0		ug/l	1	BIA1440	01/30/25	01/31/25	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: **01/21/25 10:36**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	13.7	103 %		23-173		"	"	"	"	
Surrogate: Toluene-d8	13.2	98.7 %		20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	13.5	101 %		21-167		"	"	"	"	

Anions by EPA Method 300.0

Date Sampled: **01/21/25 10:36**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chloride	451	0.0600		mg/L	50	BIB0263	02/06/25	02/28/25	EPA 300.0	I-02
Sulfate	596	0.300		"	"	"	"	"	"	I-02

Total Dissolved Solids by SM2540C

Date Sampled: **01/21/25 10:36**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Total Dissolved Solids	1130	10.0		mg/L	1	BIA0990	01/22/25	01/23/25	SM2540C	

Summit Scientific

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Tasman Geosciences
4725 Independence St.
Wheat Ridge CO, 80033

Project: PDC - Jerke UP 8-7 Tank Battery

Project Number: [none]
Project Manager: Bryce Goldade

Reported:
06/24/25 12:28

BH28
2501298-09 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **01/21/25 10:34**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	1.0		ug/l	1	BIA1440	01/30/25	01/31/25	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: **01/21/25 10:34**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	13.7	103 %		23-173		"	"	"	"	
Surrogate: Toluene-d8	13.3	99.7 %		20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	13.5	102 %		21-167		"	"	"	"	

Anions by EPA Method 300.0

Date Sampled: **01/21/25 10:34**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chloride	219	0.0600		mg/L	50	BIB0263	02/06/25	02/28/25	EPA 300.0	I-02
Sulfate	321	0.300		"	"	"	"	"	"	I-02

Total Dissolved Solids by SM2540C

Date Sampled: **01/21/25 10:34**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Total Dissolved Solids	1730	10.0		mg/L	1	BIA0990	01/22/25	01/23/25	SM2540C	

Summit Scientific

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Tasman Geosciences
4725 Independence St.
Wheat Ridge CO, 80033

Project: PDC - Jerke UP 8-7 Tank Battery

Project Number: [none]
Project Manager: Bryce Goldade

Reported:
06/24/25 12:28

BH29
2501298-10 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **01/21/25 10:52**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	1.0		ug/l	1	BIA1440	01/30/25	01/31/25	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: **01/21/25 10:52**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	13.5	101 %		23-173		"	"	"	"	
Surrogate: Toluene-d8	13.2	99.2 %		20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	13.9	104 %		21-167		"	"	"	"	

Anions by EPA Method 300.0

Date Sampled: **01/21/25 10:52**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chloride	137	0.0600		mg/L	50	BIB0263	02/06/25	02/28/25	EPA 300.0	I-02
Sulfate	253	0.300		"	"	"	"	"	"	I-02

Total Dissolved Solids by SM2540C

Date Sampled: **01/21/25 10:52**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Total Dissolved Solids	1400	10.0		mg/L	1	BIA0990	01/22/25	01/23/25	SM2540C	

Summit Scientific

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Tasman Geosciences
4725 Independence St.
Wheat Ridge CO, 80033

Project: PDC - Jerke UP 8-7 Tank Battery

Project Number: [none]
Project Manager: Bryce Goldade

Reported:
06/24/25 12:28

BH30
2501298-11 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **01/21/25 10:32**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	1.0		ug/l	1	BIA1440	01/30/25	01/31/25	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: **01/21/25 10:32**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	13.7	103 %		23-173		"	"	"	"	
Surrogate: Toluene-d8	13.2	99.2 %		20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	13.5	101 %		21-167		"	"	"	"	

Anions by EPA Method 300.0

Date Sampled: **01/21/25 10:32**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chloride	679	0.0600		mg/L	50	BIB0263	02/06/25	02/28/25	EPA 300.0	I-02
Sulfate	32.8	0.300		"	"	"	"	"	"	I-02

Total Dissolved Solids by SM2540C

Date Sampled: **01/21/25 10:32**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Total Dissolved Solids	1080	10.0		mg/L	1	BIA0990	01/22/25	01/23/25	SM2540C	

Summit Scientific

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Tasman Geosciences
4725 Independence St.
Wheat Ridge CO, 80033

Project: PDC - Jerke UP 8-7 Tank Battery

Project Number: [none]
Project Manager: Bryce Goldade

Reported:
06/24/25 12:28

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

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

Batch BIA1440 - EPA 5030 Water MS

Blank (BIA1440-BLK1)

Prepared: 01/30/25 Analyzed: 01/31/25

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	"								
<i>Surrogate: 1,2-Dichloroethane-d4</i>	13.5		"	13.3		101		23-173			
<i>Surrogate: Toluene-d8</i>	13.3		"	13.3		99.5		20-170			
<i>Surrogate: 4-Bromofluorobenzene</i>	13.3		"	13.3		100		21-167			

LCS (BIA1440-BS1)

Prepared: 01/30/25 Analyzed: 01/31/25

Benzene	36.4	1.0	ug/l	33.3		109		51-132			
Toluene	35.5	1.0	"	33.3		107		51-138			
Ethylbenzene	37.7	1.0	"	33.3		113		58-146			
m,p-Xylene	73.3	2.0	"	66.7		110		57-144			
o-Xylene	35.8	1.0	"	33.3		107		53-146			
Naphthalene	33.7	1.0	"	33.3		101		70-130			
1,2,4-Trimethylbenzene	36.8	1.0	"	33.3		110		70-130			
1,3,5-Trimethylbenzene	36.6	1.0	"	33.3		110		70-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	13.5		"	13.3		101		23-173			
<i>Surrogate: Toluene-d8</i>	13.4		"	13.3		100		20-170			
<i>Surrogate: 4-Bromofluorobenzene</i>	13.3		"	13.3		99.7		21-167			

LCS Dup (BIA1440-BSD1)

Prepared: 01/30/25 Analyzed: 01/31/25

Benzene	35.6	1.0	ug/l	33.3		107		51-132	2.11	20	
Toluene	34.7	1.0	"	33.3		104		51-138	2.37	20	
Ethylbenzene	36.8	1.0	"	33.3		110		58-146	2.63	20	
m,p-Xylene	71.0	2.0	"	66.7		106		57-144	3.22	20	
o-Xylene	34.5	1.0	"	33.3		103		53-146	3.73	20	
Naphthalene	32.4	1.0	"	33.3		97.3		70-130	3.81	20	
1,2,4-Trimethylbenzene	35.4	1.0	"	33.3		106		70-130	3.79	20	
1,3,5-Trimethylbenzene	35.5	1.0	"	33.3		106		70-130	3.13	20	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	13.2		"	13.3		99.2		23-173			
<i>Surrogate: Toluene-d8</i>	13.3		"	13.3		100		20-170			
<i>Surrogate: 4-Bromofluorobenzene</i>	12.8		"	13.3		95.6		21-167			

Summit Scientific

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Tasman Geosciences
 4725 Independence St.
 Wheat Ridge CO, 80033

Project: PDC - Jerke UP 8-7 Tank Battery

Project Number: [none]
 Project Manager: Bryce Goldade

Reported:
 06/24/25 12:28

Anions by EPA Method 300.0 - Quality Control

Summit Scientific

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

Batch BIB0263 - General Preparation

Blank (BIB0263-BLK1)

Prepared: 02/06/25 Analyzed: 03/10/25

Chloride	ND	0.0600	mg/L						
Sulfate	ND	0.300	"						

LCS (BIB0263-BS1)

Prepared: 02/06/25 Analyzed: 02/28/25

Chloride	2.88	0.0600	mg/L	3.00	321	95.8	90-110		
Sulfate	14.6	0.300	"	15.0	709	97.3	90-110		

Duplicate (BIB0263-DUP1)

Source: 2501297-01

Prepared: 02/06/25 Analyzed: 02/28/25

Chloride	305	0.0600	mg/L		321			4.94	20
Sulfate	674	0.300	"		709			5.00	20

Matrix Spike (BIB0263-MS1)

Source: 2501297-01

Prepared: 02/06/25 Analyzed: 02/28/25

Chloride	448	0.0600	mg/L	150	321	84.8	80-120		
Sulfate	1440	0.300	"	750	709	97.3	80-120		

Summit Scientific

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Tasman Geosciences
 4725 Independence St.
 Wheat Ridge CO, 80033

Project: PDC - Jerke UP 8-7 Tank Battery

Project Number: [none]
 Project Manager: Bryce Goldade

Reported:
 06/24/25 12:28

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 BIA0990 - General Preparation

Blank (BIA0990-BLK1)

Prepared: 01/22/25 Analyzed: 01/23/25

Total Dissolved Solids ND 10.0 mg/L

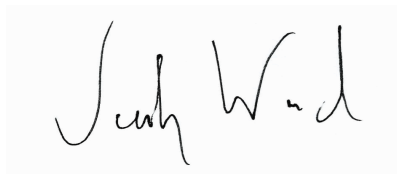
Duplicate (BIA0990-DUP1)

Source: 2501298-01

Prepared: 01/22/25 Analyzed: 01/23/25

Total Dissolved Solids 1090 10.0 mg/L 950 13.7 20

Summit Scientific



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Tasman Geosciences
4725 Independence St.
Wheat Ridge CO, 80033

Project: PDC - Jerke UP 8-7 Tank Battery

Project Number: [none]
Project Manager: Bryce Goldade

Reported:
06/24/25 12:28

Notes and Definitions

JAN	The reported TDS concentration is a qualitative estimate based on Total Anion Value + 10%. This has been adjusted to account for the sum of major anions as measured by ion chromatography.
I-02	Sample was prepared and/or analyzed outside of holding time.
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