

**BEETALOO BASIN GROUNDWATER  
MONITORING BORE INSTALLATION  
PROGRAM EP 98 EP 117**  
Annual Environmental Performance Report

**Tamboran B2 Pty Ltd**


**Document Details**

<b>Document title</b>	Beetaloo Basin Groundwater Monitoring Bore Installation Program EP 98, EP 117 Annual Environmental Performance Report
<b>EMPs Covered</b>	Beetaloo Basin Groundwater Monitoring Bore Installation Program, EP 98 Beetaloo Basin Groundwater Monitoring Bore Installation Program, EP 117
<b>Permit</b>	EP 98 and EP 117
<b>Interest holder details</b>	Tamboran B2 Pty Ltd ABN 42 105 431 525
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<b>Approved by</b>	Matt Kernke: Environment and Approvals Manager
<b>Date approved</b>	22 February 2023

**Version History**

Rev	Date	Reason for issue	Reviewer	Approver
0	22 January 2023	Issued for Approval	LP	MK

**Signature and certification**

I hereby declare that the information provided in this annual environment performance report and accompanying documents is to the best of my/our knowledge, true and correct.	
<b>Signature</b>	
<b>Name</b>	Matt Kernke
<b>Position</b>	Environment and Approvals Manager
<b>Date</b>	22 January 2023

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## 1. Introduction

The Northern Territory (NT) Petroleum (Environment) Regulations 2016 (the Regulations) include a requirement<sup>1</sup> for the interest holder to provide a report to the Minister on an annual basis that outlines the environmental performance of regulated activities. The Annual Environment 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). The report is to consider information required to be recorded, monitored or reported under the Regulations and any other law in force in the NT related to conduct of the regulated activity.

This AEPR covers the regulated activities approved under the following EMPs:

- Beetaloo Basin Groundwater Monitoring Bore Installation Program EP 98 approved 22/11/2018
- Beetaloo Basin Groundwater Monitoring Bore Installation Program Kyalla 117 approved 10/12/2018
  - monitoring bore lease pad modification, submitted 19/02/2019
  - gravel pit modification submitted 28/06/2019
  - gravel pit modification submitted 11/07/2019
  - gravel pit modification submitted 07/08/2020.

The AEPR covers the following reporting periods, as reported by Tamboran B2 Pty Ltd (Tamboran):

- Beetaloo Basin Groundwater Monitoring Bore Installation Program EP 98: 23 Nov 2021 – 22 Nov 2022
- Beetaloo Basin Groundwater Monitoring Bore Installation Program Kyalla EP 117 11 Dec 2021 – 10 Dec 2022

### 1.1 Acronyms and abbreviations

Table 1 Summary of acronyms and abbreviations

Acronym	Definition
AAPA	Aboriginal Areas Protection Authority
AEPR	Annual Environment Performance Report
CMS	Compliance management system
Code	Code of Practice: Onshore Petroleum Activities in the Northern Territory
DEPWS	Department of Environment, Parks and Water Security
DITT	Department of Industry, Tourism and Trade
EMP	Environment management plan
FTP	File Transfer Protocol
ha	hectare
NT	Northern Territory
Regulations	Petroleum (Environment) Regulations 2016

### 1.2 Background

The regulated activities that have been undertaken during the reporting period and are assessed under this AEPR are as follows:

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

- Groundwater Monitoring Bore Installation EP 98
  - No regulated activities under this EMP.
- Groundwater Monitoring Bore Installation Program EP 117
  - Maintenance of the existing access track between the Stuart highway and Kyalla 117 N2-1 site.
  - Maintenance of approximately 500m access tracks connecting the site to the existing pastoralist access track and between the monitoring bore lease pads
  - Ongoing operation of gravel pit A and gravel pit 3 to support access track maintenance

The location of the regulated activities is provided in **Error! Reference source not found.** and Figure 2.

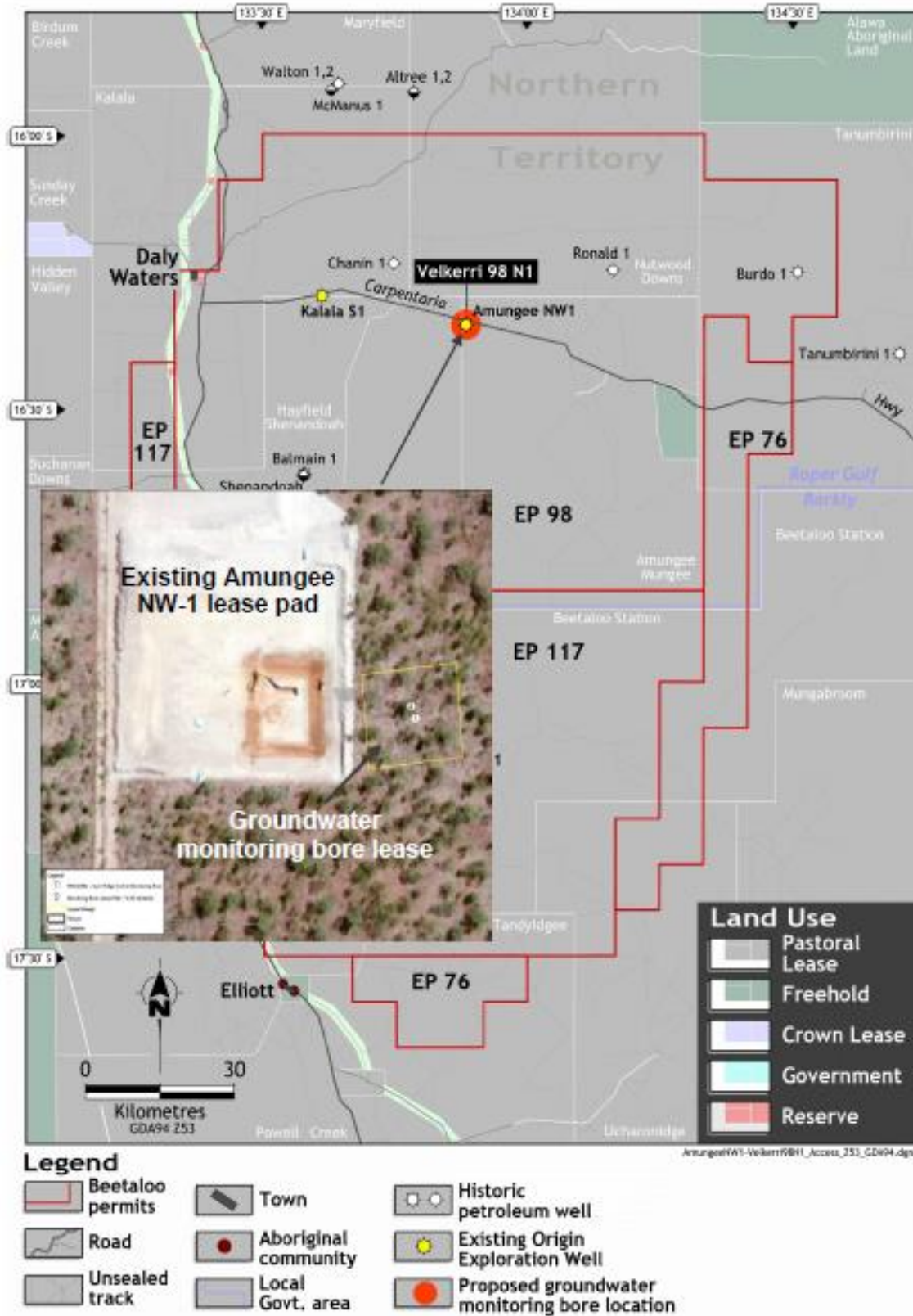


Figure 1 Amungee NW-1 Lease (Beetaloo Basin groundwater monitoring bore installation program EP 98)

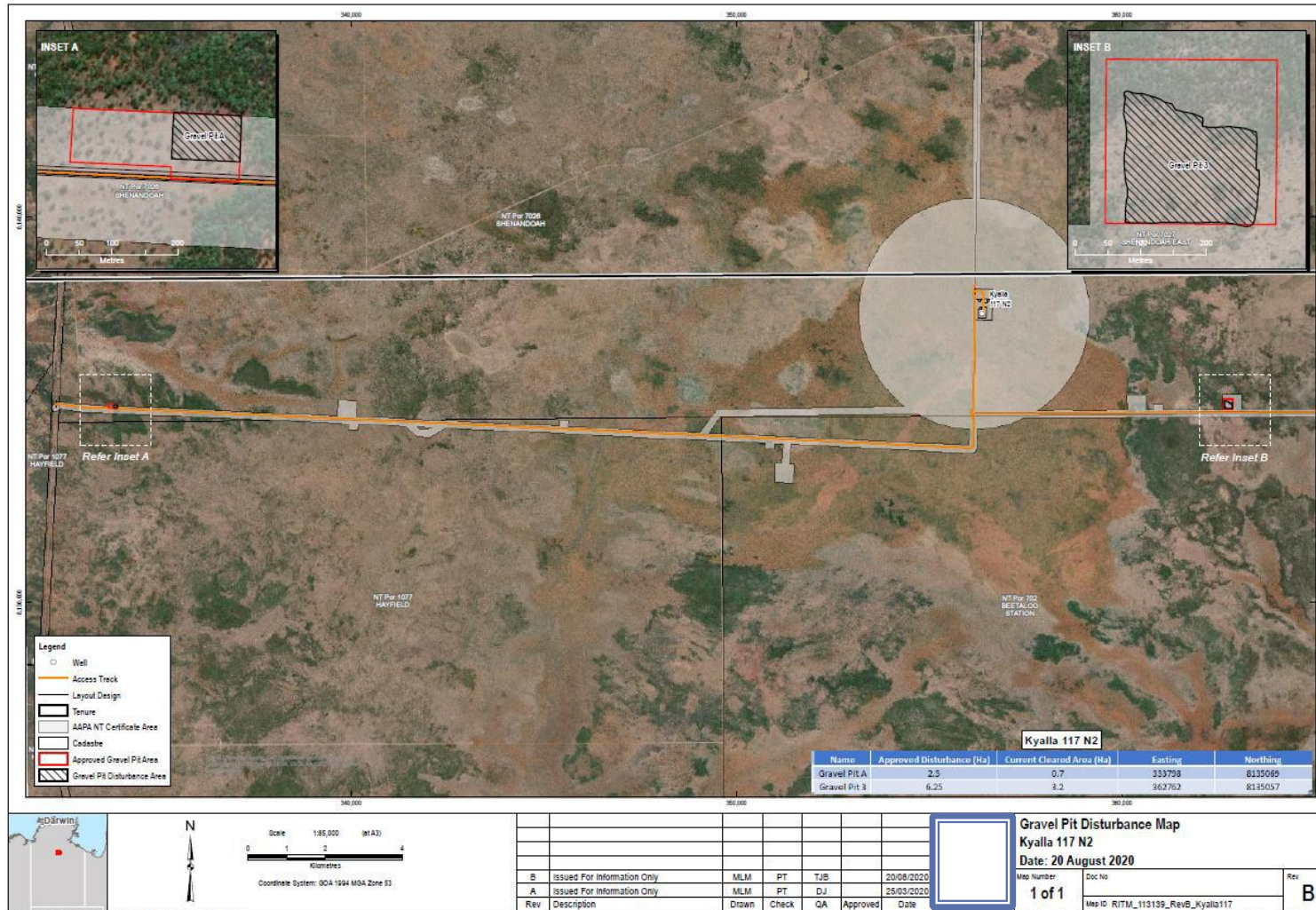


Figure 2 Location of the Kalala S-1 well and proposed regulated activities on Kalala S site

### 1.3 Contents of performance report

This AEPR describes the environmental performance of the interest holder by evaluation of the following:

1. Compliance with Ministerial approval conditions, for the EMP.
2. Compliance with each environmental outcome and environmental performance standard within the approved EMP.
3. Compliance with reporting requirements in accordance with the Code and Regulations.
4. All recordable and reportable incidents, including root cause analysis and related corrective actions to prevent re-occurrence.
5. Findings of all regulatory inspections and audits and related actions to address any findings.

### 1.4 Assessment of compliance

Table 2 shows the compliance status indicators used in this AEPR which have been defined by the Department of Environment, Parks and Water Security (DEPWS).

**Table 2 Compliance descriptors**

Indicator	Description
Compliant	Compliant with requirement for entire 12-month reporting period
Not compliant	Interest holder did not comply with the requirement during the reporting period
Not applicable	Requirement not applicable during the reporting period

### 1.5 Evidence of compliance

The following sources of evidence are used to demonstrate compliance:

1. Internal monitoring of compliance by the interest holder.
2. Outcomes from regulatory inspection(s) conducted by the DEPWS, Petroleum Operations.
3. Recordable and reportable incident reports submitted to DEPWS Petroleum Operations.
4. Reports provided to DEPWS, DITT and other government agencies.

## 2. Demonstration of Compliance

### 2.1 Ministerial condition compliance

Table 3 demonstrates Tamboran's compliance with Ministerial EMP approval conditions.

**Table 3 Ministerial condition summary table**

No	Ministerial condition	Compliance Status	Evidence
<b>Beetaloo Basin Groundwater Monitoring Bore Installation Program EP 98</b>			
2a	Water monitoring bores will be drilled and constructed by a water bore driller licensed under the Water Act and in accordance with the current version of the Minimum Construction Requirements for Water bores in Australia.	Not applicable	No groundwater monitoring bores were drilled during the reporting period.



No	Ministerial condition	Compliance Status	Evidence
2b	The groundwater bore installation must be completed within 12 months from the date of this approval.	Not applicable	All bores were completed in 2018 as evidenced by the statement of bore submitted to the NT Water Resources division of DEPWS by Allwell drilling upon completion of the bore.
<b>Beetaloo Basin Groundwater Monitoring Bore Installation Program Kyalla EP 117</b>			
2a	Water monitoring bores will be drilled and constructed by a water bore driller licensed under the Water Act and in accordance with the current version of the Minimum Construction Requirements for Water bores in Australia.	Not applicable	No groundwater monitoring bores were drilled during the reporting period.
2b	The groundwater bore installation must be completed within 12 months from the date of this approval.	Not applicable	All bores were completed in 2019 as evidenced by the statement of bore submitted to the NT Water Resources division of DEPWS by Allwell drilling upon completion of the bore.

## 2.2 Environmental outcomes and performance standards

Table 4 provides a systematic overview of compliance with the environmental outcomes and environmental performance standards within the approved EMP(s).

**Table 4 Environmental outcome and performance standard compliance summary**

#	Environmental outcomes	Environmental Performance Standard	Compliance	Evidence
<b>Beetaloo Basin Groundwater Monitoring Bore Installation Program EP98</b>				
1	<ul style="list-style-type: none"> <li>Minimise disturbance to land and land use (including soils and terrain, flora and fauna).</li> </ul>	<ul style="list-style-type: none"> <li>Land disturbance restricted to approved, scouted area.</li> </ul>	Not applicable	<ul style="list-style-type: none"> <li>No additional clearing undertaken during reporting period.</li> </ul>
2	<ul style="list-style-type: none"> <li>Protection of waterways.</li> <li>Avoid site contamination and remediate land areas disturbed by water bore drilling activities, including contaminated land.</li> <li>Optimise (in order of most to least preferable) waste avoidance, reduction, reuse, recycling, treatment and disposal and remove and disposal of regulated waste as soon as practicable to a licensed waste disposal facility or recycling facility.</li> </ul>	<ul style="list-style-type: none"> <li>Areas left uncontaminated, safe, stable and non-polluting</li> </ul>	Compliant	<ul style="list-style-type: none"> <li>Contracts are in place to perform monthly inspection and maintenance, with email correspondence / billing and periodic site visits by staff confirm maintenance is occurring.</li> <li>No incident raised regarding erosion causing offsite sediment releases.</li> </ul>
3	<ul style="list-style-type: none"> <li>Minimise impacts to groundwater and maintain surface and groundwater values.</li> <li>Minimise erosion and sedimentation of waters as a result of water bore drilling activities.</li> </ul>	<ul style="list-style-type: none"> <li>No unacceptable risk or long-lasting change to surface and/or groundwater resources (quantity and quality).</li> </ul>	Compliant	<ul style="list-style-type: none"> <li>Groundwater monitoring results collected from monitoring bores and submitted to DEPWS periodically. Monitoring bore results confirm the encountered water quality is consistent with the expected Rum Ridge water quality.</li> </ul>

#	Environmental outcomes	Environmental Performance Standard	Compliance	Evidence
4		<ul style="list-style-type: none"> <li>No release of site stormwater or wastewater exceeding baseline surface water quality</li> </ul>	Compliant	<ul style="list-style-type: none"> <li>Site was stabilised with erosion and sediment controls implemented. These are primarily earthen berms, use of fallen vegetation to dampen water velocity and natural vegetation of the site. Stormwater retained onsite as the monitoring bore lease is surrounded by topsoil stockpiles minimising stormwater release.</li> <li>No incidents relating to releases of wastewater to surface water recorded.</li> </ul>
5		<ul style="list-style-type: none"> <li>No long-lasting change in soil and surface water quality from base line conditions.</li> </ul>	Compliant	<ul style="list-style-type: none"> <li>No incidents of soil contamination or releases to surface water recorded.</li> </ul>
6		<ul style="list-style-type: none"> <li>Stream and creek crossings disturbance minimised.</li> </ul>	Not applicable	<ul style="list-style-type: none"> <li>No clearing has occurred during the reporting period</li> </ul>
7	<ul style="list-style-type: none"> <li>Minimise disturbance to flora and fauna.</li> <li>Minimise disturbance to sensitive areas.</li> </ul>	<ul style="list-style-type: none"> <li>Monitoring bore lease located to minimise impacts to fauna habitat and sensitive vegetation.</li> </ul>	Compliant	<ul style="list-style-type: none"> <li>Disturbance located in approved area adjacent to existing lease pad.</li> </ul>
8		<ul style="list-style-type: none"> <li>No native fauna impacts (injury or fatality) reported in OCIS during civil and water bore drilling related activities</li> </ul>	Not applicable	<ul style="list-style-type: none"> <li>No civil construction or water bore drilling activities undertaken during the reporting period.</li> </ul>
9		<ul style="list-style-type: none"> <li>Security bond maintained until such time DPIR is satisfied remediation of site.</li> </ul>	Compliant	<ul style="list-style-type: none"> <li>Security bond submitted to DPIR and approved 19/11/2018.</li> </ul>
10		<ul style="list-style-type: none"> <li>No loss of sensitive vegetation resulting from [the] activities.</li> </ul>	Not applicable	<ul style="list-style-type: none"> <li>No clearing in waterways has occurred during the reporting period.</li> </ul>
11	<ul style="list-style-type: none"> <li>Avoid the introduction of weeds</li> <li>Avoid the spread of existing weeds</li> </ul>	<ul style="list-style-type: none"> <li>No introduction or spread of declared weeds resulting from [the] activities.</li> </ul>	Compliant	<ul style="list-style-type: none"> <li>Annual weed monitoring report for 2021 – 2022 was submitted to DEPWS on 17 November 2022.</li> </ul>

#	Environmental outcomes	Environmental Performance Standard	Compliance	Evidence
12	<ul style="list-style-type: none"> <li>To minimise impacts on soil, surface water, groundwater, sensitive habitat and air quality.</li> </ul>	<ul style="list-style-type: none"> <li>Waste registers maintained for the duration of the project.</li> </ul>	Compliant	<ul style="list-style-type: none"> <li>Waste data provided as a part of monthly HSE reports.</li> <li>No material listed waste produced during water bore drilling activity, with no equipment maintenance activities completed onsite. Any incidental listed waste (such as oily rags, batteries etc. that is of insufficient quantity for a listed waste contractor to be engaged) is backloaded Darwin and removed by the contractor's listed waste service provider once volumes are sufficient.</li> </ul>
13	<ul style="list-style-type: none"> <li>To minimise creation of food sources or habitat for pest species.</li> </ul>	<ul style="list-style-type: none"> <li>Pest species not encouraged to the site.</li> </ul>	Not applicable	<ul style="list-style-type: none"> <li>Not applicable, no camp or waste storage activities undertaken during the reporting period.</li> </ul>
14	<ul style="list-style-type: none"> <li>To minimise waste generation through reduce, reuse, recycle programs.</li> </ul>	<ul style="list-style-type: none"> <li>The absence of wastes remaining on site at completion of operations (i.e. general rubbish, waste chemicals, workshop wastes including oily rags, containers etc.).</li> </ul>	Compliant	<ul style="list-style-type: none"> <li>Area inspected by Origin staff post activity close out confirming all waste removed and erosion and sediment controls in place.</li> <li>Task observations completed by site supervisors</li> </ul>
15	<ul style="list-style-type: none"> <li>Minimise environmental nuisance due to dust for sensitive receptors resulting from Origin's activities. Minimise greenhouse gas emissions.</li> </ul>	<ul style="list-style-type: none"> <li>Minimal complaints regarding dust/air quality.</li> </ul>	Not applicable	<ul style="list-style-type: none"> <li>No construction activities undertaken during the reporting period.</li> </ul>
16		<ul style="list-style-type: none"> <li>Amicable resolution of complaints</li> </ul>	Not applicable	<ul style="list-style-type: none"> <li>No pastoralist complaints recorded during activity recorded.</li> </ul>
17	<ul style="list-style-type: none"> <li>Minimise the environmental nuisance for sensitive receivers as a result of civil and water bore activities, including</li> </ul>	<ul style="list-style-type: none"> <li>Minimal nuisance-related complaints received from sensitive receptors, including landowners</li> </ul>	Compliant	<ul style="list-style-type: none"> <li>No pastoralist complaints recorded during the reporting period.</li> </ul>

#	Environmental outcomes	Environmental Performance Standard	Compliance	Evidence
18	Tourist visual amenity.	<ul style="list-style-type: none"> <li>Amicable resolution of complaints.</li> </ul>	Not applicable	<ul style="list-style-type: none"> <li>No pastoralist complaints recorded during the reporting period.</li> </ul>
19	<ul style="list-style-type: none"> <li>Minimise the risk of causing bushfires from Origin's activities.</li> <li>To minimise impacts on environmental habitat and fauna, soil erosion, impacts on stakeholders, impacts on culturally significant sites, public infrastructure and community lands.</li> <li>To ensure proper health and safety plan for activities.</li> <li>To prevent accidental fire risk and ensure safe storage of chemicals to prevent fire damage</li> </ul>	<ul style="list-style-type: none"> <li>Successful fire management will be indicated by having no uncontrolled fires occurring as a result of civil works and water bore drilling activities.</li> </ul>	Not applicable	<ul style="list-style-type: none"> <li>No civil construction or water bore drilling completed during the report period.</li> </ul>
20	<ul style="list-style-type: none"> <li>To avoid disturbance of or damage to Aboriginal or cultural heritage artefacts or Sacred Sites.</li> <li>To minimise impacts upon or disruption to activities of Indigenous stakeholders in culturally significant areas.</li> <li>To ensure adequate background information and training is provided to employees and contractors working in culturally significant areas.</li> <li>To ensure that the health</li> </ul>	<ul style="list-style-type: none"> <li>No incidences of 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>	Not applicable	<ul style="list-style-type: none"> <li>No disturbance or civil construction or water bore drilling completed during the reporting period.</li> </ul>

#	Environmental outcomes	Environmental Performance Standard	Compliance	Evidence
	and safety of exploration workers and the community is not compromised through management of cultural and environmental awareness.			
21	<ul style="list-style-type: none"> <li>Minimise impacts upon environmental values of the local community.</li> <li>Minimise impacts on cultural heritage.</li> </ul>	<ul style="list-style-type: none"> <li>No unresolved reasonable complaints. - An overall social and economic benefit as compared to perceived adverse impacts as derived from consultations with community advisory groups</li> </ul>	Compliant	<ul style="list-style-type: none"> <li>No complaints received from the determined Traditional Owners. recorded.</li> <li>Local Aboriginal contractors used for ongoing site inspections and maintenance.</li> </ul>
22	<ul style="list-style-type: none"> <li>Minimise safety risks to the public and other third parties.</li> <li>Maintain and enhance partnerships with the local community, including using local contractors.</li> </ul>	<ul style="list-style-type: none"> <li>High level of satisfaction with complaint outcomes and complaint resolution processes.</li> </ul>	Not applicable	<ul style="list-style-type: none"> <li>No complaints received from the host Traditional Owners recorded.</li> </ul>
23		<ul style="list-style-type: none"> <li>Where suitable, include Aboriginal employment in the proposed program.</li> </ul>	Compliant	<ul style="list-style-type: none"> <li>Local Aboriginal contractors used for ongoing site inspections and maintenance.</li> </ul>
<b>Beetaloo Basin Groundwater Monitoring Bore Installation Program Kyalla EP 117</b>				
1	<ul style="list-style-type: none"> <li>Minimise disturbance to land and land use (including soils and terrain, flora and fauna).</li> </ul>	<ul style="list-style-type: none"> <li>Land disturbance equal to or less than planned.</li> </ul>	Not applicable	<ul style="list-style-type: none"> <li>No disturbance or civil construction or water bore drilling completed during the reporting period.</li> </ul>

#	Environmental outcomes	Environmental Performance Standard	Compliance	Evidence
2	<ul style="list-style-type: none"> <li>Protection of waterways.</li> <li>Avoid site contamination and remediate land areas disturbed by water bore drilling activities, including contaminated land.</li> <li>Optimise (in order of most to least preferable) waste avoidance, reduction, reuse, recycling, treatment and disposal and remove and disposal of regulated waste as soon as practicable to a licensed waste disposal facility or recycling facility.</li> </ul>	<ul style="list-style-type: none"> <li>Minimum incidences of erosion and sedimentation occurring.</li> </ul>	Compliant	<ul style="list-style-type: none"> <li>No material incidents of erosion and sediment control identified or recorded during the reporting period.</li> <li>Task observations completed by site supervisors identifying erosion and sediment hazards and controls.</li> <li>Observation data available identifying maintenance required for minor erosion works.</li> <li>Contractor maintenance requests confirm maintenance of site completed.</li> </ul>
3	<ul style="list-style-type: none"> <li>Return disturbed areas to a stable condition such that they are returned to a condition as close as practicable to the surrounding area (or pre-disturbance state) within an acceptable time frame.</li> </ul>	<ul style="list-style-type: none"> <li>Areas left safe, stable and non-polluting</li> </ul>	Compliant	<ul style="list-style-type: none"> <li>Area is currently operational and has been incorporated into the main Kyalla 117 N2 lease pad with no material incidents of erosion identified beyond normal operations.</li> </ul>
4	<ul style="list-style-type: none"> <li>Minimise impacts to groundwater and maintain surface and groundwater values.</li> <li>Minimise erosion and sedimentation of waters as a result of water bore drilling activities</li> </ul>	<ul style="list-style-type: none"> <li>No unacceptable risk or long-lasting change to surface and/or groundwater resources (quality and quantity)</li> </ul>	Compliant	<ul style="list-style-type: none"> <li>Water quality data is provided to DEPWS quarterly.</li> <li>Water quality data does not indicate any material changes in water quality or level from water monitoring bore installation activities.</li> </ul>

#	Environmental outcomes	Environmental Performance Standard	Compliance	Evidence
5		<ul style="list-style-type: none"> <li>No release of site stormwater or wastewater exceeding baseline surface water quality</li> </ul>	Not applicable	<ul style="list-style-type: none"> <li>The Kyalla 117 monitoring bore lease pad has been integrated into the broader Kyalla 117 N2-1 site. The larger site is fully bunded with offsite releases monitored and recorded as per the drilling, stimulation and well testing EMP.</li> </ul>
6		<ul style="list-style-type: none"> <li>No long-lasting change in soil and surface water quality from base line conditions.</li> </ul>	Not applicable	<ul style="list-style-type: none"> <li>No incidents of spills or soil contamination or releases to surface water recorded during the reporting period.</li> </ul>
7		<ul style="list-style-type: none"> <li>Stream and creek crossings disturbance minimised.</li> </ul>	Not applicable	<ul style="list-style-type: none"> <li>No construction in stream crossings during the reporting period.</li> </ul>
8	<ul style="list-style-type: none"> <li>Minimise disturbance to flora and fauna.</li> <li>Minimise disturbance to sensitive areas.</li> </ul>	<ul style="list-style-type: none"> <li>Monitoring bore lease located to minimise impacts to fauna habitat and sensitive vegetation</li> </ul>	Not applicable	<ul style="list-style-type: none"> <li>No impacts to sensitive flora or fauna recorded during the reporting period.</li> </ul>
9		<ul style="list-style-type: none"> <li>No native fauna impacts (injury or fatality) reported in OCIS during civil and water bore drilling related activities.</li> </ul>	Compliant	<ul style="list-style-type: none"> <li>No incidents of fauna mortality associated with water bore drilling activities recorded during the reporting period.</li> </ul>
10		<ul style="list-style-type: none"> <li>Security bond maintained until such time DPIR is satisfied remediation of site.</li> </ul>	Compliant	<ul style="list-style-type: none"> <li>Security bond submitted to DPIR 19/11/2018. Security bond is in place.</li> </ul>
11		<ul style="list-style-type: none"> <li>No loss of sensitive vegetation resulting from Origin's activities.</li> </ul>	Not applicable	<ul style="list-style-type: none"> <li>No impacts to sensitive flora or fauna recorded during the reporting period.</li> </ul>



#	Environmental outcomes	Environmental Performance Standard	Compliance	Evidence
12	<ul style="list-style-type: none"> <li>Avoid the introduction of weeds</li> <li>Avoid the spread of existing weeds</li> </ul>	<ul style="list-style-type: none"> <li>No introduction or spread of declared weeds resulting from Origins activities</li> </ul>	Compliant	<ul style="list-style-type: none"> <li>Annual weed monitoring report for 2021 – 2022 was submitted to DEPWS on 17 November 2022.</li> </ul>
13	<ul style="list-style-type: none"> <li>To minimise impacts on soil, surface water, groundwater, sensitive habitat and air quality.</li> <li>To minimise creation of food sources or habitat for pest species.</li> </ul>	<ul style="list-style-type: none"> <li>The absence of wastes remaining on site at completion of operations (i.e. general rubbish, waste chemicals, workshop wastes including oily rags, containers etc.).</li> </ul>	Compliant	<ul style="list-style-type: none"> <li>All rubbish from the site has been removed, with the site incorporated into the larger Kyalla 117 N2 lease. The Kyalla 117 N2 site is now an operational site.</li> <li>No material listed waste produced during ongoing maintenance work.</li> </ul>
14	<ul style="list-style-type: none"> <li>To minimise waste generation through reduce, reuse, recycle programs.</li> </ul>	<ul style="list-style-type: none"> <li>Waste registers maintained for the duration of the project</li> </ul>	Compliant	<ul style="list-style-type: none"> <li>Waste data reported in monthly HSE reports.</li> <li>No material listed waste produced during ongoing access track maintenance works.</li> </ul>
15		<ul style="list-style-type: none"> <li>Pest species not encouraged to the site.</li> </ul>	Not applicable	<ul style="list-style-type: none"> <li>No pest species recorded during the reporting period.</li> <li>The site is in maintenance.</li> </ul>
16	<ul style="list-style-type: none"> <li>Minimise environmental nuisance due to dust for sensitive receptors resulting from Origin's activities.</li> </ul>	<ul style="list-style-type: none"> <li>Minimal complaints regarding dust/air quality.</li> </ul>	Not applicable	<ul style="list-style-type: none"> <li>No activities occurred during the reporting period.</li> </ul>
17	<ul style="list-style-type: none"> <li>Minimise greenhouse gas emissions</li> </ul>	<ul style="list-style-type: none"> <li>Amicable resolution of complaints</li> </ul>	Not applicable	<ul style="list-style-type: none"> <li>No complaints received regarding dust/air quality from this activity recorded during the reporting period.</li> </ul>
18	<ul style="list-style-type: none"> <li>Minimise the environmental nuisance for sensitive receivers as a result of civil and water bore activities, including Tourist visual amenity</li> </ul>	<ul style="list-style-type: none"> <li>Minimal nuisance-related complaints received from sensitive receptors, including landowners</li> </ul>	Compliant	<ul style="list-style-type: none"> <li>No complaints received regarding dust/air quality from this activity recorded during the reporting period.</li> </ul>

#	Environmental outcomes	Environmental Performance Standard	Compliance	Evidence
19		<ul style="list-style-type: none"> <li>Amicable resolution of complaints</li> </ul>	Not applicable	<ul style="list-style-type: none"> <li>No complaints received regarding dust/air quality from this activity recorded in Origin's incident management system.</li> </ul>
20	<ul style="list-style-type: none"> <li>Minimise the risk of causing bushfires from Origin's activities.</li> <li>To minimise impacts on environmental habitat and fauna, soil erosion, impacts on stakeholders, impacts on culturally significant sites, public infrastructure and community lands.</li> <li>To ensure proper health and safety plan for activities.</li> <li>To prevent accidental fire risk and ensure safe storage of chemicals to prevent fire damage.</li> </ul>	<ul style="list-style-type: none"> <li>Successful fire management will be indicated by having no uncontrolled fires occurring as a result of civil works and water bore drilling activities.</li> </ul>	Compliant	<ul style="list-style-type: none"> <li>No incidents of fire resulting from groundwater monitoring bore installation recorded during the reporting period.</li> </ul>

#	Environmental outcomes	Environmental Performance Standard	Compliance	Evidence
21	<ul style="list-style-type: none"> <li>To avoid disturbance of or damage to Aboriginal or cultural heritage artefacts or Sacred Sites.</li> <li>To minimise impacts upon or disruption to activities of Indigenous stakeholders in culturally significant areas.</li> <li>To ensure adequate background information and training is provided to employees and contractors working in culturally significant areas.</li> <li>To ensure that the health and safety of exploration workers and the community is not compromised through management of cultural and environmental awareness.</li> </ul>	<ul style="list-style-type: none"> <li>No incidences of 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>	Compliant	<ul style="list-style-type: none"> <li>All activities undertaken within AAPA approved areas.</li> </ul>
22	<ul style="list-style-type: none"> <li>Minimise impacts upon environmental values of the local community.</li> <li>Minimise impacts on cultural heritage.</li> </ul>	<ul style="list-style-type: none"> <li>An absence of issues arising, which have the potential to affect the work program, is a good indication of successful communications</li> </ul>	Compliant	<ul style="list-style-type: none"> <li>No complaints received from local community or determined Traditional Owners recorded during the reporting period.</li> </ul>
23	<ul style="list-style-type: none"> <li>Minimise safety risks to the public and other third parties.</li> </ul>	<ul style="list-style-type: none"> <li>No unresolved reasonable complaints</li> </ul>	Not applicable	<ul style="list-style-type: none"> <li>No complaints received from local community or determined Traditional Owners recorded during the reporting period.</li> </ul>
24	<ul style="list-style-type: none"> <li>Maintain and enhance partnerships with the local community, including using local contractors</li> </ul>	<ul style="list-style-type: none"> <li>An overall social and economic benefit as compared to perceived adverse impacts as derived from consultations</li> </ul>	Compliant	<ul style="list-style-type: none"> <li>All civil maintenance activities completed by local NT companies.</li> <li>Weed inspection activities completed by local indigenous contractors</li> </ul>

#	Environmental outcomes	Environmental Performance Standard	Compliance	Evidence
		with community advisory groups		
25		<ul style="list-style-type: none"> <li>High level of satisfaction with complaint outcomes and complaint resolution processes.</li> </ul>	Not applicable	<ul style="list-style-type: none"> <li>No complaints received from local community or determined Traditional Owners recorded during the reporting period.</li> </ul>
26		<ul style="list-style-type: none"> <li>Where suitable, include Aboriginal employment in the proposed program.</li> </ul>	Compliant	<ul style="list-style-type: none"> <li>Local aboriginal contractors with 100% aboriginal employees are used for all weed inspections, general site inspections and ongoing maintenance.</li> </ul>

## 2.3 Mandatory reporting requirements

Table 5 demonstrates compliance with reporting requirements in the Code and interest holder's compliance with reporting requirements under the Regulations, schedule 1, item 11(2) – i.e. that all information to be recorded, monitored or reported has been provided. Where relevant, Tamboran has also confirmed that all records, monitoring or required reporting under the Regulations<sup>2</sup> has been provided to DEPWS or the relevant NTG agency.

**Table 5 Summary of mandatory reporting requirements**

#	Reference	Requirement	Compliance Status	Evidence
1	Code A.3.5	Geospatial information depicting areas cleared is to be provided to the Minister.	Not applicable	<ul style="list-style-type: none"> <li>• GIS data of disturbance submitted to DEPWS in accordance with EMP approval.</li> <li>• No activities have occurred on the sites during the reporting period(s).</li> </ul>
2	Code A.3.6 (b)	Weed management plan developed as part of the EMP must provide for ongoing weed monitoring.	Not applicable	<ul style="list-style-type: none"> <li>• Weed management plans were submitted to DEPWS in accordance with EMP approvals.</li> <li>• Annual weed monitoring report for 2021 – 2022 was submitted to DEPWS on 17 November 2022</li> <li>• No activities have occurred on the sites during the reporting period(s).</li> </ul>
3	Code A.3.7(a)vi	The fire management plan developed as part of the EMP must provide for annual fire mapping to monitor changes to fire frequency in the relevant areas.	Not applicable	<ul style="list-style-type: none"> <li>• A fire management plans were submitted to o DEPWS in accordance with EMP approval.</li> <li>• No activities have occurred on site during the reporting period(s).</li> </ul>

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

#	Reference	Requirement	Compliance Status	Evidence
4	Code A.3.9(c) Code A.3.9(e)	The rehabilitation plan developed as part of the EMP 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.	Not applicable	<ul style="list-style-type: none"> <li>Rehabilitation plans were submitted to DEPWS in accordance with EMP approval.</li> <li>No activities have occurred on site during the reporting period(s).</li> </ul>
5	Code 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> <ol style="list-style-type: none"> <li>total volume of hydraulic fracturing fluid pumped,</li> <li>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</li> <li>typical and maximum concentrations of chemicals or other substances used.</li> </ol>	Not applicable	<ul style="list-style-type: none"> <li>No exploration well drilling, hydraulic fracturing or well testing activities are approved under these EMPs.</li> </ul>

#	Reference	Requirement	Compliance Status	Evidence
6	Code 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.	Not applicable	<ul style="list-style-type: none"> <li>No exploration well drilling, hydraulic fracturing or well testing activities are approved under these EMPs.</li> </ul>
7	Code 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 DPIR.	Not applicable	<ul style="list-style-type: none"> <li>No exploration well drilling, hydraulic fracturing or well testing activities are approved under this EMP.</li> </ul>
8	Code 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.	Not applicable	<ul style="list-style-type: none"> <li>No decommissioning activities occurred on these sites during the reporting period(s).</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	Not applicable	<ul style="list-style-type: none"> <li>All groundwater extractions are regularly reported to DEPWS via the WALAPS website.</li> <li>No activities have occurred on site during the reporting period(s).</li> </ul>

#	Reference	Requirement	Compliance Status	Evidence
		data standards must be followed.		
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.	Not applicable	<ul style="list-style-type: none"> <li>No activities have occurred on site during the reporting period due to access restrictions.</li> </ul>
11	Code C.6.1(d)	Wastewater tracking documentation must be reported to the Minister at least annually in accordance with the framework provided in the EMP.	Not applicable	<ul style="list-style-type: none"> <li>No activities have occurred on site during the reporting period due to access restrictions.</li> </ul>
12	Code 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.	Not applicable	<ul style="list-style-type: none"> <li>No activities have occurred on site during the reporting period due to access restrictions.</li> </ul>
13	Code D.4.3.2(f)	A written report detailing the levels of methane measured, the duration of the unusual readings and the results of the investigation (including remedial actions) must be	Not applicable	<ul style="list-style-type: none"> <li>This condition is associated with a larger field development program.</li> </ul>



#	Reference	Requirement	Compliance Status	Evidence
		submitted within one month of the significantly higher-level methane event being detected.		
14	Code D.5.9.2(c)	Emissions from exploration, well construction (including during flowback) and workovers must be measured and reports submitted.	Not applicable	<ul style="list-style-type: none"> <li>No exploration well drilling, hydraulic fracturing or well testing activities are approved under these EMPs.</li> </ul>
15	Code 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.	Not applicable	<ul style="list-style-type: none"> <li>No exploration well drilling, hydraulic fracturing or well testing activities are approved under these EMPs.</li> </ul>
17	Code D.6.2(a)	Reports of baseline assessments must be submitted at the conclusion of each field campaign.	Not applicable	<ul style="list-style-type: none"> <li>CSIRO completed baseline assessments through DITT.</li> </ul>
18	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.	Not applicable	<ul style="list-style-type: none"> <li>No activities have occurred on site during the reporting period due to access restrictions.</li> </ul>
19	Regulations Reg 14	A current EMP remains in force until the interest holder notifies the Minister the activity is no	Compliant	<ul style="list-style-type: none"> <li>The EMPs are still in force for less than 1 year, respectively.</li> </ul>

#	Reference	Requirement	Compliance Status	Evidence
		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.		
20	Regulations Reg 33	DEPWS is 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.	Not applicable	<ul style="list-style-type: none"> <li>No reportable incidents recorded at these sites during the reporting period.</li> </ul>
21	Regulations Reg 34	Reports on reportable incidents are to be provided to DEPWS as soon as practicable and within 72 hours of the event occurring.  A final report must be provided to DEPWS within 30 days after remediation/clean-up of the affected area.	Not applicable	<ul style="list-style-type: none"> <li>No reportable incidents recorded at these sites during the reporting period.</li> </ul>
22	Regulations Reg 35	A written report of all recordable incidents must be provided to DEPWS not later than 15 days after the 90 day	Compliant	<p>Quarterly recordable incidents reports were provided as follows:</p> <ul style="list-style-type: none"> <li>Q1 2022 report (10 April 22)</li> </ul>

#	Reference	Requirement	Compliance Status	Evidence
		reporting period (unless otherwise agreed).		<ul style="list-style-type: none"> <li>Q2 2022 report (July 14 2022)</li> <li>Q3 2022 report (14 &amp; 17 October 2022)</li> <li>Q4 2022 report (16 January 2023)</li> </ul>
23	Regulations Reg 37A	A report about flowback fluid from hydraulic fracturing must be provided to the Minister within 6 months of the flowback occurring.	Not applicable	<ul style="list-style-type: none"> <li>No exploration well drilling, hydraulic fracturing or well testing activities are approved under these EMPs.</li> </ul>
24	Regulations 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.	Not applicable	<ul style="list-style-type: none"> <li>No exploration well drilling, hydraulic fracturing or well testing activities are approved under these EMPs.</li> </ul>
25	Regulations Schedule 1, item 9(2)	Interest holders are required to conduct future engagement with stakeholders, in accordance with the description in the EMP.	Not applicable	<ul style="list-style-type: none"> <li>No exploration well drilling, hydraulic fracturing or well testing activities are approved under these EMPs.</li> </ul>
26	Regulations 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 activity.	Not applicable	<ul style="list-style-type: none"> <li>No exploration well drilling, hydraulic fracturing or well testing activities are approved under these EMPs.</li> </ul>

#	Reference	Requirement	Compliance Status	Evidence
27	<i>Environment Protection Act 2019</i> (NT) div 8	Duty to notify the NT EPA as soon as practicable but within 24 hours of any incident which occurs which causes or threatens to cause material or significant environmental harm	Not applicable	<ul style="list-style-type: none"> <li>No reportable incidents recorded at these sites during the reporting period.</li> </ul>
28	<i>Waste Management and Pollution Control Act 1998</i> (NT) s 14	Duty to notify the NT EPA as soon as practicable but within 24 hours of any incident which occurs which causes or threatens to cause pollution resulting in material or significant environmental harm	Not applicable	<ul style="list-style-type: none"> <li>No reportable incidents recorded at these sites during the reporting period.</li> </ul>

### 3. Summary of Compliance

#### 3.1 Overview of compliance

Table 6 provides a summary of the results of the compliance assessment against the EMP.

**Table 6 Compliance summary groundwater monitoring bore installation program EP 98**

Compliance Indicator	Number	Percentage
Compliant	14	100%
Not Compliant	0	0%
Not applicable	38	N/A

**Table 7 Compliance summary groundwater monitoring bore installation program EP 117**

Compliance Indicator	Number	Percentage
Compliant	16	100%
Not Compliant	0	0%
Not applicable	39	N/A

#### 3.2 Overview of items found not compliant

The following sections describe:

- 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.

##### 3.2.1 Ministerial approval conditions

###### 3.2.1.1 Description

No non-compliances with Ministerial conditions were observed during the reporting period.

##### 3.2.2 Environmental performance standards

###### 3.2.2.1 Description

No non-compliance with an environmental performance standard was recorded during the reporting period.

##### 3.2.3 Regulatory reporting

###### 3.2.3.1 Description

No non-compliance with regulatory reporting requirements were recorded during the period.

### 3.3 Application of Lessons Learned Across Tamboran's Onshore Interests

Due to the limited nature of the activities, no material lessons learnt were generated during the reporting period.