

# Annual Environmental Performance Report

<b>EMP title</b>	BEETALOO SUB-BASIN MULTI-WELL DRILLING, STIMULATION AND WELL TESTING PROGRAM EP 98, EP 76 (ORI10-3)
<b>Unique EMP ID</b>	ORI10-3.4
<b>EMP approval date</b>	19 May 2022
<b>AEPR period</b>	20 May 2023 – 19 May 2024
<b>Petroleum title number/s</b>	EP 98 and EP 76

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](#).

<b>Document title</b>	Annual Environmental Performance Report
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**Version Control** (to be completed by interest holder)

Date	Rev	Reason for Amendment	Author	Checked	Approved
19/08/2024	0	Issued for approval	A Court	L Pugh	M Kernke
16/10/2024	1	Update Spill Reporting as per request from DEPWS on 23 September 2024	A Court	J Fisher	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*.

<b>Signature</b>	<i>Matt Kerneke</i>
<b>Name of person signing on behalf of interest holder/s</b>	<b>Matt Kerneke</b>
<b>Position</b>	Vice President Environment and Permit Approvals
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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.<sup>1</sup> 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 Multi-Well Drilling, Stimulation and Well Testing Program EP 98, EP 76 (ORI10-3)
Unique EMP ID	ORI10-3.4
EMP approval date	19 May 2022
AEPR period	20 May 2023 – 19 May 2024
Petroleum title number/s	EP 98 and EP 76
Regulation 22 Notices (insert more rows if needed)	
Date Acknowledged	Scope
19 August 2022	Regulation 22 Beetaloo Sub-Basin Multi-Well Drilling, Stimulation and Well Testing Program EP 98, EP 76 EMP (ORI10-3.1), submitted 16 August 2022, for the following modifications: <ul style="list-style-type: none"> <li>Relocation of groundwater bore for the future Amungee NW2 well pad.</li> <li>An additional bore on the future NW2 well pad.</li> <li>2 ha of clearing to establish the 2 groundwater bores with no increase to overall clearing for the regulated activity.</li> </ul>
13 February 2023	Regulation 22 Beetaloo Sub-Basin Multi-Well Drilling, Stimulation and Well Testing Program EP 98, EP 76 EMP (ORI10.3-2), submitted 25 January 2023, for the following modifications: <ul style="list-style-type: none"> <li>Addition of a new hydraulic stimulation fluid system and chemical risk assessment.</li> </ul>
24 October 2023	Regulation 22 Beetaloo Sub-Basin Multi-Well Drilling, Stimulation and Well Testing Program EP 98, EP 76 EMP (ORI10.3-3), submitted 27 September 2023, for the following modifications: <ul style="list-style-type: none"> <li>Inclusion sodium hypochlorite 10–30% in well completion.</li> </ul>

<sup>1</sup> Petroleum (Environment) Regulations 2016 (NT) sch 1, item 11.

12 December 2023	<p>Regulation 22 Beetaloo Sub-Basin Multi-Well Drilling, Stimulation and Well Testing Program EP 98, EP 76 EMP (<b>ORI10.3-4</b>), submitted 2 November 2023, for the following modifications:</p> <ul style="list-style-type: none"> <li>• Include/transfer the low impact regulated activities in the Beetaloo Basin Groundwater Monitoring Bore Installation Program EMP (EP 98 Monitoring Bore EMP) into the Tamboran EMP titled Beetaloo Sub-basin Multi-well Drilling, Stimulation and Well Testing Program EMP – ORI10-3.4.</li> </ul>
<b>Regulation 23 Notices</b> (insert more rows if needed)	
<b>Date Acknowledged</b>	N/A
<b>Location of Regulated Activity</b>	
<input checked="" type="checkbox"/>	Figure attached showing location of regulated activity (Figure 1)
<b>Regulated activities conducted during the reporting period</b> (list regulated activities conducted, add or remove rows as required)	
1	Amungee NW 2H drilling, stimulation and well testing completed May 2023, with well shut in on 16 July 2023.
2	Amungee NW 3H drilled September – October 2023. Well suspended on 19 October 2023.
<input checked="" type="checkbox"/>	Gantt chart attached showing the period each regulated activity listed above was conducted (Figure 2)

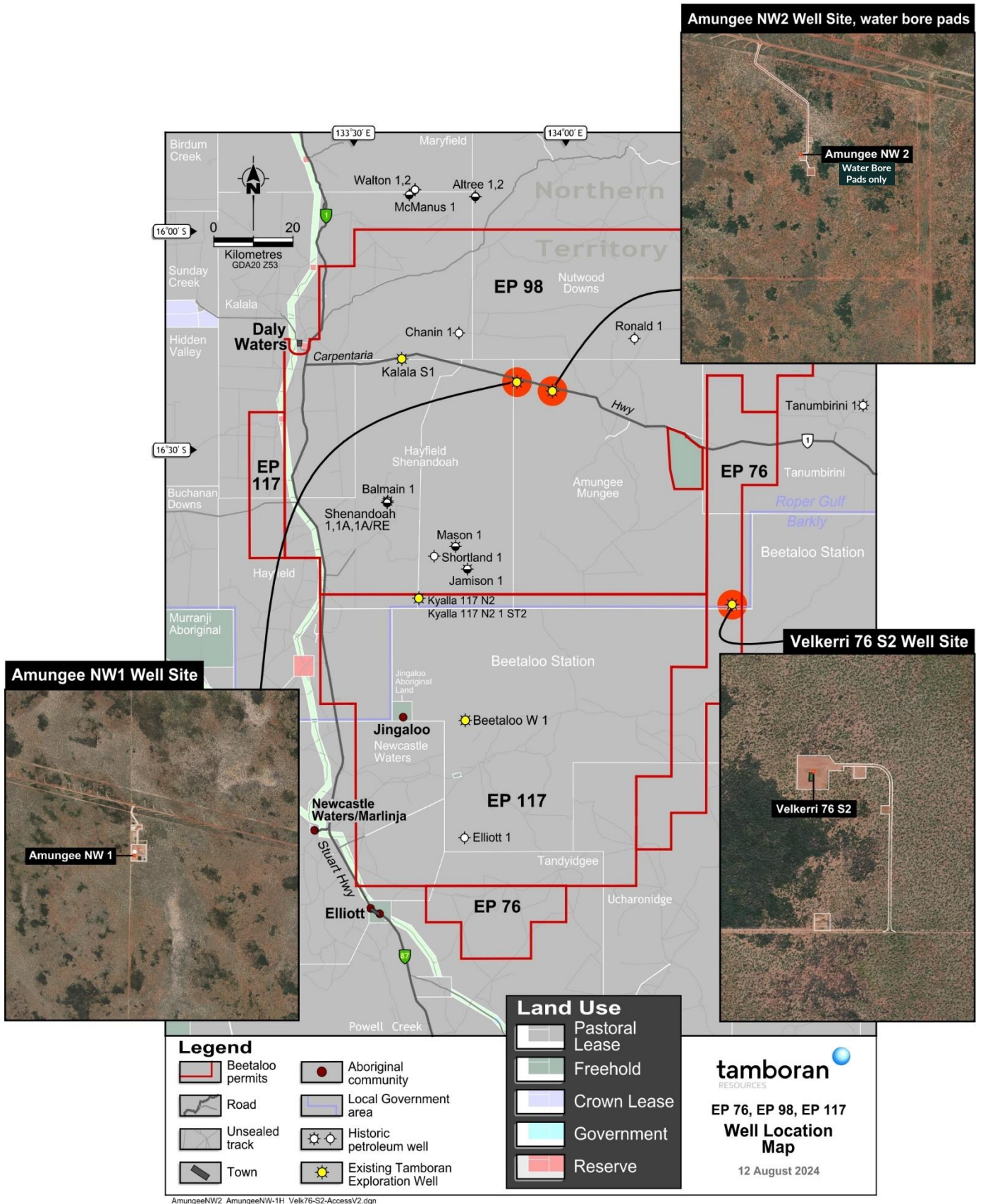


Figure 1 Amungee Multi-Well EMP site locations



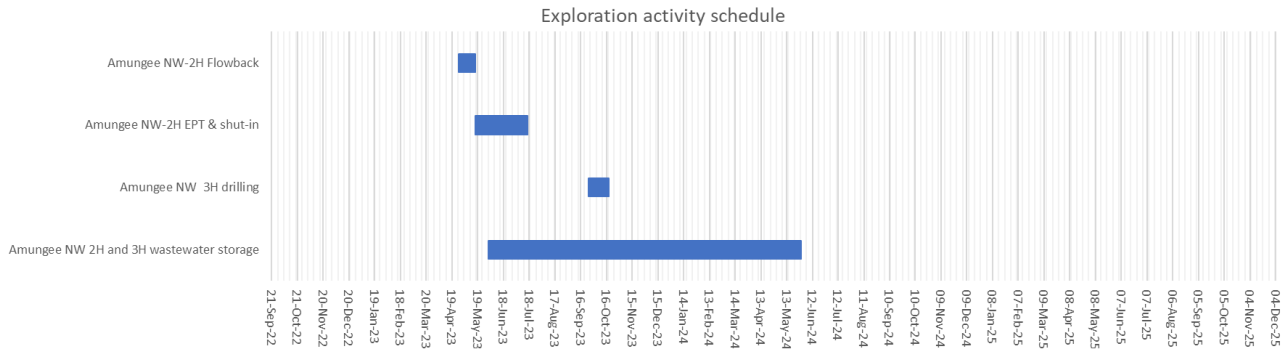


Figure 2 Exploration activities completed during the reporting period

### 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

### 1.3. Evidence used to assess performance

Please indicate which sources of evidence have been used to demonstrate compliance.

Evidence used to inform compliance status (check applicable evidence)	
<input checked="" type="checkbox"/>	Interest holder self-assessments of compliance, through daily and weekly inspections, as committed to in the EMP
<input checked="" type="checkbox"/>	Interest holder self-assessments of compliance, through internal audits, as committed to in the EMP
<input type="checkbox"/>	Interest holder self-assessments of compliance, through external audits conducted by third parties
<input checked="" type="checkbox"/>	Outcomes of inspections and/or audits conducted by the regulator
<input checked="" type="checkbox"/>	Spill register entries
<input checked="" type="checkbox"/>	Monitoring or other reports provided to DEPWS, the Department of Industry, Tourism and Trade (DITT) and other government agencies as required by the EMP
<input checked="" type="checkbox"/>	Outcomes of monitoring programs
<input checked="" type="checkbox"/>	Measurement criteria identified in the approved EMP
Other	Recordable and reportable incident reports submitted to DEPWS Petroleum Operations.

## 2. Demonstration of performance

Table 2 demonstrates interest holder compliance with Ministerial EMP approval conditions.

**Table 2: Compliance with Ministerial approval conditions**

No	Ministerial Condition	Compliant	Evidence
1.	<p><b>Condition 1.</b> The interest holder must submit to the Department of Environment, Parks and Water Security (DEPWS), via <a href="mailto:Onshoregas.DEPWS@nt.gov.au">Onshoregas.DEPWS@nt.gov.au</a> the following:</p> <p>i. Notification of the commencement of hydraulic fracturing activities prior to commencement.</p>	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	<p>The Amungee NW-2H well was shut-in on 16 July 2023 post stim, which was reported under the previous AEPR.</p> <p>The Amungee NW-3H well was drilled in Sept - Oct 2023 but has not been hydraulically fractured.</p> <p>No other hydraulic fracturing activities occurred under this EMP for the reporting period.</p>
2.	<p><b>Condition 1ii.</b> An updated timetable for the regulated activity that is to be provided on the last day of each quarter (being 31 March, 30 June, 30 September and 31 December each year), that identifies activities completed in the current quarter and:</p> <ul style="list-style-type: none"> <li>Regulated activities in the next quarter, including duration;</li> <li>Activities in the next quarter based on commitments in the EMP relevant to the stage of the activity, including duration;</li> <li>Due dates for satisfaction of Ministerial approval conditions in the next quarter; and</li> <li>Due dates for regulatory reporting in the next quarter.</li> </ul>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<p>Monthly reports were provided to DEPWS on the following dates:</p> <ul style="list-style-type: none"> <li>22 May 2023</li> <li>27 June 2023</li> <li>31 July 2023</li> <li>24 August 2023</li> <li>22 September 2023</li> <li>30 October 2023</li> <li>23 November 2023</li> <li>22 December 2023</li> <li>30 January 2024</li> <li>28 February 2024</li> <li>28 March 2024</li> <li>29 April 2024</li> <li>31 May 2024</li> </ul> <p>Quarterly reports were provided to DEPWS on the following dates:</p> <ul style="list-style-type: none"> <li>28 June 2023</li> <li>27 September 2023</li> </ul>

No	Ministerial Condition	Compliant	Evidence
			<ul style="list-style-type: none"> <li>• 22 December 2023</li> <li>• 2 April 2024</li> <li>• 1 July 2024</li> </ul>
3.	<p><b>Condition 1iii.</b> During civil works (and noting civil works is taken to include any type of earth moving, land clearing, installation of gravel pits, establishment of well pads, establishment of access tracks), weekly reports indicating:</p> <ul style="list-style-type: none"> <li>• The status and progress of vegetation clearing and civil works at each location the activity is conducted;</li> <li>• Any fires potentially threatening the activity from external or internal sources;</li> <li>• The outcome of inspections of erosion and sediment control measures and corrective actions taken; and</li> <li>• The outcome of inspections and risk assessments for determining suitability of use of unsealed roads by any vehicle or machinery other than light vehicle in the wet season.</li> </ul>	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	<ul style="list-style-type: none"> <li>• No civil works occurred during the reporting period. The interest holder provided a revised rehabilitation plan for the sites, including shapefiles to DEPWS on 23 November 2022.</li> <li>• Rehabilitation activities have not commenced during this reporting period on the Amungee NW well site, Velkerri 76 S2 well site or the Amungee NW2 water bore pads.</li> <li>• Land clearing spatial data was supplied to DEPWS on request on 6 March 2024 providing extent of vegetation clearing.</li> <li>• The success criteria described in the Rehabilitation Plan remain unchanged for all sites.</li> <li>• The revised rehabilitation plan for the Amungee NW site was assessed and accepted by DEPWS, 29 November 2022. All other rehabilitation plans are still consistent with EMP approval.</li> <li>• Numerous inspections and review of risks were completed over the reporting period, with daily drilling reports provided to DEPWS, which also included general site inspection information, along with monthly and quarterly inspections.</li> </ul>
4.	<p><b>Condition 1iv.</b> During drilling, daily on-site reports, to be consolidated and provided weekly, indicating:</p> <ul style="list-style-type: none"> <li>• Status and progress of drilling at each location;</li> <li>• Freeboard available in drill cutting pits (in cm); and</li> <li>• The outcome of general site inspections relevant to drilling and waste, and corrective actions taken.</li> </ul>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<p>The interest holder notified DEPWS on 18 September 2023, of imminent spudding of Amungee NW-3H E&amp;A well and provided ongoing daily reports.</p> <p>During drilling activities daily drilling reports for Amungee NW-3H were provided to the DEPWS, which also included general site inspection information. Final drilling report submitted to DEPWS on 25 October 2023.</p>

No	Ministerial Condition	Compliant	Evidence
			<p>Weekly fluids management on all well sites (Amungee NW, Velkerri 76 S2) reporting continues to be provided to DEPWS. It is noted that Amungee NW2 does not have any wastewater storage.</p> <p>Routine site inspections completed over the course of the reporting period.</p> <p><b>Amungee NW</b></p> <p>Four recordable incidents were reported during this reporting period as summarised below which only occurred on the Amungee NW site:</p> <ul style="list-style-type: none"> <li>- Q2 2023 – 01 April – 30 June – Nil.</li> <li>- Q3 2023 - 01 July – 30 September - Nil</li> <li>- Q4 2023 – 01 October to 31 December – 4 recordable relating to: <ul style="list-style-type: none"> <li>o 11/10/2023 - incorrectly stored chemical compound during drilling operations.</li> <li>o 13/10/2023 - A pump transferring drilling wastewater into the wastewater pond stopped working resulting in ~ 800 L spilt. All was contained within the bunded well pad.</li> <li>o 25/10/2023 - Leak detected on north side of C-ring tank on Amungee NW. Incident contained on hardstand within bunded well pad.</li> <li>o 26/09/23 – Spacer (Drilling) fluid spilled to ground during transfer after a cement job.</li> </ul> </li> <li>- Q1 2024 – 01 April to 30 June – Nil (specific to this reporting period).</li> </ul>

No	Ministerial Condition	Compliant	Evidence
			<p><b>Velkerri 76 S2</b></p> <p>One recordable incident was reported during this reporting period as summarised below:</p> <ul style="list-style-type: none"> <li>- Q2 2023 – 01 April – 30 June – Nil.</li> <li>- Q3 2023 - 01 July – 30 September - Nil</li> <li>- Q4 2023 – 01 October to 31 December – Nil</li> <li>- Q1 2024 – 01 April to 30 June – Nil (specific to this reporting period).</li> </ul>
5.	<p>Condition 1v. During hydraulic fracturing and flowback, weekly reports indicating:</p> <ul style="list-style-type: none"> <li>• Status and progress of hydraulic fracturing;</li> <li>• Weekly measurements of stored volume (in ML) and freeboard (cm) of wastewater storage tanks, unless operated in the wet season, during which it must be measured daily; and</li> <li>• The outcome of general site inspections relevant to hydraulic fracturing and waste and corrective actions taken.</li> </ul>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<p>The Amungee NW-3H well was drilled in Sept - Oct 2023 but has not been hydraulically fractured. Daily reports were provided to the DEPWS during the hydraulic fracturing and flowback activities. Weekly fluids management on all well sites (Amungee NW, Velkerri 76 S2) reporting continues to be provided to DEPWS.</p>
6.	<p><b>Condition 1vi.</b> During the wet season, weekly reports indicating:</p> <ul style="list-style-type: none"> <li>• The outcome of inspections of erosion and sediment control measures and corrective actions taken;</li> <li>• The outcome of daily inspections of any secondary containment in use, and corrective actions taken;</li> <li>• Any halt to the regulated activity due to wet season conditions; and</li> </ul>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<p>Weekly fluids management on all well sites (Amungee NW, Velkerri 76 S2) reporting continues to be provided to DEPWS.</p>

No	Ministerial Condition	Compliant	Evidence
	<ul style="list-style-type: none"> <li>Daily measurements of freeboard available in drill cutting pits and wastewater treatment tanks (in cm) whenever operational.</li> </ul>		
7.	<b>Condition 1vii.</b> For avoidance of doubt, if wastewater is present in tanks or drill cutting pits contain waste drill fluids and cuttings, these are considered to be operational. Reports must continue to be provided as per parts iv and v above, irrespective of whether there is manned activity occurring on site if the wastewater infrastructure is operational.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	Refer interest holder evidence provided against conditions 1iv and 1vi, above.
8.	<b>Condition 1viii.</b> In the event that multiple regulated activities under the EMP are being conducted concurrently, the weekly submission of consolidated daily reports may be further consolidated to a single submission, but must clearly identify the locations and activities to which the information pertains, in relation to each item listed in conditions iii to v above, inclusive.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<p>This AEPR covers regulated activities undertaken on EP 98 in accordance with the approved EMP.</p> <p>No regulated activities were undertaken on EP 76 during this reporting period.</p>
9.	<p><b>Condition 2.</b> The interest holder must provide an annual report to DEPWS, via <a href="mailto:Onshoregas.DEPWS@nt.gov.au">Onshoregas.DEPWS@nt.gov.au</a>, on its environmental performance, in accordance with item 11(1)(b) in schedule 1 of the Petroleum (Environment) Regulations 2016 (NT). With respect to the reports required to be submitted in accordance with item 11(1)(b) in schedule 1 of the Petroleum (Environment) Regulations 2016 (NT):</p> <p>i. The first report must cover the 12 month period from the date of the approval, and be provided within 3 calendar months of the end of the reporting period.</p> <p>ii. Each report must align with the template and Guideline prepared by DEPWS for this purpose and be</p>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<p>This AEPR is the second report since EMP approval and aligns with the DEPWS guideline.</p> <p>The interest holder has prepared this AEPR for the reporting period 20 May 2023 – 19 May 2024.</p>

No	Ministerial Condition	Compliant	Evidence
	provided each year until such time a notification is made to the Minister under regulation 14 that the activity is complete, or until the EMP is revised and re-approved.		
10.	<p><b>Condition 3.</b> In support of clause D.6.2 of the Code of Practice: Onshore Petroleum Activities in the Northern Territory, an emissions report must be provided to DEPWS by 30 September each year, via <a href="mailto:Onshoregas.DEPWS@nt.gov.au">Onshoregas.DEPWS@nt.gov.au</a>, which summarises actual annual greenhouse gas emissions from conduct of the regulated activity estimated and reported under the Commonwealth National Greenhouse and Energy Reporting Act 2007 versus predicted emissions in the EMP. The emissions report should include:</p> <ul style="list-style-type: none"> <li>i. A summary of all regulated activities conducted which have contributed to greenhouse gas emissions during the reporting period; and</li> <li>ii. Explanation of differences between actual and predicted emissions with reference to all parts of the regulated activity with potential to create greenhouse gas emissions.</li> </ul> <p>FOOTNOTE: Clause D.6.2(b) of the Code requires annual actual greenhouse gas emissions to be provided even where emissions are below the NGERs threshold of 25 ktCO<sub>2</sub>e for scope 1 and scope 2 emissions reporting.</p>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<p>The annual emissions report was submitted to DEPWS 27 September 2023.</p> <p>The next report is due on or before 30 September 2024.</p>
11.	<p><b>Condition 4.</b> To support clause C.7.2 of the Code of Practice: Onshore Petroleum Activities in the Northern Territory, all accidental releases of liquid contaminant or hazardous chemical must be immediately recorded in a site spill register. The spill register and geospatial files specifying the location of the spill must be submitted to</p>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<p>Refer Appendix B, which lists all spills regardless of incident threshold. A total of 4 spill incidents were recorded in Tamboran's TRACS, with 3 recordable in Q4 2023 and 1 internal reporting only. All incidents were considered minor in nature.</p> <p>Refer geospatial file.</p>



No	Ministerial Condition	Compliant	Evidence
	<p>DEPWS via <a href="mailto:Onshoregas.DEPWS@nt.gov.au">Onshoregas.DEPWS@nt.gov.au</a> three months after the 12 month anniversary of the approval of the EMP each year while the EMP is in force. The register must include:</p> <ul style="list-style-type: none"> <li>i. The location, source and volume of the spill or leak;</li> <li>ii. Volume of impacted soil removed for appropriate disposal and the depth of any associated excavation;</li> <li>iii. The corrective actions taken or proposed to be taken to prevent recurrence of an incident of a similar nature; and</li> <li>iv. GPS co-ordinates of the location of the spill.</li> </ul>		
12.	<p><b>Condition 5:</b> In support of clause B.4.17.2 of the Code of Practice: Onshore Petroleum Activities in the Northern Territory, the interest holder must:</p> <ul style="list-style-type: none"> <li>i. Undertake quarterly groundwater monitoring at each control and impact monitoring bore for a minimum of three years after establishment, unless otherwise advised by DEPWS.</li> <li>ii. provide to DEPWS, via <a href="mailto:Onshoregas.DEPWS@nt.gov.au">Onshoregas.DEPWS@nt.gov.au</a>, the results of quarterly groundwater monitoring, as soon as practicable and no later than 2 months after collection, in a format to be determined by DEPWS.</li> </ul>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<p>Amungee NW bores RN040894 and RN043018 have undergone quarterly groundwater monitoring. The last monitoring event during the reporting period was 26 April 2024.</p> <ul style="list-style-type: none"> <li>• Quarterly groundwater monitoring results for Amungee NW submitted to DEPWS on 21 March 2024.</li> <li>• No indications of contamination were identified, with all exceedances assessed as natural variation.</li> <li>• Groundwater monitoring was completed post Amungee NW-2H stimulation.</li> <li>• Lab reports submitted to DEPWS on 15 December 2023 and again on 22 March 2024 covering Amungee NW well site.</li> </ul> <p>No wells were drilled or stimulated on Velkerri 76 S2 or Amungee NW 2. The CMB at the Amungee NW 2 site has been plugged and abandoned, per last year’s AEPR advice.</p>
13.	<p><b>Condition 5iii.</b> Provide to DEPWS, via <a href="mailto:Onshoregas.DEPWS@nt.gov.au">Onshoregas.DEPWS@nt.gov.au</a>, an interpretive report of groundwater quality based on the groundwater monitoring required to be conducted at the well site(s) in accordance</p>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<p>Quarterly groundwater report for Amungee EP 98 was submitted to DEPWS on 21 March 2024.</p> <p>Groundwater take is submitted to DEPWS via WALAPs each month.</p>

No	Ministerial Condition	Compliant	Evidence
	<p>with Table 6 of the Code. The interpretive report must be provided annually within 3 months of the anniversary of the approval date of the EMP and include:</p> <ul style="list-style-type: none"> <li>• identification of any change to groundwater quality or level attributable to conduct of the regulated activity at the well site(s) and discussion of the significance and cause of any such observed change</li> <li>• interpretation of any statistical outliers observed from baseline measured values for each of the analytes</li> <li>• discussion of any trends observed</li> <li>• a summary of the results including descriptive statistics</li> <li>• description of the layout of the groundwater monitoring bores and wells, indicative groundwater flow directions and levels in accordance with the Preliminary Guideline Groundwater Monitoring Bores for Exploration Petroleum Wells in the Beetaloo Sub-basin.</li> </ul>	<input type="checkbox"/> N/A	<p>No wells were drilled or stimulated on Velkerri 76 S2 or Amungee NW 2.</p> <p>The year 1 interpretive groundwater report was submitted to DEPWS 18 of August 2023. The next annual report is due on the 21 of August 2024.</p>
14.	<p><b>Condition 5iv.</b> Develop site-specific performance standards for groundwater quality and interquartile ranges for analytes at each of the impact monitoring bores established, based on the first 3 years of groundwater monitoring, and provide to DEPWS, via <a href="mailto:Onshoregas.DEPWS@nt.gov.au">Onshoregas.DEPWS@nt.gov.au</a> within 6 months of the 3-year anniversary of approval of the EMP.</p>	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	<p>The EMP has only been in force for 24 months.</p> <p>Quarterly groundwater monitoring is ongoing with n interquartile range developed for analytes after 3 years.</p>
15.	<p><b>Condition 6.</b> In support of clause 16 of the Water Act 1992 (NT) and clause 8.4.2 of the Code of Practice: Onshore Petroleum Activities in the Northern Territory, the interest</p>	<input type="checkbox"/> Yes <input type="checkbox"/> No	<p>Data logs for the Amungee NW impact monitoring bore for the Amungee NW-2H well campaign were reported in the previous AEPR.</p>

No	Ministerial Condition	Compliant	Evidence
	holder must undertake groundwater level / pressure monitoring at each impact monitoring bore established, using a logger to record water level for 2 weeks prior to, during, and 4 weeks after completion of hydraulic fracturing operations at each well pad. Data logging should record at a minimum of every 4 minutes for the duration of the recording period. The logging data should be provided to DEPWS via <a href="mailto:Onshoregas.DEPWS@nt.gov.au">Onshoregas.DEPWS@nt.gov.au</a> within 2 weeks of completion of groundwater level monitoring in each impact monitoring bore.	<input checked="" type="checkbox"/> N/A	No well testing (flowback) has been undertaken on the Amungee NW-3H well.
16.	<p><b>Condition 7.</b> The interest holder must provide to DEPWS within 6 weeks of completion of well flowback operations at each new exploration well established under the EMP a report on the risk assessment of flowback wastewater from the hydraulic fracturing phase, via <a href="mailto:Onshoregas.DEPWS@nt.gov.au">Onshoregas.DEPWS@nt.gov.au</a>. The risk assessment must be:</p> <ul style="list-style-type: none"> <li>i. prepared by a suitably qualified person</li> <li>ii. prepared in accordance with the monitoring wastewater analytes specified in section C.8 of the Code of Practice: Onshore Petroleum Activities in the Northern Territory.</li> </ul>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<p>Initial well clean-up and flowback of the Amungee NW-2H well was reported in the previous AEPR. The Amungee NW-2H well was shut-in on 16 July 2023 post well testing which was reported in the previous AEPR. The flowback report and risk assessment for this well were submitted to DEPWS on 19 September 2023.</p> <p>No well testing (flowback) has been undertaken on the Amungee NW-3H well.</p>

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
<b>LAND - SOIL</b>				
1.	No significant impact to the ecological function and productivity of soils resulting from [Tamboran's] exploration activities.	S-1: No releases of contaminants (chemicals, stimulation fluid, 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	<ul style="list-style-type: none"> <li>Weekly site inspections completed during operations confirm no releases of chemicals, hydrocarbons and wastes outside of Tamboran's well site disturbance area.</li> <li>No incidents recorded relating to spills outside Tamboran's well site disturbance area.</li> </ul>
2.		S-2 & S-3: No reportable spills, including wastewater tank/sump overtopping events or spills from wastewater recycling, resulting from [Tamboran's] exploration activities.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<ul style="list-style-type: none"> <li>Weekly site inspections during hydrocarbon, wastewater and chemical storage, handling and recycling activities confirm no reportable spills.</li> <li>Four recordable incidents occurred on Amungee NW. These were during the drilling of Amungee NW 3H well and contained on the well pad.</li> <li>No reportable incidents recorded relating to spills during the reporting period.</li> <li>Zero reportable incidents resulting from chemical or waste handling, recycling, treatment and transportation accidents.</li> </ul>

No	Environmental Outcome	Environmental Performance Standard	Compliant	Evidence
3.		S-4 & S-5: 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"> <li>6-monthly site stability inspections confirm ESC in place and working effectively. No erosion or sediment releases present that cannot be rectified during routine site maintenance.</li> <li>Routine site inspections completed; no material erosion identified.</li> </ul>
<b>Surface Water</b>				
4.	No significant impact on surface water quality as a result of [Tamboran's] exploration activities.	<ul style="list-style-type: none"> <li>SW-1: During chemical and wastewater storage activities, no offsite release of contaminants from chemical, hydrocarbon and waste storage.</li> </ul>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<ul style="list-style-type: none"> <li>No offsite releases of chemicals were recorded during the reporting period.</li> </ul>
5.		<ul style="list-style-type: none"> <li>SW-2: No seismic events over Ml 3.5 attributable to [Tamboran's] activities.</li> </ul>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<ul style="list-style-type: none"> <li>No seismic events over Ml 3.5 recorded in vicinity of a hydraulic fracture operation measured at the Warramunga seismic monitoring station or adjacent seismometer during period that hydraulic fracture estimations have occurred resulting in surface subsidence and impacting surface hydrology.</li> <li>Monitoring results available at <a href="https://earthquakes.ga.gov.au/">https://earthquakes.ga.gov.au/</a></li> </ul>
6.		<ul style="list-style-type: none"> <li>SW-3: No reportable spills, including off-site releases of contaminants resulting from [Tamboran's] exploration activities.</li> </ul>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<ul style="list-style-type: none"> <li>Weekly site inspections completed during chemical and wastewater storage, handling and recycling which confirm no releases of chemicals, hydrocarbons and wastewater outside of the project areas.</li> </ul>

No	Environmental Outcome	Environmental Performance Standard	Compliant	Evidence
7.		<ul style="list-style-type: none"> <li>SW-4: Erosion and sediment control in place and working effectively.</li> </ul>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<ul style="list-style-type: none"> <li>Routine site inspections completed; no material erosion identified.</li> <li>No material incidents of erosion reported.</li> </ul>
<b>Groundwater</b>				
8.	[Tamboran's] exploration activities do not reduce the environmental values of the underlying groundwater resources.	<ul style="list-style-type: none"> <li>GW-1: All regional aquifers isolated through cement and casing.</li> </ul>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<ul style="list-style-type: none"> <li>Isolation of the Gum Ridge Formation and Anthony Lagoons Formation is confirmed through cement bond logs and casing pressure tests.</li> <li>Cement bond logs submitted to DITT on 19 February 2023.</li> </ul>
9.		<ul style="list-style-type: none"> <li>GW-2: No failure of wastewater tank secondary liner.</li> </ul>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	<ul style="list-style-type: none"> <li>A small leak was detected during the reporting period for the Amungee NW 3H C-ring tank. Investigations indicated the leak was in the upper bladder. The fluid level was reduced, and leak ceased. The tank is scheduled for decommissioning.</li> </ul>
10.		<ul style="list-style-type: none"> <li>GW-3: No seismic events over MI 3.5 attributable to Tamboran's activities.</li> </ul>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<ul style="list-style-type: none"> <li>No seismic events over MI 3.5 recorded in vicinity of a hydraulic fracture operation measured at the Barramunga seismic monitoring station or adjacent site seismometer during period that hydraulic fracture stimulations have occurred.</li> <li>No seismic events detected.</li> <li>Monitoring results available at <a href="https://earthquakes.ga.gov.au/">https://earthquakes.ga.gov.au/</a>.</li> </ul>

No	Environmental Outcome	Environmental Performance Standard	Compliant	Evidence
11.		<ul style="list-style-type: none"> <li>GW-4: No long-term (&gt;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.</li> </ul>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<ul style="list-style-type: none"> <li>Quarterly groundwater monitoring data collected and analysed against baseline data demonstrates no material decline in groundwater quality.</li> <li>Construction of IMB RN043018 on Amungee NW completed on 08/09/2022; collection of baseline data commenced on 22 October 2022.</li> <li>Water extraction levels reported and submitted to DEPWS at least monthly via WALAPs.</li> <li>Annual groundwater extraction under WEL GRF 10285 as at 30/04/2024, was ~45 ML, which is well below the WEL permit of 175 ML/annum.</li> <li>No wells have been drilled or stimulated on Velkerri 76 S2 or Amungee NW 2.</li> </ul>
12.		<ul style="list-style-type: none"> <li>GW-5 &amp; GW-6: No long term (&gt;12 month) reduction in groundwater level observed in the impact monitoring bore that results in &gt;1 m decline in groundwater water level.</li> </ul>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<p>Quarterly groundwater monitoring data collected and analysed against baseline data confirms no material (&gt;1 m) decline in groundwater level as evident by:</p> <ul style="list-style-type: none"> <li>Quarterly groundwater monitoring results for Amungee NW submitted to DEPWS on 03 May and 13 June 2023.</li> <li>No indications of contamination were identified, with all exceedances assessed as natural variation. The report Included</li> </ul>

No	Environmental Outcome	Environmental Performance Standard	Compliant	Evidence
				<p>groundwater monitoring completed post Amungee NW-2H stimulation.</p> <ul style="list-style-type: none"> <li>No wells have been drilled on Velkerri 76 S2 or Amungee NW 2 that are covered by this Approval.</li> <li>Total groundwater extraction volume below the approved water extraction licence take of 175 ML/year as evident by:                             <ul style="list-style-type: none"> <li>Water extraction levels reported and submitted to DEPWS at least monthly via WALAPs.</li> <li>Annual groundwater extraction under WEL GRF 10285 as at 30/04/2024, was ~45 ML, which is well below the WEL permit of 175 ML/annum</li> </ul> </li> </ul>
<b>Ecology</b>				
13.	No significant impact to high valued habitats and listed threatened flora and fauna from [Tamboran's] exploration activities.	<ul style="list-style-type: none"> <li>EC-1: No releases of wastewater (drilling fluid and flowback) off the lease into the surrounding vegetation.</li> </ul>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<ul style="list-style-type: none"> <li>Weekly site inspections confirm no loss of containment (structural failure, overtopping or major spills from wastewater storage, handling and recycling) resulting in off-site releases of wastewater.</li> <li>No incidents of wastewater release into the surrounding vegetation reported in Tamboran's incident management system.</li> </ul>



No	Environmental Outcome	Environmental Performance Standard	Compliant	Evidence
				<ul style="list-style-type: none"> <li>Nil leaks / spills reported for this reporting period at Velkerri 76 S2.</li> </ul>
14.		<ul style="list-style-type: none"> <li>EC-2 &amp; EC-3: &lt;7 individual fauna deaths per week for 2 consecutive weeks caused by flowback water storage.</li> </ul>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<ul style="list-style-type: none"> <li>No fauna deaths reported in flowback water storages during the reporting period.</li> <li>Flowback stored in enclosed tanks with no open storage.</li> </ul>
15.		<ul style="list-style-type: none"> <li>EC-4 &amp; EC-5: &lt;0 threatened fauna deaths caused by flowback storage.</li> </ul>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<ul style="list-style-type: none"> <li>No fauna deaths reported in flowback water storages during the reporting period.</li> <li>Flowback stored in enclosed tanks with no open storage.</li> </ul>
16.		<ul style="list-style-type: none"> <li>EC-6: No uncontrolled bushfires caused by Tamboran's exploration activities.</li> </ul>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<ul style="list-style-type: none"> <li>Zero reported incidents of uncontrolled bushfire caused by [Tamboran's] activities.</li> <li>Refer Appendix A.</li> </ul>
17.		<ul style="list-style-type: none"> <li>EC-7: Weed surveys completed on all [Tamboran] disturbed areas.</li> </ul>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<ul style="list-style-type: none"> <li>6-monthly pre- and post-wet season weed surveys completed on all [Tamboran] controlled disturbed areas.</li> <li>Routine site inspections completed with chemical weed controls implemented. Annual weed report will be submitted to DEPWS November 2024.</li> <li>Routine weed inspection of EP 98 was completed by DEPWS weed officer and Tamboran representatives.</li> </ul>

No	Environmental Outcome	Environmental Performance Standard	Compliant	Evidence
				<ul style="list-style-type: none"> <li>Gamba grass (<i>Andropogon gayanus</i>) was recorded near the camp area – 1 plant. Chemical control of the plant was completed on 26 May 2023. Gamba was present on the station prior to E&amp;A activities.</li> <li>No weeds evident at Amungee NW 2 water bore pads.</li> </ul>
18.		<ul style="list-style-type: none"> <li>EC-8: Year-on-year decline in the size and density of all weed infestations introduced as a result of [Tamboran's] activities.</li> </ul>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<ul style="list-style-type: none"> <li>Annual report demonstrates weed infestation size and density of weed outbreaks introduced by [Tamboran's] activities are reducing each year and where encountered, responded to minimise further spread of weeds.</li> <li>Routine site inspections completed with chemical controls implemented on Amungee NW. No evidence of weed outbreaks expanding in size.</li> <li>Last weeds inspection at Velkerri 76 S2 completed in May 2024, indicated no weeds detect.</li> </ul>
<b>Air Quality and GHG Emissions</b>				
19.	No significant impact on air quality and no excess greenhouse gas emissions as a result of [Tamboran's] exploration activities.	<ul style="list-style-type: none"> <li>AQ-1: Venting to be eliminated as far as reasonably practicable.</li> </ul>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<ul style="list-style-type: none"> <li>Daily reports confirm the absence of cold venting.</li> <li>No incidents of uncontrolled gas emissions reported during the reporting period.</li> </ul>

No	Environmental Outcome	Environmental Performance Standard	Compliant	Evidence
				<ul style="list-style-type: none"> <li>6 monthly leak detection on the Amungee NW-2H well completed in September 2023.</li> <li>The Amungee NW-3H well has not been hydraulically fractured.</li> <li>No wells have been hydraulic fractured at Velkerri 76 S2 and Amungee NW 2, during the reporting period.</li> <li>No pastoralist complaints recorded during the activity.</li> <li>Zero reported incidents of uncontrolled bushfire(s) caused by Tamboran’s activities</li> </ul>
20.		<ul style="list-style-type: none"> <li>AQ-2: All greenhouse gasses reporting in accordance with NGERs requirements.</li> </ul>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<ul style="list-style-type: none"> <li>All emissions related data (fuel use, flaring volumes etc.) reported in accordance with NGERs requirements</li> <li>The Annual Emissions Management Report for the period 1 July 2023 to 30 June 2024 (Financial Year 24), will be submitted by 30 September 2024.</li> </ul>
21.		<ul style="list-style-type: none"> <li>AQ-3 to AQ-5: All leaks detected and repaired in accordance with the Code:               <ul style="list-style-type: none"> <li>6-monthly leak detection program completed on surface equipment.</li> </ul> </li> </ul>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<ul style="list-style-type: none"> <li>The 6 monthly leak detection on wells has been completed. Frequency has been increased as a part of the monthly site inspection. Dates of inspections completed over the period include:               <ul style="list-style-type: none"> <li>19/12/2023</li> <li>10/02/2024</li> <li>16/04/2024</li> </ul> </li> </ul>

No	Environmental Outcome	Environmental Performance Standard	Compliant	Evidence
		<ul style="list-style-type: none"> <li>○ Minor leaks rectified as per Code of Practice within 30-days.</li> <li>○ A significant leak is repaired as per the Code of Practice within 72-hours.</li> </ul>		<ul style="list-style-type: none"> <li>● 20/06/2024</li> </ul>
<b>Community</b>				
22.	<p>Minimise impacts upon environmental values of the local community</p> <p>Minimise impacts on cultural heritage</p> <p>Minimise safety risks to the public and other third parties</p>	<ul style="list-style-type: none"> <li>● Absence of issues arising, which have the potential to affect the work program, is a good indication of successful communications.</li> <li>● No unresolved reasonable complaints.</li> <li>● High level satisfaction with complain outcomes and complaint resolution processes.</li> </ul>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<p>No complaints received from local community or traditional owners reported/recorded during the reporting period, as demonstrated by quarterly incident reporting submitted to DEPWS:</p> <ul style="list-style-type: none"> <li>● Q2 2023 report provided 14/07/2023</li> <li>● Q3 2023 report provided 13/10/2023</li> <li>● Q4 2023 report provided 16/01/2023</li> <li>● Q1 2024 report provided 12/04/2024.</li> <li>● Velkerri 76 S2 well site and Amungee NW 2 water bore pads are secure.</li> </ul>
23.	Maintain and enhance partnerships with the local community, including using local contractors	<ul style="list-style-type: none"> <li>● An overall social and economic benefit as compared to perceived adverse impacts as derived from consultations with community advisory groups.</li> </ul>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<ul style="list-style-type: none"> <li>● All maintenance services (including weed inspections, site inspections, etc.) completed by local Indigenous businesses and NT based companies.</li> </ul>

No	Environmental Outcome	Environmental Performance Standard	Compliant	Evidence
		<ul style="list-style-type: none"> <li>Where suitable, include Aboriginal employment in the proposed program.</li> </ul>		<ul style="list-style-type: none"> <li>Since 2021, the Beetaloo Joint Venture has over \$800,000 with local indigenous business –this excludes wages from local employees.</li> </ul>
<b>Cultural Heritage and Sacred Sites</b>				
24.	<p>To avoid disturbance of or damage to Aboriginal or cultural heritage artefacts or Sacred Sites</p> <p>To minimise impacts upon or disruption to activities of Indigenous stakeholders in culturally significant areas</p> <p>To ensure adequate background information and training is provided to employees and contractors working in culturally significant areas</p> <p>To ensure that the health and safety of exploration workers and the community is not compromised through management of cultural and environmental awareness</p>	<ul style="list-style-type: none"> <li>No disturbance of archaeological sites or sites of cultural significance, or if disturbance is required, an application to disturb is submitted and approved prior to disturbance.</li> </ul>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<ul style="list-style-type: none"> <li>All activities completed during this reporting period were within the AAPA approved areas.</li> </ul>

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),<sup>2</sup> 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	Geospatial data provided to DEPWS as follows: <ul style="list-style-type: none"> <li>Rehabilitation has not commenced on the Amungee NW 98 site.</li> <li>The revised surface disturbance table is a comparison between EMP (proposed) vs actual cleared footprint</li> <li>The success criteria remain unchanged.</li> <li>The rehabilitation plan for the Amungee NW site was assessed and accepted by DEPWS, 29 November 2022.</li> </ul>
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"> <li>Weed management plan developed, with 6 monthly weed monitoring completed, when site access is available.</li> <li>2023-24 Annual Weed Survey report to be submitted</li> <li>Overall, the weed management plan has continued to be implemented across all the site in accordance with the relevant conditions of the environmental approvals for the Beetaloo exploration program.</li> </ul>

<sup>2</sup> Petroleum (Environment) Regulations 2016 (NT) sch 1, item 11(2).

No	Reference	Requirement	Compliant	Evidence
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"> <li>A post wet season site visit in May 2024, indicated that the sites remains free of declared weeds.</li> <li>Fire Management Plan implemented.</li> <li>Annual fire mapping using NAFI data indicates the most recent fires in the vicinity of EP 98 and EP 76 occurred in 2021 and 2018, respectively. Refer annual fire mapping (Appendix A).</li> </ul>
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	<ul style="list-style-type: none"> <li>A rehabilitation plan was submitted to DEPWS in accordance with EMP approval.</li> <li>No rehabilitation activities have occurred on the sites during the reporting period.</li> </ul>
5.	Code cl B.4.13.2(c)	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): a) total volume of hydraulic fracturing fluid pumped, 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 c) typical and maximum concentrations of chemicals or other substances used.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<ul style="list-style-type: none"> <li>The flowback report and risk assessment for the Amungee NW-2H well were submitted to DEPWS on 19 September 2023.</li> <li>Amungee NW-3H well has not been hydraulically fractured during the reporting period.</li> <li>No wells have been drilled on Velkerri 76 S2 that are covered by this approval / AEPR.</li> </ul>
6.	Code cl B.4.13.2(k)iv	Where venting is the only technically feasible option for managing produced gas,	<input checked="" type="checkbox"/> Yes	<ul style="list-style-type: none"> <li>No incidents of uncontrolled gas emissions recorded during the reporting period on EP 98.</li> </ul>

No	Reference	Requirement	Compliant	Evidence
		the technical considerations preventing the use of the recovered gas must be recorded and included in the operator’s annual report.	<input type="checkbox"/> No <input type="checkbox"/> N/A	<ul style="list-style-type: none"> <li>In accordance with section 61H of the Act, the annual title report for EP 98 and EP 76 was submitted to DITT on 8 April 2024.</li> <li>The 2023 – 24 emissions management report will be submitted by 30 September 2024.</li> </ul>
7.	Code cl B.4.14.2(c)	All new barriers or new well operating envelopes must be verified and clearly documented and reported by submission of an updated well barrier integrity validation (WBIV) report to DITT.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<ul style="list-style-type: none"> <li>The WBIV report for the Amungee NW-2H well is uploaded on the <a href="#">POINT website</a>, dated 9 June 2023, demonstrating compliance.</li> <li>The WBIV report for the Amungee NW-3H well is uploaded on the <a href="#">POINT website</a>, dated 29 January 2024.</li> <li>No wells have been drilled on Velkerri 76 S2 that are covered by this approval / AEPR.</li> </ul>
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	<ul style="list-style-type: none"> <li>Amungee NW-2H, Amungee NW-3H have not been decommissioned.</li> <li>No wells have been drilled on Velkerri 76 S2 that are covered by this approval / AEPR.</li> </ul>
9.	Code B.4.17.2(d)	Any guidelines published by the Northern Territory Government from time to time relating to reporting and data submission, and groundwater monitoring data standards must be followed.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<ul style="list-style-type: none"> <li>Construction of IMB RN043018 was completed on 08/09/2022; collection of baseline data commenced on 22 October 2022.</li> <li>Quarterly groundwater monitoring results for Amungee NW were submitted to DEPWS on 13 June 2023. The report included groundwater monitoring completed post Amungee NW-2H stimulation.</li> <li>All groundwater monitoring is undertaken in accordance with the NT’s Preliminary Guideline:</li> </ul>



No	Reference	Requirement	Compliant	Evidence
				<p>Groundwater monitoring bores for exploration petroleum wells in the Beetaloo Sub-basin.</p> <ul style="list-style-type: none"> <li>No wells have been drilled on Velkerri 76 S2 that are covered by this approval / AEPR - with groundwater results considered "baseline".</li> </ul>
10.	Code C.3(e)	The components of the wastewater management framework, include: Monitor, manage and report in accordance with the Wastewater Management Plan and Spill Management Plan.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<ul style="list-style-type: none"> <li>The approved EMP includes a WWMP and SMP, which has been adhered to during the reporting period.</li> <li>No incidents of uncontrolled wastewater release or spills off well pads were recorded in TRAC during the reporting period.</li> </ul>
11.	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	<ul style="list-style-type: none"> <li>All wastewater tracking reported weekly.</li> </ul>
12.	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	<ul style="list-style-type: none"> <li>The approved EMP includes a WWMP and SMP, which has been adhered to during the reporting period.</li> </ul>
13.	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	<ul style="list-style-type: none"> <li>Emission related data (including fuel usage and flaring data) have been measured.</li> <li>The Annual Emissions Management Report for the period 1 July 2023 to 30 June 2024 (referred to as FY 23), will be submitted by 30 September 2024.</li> </ul>

No	Reference	Requirement	Compliant	Evidence
14.	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	<ul style="list-style-type: none"> <li>This condition is associated with a larger field development program.</li> <li>The Annual Emissions Management Report for the period 1 July 2023 to 30 June 2024 (referred to as FY 23), will be submitted by 30 September 2024.</li> </ul>
15.	Code D.6.2(b)	Emissions reporting must be in accordance with Section D.5.6. Emissions associated with venting and flaring as described in Section D.5.9 must be provided separately to the Northern Territory Government in accordance with this Code.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<ul style="list-style-type: none"> <li>Emission reporting, as per section 5.6 will be provided on, or before the 30 September 2024.</li> </ul>
16.	Reg 14	A current EMP remains in force until the interest holder notifies the Minister the activity is no longer being carried out and all of the environmental outcomes and obligations under the plan have been met, and the Minister advises the interest holder the notice is accepted and the plan ceases to be in force.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<ul style="list-style-type: none"> <li>The EMP is still in force and has approximately 3 years remaining before the next review.</li> </ul>
17.	Reg 33	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. A written report must be provided within 24 hours if the initial report was made orally.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<ul style="list-style-type: none"> <li>No reportable incidents have been recorded at any sites during the reporting period.</li> </ul>
18.	Reg 34	Reports on reportable incidents must be provided to DEPWS as soon as practicable and within 72 hours of the event occurring.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<ul style="list-style-type: none"> <li>No reportable incidents have been recorded at any site during the reporting period.</li> </ul>

No	Reference	Requirement	Compliant	Evidence
		A final report must be provided to DEPWS within 30 days after remediation/cleanup of the affected area.		
19.	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	<ul style="list-style-type: none"> <li>Quarterly reports were provided to DEPWS by email as follows:             <ul style="list-style-type: none"> <li>Q2 2023 report provided 14/07/2023</li> <li>Q3 2023 report provided 13/10/2023</li> <li>Q4 2023 report provided 16/01/2023</li> <li>Q1 2024 report provided 12/04/2024.</li> </ul> </li> </ul>
20.	Reg 37A	A report about flowback fluid from hydraulic fracturing must be provided to the Minister within 6 months of the flowback occurring.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<ul style="list-style-type: none"> <li>The well clean up on the Amungee NW 2H well commenced on 25 March 2023, with official flowback operations coming 25 April 2023. Final well shut-in occurred on 16 July 2023. The flowback fluid report will be prepared and submitted to DEPWS on, or before, 25 October 2023.</li> <li>Amungee NW-3H has not been hydraulically fractured.</li> </ul>
21.	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 checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<ul style="list-style-type: none"> <li>No produced water was generated from the Amungee NW 2H well. The flowback report and risk assessment for this well were submitted to DEPWS on 19 September 2023.</li> <li>Amungee NW-3H has not been hydraulically fractured.</li> </ul>
22.	Schedule 1, item 9(2)	Interest holders are required to conduct future engagement with stakeholders, in accordance with the description in the EMP.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<ul style="list-style-type: none"> <li>Stakeholder engagement with immediately affected parties is ongoing, with the frequency of the engagement dependent on the level of activity being completed onsite at a given point of time.</li> </ul>

No	Reference	Requirement	Compliant	Evidence
			<input type="checkbox"/> N/A	
23.	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 <b>before</b> commencement of construction, <sup>3</sup> drilling, or seismic surveys.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	<ul style="list-style-type: none"> <li>The interest holder notified DEPWS on 18 September 2023, of imminent spudding of Amungee NW-3H E&amp;A well and provided ongoing daily reports.</li> <li>Amungee Mungee pastoralist notified 26 September 2023.</li> </ul>

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<sup>3</sup> 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	56	98.3% <sup>a</sup>
Not Compliant	1	1.7%
Not Applicable	6	N/A

<sup>a</sup> Excludes regulatory requirements that are not applicable.

### 3.2. Overview of non-compliant items

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		
<b>1. Ministerial approval conditions</b>		
1	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<i>Non-compliance with ministerial approval conditions recorded during this reporting period?</i>  <i>If yes, complete the sections below. If more than one instance, copy the rows below for each condition not met.</i>  <i>If no, proceed to 2. Environmental Outcomes</i>
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	<i>Environmental harm arising from non-compliance</i>  <i>If yes, complete section below.</i>  <i>If no, proceed to row 7.</i>

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	<i>Administrative non-compliance</i>
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	<i>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</i>
13	Outcome	-
14	Summary of non-compliance	-
15	Evidence used to detect non-compliance	-
16	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<i>Environmental harm arising from non-compliance If yes, complete section below. If no, proceed to row 18.</i>
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 checked="" type="checkbox"/> Yes	
20	If yes, describe nature of non-compliance	
21	Immediate corrective actions implemented	
22	Future corrective actions to prevent reoccurrence	

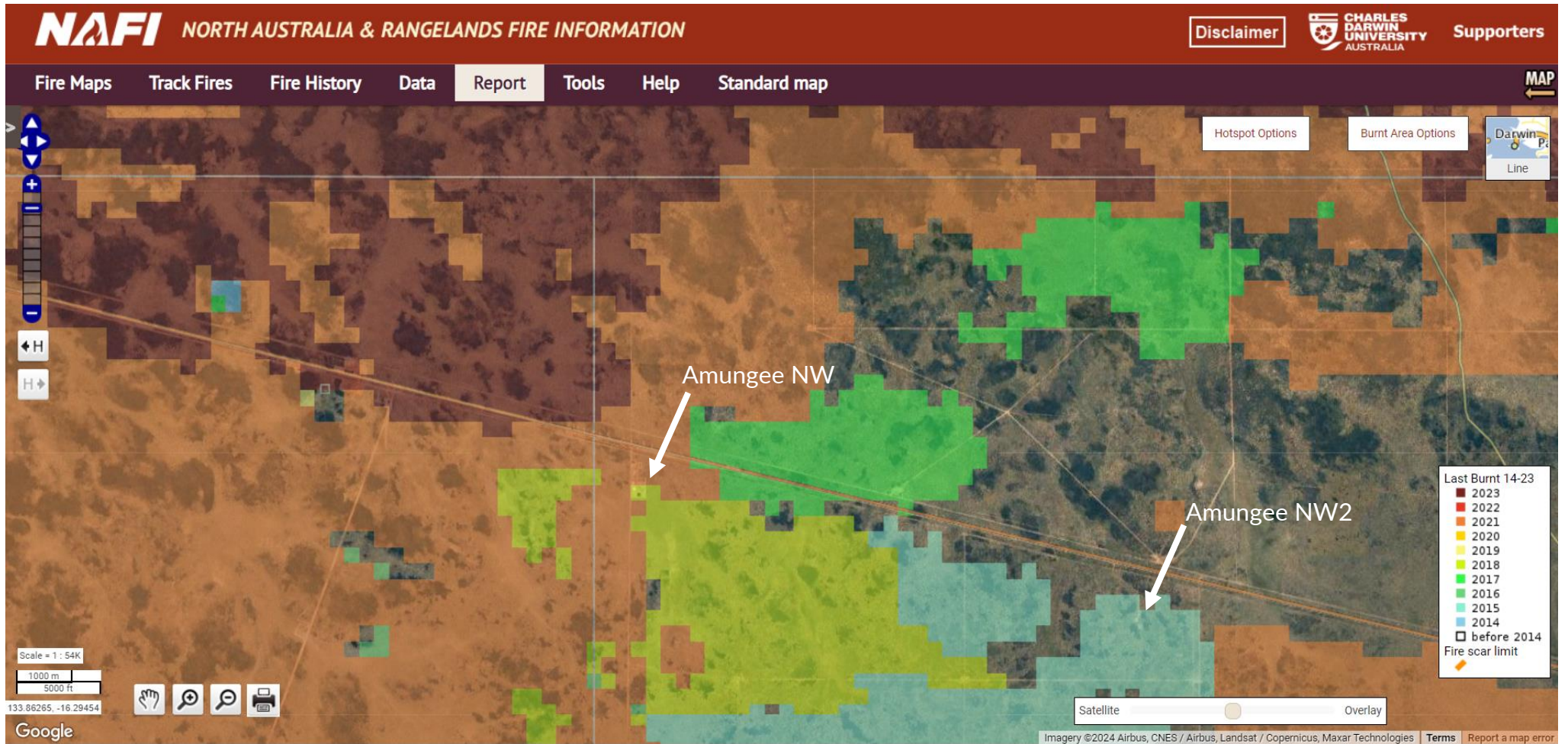
Overview of non-compliance		
<b>3. Environmental performance standards</b>		
23	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<p><i>Non-compliance with environmental performance standard?</i></p> <p><i>If yes, complete the sections below. If more than one instance, copy the rows below for each environmental performance standard not complied with.</i></p> <p><i>If no, proceed to 4. Regulatory Reporting or Record Keeping</i></p>
24	Environmental performance standard	- GW-2: No failure of wastewater tank secondary liner.
25	Summary of non-compliance	On the 24/10/2024, a leak detected on north side of C-ring tank on Amungee NW, after responding to a leak alarm. A small volume of fluid was contained on hardstand within bunded lease pad. The tank level was lowered and the leak stopped, indicating the leak was from high up in the bladder. The tank will be repaired/ removed in the 2024 dry season pending inspection outcomes.
26	Evidence used to detect non-compliance	-A leak alarm on the 23/10/2024 was inspected by an operator on the 24/10/2024 who identified the leak.
27	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<p><i>Environmental harm arising from non-compliance</i></p> <p><i>If yes, complete section below.</i></p> <p><i>If no, proceed to row 29.</i></p>
28	If yes, describe nature and scale of impact and actions to remediate and rehabilitate	-
29	If no, describe how determined no impact	-Site inspection identified a small area of wet ground. This was cleaned up, with monitoring of the leak detection system enacted.
30	<input type="checkbox"/> Yes	<i>Administrative non-compliance</i>
31	If yes, describe nature of non-compliance	-
32	Immediate corrective actions implemented	-
33	Future corrective actions to prevent reoccurrence	-
<b>4. Regulatory reporting or record keeping</b>		
34	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<p><i>Non-compliance with regulatory reporting or record keeping?</i></p> <p><i>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.</i></p> <p><i>If no, proceed to 5. Monitoring</i></p>

Overview of non-compliance		
35	Reporting or recording requirement	
36	Summary 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	<i>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.</i>
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	-



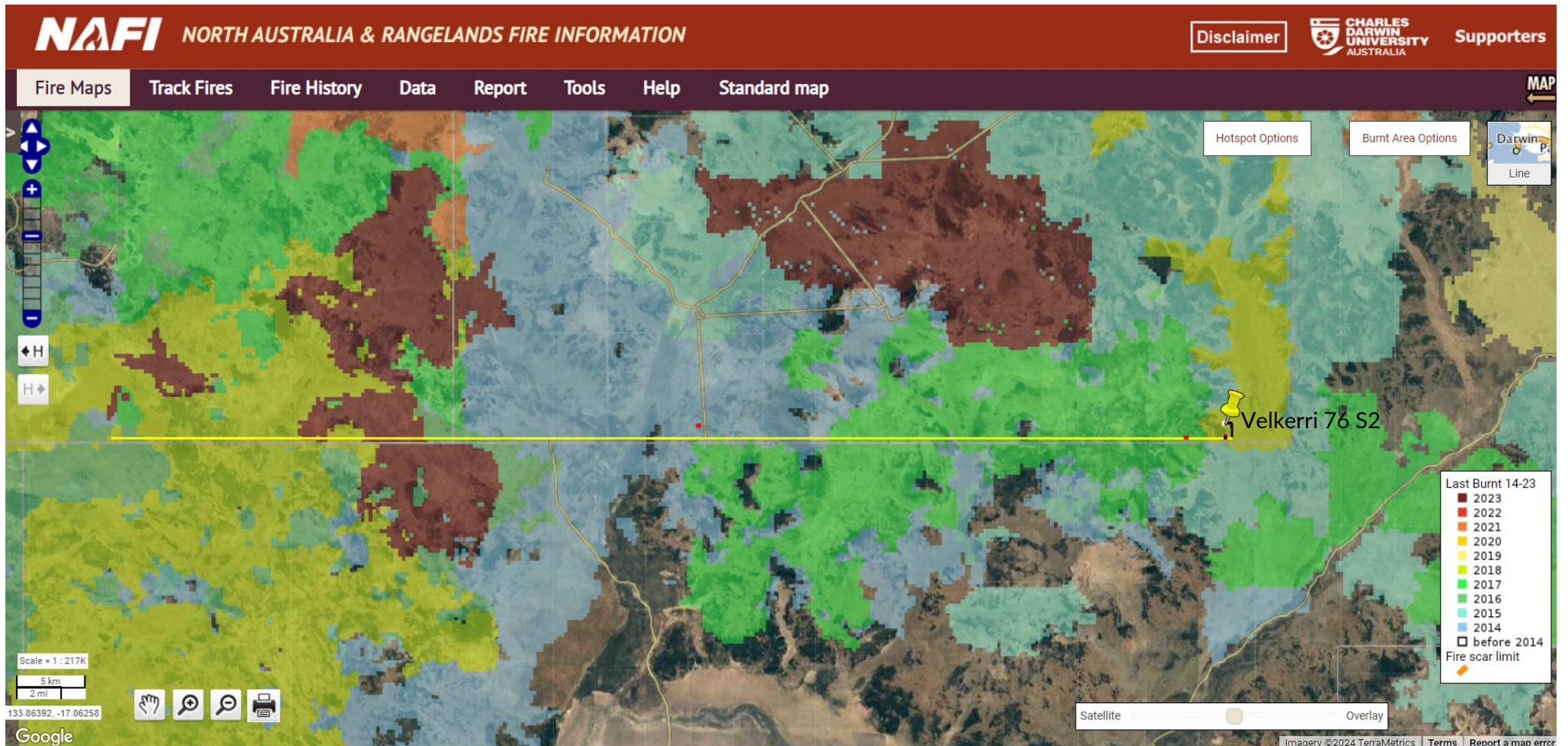
ATTACHMENT A: 2014 - 2024 NAFI fire scars in the vicinity of EMP well sites

Amungee NW and Amungee NW2 Well Sites





Velkerri 76 S2 Well Site



Last fire near Velkerri 76 S2 well site was recorded in 2020

ATTACHMENT B: Incidents for reporting period – 20 May 2023 to 19 May 2024

Incident Date	Incident Number	Actual Consequence	Potential Consequence	Consequences	Department Responsible	Location	Lat	Long	Summary	Source	Volume/Quantity Spilled/Leaked	Volume Soil Removed	Action Taken	Status
25/10/2023	INC-0000026	Minor	Moderate	Environmental	Drilling and Completions	Amungee NW-3H Well Pad	-16.346507	133.884888	Leak detected on north side of C-ring tank	Flowback waste water/rainwater	<200 L	Validation/removal of soils will be part of decommissioning dry season 2025.	<ul style="list-style-type: none"> <li>On the 24/10/2023 the tank leak detection sensor was checked and water removed from the tank liner interstitial space.</li> <li>Daily pumping of interstitial space implemented to reduce leak potential</li> <li>Planning commenced to convert the existing 5x5 and 6x7 open tanks into enclosed tanks.</li> <li>DEPWS notified by phone on 27/10/2023.</li> <li>Conversion of 5x5 commenced on 14-Nov-23.</li> <li>Conversion of 6x7 commenced on 07-Nov-23.</li> <li>Transfer of fluid from the C-ring into the converted 5x5 storage commenced on 04-Dec-23 and completed on 09-Dec-23.</li> <li>Transfer of fluid from the C ring into the converted 6x7 storage commenced on 14-Dec-23 and completed on 18-Dec-23.</li> <li>Ongoing management over 2024, with updated to DEPWS via email and in monthly report.</li> <li>C-ring being decommissioned. Majority product remaining has been transferred to covered storage as at 26-Sep-24. Liner to be removed by November 2024.</li> </ul> <ol style="list-style-type: none"> <li>Leak detection and inspection program worked as per design and was effective.</li> <li>Ongoing maintenance of tank while undergoes investigation with additional controls implemented during 2024.</li> <li>Termite treatment applied around tank as a precautionary measure until the tank can be inspected to determine liner failure mechanism.</li> <li>Tank to be decommissioned and waste removed off site by licenced contractor and soils validation samples conducted to confirm if impacted well pad.</li> </ol>	Investigation/Decommissioning
13/10/2023	INC-0000022	Minor	Moderate	Environmental	Drilling and Completions	Amungee NW-3H Well Pad	-16.3475926	133.8851063	Drilling fluid spilled onto lease from pump after camlock was not fitted correctly.	Drilling fluid	800 L	2 m3 (2m x 2m x 0.5m)	<ol style="list-style-type: none"> <li>Pump was stopped, hose re-fitted (this time with locking band around cam lock levers), incident reported to Night OCR.</li> <li>The spill was immediately cleaned up - the vac truck was used to recover the fluid from the bund and ground surface. Excess that could not be sucked up was scrapped up with</li> </ol>	Closed

													shovels. All soil and waste liquid disposed of in mud sump. 3. Contractors' fluid transfer procedure reviewed by site team. 4. All cam locks and levers to be inspected to confirm equipment is in good working order. 5. Discussion held with all personnel onsite to reinforce Tamboran's expectations in respect to following of procedures.	
11/10/2023	INC-0000042	Minor	Minor	Environmental	Drilling and Completions	Amungee NW-3H Well Pad	-16.347606	133.885842	Incorrectly stored chemical during drilling operations - CaCO3	Non-hazardous dry CaCO3	15 L	0.1 m3 (1m x 1m x 0.1m)	1. Chemical storage was located to an appropriately bunded storage area. 2. Spilled material was cleaned up (swept and shovelled) and disposed of in the mud sump. 3. Discussion held with all personnel onsite to reinforce Tamboran's expectations in respect to following of procedures.	Closed
26/09/2023	INC-0000020	Minor	Minor	Environmental	Drilling and Completions	Amungee NW3 3H Well Pad	-16.3472516	133.885973	Drilling fluid spilled onto well pad during transfer after cement job	Drilling Fluid	190 L	1.9 m3 (7.5*2.5*0.1)	1. Flow was stopped, OCR notified and clean up commenced. 2. The fluid was sucked up using vac truck and emptied into above ground sump along with surface soils to the drilling sump. 3. No residue remaining on well pad post clean up. 4. Review of procedures during fluid transfer.	Closed