

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

June 26, 2025

Bryce Goldade
Tasman Geosciences
4725 Independence St.
Wheat Ridge, CO 80033
RE: PDC - Jerke UP 8-7
Work Order #2504251

Enclosed are the results of analyses for samples received by Summit Scientific on 04/14/25 17:47. 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 SM2540C TDS 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
Project Number: 2020
Project Manager: Bryce Goldade

Reported:
06/26/25 13:22

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BH19	2504251-01	Water	04/14/25 13:13	04/14/25 17:47
BH20	2504251-02	Water	04/14/25 12:49	04/14/25 17:47
BH21	2504251-03	Water	04/14/25 12:52	04/14/25 17:47
BH22	2504251-04	Water	04/14/25 13:20	04/14/25 17:47
BH23	2504251-05	Water	04/14/25 12:26	04/14/25 17:47
BH24	2504251-06	Water	04/14/25 12:21	04/14/25 17:47
BH25	2504251-07	Water	04/14/25 12:00	04/14/25 17:47
BH26	2504251-08	Water	04/14/25 11:37	04/14/25 17:47
BH27	2504251-09	Water	04/14/25 11:02	04/14/25 17:47
BH28	2504251-10	Water	04/14/25 11:07	04/14/25 17:47
BH29	2504251-11	Water	04/14/25 11:33	04/14/25 17:47
BH30	2504251-12	Water	04/14/25 11:58	04/14/25 17:47

Case Narrative

The TDS (SM2540C) analyses were completed outside of 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 05/02/2025 at 10:32 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.

Client: Tasman / PDC	Project Manager: Bryce Goldade	Company: PDC
Address: 4725 Independence St.	E-Mail: tas-chevron-4@tasman-geo.com	Project Name/Location: Jerke up 8-7
City/State/Zip: Wheat Ridge / CO / 80033	E-Mail: RBUEUF27@chevron.com	AFE#:
Phone: 704 231 1819	Project Name: Jerke up 8-7	PO/Billing Codes:
Sampler Name: Emily Lambert	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	HOLD - Dissolved Selenium		
1	BH19	4/14/25	1313	5	3		2		X				X	X	X	X		SAR, EC, pH by saturated paste
2	BH20		1249															
3	BH21		1252															
4	BH22		1320															
5	BH23		1226															
6	BH24		1221															
7	BH25		1200															
8	BH26		1137															
9	BH27		1102															
10	BH28		1107															
11	BH29		1133															
12	BH30		1158															
13																		
14																		
15																		

Relinquished by: [Signature]	Date/Time: 4/14/25 1530	Received by: Tasman Lock Box	Date/Time: 4/14/25 1530	TAT Business Days	Field DO	Notes: All samples hold dissolved selenium analysis
Relinquished by: Tasman Lock Box	Date/Time: 4/14/25 1747	Received by: [Signature]	Date/Time: 4/14/25 1747	Same Day	Field EC	
Relinquished by:	Date/Time:	Received by:	Date/Time:	1 Day	Field ORP	
Relinquished by:	Date/Time:	Received by:	Date/Time:	2 Days	Field pH	
Relinquished by:	Date/Time:	Received by:	Date/Time:	3 Days	Field Temp.	
Temperature Upon Receipt: 1-1	Corrected Temperature: 0	IR gun #: 6	HNO3 lot #:	Standard	<input checked="" type="checkbox"/> Field Turb.	

S₂

S2 Work Order# 2504257

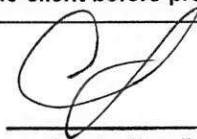
Sample Receipt Checklist

Client: Tawman/poc Client Project ID: Jerke UP 8-7Received Via: H.D./P.U./FedEx/UPS/USPS/Other Airbill #: _____Matrix (Circle all that apply) Air/Soil/Water/Other Temp (°C) 1.1 Thermometer # 1Bottle ware (Circle all that apply) Glass Jar/Yoa/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		-		
<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


Custodian Printed Name9-14-25 20:45
Date/Time



Tasman Geosciences
4725 Independence St.
Wheat Ridge CO, 80033

Project: PDC - Jerke UP 8-7
Project Number: 2020
Project Manager: Bryce Goldade

Reported:
06/26/25 13:22

BH19
2504251-01 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

pHHT1

Date Sampled: **04/14/25 13:13**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	1.0		ug/l	1	BID0895	04/15/25	04/16/25	EPA 8260B	
Toluene	ND	1.0		"	"	"	"	"	"	
Ethylbenzene	1.1	1.0		"	"	"	"	"	"	
Xylenes (total)	8.4	2.0		"	"	"	"	"	"	
Naphthalene	ND	1.0		"	"	"	"	"	"	
1,2,4-Trimethylbenzene	4.9	1.0		"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0		"	"	"	"	"	"	

Date Sampled: **04/14/25 13:13**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	12.7	95.6 %		23-173		"	"	"	"	
Surrogate: Toluene-d8	12.7	95.1 %		20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	13.9	104 %		21-167		"	"	"	"	

Anions by EPA Method 300.0

Date Sampled: **04/14/25 13:13**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chloride	161	0.0600		mg/L	50	BID1088	04/19/25	04/19/25	EPA 300.0	
Sulfate	199	0.300		"	"	"	"	"	"	

Total Dissolved Solids by SM2540C

Date Sampled: **04/14/25 13:13**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Total Dissolved Solids	988	10.0		mg/L	1	BID0930	04/16/25	04/18/25	SM2540C	

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: PDC - Jerke UP 8-7
Project Number: 2020
Project Manager: Bryce Goldade

Reported:
06/26/25 13:22

BH20
2504251-02 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **04/14/25 12:49**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	1.0		ug/l	1	BID0895	04/15/25	04/16/25	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: **04/14/25 12:49**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	14.1	105 %		23-173		"	"	"	"	
Surrogate: Toluene-d8	14.6	110 %		20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	12.9	97.1 %		21-167		"	"	"	"	

Anions by EPA Method 300.0

Date Sampled: **04/14/25 12:49**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chloride	167	0.0600		mg/L	50	BID1088	04/19/25	04/19/25	EPA 300.0	
Sulfate	248	0.300		"	"	"	"	"	"	

Total Dissolved Solids by SM2540C

Date Sampled: **04/14/25 12:49**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Total Dissolved Solids	1090	10.0		mg/L	1	BID0930	04/16/25	04/18/25	SM2540C	

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: PDC - Jerke UP 8-7
Project Number: 2020
Project Manager: Bryce Goldade

Reported:
06/26/25 13:22

BH21
2504251-03 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **04/14/25 12:52**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	1.0		ug/l	1	BID0895	04/15/25	04/16/25	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: **04/14/25 12:52**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	15.1	113 %		23-173		"	"	"	"	
Surrogate: Toluene-d8	14.5	109 %		20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	13.6	102 %		21-167		"	"	"	"	

Anions by EPA Method 300.0

Date Sampled: **04/14/25 12:52**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chloride	189	0.0600		mg/L	50	BID1088	04/19/25	04/19/25	EPA 300.0	
Sulfate	238	0.300		"	"	"	"	"	"	

Total Dissolved Solids by SM2540C

Date Sampled: **04/14/25 12:52**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Total Dissolved Solids	1150	10.0		mg/L	1	BID1014	04/17/25	04/22/25	SM2540C	I-02

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: PDC - Jerke UP 8-7
Project Number: 2020
Project Manager: Bryce Goldade

Reported:
06/26/25 13:22

BH22
2504251-04 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

pHHT1

Date Sampled: **04/14/25 13:20**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	1.0		ug/l	1	BID0895	04/15/25	04/16/25	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: **04/14/25 13:20**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	14.6	110 %		23-173		"	"	"	"	
Surrogate: Toluene-d8	14.1	106 %		20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	13.1	98.5 %		21-167		"	"	"	"	

Anions by EPA Method 300.0

Date Sampled: **04/14/25 13:20**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chloride	164	0.0600		mg/L	50	BID1088	04/19/25	04/19/25	EPA 300.0	
Sulfate	262	0.300		"	"	"	"	"	"	

Total Dissolved Solids by SM2540C

Date Sampled: **04/14/25 13:20**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Total Dissolved Solids	1170	10.0		mg/L	1	BID1014	04/17/25	04/22/25	SM2540C	I-02

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: PDC - Jerke UP 8-7
Project Number: 2020
Project Manager: Bryce Goldade

Reported:
06/26/25 13:22

BH23
2504251-05 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **04/14/25 12:26**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	1.0		ug/l	1	BID0895	04/15/25	04/16/25	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: **04/14/25 12:26**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	14.8	111 %		23-173		"	"	"	"	
Surrogate: Toluene-d8	14.4	108 %		20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	14.8	111 %		21-167		"	"	"	"	

Anions by EPA Method 300.0

Date Sampled: **04/14/25 12:26**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chloride	169	0.0600		mg/L	50	BID1088	04/19/25	04/19/25	EPA 300.0	
Sulfate	248	0.300		"	"	"	"	"	"	

Total Dissolved Solids by SM2540C

Date Sampled: **04/14/25 12:26**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Total Dissolved Solids	972	10.0		mg/L	1	BID1014	04/17/25	04/22/25	SM2540C	I-02

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: PDC - Jerke UP 8-7
Project Number: 2020
Project Manager: Bryce Goldade

Reported:
06/26/25 13:22

BH24
2504251-06 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **04/14/25 12:21**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	1.0		ug/l	1	BID0895	04/15/25	04/16/25	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: **04/14/25 12:21**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	14.3	107 %		23-173		"	"	"	"	
Surrogate: Toluene-d8	13.6	102 %		20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	13.0	97.5 %		21-167		"	"	"	"	

Anions by EPA Method 300.0

Date Sampled: **04/14/25 12:21**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chloride	219	0.0600		mg/L	50	BID1088	04/19/25	04/19/25	EPA 300.0	
Sulfate	290	0.300		"	"	"	"	"	"	

Total Dissolved Solids by SM2540C

Date Sampled: **04/14/25 12:21**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Total Dissolved Solids	1110	10.0		mg/L	1	BID1014	04/17/25	04/22/25	SM2540C	I-02

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: PDC - Jerke UP 8-7
Project Number: 2020
Project Manager: Bryce Goldade

Reported:
06/26/25 13:22

BH25
2504251-07 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **04/14/25 12:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	1.0		ug/l	1	BID0895	04/15/25	04/16/25	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: **04/14/25 12:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	15.0	113 %		23-173		"	"	"	"	
Surrogate: Toluene-d8	14.5	109 %		20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	13.2	99.3 %		21-167		"	"	"	"	

Anions by EPA Method 300.0

Date Sampled: **04/14/25 12:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chloride	234	0.0600		mg/L	50	BID1088	04/19/25	04/19/25	EPA 300.0	
Sulfate	336	0.300		"	"	"	"	"	"	

Total Dissolved Solids by SM2540C

Date Sampled: **04/14/25 12:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Total Dissolved Solids	1100	10.0		mg/L	1	BID1014	04/17/25	04/22/25	SM2540C	I-02

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: PDC - Jerke UP 8-7
Project Number: 2020
Project Manager: Bryce Goldade

Reported:
06/26/25 13:22

BH26
2504251-08 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

pHHT1

Date Sampled: **04/14/25 11:37**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	1.0		ug/l	1	BID0895	04/15/25	04/16/25	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: **04/14/25 11:37**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	14.3	107 %		23-173		"	"	"	"	
Surrogate: Toluene-d8	13.8	103 %		20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	12.9	96.8 %		21-167		"	"	"	"	

Anions by EPA Method 300.0

Date Sampled: **04/14/25 11:37**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chloride	154	0.0600		mg/L	50	BID1088	04/19/25	04/19/25	EPA 300.0	
Sulfate	254	0.300		"	"	"	"	"	"	

Total Dissolved Solids by SM2540C

Date Sampled: **04/14/25 11:37**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Total Dissolved Solids	980	10.0		mg/L	1	BID1014	04/17/25	04/22/25	SM2540C	I-02

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: PDC - Jerke UP 8-7
Project Number: 2020
Project Manager: Bryce Goldade

Reported:
06/26/25 13:22

BH27
2504251-09 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

pHHT1

Date Sampled: **04/14/25 11:02**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	1.0		ug/l	1	BID0895	04/15/25	04/16/25	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: **04/14/25 11:02**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	14.8	111 %		23-173		"	"	"	"	
Surrogate: Toluene-d8	14.6	109 %		20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	18.2	136 %		21-167		"	"	"	"	

Anions by EPA Method 300.0

Date Sampled: **04/14/25 11:02**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chloride	192	0.0600		mg/L	50	BID1088	04/19/25	04/19/25	EPA 300.0	
Sulfate	275	0.300		"	"	"	"	"	"	

Total Dissolved Solids by SM2540C

Date Sampled: **04/14/25 11:02**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Total Dissolved Solids	1110	10.0		mg/L	1	BID1014	04/17/25	04/22/25	SM2540C	I-02

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: PDC - Jerke UP 8-7
Project Number: 2020
Project Manager: Bryce Goldade

Reported:
06/26/25 13:22

BH28
2504251-10 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

pHHT1

Date Sampled: **04/14/25 11:07**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	1.0		ug/l	1	BID0895	04/15/25	04/16/25	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: **04/14/25 11:07**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	14.0	105 %		23-173		"	"	"	"	
Surrogate: Toluene-d8	13.3	99.8 %		20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	12.4	92.9 %		21-167		"	"	"	"	

Anions by EPA Method 300.0

Date Sampled: **04/14/25 11:07**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chloride	460	0.0600		mg/L	50	BID1088	04/19/25	04/19/25	EPA 300.0	
Sulfate	614	0.300		"	"	"	"	"	"	

Total Dissolved Solids by SM2540C

Date Sampled: **04/14/25 11:07**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Total Dissolved Solids	2210	10.0		mg/L	1	BID1014	04/17/25	04/22/25	SM2540C	I-02

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: PDC - Jerke UP 8-7
Project Number: 2020
Project Manager: Bryce Goldade

Reported:
06/26/25 13:22

BH29
2504251-11 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

pHHT1

Date Sampled: **04/14/25 11:33**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	1.0		ug/l	1	BID0895	04/15/25	04/16/25	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: **04/14/25 11:33**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	15.0	113 %		23-173		"	"	"	"	
Surrogate: Toluene-d8	14.5	109 %		20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	13.0	97.7 %		21-167		"	"	"	"	

Anions by EPA Method 300.0

Date Sampled: **04/14/25 11:33**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chloride	282	0.0600		mg/L	50	BID1088	04/19/25	04/19/25	EPA 300.0	
Sulfate	378	0.300		"	"	"	"	"	"	

Total Dissolved Solids by SM2540C

Date Sampled: **04/14/25 11:33**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Total Dissolved Solids	1310	10.0		mg/L	1	BID1014	04/17/25	04/22/25	SM2540C	I-02

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: PDC - Jerke UP 8-7
Project Number: 2020
Project Manager: Bryce Goldade

Reported:
06/26/25 13:22

BH30
2504251-12 (Water)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

pHHT1

Date Sampled: **04/14/25 11:58**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Benzene	ND	1.0		ug/l	1	BID0895	04/15/25	04/16/25	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: **04/14/25 11:58**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Surrogate: 1,2-Dichloroethane-d4	13.7	103 %		23-173		"	"	"	"	
Surrogate: Toluene-d8	14.4	108 %		20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene	14.3	107 %		21-167		"	"	"	"	

Anions by EPA Method 300.0

Date Sampled: **04/14/25 11:58**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Chloride	166	0.0600		mg/L	50	BID1088	04/19/25	04/19/25	EPA 300.0	
Sulfate	217	0.300		"	"	"	"	"	"	

Total Dissolved Solids by SM2540C

Date Sampled: **04/14/25 11:58**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Total Dissolved Solids	923	10.0		mg/L	1	BID1014	04/17/25	04/22/25	SM2540C	I-02

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: PDC - Jerke UP 8-7
Project Number: 2020
Project Manager: Bryce Goldade

Reported:
06/26/25 13:22

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 BID0895 - EPA 5030 Water MS

Blank (BID0895-BLK1)

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

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>	15.2		"	13.3		114		23-173			
<i>Surrogate: Toluene-d8</i>	13.8		"	13.3		104		20-170			
<i>Surrogate: 4-Bromofluorobenzene</i>	9.84		"	13.3		73.8		21-167			

LCS (BID0895-BS1)

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

Benzene	39.0	1.0	ug/l	33.3		117		51-132			
Toluene	37.7	1.0	"	33.3		113		51-138			
Ethylbenzene	36.5	1.0	"	33.3		109		58-146			
m,p-Xylene	68.2	2.0	"	66.7		102		57-144			
o-Xylene	33.3	1.0	"	33.3		100		53-146			
Naphthalene	29.1	1.0	"	33.3		87.3		70-130			
1,2,4-Trimethylbenzene	34.7	1.0	"	33.3		104		70-130			
1,3,5-Trimethylbenzene	35.2	1.0	"	33.3		106		70-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	14.8		"	13.3		111		23-173			
<i>Surrogate: Toluene-d8</i>	13.8		"	13.3		104		20-170			
<i>Surrogate: 4-Bromofluorobenzene</i>	13.5		"	13.3		101		21-167			

LCS Dup (BID0895-BSD1)

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

Benzene	38.1	1.0	ug/l	33.3		114		51-132	2.41	20	
Toluene	37.3	1.0	"	33.3		112		51-138	1.01	20	
Ethylbenzene	37.6	1.0	"	33.3		113		58-146	3.16	20	
m,p-Xylene	64.5	2.0	"	66.7		96.8		57-144	5.53	20	
o-Xylene	37.0	1.0	"	33.3		111		53-146	10.4	20	
Naphthalene	25.6	1.0	"	33.3		76.7		70-130	12.9	20	
1,2,4-Trimethylbenzene	30.0	1.0	"	33.3		90.1		70-130	14.5	20	
1,3,5-Trimethylbenzene	36.5	1.0	"	33.3		109		70-130	3.54	20	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	14.3		"	13.3		107		23-173			
<i>Surrogate: Toluene-d8</i>	13.8		"	13.3		104		20-170			
<i>Surrogate: 4-Bromofluorobenzene</i>	13.8		"	13.3		118		21-167			

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: PDC - Jerke UP 8-7

Project Number: 2020
 Project Manager: Bryce Goldade

Reported:
 06/26/25 13:22

Anions by EPA Method 300.0 - Quality Control
Summit Scientific

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

Batch BID1088 - General Preparation

Blank (BID1088-BLK1)

Prepared & Analyzed: 04/19/25

Chloride	ND	0.0600	mg/L						
Sulfate	ND	0.300	"						

LCS (BID1088-BS1)

Prepared & Analyzed: 04/19/25

Chloride	2.94	0.0600	mg/L	3.00	98.2	90-110		
Sulfate	15.0	0.300	"	15.0	99.7	90-110		

Duplicate (BID1088-DUP1)

Source: 2504251-01

Prepared & Analyzed: 04/19/25

Chloride	166	0.0600	mg/L		161		3.62	20
Sulfate	218	0.300	"		199		9.22	20

Matrix Spike (BID1088-MS1)

Source: 2504251-01

Prepared & Analyzed: 04/19/25

Chloride	297	0.0600	mg/L	150	161	91.3	80-120	
Sulfate	883	0.300	"	750	199	91.3	80-120	

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: PDC - Jerke UP 8-7
Project Number: 2020
Project Manager: Bryce Goldade

Reported:
06/26/25 13:22

Total Dissolved Solids by SM2540C - Quality Control
Summit Scientific

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

Batch BID0930 - General Preparation

Blank (BID0930-BLK1)										
					Prepared: 04/16/25 Analyzed: 04/18/25					
Total Dissolved Solids	ND	10.0	mg/L							
Duplicate (BID0930-DUP1)										
					Source: 2504248-01 Prepared: 04/16/25 Analyzed: 04/18/25					
Total Dissolved Solids	2530	10.0	mg/L		2600			2.73	20	

Batch BID1014 - General Preparation

Blank (BID1014-BLK1)										
					Prepared: 04/17/25 Analyzed: 04/22/25					
Total Dissolved Solids	ND	10.0	mg/L							
Duplicate (BID1014-DUP1)										
					Source: 2504251-03 Prepared: 04/17/25 Analyzed: 04/22/25					
Total Dissolved Solids	1150	10.0	mg/L		1150			0.00	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: PDC - Jerke UP 8-7

Project Number: 2020
Project Manager: Bryce Goldade

Reported:
06/26/25 13:22

Notes and Definitions

- 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.
- 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