

Annual Environmental Performance Report

EMP title	Beetaloo Sub-Basin Kyalla 117 Multi-Well Drilling, Hydraulic Fracturing and Well Testing Program EMP
Unique EMP ID	ORI6-3
EMP approval date	22 February 2021
AEPR period	23 February 2023 – 22 February 2024
Petroleum title number/s	EP 117

The information to be included in this template may be used by the Minister for Environment, Climate Change and Water Security to assess whether an interest holder is meeting the environmental outcomes, environmental performance standards and obligations and commitments made in an approved Environment Management Plan (EMP).

This form must be completed in accordance with the instruction and guidance provided in the Onshore Petroleum Annual Environmental Performance Reporting Guideline available on the [Onshore Gas website](#).

Document title	Annual Environmental Performance Report
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Version Control (to be completed by interest holder)


Date	Rev	Reason for Amendment	Author	Checked	Approved
22 May 2024	0	Issued for approval	L Pugh	M Kernke	M Kernke

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 section 62A of the *Petroleum Act 1984*, and consistent with the requirements of the Information Privacy Principles (IPPs) in the *Information Act 2002*.

Signature	
Name of person signing on behalf of interest holder/s	Matt Kerneke
Position	Vice President Environment and Approvals
Company	Tamboran B2 Pty Ltd ABN 42 105 431 525
Address	C/- Tower One, International Towers Suite 1, Level 39 100 Barangaroo Avenue Barangaroo NSW 2000

Acronyms / Terms	Definition
AEPR	Annual Environmental Performance Report
Code	Code of Practice: Onshore Petroleum Activities in the Northern Territory
DEPWS	Department of Environment, Parks and Water Security (NT)
DITT	Department of Industry, Tourism and Trade (NT)
EMP	Environment Management Plan
EP	Exploration Permit
Interest Holder	Means a person who holds a petroleum interest for a regulated activity.
Minister	Minister for Environment, Climate Change and Water Security
NT	Northern Territory
Operator	Means a person designated as operator under section 16(3)(g) of the <i>Petroleum Act 1984</i>
Regulations	Petroleum (Environment) Regulations 2016 (NT)

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1. Introduction

The Petroleum (Environment) Regulations 2016 (NT) (the Regulations) require an interest holder to provide a report to the Minister for Environment, Climate Change and Water Security (the Minister) on no less than an annual basis that outlines the environmental performance of the interest holder.¹ The report, termed the Annual Environmental Performance Report (AEPR), must include sufficient information to allow the Minister to assess whether the interest holder has met the environmental outcomes and environmental performance standards included in the approved Environment Management Plan (EMP) with reference to information required to be recorded, monitored or reported under the Regulations and any other law in force in the NT related to the conduct of the regulated activity.

Approved Environment Management Plan Details	
EMP title	Beetaloo Sub-Basin Kyalla 117 Multi-Well Drilling, Hydraulic Fracturing and Well Testing Program
Unique EMP ID	ORI6-3
EMP approval date	22 February 2021
AEPR period	23 February 2023 – 22 February 2024
Petroleum title number/s	EP 117
Regulation 22 Notices (insert more rows if needed)	
Date Acknowledged	
1 August 2023	ORI6-3.1 Regulation 22: new drilling and stimulation chemicals; and, to amend the target formation for exploration wells Shenandoah S-1H and Shenandoah S-2H (formally Kyalla N2-2H and Kyalla N2-3H, respectively).
20 September 2023	ORI6-3.2 Regulation 22: addition of sodium hypochlorite.
Regulation 23 Notices (insert more rows if needed)	
Date Acknowledged	N/A
Location of Regulated Activity	
<input checked="" type="checkbox"/>	Figure attached showing location of regulated activity
Regulated activities conducted during the reporting period (list regulated activities conducted, add or remove rows as required)	
1	Drilling, DFIT, HFS & well testing of the Shenandoah S-1H
2	Ongoing site operational maintenance and management
<input checked="" type="checkbox"/>	Gantt chart attached showing the period each regulated activity listed above was conducted

¹ Petroleum (Environment) Regulations 2016 (NT) sch 1, item 11.

1.1. Sources of information to inform performance

Information evaluated to inform compliance status (check applicable sources)	
<input checked="" type="checkbox"/>	Compliance with Ministerial approval conditions
<input checked="" type="checkbox"/>	Compliance with each environmental outcome and environmental performance standard within the approved EMP
<input checked="" type="checkbox"/>	Compliance with reporting requirements in accordance with the Code and Regulations
<input checked="" type="checkbox"/>	Recordable and reportable incidents within the reporting period, including root cause analysis and related corrective actions to prevent re-occurrence
<input checked="" type="checkbox"/>	Findings of regulatory inspections and audits within the reporting period and related actions to address any findings
Other	

1.2. Performance indicators

Table 1 shows the performance status indicators used in this AEPR.

Table 1: Performance descriptors

Performance Status	Description
Compliant	Compliant with requirement for entire 12 month reporting period
Not Compliant	Interest holder did not comply with the requirement fully or at all during the reporting period
Not Applicable	Requirement not applicable during the reporting period

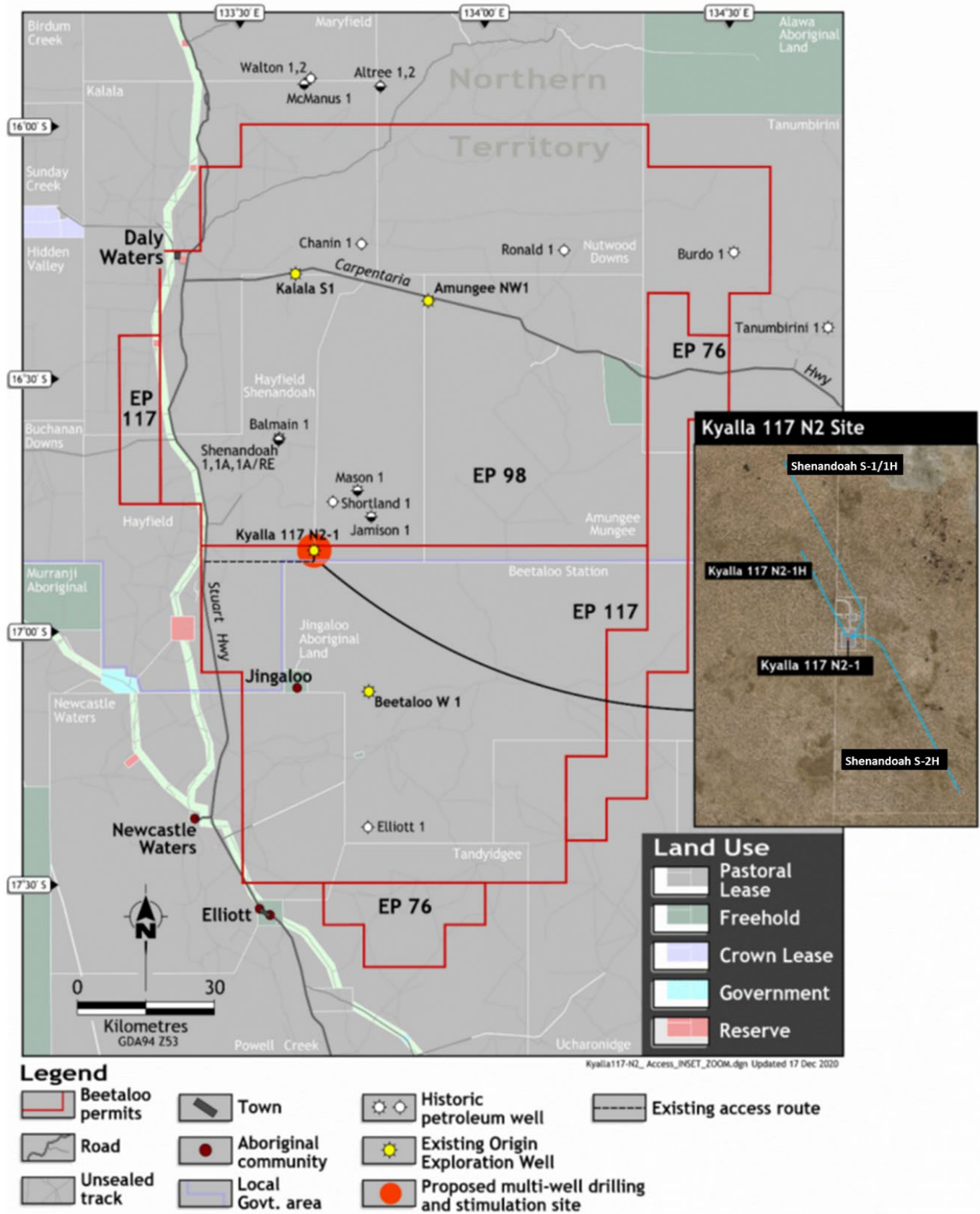


Figure 2: Beetaloo Kyalla 117 N2 Multi-well drilling, stimulation and well testing location

2. Demonstration of performance

Table 2 demonstrates interest holder compliance with Ministerial EMP approval conditions. Table 2 has been populated to provide examples of information to be included.

Table 2: Compliance with Ministerial approval conditions

No	Ministerial Condition	Compliant	Evidence
1.	<p>The interest holder must submit to the Department of Environment, Parks and Water Security (DEPWS):</p> <ol style="list-style-type: none"> 1. A timetable (including time- bound commitments) for the regulated activity prior to the commencement of the activity and each quarter thereafter; and 2. Daily onsite reports indicating the status of progress of vegetation clearing and drilling, and the freeboard available in drilling sumps and wastewater tanks during operations; and 3. Five day activity forecast for the duration of the activity during the wet season (1 October – 30 April each year); and 4. Written notification of any halt to the activity due to wet season conditions, within 24 hours of the halt; and 5. Immediate notification of any fires potentially threatening the activity from external or internal sources. 	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<p>The following information has been provided throughout the year to DEPWS:</p> <ul style="list-style-type: none"> - 12/07/23: Notification of commencement of drilling, effective 1 August 2023 of the Shenandoah S-1H well. - 31/07/23: Ministerial condition 1 of ORI 6-3- breakdown of activities - 31-Jul-23 – 03-Sep-23: Daily drilling reports (vertical) 1 – 33 - 04-Sep-23 – 17-Sep-23: Daily drilling reports (horizontal) 1 – 14 - 24/08/23: Status update of the Shenandoah S-1H well. - 1/10/23 – 7/10/23: Daily reporting and 5-day forecasts sent during DFIT - Monthly activity reports: 20/02/23; 23/03/23; 22/04/23; 22/05/23; 27/06/23; 31/07/23; 24/08/23; 22/09/23; 30/10/23; 23/11/23; 22/12/23; 30/01/24; 28/02/24 <ul style="list-style-type: none"> - Flow testing occurred 25-Jan-24 – 24-Apr-24 - 27-Sep-23: Annual fire mapping submitted using the NAFI database. No fires considered a threat were reported on EP 117 during the reporting period. One planned backburn around the Kyalla 117 N2 site by the pastoralist (Oct-Nov), this was a controlled activity and not considered a threat. - Weekly ongoing wastewater reporting submitted to DEPWS.

No	Ministerial Condition	Compliant	Evidence
2.	<p>In the event of any accidental release (overflow, failure, spill or leak) to ground of flowback fluid wastewater that exceeds 200 Litres, the interest holder must provide a written report to DEPWS, via Onshoregas.DEPWS@nt.gov.au, as follows:</p> <p>i. within 24 hours provide a written report with details of the incident specifying the material facts and actions taken to avoid or mitigate environmental harm; and</p> <p>ii. after the incident was detected. The report must contain:</p> <p>a) The volume of impacted soil removed for appropriate disposal and the depth of any associated excavations; and</p> <p>b) The corrective actions taken or proposed to be taken to prevent recurrence of an incident of a similar nature.</p>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<p>No reportable incidents of flowback over 200 L were recorded under this EMP during the reporting period, as demonstrated by the monthly reporting submitted to DEPWS:</p> <ul style="list-style-type: none"> • 20 February 2023 • 23 March 2023 • 22 April 2023 • 22 May 2023 • 27 June 2023 • 31 July 2023 • 24 August 2023 • 22 September 2023 • 30 October 2023 • 23 November 2023 • 22 December 2023 • 30 January 2024 • 28 February 2024
3.	<p>The interest holder must provide to DEPWS an annual report to DEPWS via Onshoregas.DEPWS@nt.gov.au on its environmental performance, in accordance with item 11(1(b)) of the Petroleum (Environment) Regulations 2016. The first report must cover the 12 month period date of the approval, and be provided within 3 calendar months of the end of the reporting period. The annual environmental performance report must align with the template prepared by DEPWS for this purpose.</p>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<p>The interest holder has prepared this AEPR for the reporting period 23 February 2023 – 22 February 2024, inclusive.</p>
4.	<p>An emissions report must be provided to DEPWS by 30 September each year via Onshoregas.DEPWS@nt.gov.au, which summarises actual annual greenhouse gas emissions reported</p>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<p>The annual emissions report was submitted to DEPWS 27 September 2023. Then next report is due on or before 30 September 2024.</p>

No	Ministerial Condition	Compliant	Evidence
	under the Commonwealth <i>National Greenhouse and Energy Reporting Act 2007</i> versus predicted emissions in the EMP.	<input type="checkbox"/> N/A	
5.	<p>The interest holder must provide to DEPWS within 6 weeks of completion of well flowback operations at the Kyalla N2 well site on EP 117, a report on the risk assessment of flowback wastewater from the hydraulic fracturing phase. The risk assessment must be:</p> <ul style="list-style-type: none"> i. prepared by a suitably qualified person; and ii. prepared in accordance with the monitoring wastewater analytes specified in section C.3 of the Code of Practice: Onshore Petroleum Activities. 	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	Flowback was completed on 24 April 2024. The report will be submitted on, or before 5 June 2024.

Table 3 provides a systematic overview of interest holder performance against the environmental outcomes and environmental performance standards within the approved EMP.

Table 3: Compliance with environmental outcomes and environmental performance standards

No	Environmental Outcome	Environmental Performance Standard	Compliant	Evidence
1.	No significant impact to the ecological function and productivity of soils surrounding Kyalla 117 N2 as a result of Tamboran's exploration activities.	No releases of contaminants (chemicals, hydrocarbon, drilling wastewater or flowback wastewater) outside of Tamboran's lease pad.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	No releases of contaminants off the well pad during the reporting period, as demonstrated by monthly reporting submitted to DEPWS: <ul style="list-style-type: none"> • 20 February 2023 • 23 March 2023 • 22 April 2023 • 22 May 2023 • 27 June 2023 • 31 July 2023 • 24 August 2023 • 22 September 2023 • 30 October 2023 • 23 November 2023 • 22 December 2023 • 30 January 2024 • 28 February 2024.
2.		No reportable spills, including wastewater tank/sump overtopping events, resulting from Tamboran's exploration activities.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	No reportable spills during the reporting period, as demonstrated by monthly reporting submitted to DEPWS: <ul style="list-style-type: none"> • 20 February 2023 • 23 March 2023 • 22 April 2023 • 22 May 2023

No	Environmental Outcome	Environmental Performance Standard	Compliant	Evidence
				<ul style="list-style-type: none"> • 27 June 2023 • 31 July 2023 • 24 August 2023 • 22 September 2023 • 30 October 2023 • 23 November 2023 • 22 December 2023 • 30 January 2024 • 28 February 2024.
3.		Erosion and sediment control in place and working effectively.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<ul style="list-style-type: none"> • A current erosion and sediment control plan is in place for the site. • Site stability inspection completed in May 2023. • Site inspections also occurred on 20-Dec-2023 and 10-Feb-2024. • The site remains stable.
4.	No significant impact on surface water quality as a result of Tamboran's exploration activities void and minimise the potential contamination caused by the discharge of sediment or contaminated storm water to waterways or established drainage systems.	During chemical and wastewater storage activities, no off-site release of contaminants from chemical, hydrocarbon and waste storage.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<p>No release of contaminants outside the well pad were recorded during the reporting period, as demonstrated by recordable incident records submitted to DEPWS:</p> <ul style="list-style-type: none"> • Q1 2023 report - 13 April 2023 • Q2 2023 report - 14 July 2023 • Q3 2023 report - 13 October 2023 • Q4 2023 report - 15 January 2024 • Q1 2023 report - 12 April 2024

No	Environmental Outcome	Environmental Performance Standard	Compliant	Evidence
5.		No seismic events over Ml 3.5 attributable to Tamboran's activities.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<ul style="list-style-type: none"> Monitoring occurred 27-Oct-23 – 5-Jan-24; well stimulation activities were conducted 25-Nov-23 – 5-Dec-23. No record of any seismic events attributed to Tamboran's activities. Final report submitted to DITT on 14 March 2024.
6.		No reportable spills, including offsite releases of contaminants resulting from Tamboran's exploration activities.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<p>No reportable releases of contaminants, as demonstrated by monthly reporting submitted to DEPWS:</p> <ul style="list-style-type: none"> 20 February 2023 23 March 2023 22 April 2023 22 May 2023 27 June 2023 31 July 2023 24 August 2023 22 September 2023 30 October 2023 23 November 2023 22 December 2023 30 January 2024 28 February 2024.
7.		Erosion and sediment control in place and working effectively.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<ul style="list-style-type: none"> A current erosion and sediment control plan is in place for the site. Site stability inspection completed in May 2023.

No	Environmental Outcome	Environmental Performance Standard	Compliant	Evidence
				<ul style="list-style-type: none"> Site inspections also completed on 20-Dec-2023, 21-Jan 2024 and 10-Feb-2024. The site remains stable.
8.	Tamboran's exploration activities do not reduce the environmental values of the underlying groundwater resources.	All regional aquifers isolated through cement and casing.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	DFIT well barrier report submitted to DITT on 18 October 2023.
9.		No failure of wastewater tank secondary liner.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	No failure of wastewater tank secondary liner recorded during the reporting period under this EMP, as demonstrated by monthly reporting submitted to DEPWS: <ul style="list-style-type: none"> 20 February 2023 23 March 2023 22 April 2023 22 May 2023 27 June 2023 31 July 2023 24 August 2023 22 September 2023 30 October 2023 23 November 2023 22 December 2023 30 January 2024 28 February 2024.
10.		No seismic events over MI 3.5 attributable to Tamboran's activities.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<ul style="list-style-type: none"> Monitoring occurred 27-Oct-23 – 5-Jan-24; well stimulation activities were conducted 25-Nov-23 – 5-Dec-23.

No	Environmental Outcome	Environmental Performance Standard	Compliant	Evidence
				<ul style="list-style-type: none"> No record of any seismic events attributed to Tamboran's activities. Final report submitted to DITT on 14 March 2024.
11.	No long term (>12 month) reduction in groundwater level observed in the impact monitoring bore that results in >1m decline in groundwater water level.	No long-term (>12 month) reduction in quality of an impact groundwater monitoring bore that is attributable to Tamboran's activities. A decline is defined as a change in water chemistry that exceeds the ANZECC guidelines for Livestock (the primary Environmental Value) of groundwater in the region.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	Quarterly groundwater monitoring provided to DEPWS on: <ul style="list-style-type: none"> 01-Jan-2023 Q1 13-Jun-2023 Q2 25-Sep-2023 Q3 15-Dec-2023 Q4 23-Mar-2024 Q1
12.	No significant impact to high valued habitats and threatened flora and fauna as a result of Tamboran's exploration activities.	No releases of wastewater (drilling fluid and flowback) off the lease into the surrounding vegetation.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	No release of contaminants outside the well pad were recorded during the reporting period, as demonstrated by recordable incident records submitted to DEPWS: <ul style="list-style-type: none"> Q1 2023 report – 13 April 2023 Q2 2023 report – 14 July 2023 Q3 2023 report – 13 October 2023 Q4 2023 report – 15 January 2024 Q1 2023 report – 12 April 2024.
13.		<7 individual fauna deaths per week for 2 consecutive weeks caused by flowback water storage.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	No recordable incidents resulting in fauna deaths recorded during the reporting period, as demonstrated by recordable incident records submitted to DEPWS: <ul style="list-style-type: none"> Q1 2023 report – 13 April 2023

No	Environmental Outcome	Environmental Performance Standard	Compliant	Evidence
				<ul style="list-style-type: none"> • Q2 2023 report - 14 July 2023 • Q3 2023 report - 13 October 2023 • Q4 2023 report - 15 January 2024 • Q1 2023 report - 12 April 2024.
14.		<0 threatened fauna deaths caused by flowback storage.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<p>No recordable resulting in fauna deaths recorded during the reporting period, as demonstrated by recordable incident records submitted to DEPWS:</p> <ul style="list-style-type: none"> • Q1 2023 report - 13 April 2023 • Q2 2023 report - 14 July 2023 • Q3 2023 report - 13 October 2023 • Q4 2023 report - 15 January 2024 • Q1 2023 report - 12 April 2024. <p>No reportable incidents of fauna deaths recorded during the reporting period, as demonstrated by monthly reporting submitted to DEPWS:</p> <ul style="list-style-type: none"> • 20 February 2023 • 23 March 2023 • 22 April 2023 • 22 May 2023 • 27 June 2023 • 31 July 2023 • 24 August 2023 • 22 September 2023 • 30 October 2023

No	Environmental Outcome	Environmental Performance Standard	Compliant	Evidence
				<ul style="list-style-type: none"> • 23 November 2023 • 22 December 2023 • 30 January 2024 • 28 February 2024.
15.		No uncontrolled bushfires caused by Tamboran's exploration activities.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<ul style="list-style-type: none"> • 27-Sep-23: Annual fire mapping submitted using the NAFI database. • Fires reported on EP 117 during the reporting period in October and November monthly reporting. One planned backburn by the pastoralist around Kyalla 117 N2; this was a controlled activity and not considered a threat. • NAFI fire scars provided as Appendix A.
16.		Weed surveys completed on all Tamboran disturbed areas.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<ul style="list-style-type: none"> • Annual weed report submitted to DEPWS on 15 December 2023. • Weed surveys completed on the Kyalla 117 N2 site, access tracks and gravel pits SSGP1 and SSGP2 were conducted in May 2023. • Site inspections also completed on 20-Dec-2023 and 10-Feb-2024. • The site remains weed free.
17.		Year-on-year decline in the size and density of all weed infestations introduced as a result of Tamboran's activities.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	Refer above, item 16. The site remains weed free.
18.	No significant impact on air quality and no excess greenhouse gas	Venting to be eliminated as far as reasonably practicable	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	All gas produced was flared during the well test. All venting was of rates not technically possible to flare and considered incidental.

No	Environmental Outcome	Environmental Performance Standard	Compliant	Evidence
	emissions as a result of Tamboran's exploration activities.		<input type="checkbox"/> N/A	
19.		All greenhouse gasses reporting in accordance with NGERs requirements	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	The annual emissions report submitted to DEPWS 27 September 2023.
20.		All leaks detected and repaired in accordance with code of practice	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	This is a new well and was undergoing well testing.
21.	No significant negative impacts to the community as a result of Tamboran's exploration activities.	All valid community complaints of nuisance investigated and resolved	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	No complaints from stakeholders recorded during the reporting period, as demonstrated by quarterly incident reporting submitted to DEPWS: <ul style="list-style-type: none"> • Q1 2023 report - 13 April 2023 • Q2 2023 report - 14 July 2023 • Q3 2023 report - 13 October 2023 • Q4 2023 report - 15 January 2024 • Q1 2024 report - 12 April 2024.
22.		>60% of addressable spend to be from NT businesses	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	All services (including 6-monthly gas detection, weed inspections, site inspections, etc.) completed by local businesses. Since 2021, the Beetaloo Joint Venture has over \$800,000 with local Indigenous business - this excludes wages from local employees.

Table 4 demonstrates interest holder compliance with reporting requirements in the *Code of Practice: Onshore Petroleum Activities in the Northern Territory* (Code) and interest holder's compliance with reporting and monitoring requirements under the Petroleum (Environment) Regulations 2016 (NT) schedule 1, item 11(2), which requires the EMP to include all information required to be recorded, monitored or reported. Where relevant, Table 4 confirms that all records, monitoring or required reporting under the Petroleum (Environment) Regulations 2016 (NT),² or under a commitment made in the EMP, has been provided to DEPWS or the relevant NTG agency.

Table 4: Compliance with mandatory monitoring and reporting requirements

No	Reference	Requirement	Compliant	Evidence
1.	Code cl A.3.5	Geospatial information depicting areas cleared is to be provided to the Minister.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<p>GIS data of disturbance submitted to DEPWS in accordance with EMP approval.</p> <p>Spatial data submitted again to DEPWS on 6 March 2024, as part of a DEPWS clearing audit request.</p>
2.	Code cl A.3.6 (b)	Weed management plan developed as part of the EMP must provide for ongoing weed monitoring.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<ul style="list-style-type: none"> Annual weed report submitted to DEPWS on 15 December 2023. Weed surveys completed on the Kyalla 117 N2 site, access tracks and gravel pits SSGP1 and SSGP2 were conducted in May 2023. Site inspections also completed on 20-Dec-2023 and 10-Feb-2024. The site remains weed free.
3.	Code cl A.3.7(a)vi	The fire management plan must provide for annual fire mapping.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<ul style="list-style-type: none"> 27-Sep-23: Annual fire mapping submitted using the NAFI database. Fires reported on EP 117 during the reporting period in October and November monthly reporting. One planned backburn by the pastoralist

² Petroleum (Environment) Regulations 2016 (NT) sch 1, item 11(2).

No	Reference	Requirement	Compliant	Evidence
				around the Kyalla 117 N2 site; this was a controlled activity and not considered a threat. <ul style="list-style-type: none"> NAFI fire scars provided as Appendix A.
4.	Code cl A.3.9(c) Code cl A.3.9(e)	The rehabilitation plan requires progressive rehabilitation of significantly disturbed land which is required to commence no longer than 12 months following the cessation of activities on the land. It also requires regular maintenance and annual monitoring of rehabilitated areas.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<p>A rehabilitation plan was submitted to DEPWS in accordance with EMP approval.</p> <p>No rehabilitation activities have occurred on site during the reporting period.</p>
5.	Code cl B.4.13.2(c)	<p>As a minimum, the following must be recorded and reported for each stage (where a stage in this context means all fluids pumped at a particular depth interval):</p> <p>a) total volume of hydraulic fracturing fluid pumped,</p> <p>b) quality of water used (tested for analytes in section C.8 of this Code. Analyses do not need to be repeated if the same water source is used for multiple stages), and</p> <p>c) typical and maximum concentrations of chemicals or other substances used.</p>	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	Flowback commenced on 25 January 2024. The report is due to the minister on or before 26 July 2024.
6.	Code cl B.4.13.2(k)iv	Where venting is the only technically feasible option for managing produced gas, the technical considerations preventing the use of the recovered gas must be recorded and included in the operator's annual report.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	No gas was vented during well testing of the Shenandoah S1-1H well.
7.	Code cl B.4.14.2(c)	All new barriers or new well operating envelopes must be verified and clearly	<input checked="" type="checkbox"/> Yes	DFIT well barrier report submitted to DITT on 18 October 2023.

No	Reference	Requirement	Compliant	Evidence
		documented and reported by submission of an updated well barrier integrity validation (WBIV) report to DITT.	<input type="checkbox"/> No <input type="checkbox"/> N/A	
8.	Code cl B.4.15.2(j)	Complete and accurate records of the entire decommissioning procedure must be kept, with these records submitted as part of the legislative reporting requirements for the decommissioning of petroleum wells.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	No decommissioning activities have been undertaken during the reporting period.
9.	Code cl C.6.1(d)	Wastewater tracking documentation must be reported to the Minister at least annually in accordance with the framework (Spill Management Plan and Wastewater Management Plan) outlined in the EMP	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	A wastewater management plan was submitted to DEPWS in accordance with EMP approval and remains in effect. No wastewater tracking against this EMP during the reporting period.
10.	Code cl C.7.1(d)ii	Wastewater Management Plan must include a program for monitoring and reporting against the effectiveness of the measures for the mitigation of interaction with wildlife, stock and human receptors with wastewater.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	A wastewater management plan was submitted to DEPWS in accordance with EMP approval and remains in effect.
11.	Code cl D.5.9.2(c)	Emissions from exploration, well construction (including during flowback) and workovers must be measured and reports submitted.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	The annual emissions report submitted to DEPWS 27 September 2023.
12.	Code cl D.5.9.3(a)	Where natural gas is vented or flared at a gas processing or other downstream facility, emissions must be estimated and reported.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	This condition is associated with a larger field development program.

No	Reference	Requirement	Compliant	Evidence
13.	Reg 33	<p>DEPWS must be notified of reportable incidents within 2 hours of the interest holder becoming aware of the incident, or within 2 hours of the incident occurring.</p> <p>A written report must be provided within 24 hours if the initial report was made orally.</p>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<p>No reportable incidents have been recorded against the EMP during the reporting period, as demonstrated by monthly reporting submitted to DEPWS:</p> <ul style="list-style-type: none"> • 20 February 2023 • 23 March 2023 • 22 April 2023 • 22 May 2023 • 27 June 2023 • 31 July 2023 • 24 August 2023 • 22 September 2023 • 30 October 2023 • 23 November 2023 • 22 December 2023 • 30 January 2024 • 28 February 2024
14.	Reg 34	<p>Reports on reportable incidents must be provided to DEPWS as soon as practicable and within 72 hours of the event occurring.</p> <p>A final report must be provided to DEPWS within 30 days after remediation/cleanup of the affected area.</p>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<p>No reportable incidents have been recorded against the EMP during the reporting period, as demonstrated by monthly reporting submitted to DEPWS:</p> <ul style="list-style-type: none"> • 20 February 2023 • 23 March 2023 • 22 April 2023 • 22 May 2023 • 27 June 2023 • 31 July 2023 • 24 August 2023 • 22 September 2023

No	Reference	Requirement	Compliant	Evidence
				<ul style="list-style-type: none"> • 30 October 2023 • 23 November 2023 • 22 December 2023 • 30 January 2024 • 28 February 2024
15.	Reg 35	A written report of all recordable incidents must be provided to DEPWS not later than 15 days after the 90 day reporting period (unless otherwise agreed).	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	Recordable incident reports were provided to DEPWS by email as follows: <ul style="list-style-type: none"> • Q1 2023 report – 13 April 2023 • Q2 2023 report – 14 July 2023 • Q3 2023 report – 13 October 2023 • Q4 2023 report – 15 January 2024 • Q1 2023 report – 12 April 2024
16.	Reg 37A	A report about flowback fluid from hydraulic fracturing must be provided to the Minister within 6 months of the flowback occurring.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	Flowback commenced on 25 January 2024. The report is due to the minister on or before 26 July 2024.
17.	Reg 37B	A report about produced water from hydraulic fracturing must be provided to the Minister within 6 months of the produced water being extracted.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	N/A produced water has not been produced. Any returned water is considered flowback and reported in according to regulation 37A.
18.	Schedule 1, item 12	Interest holder must notify the Minister, occupier of the land and owner of the land on which the activity is to be carried out before commencement of construction, ³ drilling, or seismic surveys.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	Minister was notified of the commencement of drilling under this EMP on 12 July 2023. The pastoralist was notified of the commencement of drilling under this EMP on 13 July 2023.

³ Note, civil works are also considered 'construction' activities.

3. Overall performance

3.1. Overview of performance

Table 5 provides a summary of the results of the performance assessment.

Table 5: Performance summary

Performance Status	Number	Percentage
Compliant	38	100%
Not Compliant		
Not Applicable	7	N/A

¹ Excludes regulatory requirements that are not applicable

3.2. Overview of non-compliant items

Refer to Section 3.11.2 of the AEPR Guideline for further guidance.

Table 6 describes:

- the specific compliance requirements not met for the reporting period
- an analysis of the possible potential environmental harm or impact to environmental values resulting from non-compliance, using multiple lines of evidence
- a summary of the corrective actions already implemented, and further actions still required, as applicable, to ensure compliance is fully achieved in the future.

Table 6: Overview of non-compliance

Overview of non-compliance		
1. Ministerial approval conditions		
1	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Non-compliance with ministerial approval conditions? If yes, complete the sections below. If more than one instance, copy the rows below for each condition not met. If no, proceed to 2. Environmental Outcomes
2	Condition # and requirement	
3	Summary of non-compliance	
4	Evidence used to detect non-compliance	
5	<input type="checkbox"/> Yes <input type="checkbox"/> No	Environmental harm arising from non-compliance If yes, complete section below. If no, proceed to row 7.

Overview of non-compliance		
6	If yes, describe nature and scale of impact and actions to remediate and rehabilitate	
7	If no, describe how determined no impact	
8	<input type="checkbox"/> Yes	Administrative non-compliance
9	If yes, describe nature of non-compliance	
10	Immediate corrective actions implemented	
11	Future corrective actions to prevent reoccurrence	
2. Environmental outcomes		
12	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Non-compliance with environmental outcome? If yes, complete the sections below. If more than one instance, copy the rows below for each outcome not complied with. If no, proceed to 3. Environmental Performance Standards
13	Outcome	
14	Summary of non-compliance	
15	Evidence used to detect non-compliance	
16	<input type="checkbox"/> Yes <input type="checkbox"/> No	Environmental harm arising from non-compliance If yes, complete section below. If no, proceed to row 18.
17	If yes, describe nature and scale of impact and actions to remediate and rehabilitate	
18	If no, describe how determined no impact	
19	<input type="checkbox"/> Yes	Administrative non-compliance
20	If yes, describe nature of non-compliance	
21	Immediate corrective actions implemented	
22	Future corrective actions to prevent reoccurrence	

Overview of non-compliance		
3. Environmental performance standards		
23	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Non-compliance with environmental performance standard? If yes, complete the sections below. If more than one instance, copy the rows below for each environmental performance standard not complied with. If no, proceed to 4. Regulatory Reporting or Record Keeping
24	Environmental performance standard	
25	Summary of non-compliance	
26	Evidence used to detect non-compliance	
27	<input type="checkbox"/> Yes <input type="checkbox"/> No	Environmental harm arising from non-compliance If yes, complete section below. If no, proceed to row 29.
28	If yes, describe nature and scale of impact and actions to remediate and rehabilitate	
29	If no, describe how determined no impact	
30	<input type="checkbox"/> Yes	Administrative non-compliance
31	If yes, describe nature of non-compliance	
32	Immediate corrective actions implemented	
33	Future corrective actions to prevent reoccurrence	
4. Regulatory reporting or record keeping		
34	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Non-compliance with regulatory reporting or record keeping? If yes, complete the sections below. If more than one instance, copy the rows below for each regulatory reporting or record keeping regulatory requirement not met. If no, proceed to 5. Monitoring
35	Reporting or recording requirement	
36	Summary of non-compliance	

Overview of non-compliance		
37	Evidence used to detect non-compliance	
38	Corrective actions implemented to improve reporting and record keeping	
5. Monitoring		
39	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Non-compliance with monitoring requirements? If yes, complete the sections below. If more than one instance, copy the rows below for each monitoring requirement not met.
40	Monitoring requirement	
41	Summary of non-compliance	
42	Evidence used to detect non-compliance	
43	Corrective actions implemented to ensure compliance with monitoring requirements	

ATTACHMENT A: 2023 NAFI fire scars in the vicinity of Kyalla 117 N2 site.

Controlled backburning was undertaken by the pastoralist around the Kyalla 117 N2 site in Oct-Nov 2023. Fire activity was reported in the October and November monthly reports.

