Quarterly Recordable Incident Report

This report is required to be submitted under regulation 35(1) of the Petroleum (Environment) Regulations 2016 (the Regulations) and may be published in accordance with regulation 35A(1)(c) of the Regulations. Send the completed form to Onshoregas.DEPWS@nt.gov.au as soon as practicable and in any case no later than 15 days after the end of the reporting period, as referred to in the Onshore Petroleum Incident Reporting Guideline, or as otherwise agreed in writing with the Minister for Environment, Climate Change and Water Security.

Section 1 - Interest Holder Details For petroleum titles held by multiple interest holders, details must be completed for each interest holder. If insufficient room, please attach information to the form. Interest Holder 1 **Interest Holder 2 Interest Holder 3** Interest Holder 4 Company Name Tamboran B2 Pty Ltd Falcon Oil & Gas Australia Limited Nominated interest holder for all matters related to Report? ⊠ Yes ☐ Yes □ Yes □ Yes If 'no' each interest holder must sign Declaration and will receive related documents □ No \bowtie No П № □ No unless designated operator authorised to sign and receive documents Authorisation given to an Operator ⊠ Yes ⊠ Yes □ Yes □ Yes to submit Report and sign □ No □ No П № □ No Declaration? Section 2 - Recordable Incident Report Details **EMP** title Beetaloo Sub-basin Multi-well Drilling, **Unique EMP ID** ORI10-3 Date 15 Oct 2024 Nil report? ☐ Yes (petroleum title/s) Stimulation and Well Testing Program EMP NT-Submitted \boxtimes No 2050-15-MP-0017 - EP 98 & EP 76 Reporting Period¹ 3 Year: 2024 Activity type Multi-well drilling, stimulation and well testing Quarter:

Note 1: Refer to Table 1 of the Onshore Petroleum Incident Reporting Guideline for reporting periods and due dates.



Section 3 – Recordable Incident Details								
Complete this section for each recordable	Complete this section for each recordable incident within the reporting period, by copying the rows below and completing for each individual recordable incident.							
Incident number	INC-0000068							
Incident date	14/08/2024	Incident time	10:00	Date and time interest holder became aware	14/08/2024			
Reg 35(3)(c)(ii): All material facts and circumstances refer to Section 5.4.2 of the Onshore Petroleum Incident Reporting Guideline	approval timefra was the 6th of J The monitoring when received to was conducting regional and sur Contributing to the service prove meaning there ver	On 14 August 2024, Tamboran advised DEPWS of a reporting timeframe outside of ORI10-3 ministerial pproval timeframe associated with Quarterly Groundwater Reporting. The due date of these results was the 6th of July. However, these were not provided until 14 August 2024. The monitoring of groundwater was completed on time; however, the laboratory report was missed when received by the analysing laboratory. Around the timing of the Q2 monitoring event, Tamboran was conducting an extensive amount of monitoring, with the results mixed in with samples from the egional and surface water monitoring programs. Contributing to the incident was the preparation of the report being completed by a separate entity to the service provider who took the samples. A report was only generated upon request by Tamboran, meaning there was greater chance of missing when a laboratory report was issued and the reporting leadline. To address this issue, the monitoring and reporting will be completed by the same entity.						
Did the incident result in an environmental impact or risk not specified in approved EMP?	☐ Yes ☑ No							
Did the incident result in a contravention of a performance standard(s) specified in the approved EMP?	☐ Yes ☑ No	If yes, describe the contravention of environmental perstandard(s)	Supporting information attached ☐ Yes ⊠ No					
Is the incident inconsistent with an environmental outcome(s) specified in the approved EMP?	⊠ Yes □ No	If yes, describe he incident is inconsthe environment.	sistent with	Q2 groundwater reporting timeframe did not meet Ministerial Condition 5ii which requires results of groundwater monitoring to be received no later than 2 months after collection.	Supporting information attached ☑ Yes □ No - Email to DEPWS on 14/08/2024			

Section 3 - Recordable Incident	Details			
			The due date of these results was the 6th of July. However, these were not provided until 14 August 2024 with the Quarterly Groundwater Report.	(including Q2 report)
If the answer to the above questions is 'No	', consider whether th	he incident is a recordable inciden	t.	
Reg 35(3)(c)(iii): Action taken to avoid or mitigate any environmental impacts or risks of the incident refer to Section 5.4.3 of the Onshore Petroleum Incident Reporting Guideline	- The quarterly g	ised DEPWS via email on 14/08 groundwater property was subm in Tamboran's TRACS Incident	nitted	Supporting information attached ☑ Yes □ No - Email to DEPWS on 14/08/2024 (including Q2 report)
Reg 35(3)(c)(ii): Corrective action taken, or proposed, to prevent a similar incident occurring in future refer to Section 5.4.4 of the Onshore Petroleum Incident Reporting Guideline	sampling and re	eporting.	dwater service provider to complete both the orting template and esdat upload to reduce manual	Supporting information attached ☐ Yes ⊠ No

Section 4 - Declaration

A person with legal authority to sign on behalf of the interest holder, or all interest holders (if more than one), must sign the declaration.

I hereby declare that I:

- am authorised to make this declaration.
- confirm that, to the best of my knowledge all information provided addresses the relevant matters and is true, correct, complete, and does not contain misleading information
- am aware that it is an offence under section 107 of the *Petroleum Act 1984* to give an authorised person information that I know, or ought to reasonably know, to be false or misleading in a material manner particular
- understand that all information supplied as part of this form, including attachments, may be disclosed publicly in accordance with regulation 35A of the Petroleum (Environment) Regulations 2016, and consistent with the requirements of the Information Privacy Principles (IPPs) in the *Information Act* 2002.

Section 4 – Declaration				
If report being signed by inter	est holder/s (include attachmer	nt if more room is required to co	omplete the below table)	
	Interest Holder 1	Interest Holder 2	Interest Holder 3	Interest Holder 4
Company Name				
Signature				
Name (print)				
Position				
Date				
Email				
If report being signed by Oper	rator on behalf of interest holde	er/s		
Operator details (if applicable)				
Company Name	Tamboran B2 Pty Ltd	ABN/ACN	42 105 431 525	
Signature	Hum	Address	C/- Tower One, International T Suite 1, Level 39 100 Barangaroo Avenue Barangaroo NSW 2000	owers
Name (print)	Alana Court	Email	alana.court@tamboran.com	
Position	Senior Approvals Manager			

SUPPORTING DOCUMENTS

Alana Court

From: Matt Kernke

Sent: Wednesday, 14 August 2024 4:45 PM

To: Onshoregas DEPWS

Cc:Linda Pugh; Alana Court; Tamboran ContactSubject:Tamboran quarterly groundwater reporting

Attachments: TBN_Labdata_01082024.zip; Q2 24_DEPWS Groundwater results_Beetaloo multiwell.pdf;

Q2 DEPWS Groundwater results_TAM 1_3.pdf

Dear DEPWS,

Please find attached a copy of the Q2 Groundwater monitoring results for TAM 1-3 and ORG 10-3.

We have identified the reporting timeframe for the 10-3 submission to DEPWs is outside of the ministerial approval timeframe. This will be reported as an incident and will be reported as recordable incident. The monitoring was completed, the laboratory report appears to have been missed when it was received by the Laboratory. We had an extensive amount of monitoring being completed at this time, with the results mixed in with samples from our regional and surface water monitoring programs.

We have also included the baseline results collect for ORG 5-4 (Velkerri 76 S2) and SWP 4-3 (Maverick). Please note these were collected prior to the recent correspondence with DEPWs and have not included any rectification associated with laboratory result (i.e. Silica as silicon). The next round of monitoring is planned for late August 2024 and will address the DEPWs comments re: laboratory detection limits and other identified items.

Please let me know if you require any further information.

Kind Regards Matt



14 August 2024

Petroleum Operations
Department of Environment, Parks and Water Security
PO Box 3675
Darwin NT 0801

ATTENTION: Sybille McPhail

Dear DEPWS

Re: Groundwater monitoring results- Beetaloo Sub - Basin Drilling, Stimulation and Well Testing Program Amungee NW1 ORI10-3

While not a requirement of the conditions of approval for the *Beetaloo Sub-basin Multi-well Drilling, Stimulation and Well Testing Program Exploration Permit (EP) 98 & 76 Environment Management Plan ORI10-3,* consistent with the conditions of approval of other Tamboran EMPs for petroleum exploration activities, exceedances of the 75th percentile of background concentrations have been provided for the Amungee NW1 site.

A summary of observed groundwater quality results greater than the 75th percentile of background concentrations have been provided in Table 1.

In addition to the statistical analysis provided herein, a full compilation of water quality monitoring results across Tamboran's activities has been provided with this report.

Table 1 Groundwater quality monitoring result reporting summary

Data required	Tamboran response
The title of the current plan the relevant approval condition the submission of quarterly groundwater data is intended to satisfy	Beetaloo Sub-basin Multi-well Drilling, Stimulation and Well Testing Program Exploration Permit (EP) 98 & 76 Environment Management Plan ORI10-3
Details of the relevant approval condition the notification of any groundwater monitoring results above the interquartile range is intended to satisfy	Self-reporting – not related to approval condition.
Information to demonstrate that the reporting has occurred within the	Groundwater monitoring results that have been collected during the period are submitted to DEPWS quarterly. The monitoring frequency of the groundwater program aligns with the <i>Preliminary Guideline:</i> Groundwater monitoring bores for exploration petroleum wells in the



Data required	Tamboran response					
timeframe specified in the relevant condition	Beetaloo sub-basin. The preliminary guidelines require quarterly groundwater samples to be collected from impact monitoring bores upon completion of hydraulic stimulation.					
	The reporting of this information to the Department has been identified as being outside of the Ministerial condition 5. The requirement was that the results are provided within 2 months of the receival of results. The due date of these results was the 6 th of July. Tamboran will record this as a recordable incident.					
Statement on whether the analytical results are within or outside of natural variability of baseline groundwater quality	The analytical results from the Amungee NW1 Gum Ridge impact monitoring bore (RN043018) have recorded several results outside of the interquartile range.					
Highlighting the data that are above the respective	Eight chemical parameters measured in the impact monitoring bore were identified to exceed the 75 th percentile of background concentrations.					
interquartile range for the relevant groundwater parameter/s	The results of the statistical analysis, identifying the analytes that exceed the 75 th percentile, is provided in Appendix A					
A summary and an analysis of causes for elevated	The 75 th percentile exceedances observed from both impact monitoring bores are considered to be:					
groundwater monitoring results and actions taken to ensure that protection of	within the natural variability based on the hydrogeological conceptualisation of the Cambrian limestone aquifers					
groundwater is maintained	the low absolute concentrations where exceedances occur are within laboratory error ranges.					
	Results of groundwater monitoring confirm no material deterioration in groundwater quality associated with Tamboran's activities.					
The outcome of the risk review undertaken as a	The absolute concentrations where exceedances occur do not materially change the groundwater quality.					
result of the notification, including an updated assessment of the occurrence likelihood and whether this changes the risk ranking.	There is no change to the risk ranking associated with the activity.					

The next monitoring round at this site is anticipated to be completed in August 2023

If you require any further information, please do not hesitate to email me.



Regards

Matt Kernke

Vice President Environment and Approvals

Matt Kernke

E: matt.kernke@tamboran.com M: 0467700565



Appendix A – Statistical analysis of groundwater monitoring results and exceedance discussion

Analyte	RN040894 (BET-MB019) Count Samples	EQL	EQL Units	Output Unit	RN040894 (BET- MB019) 75th percentile	RN043018 (BET- MB027) Concentration as of Last Sample Date 26/04/2024	RN040894 (BET- MB019) to RN043018 (BET- MB027) Ratio	75th Percentile Exceedance	Comment
Acenaphthene	14	1	μg/L	μg/L	<1	<1	NA	Complies	
Acenaphthylene	14	1	μg/L	μg/L	<1	<1	NA	Complies	
Alkalinity (Bicarbonate as CaCO3)	14	1	mg/L	mg/L	405.00	391	0.97	Complies	
Alkalinity (Carbonate as CaCO3)	14	1	mg/L	mg/L	<1	<1	NA	Complies	
Alkalinity (Hydroxide) as CaCO3	14	1	mg/L	mg/L	<1	<1	NA	Complies	
Alkalinity (Total) as CaCO3	14	1	mg/L	mg/L	405.00	391	0.97	Complies	
Anthracene	14	1	μg/L	μg/L	<1	<1	NA	Complies	
Arsenic	14	0.001	mg/L	mg/L	<0.001	<0.001	NA	Complies	
Barium	14	0.001	mg/L	mg/L	0.0780	0.092	1.18	Exceedance	Less than historical maximum. Upward trend from past three samples
Benzo(a)anthracene	14	1	μg/L	μg/L	<1	<1	NA	Complies	
Benzene	14	1	μg/L	μg/L	<1	<1	NA	Complies	
Benzo(a)pyrene	14	0.5	μg/L	μg/L	<0.5	<0.5	NA	Complies	
Benzo(b+j)fluoranthene	14	0.001	μg/L	μg/L	<0.001	<0.001	NA	Complies	
Benzo(g,h,i)perylene	14	1	μg/L	μg/L	<1	<1	NA	Complies	
Benzo(k)fluoranthene	14	1	μg/L	μg/L	<1	<1	NA	Complies	
Boron	14	0.05	mg/L	mg/L	0.160	0.1	0.88	Complies	
C10 - C14 Fraction	14	50	μg/L	μg/L	<50	<50	NA	Complies	
C10 - C16 Fraction	14	100	μg/L	μg/L	<100	<100	NA	Complies	
C10 - C16 Fraction minus Naphthalene (F2)	14	100	μg/L	μg/L	<100	<100	NA	Complies	
C10 - C36 Fraction (Sum)	14	50	μg/L	μg/L	<50	<50	NA	Complies	
C10 - C40 Fraction (Sum)	14	100	μg/L	μg/L	<100	<100	NA	Complies	
C15 - C28 Fraction	14	100	μg/L	μg/L	<100	<100	NA	Complies	
C16 - C34 Fraction	14	100	μg/L	μg/L	<100	<100	NA	Complies	
C29 - C36 Fraction	14	50	μg/L	μg/L	<50	<50	NA	Complies	
C34 - C40 Fraction	14	100	μg/L	μg/L	<100	<100	NA	Complies	
C6 - C10 Fraction	14	20	μg/L	μg/L	<20	<20	NA	Complies	
C6 - C10 Fraction minus BTEX (F1)	14	20	μg/L	μg/L	<20	<20	NA	Complies	
C6 - C9 Fraction	14	20	μg/L	μg/L	<20	<20	NA	Complies	
Cadmium	14	0.0001	mg/L	mg/L	<0.0001	<0.0001	NA	Complies	
Calcium	14	1	mg/L	mg/L	122.00	106	0.87	Complies	
Chloride	14	1	mg/L	mg/L	105.00	123	1.17	Exceedance	Less than historical maximum. Current downward trend.
Chromium (III+VI)	14	0.001	mg/L	mg/L	<0.001	<0.001	NA	Complies	
Chrysene	14	1	μg/L	μg/L	<1	<1	NA	Complies	
Copper	14	0.001	mg/L	mg/L	<0.001	<0.001	NA	Complies	
Dibenz(a,h)anthracene	14	1	μg/L	μg/L	<1	<1	NA	Complies	
Dissolved Oxygen (Field)	0	0.1	mg/L	mg/L	74.70	NA	NA	NA	
Electrical Conductivity (Field)	10	1	μS/cm	μS/cm	1452.75	1362	0.94	Complies	



			I						RESOURCES
Analyte	RN040894 (BET-MB019) Count Samples	EQL	EQL Units	Output Unit	RN040894 (BET- MB019) 75th percentile	RN043018 (BET- MB027) Concentration as of Last Sample Date 26/04/2024	RN040894 (BET- MB019) to RN043018 (BET- MB027) Ratio	75th Percentile Exceedance	Comment
Electrical Conductivity (Lab)	13	1	μS/cm	μS/cm	1167.50	1190	1.02	Exceedance	Very small exceedance. Current downward trend.
Ethane	13	10	μg/L	μg/L	<10	<10	NA	Complies	
Ethylbenzene	14	2	μg/L	μg/L	<2	<2	NA	Complies	
Fluoranthene	14	1	μg/L	μg/L	<1	<1	NA	Complies	
Fluorene	14	1	μg/L	μg/L	<1	<1	NA	Complies	
Fluoride	14	0.1	mg/L	mg/L	0.50	0.5	1	Complies	
Gross alpha activity	11	0.05	Bq/L	Bq/L	0.388	0.350	0.9	Complies	
Gross beta activity (excluding activity of K-40)	11	0.1	Bq/L	Bq/L	0.18	0.190	1.07	Exceedance	Less than historical maximum. Most recent sample less than previous result.
Indeno(1,2,3-c,d)pyrene	14	1	μg/L	μg/L	<1	<1	NA	Complies	
Iron	14	0.05	mg/L	mg/L	1.400	0.73	0.52	Complies	
Lead	14	0.001	mg/L	mg/L	<0.001	<0.001	NA	Complies	
Lithium	13	0.001	mg/L	mg/L	0.0558	0.043	0.77	Complies	
Magnesium	14	1	mg/L	mg/L	48.00	45	0.94	Complies	
Manganese	14	0.001	mg/L	mg/L	0.1040	0.148	1.42	Exceedance	Less than historical maximum. Likely to relate to casing corrosion product.
Mercury	14	0.0001	mg/L	mg/L	<0.0001	<0.0001	NA	Complies	
Methane	13	10	μg/L	mg/L	0.010	0.012	1.2	Exceedance	Less than historical maximum. Previous samples <lor, 2x="" current="" detection="" less="" lor.<="" td="" than="" with=""></lor,>
Naphthalene	14	1	μg/L	μg/L	<1	<1	NA	Complies	
Nitrate (as N)	14	0.01	mg/L	mg/L	0.020	<0.01	NA	Complies	
Nitrite (as N)	14	0.01	mg/L	mg/L	<0.01	<0.01	NA	Complies	
Nitrite + Nitrate (as N)	5	0.01	mg/L	mg/L	0.025	<0.01	NA	Complies	
pH (Lab)	13	0.01	pH Unit	pH_Units	7.540	7.23	0.96	Complies	
pH (Field)	12	0.01	pH Unit	pH_Units	6.775	7.62	1.12	Exceedance	Increasing trend however pH remains circumneutral and within expected range for natural groundwater 6.5 - 8.5)
Phenanthrene	14	1	μg/L	μg/L	<1	<1	NA	Complies	
Potassium	14	1	mg/L	mg/L	10.00	26.00	2.6	Exceedance	Less than historical maximum. No upward trend.
Propane	13	10	μg/L	mg/L	0.010	0.01	1	Complies	
Pyrene	14	1	μg/L	μg/L	<1	<1	NA	Complies	
Selenium	14	0.01	mg/L	mg/L	<0.01	<0.01	NA	Complies	
Silicon as Si	12	0.05	mg/L	mg/L	14500.000	13400	0.92	Complies	
Silver	14	0.001	mg/L	mg/L	<0.001	<0.001	NA	Complies	
Sodium	14	1	mg/L	mg/L	69.00	66	0.96	Complies	



Analyte	RN040894 (BET-MB019) Count Samples	EQL	EQL Units	Output Unit	RN040894 (BET- MB019) 75th percentile	RN043018 (BET- MB027) Concentration as of Last Sample Date 26/04/2024	RN040894 (BET- MB019) to RN043018 (BET- MB027) Ratio	75th Percentile Exceedance	Comment
Strontium	14	0.001	mg/L	mg/L	0.6710	0.6	0.87	Complies	
Sulphate as SO4	5	1	mg/L	mg/L	135.00	124	0.92	Complies	
Sum of BTEX	14	1	μg/L	μg/L	<1	<1	NA	Complies	
Suspended Solids	14	5	mg/L	mg/L	6.00	<5	NA	Complies	
Temperature (Field)	11	0.1	°C	°C	35.50	31.6	0.89	Complies	
Toluene	14	2	μg/L	μg/L	<2	<2	NA	Complies	
Total Dissolved Solids	14	10	mg/L	mg/L	736.000	696	0.95	Complies	
Total Reportable PAH	13	0.5	μg/L	μg/L	<0.5	<0.5	NA	Complies	
Xylene (m & p)	14	2	μg/L	μg/L	<2	<2	NA	Complies	
Xylene (o)	14	2	μg/L	μg/L	<2	<2	NA	Complies	
Xylene Total	14	2	μg/L	μg/L	<2	<2	NA	Complies	
Zinc	14	0.005	mg/L	mg/L	0.0120	0.01	0.58	Complies	

Actions



Notification

Incident Number Reported By

INC-0000068 Court, Alana, Senior Approvals Manager

Reported Date Reported Time

14/08/2024 10:00

Incident Date Incident Time

14/08/2024 10:00

Controlled or Monitored

Controlled

Summary

ORI10-3 EMP Ministerial Condition 5ii breached due to failure to submit Q2 laboratory report within 2 months following sample collection.

Detailed Description

Tamboran identified that missed Q2 laboratory report submission to DEPWS. Resulting in a non-conformance of Ministerial Condition 5ii. Submission of the laboratory reports were due 6 July 2024, however were not provided until 14 August 2024.

Immediate Action Taken

Compilation of laboratory reports and submitted to DEPWS, noting that will raise as a recordable incident.

Latitude Longitude -16.3472 133.8858

Detailed Location

Amungee NW1 Gum Ridge impact monitoring bore (RN043018)

Location

Australia\Northern Territory\EP 98\Amungee NW Well Site

Department Responsible

Tamboran\Strategy and Sustainability\Environment and Approvals

Responsible Supervisor

Kernke, Matt, Vice President, Environment and Approvals

Incident Details

Actual Consequence

All Consequences of the Incident

Environmental

Click here for help on how to complete the Actual and Potential Severity

Minor Minor

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Potential Consequence

Actions



Is it Regulatory Non-Compliance

Yes

People to Notify

Last Name	First Name	Position Title
Court	Alana	Senior Approvals Manager

Companies Involved

-

Witnesses

-

Witnesses, if not in list

DEPWS Environmental Assessment Officer

Environmental

Environmental

Ecological Feature	Impact Initiating Event
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Groundwater Other - e.g. compliance infraction

Contaminants

Contaminant Type

<Undefined>

Volume Released (number) Unit

Volume Recovered (number) Unit

-

Area/Distance

Area Impacted (number) Unit

-

Distance from Sensitive Area (number) Unit

-

Sensitivity Type - Area Sensitivity Type - Other

Flora/Fauna

Species Impacted Number

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Actions



Common Name

Listed Species?

No

No

Rarity

<Undefined>

Comment

Vegetation Community

Pest - Weed Type

Detail Submission

Is an Investigation Required?

Is this incident externally reportable?

No

Person signing off

Interested Stakeholders

Actions

Actions

Action

Action Number Date Raised ACT-0000478 15/10/2024

Assigned By Due Date Court, Alana, Senior Approvals Manager 20/10/2024

Assigned To Have you spoken to this person?

Kernke, Matt, Vice President, Environment and Approvals

Action Source Incident/Event Management

Action Summary

Q3 laboratory reports to be supplied in October 2024. Noting sampling completed in August 2024.

Yes

Priority

High

Action Description

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Actions



Action Progress

_

Supporting Documentation

File Storage

-

Action Completion

Completion Category

_

Completed By

Completion Date

-

Completion Comments

-

Supporting Documentation

File Storage



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