



Integrated Gas

BEETALOO BASIN GROUNDWATER MONITORING BORE INSTALLATION PROGRAM VELKERRI 76 S2 EP 76 Annual Environmental Performance Report

THE THREE WHATS

What can go wrong? What could cause it to go wrong? What can I do to prevent it?

Document Details

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Permit	EP 76		
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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.					
Signature	Signature Chai What				
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1. Introduction

The Petroleum (Environment) Regulations 2016 (NT) include a requirement¹ 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 Petroleum (Environment) Regulations 2016 (NT) and any other law in force in the Northern Territory related to conduct of the regulated activity.

This AEPR covers the regulated activities approved under the Beetaloo Basin Groundwater Monitoring Bore Installation Program Velkerri 76 S2 Exploration Permit (EP) 76 approved 10/07/2019.

The AEPR covers the following reporting period from the 11/07/2020 – 10/07/2021.

1.1 Acronyms and abbreviations

Table 1 summary of acronyms and abbreviations

Acronym	Definition
AAPA	Aboriginal Area Protection Authority
СОР	Code of Practice: Onshore Petroleum Activities in the Northern Territory
DEPWS	The Department of Environment, Parks and Water Security
DITT	Department of Industry, Innovation and Trade
FTP	File Transfer Protocol
На	Hectare
OCIS	Origins Collective Intelligence System used for managing incident data
PER	Petroleum (Environment) Regulations

1.2 Background

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

- o Maintenance of the access track between the Hayfield Shenandoah and Velkerri 76 S2 lease pad
- o Ongoing operation of gravel pit 7 to support access track maintenance

A Location of the regulated activities is provided in Figure 1.

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

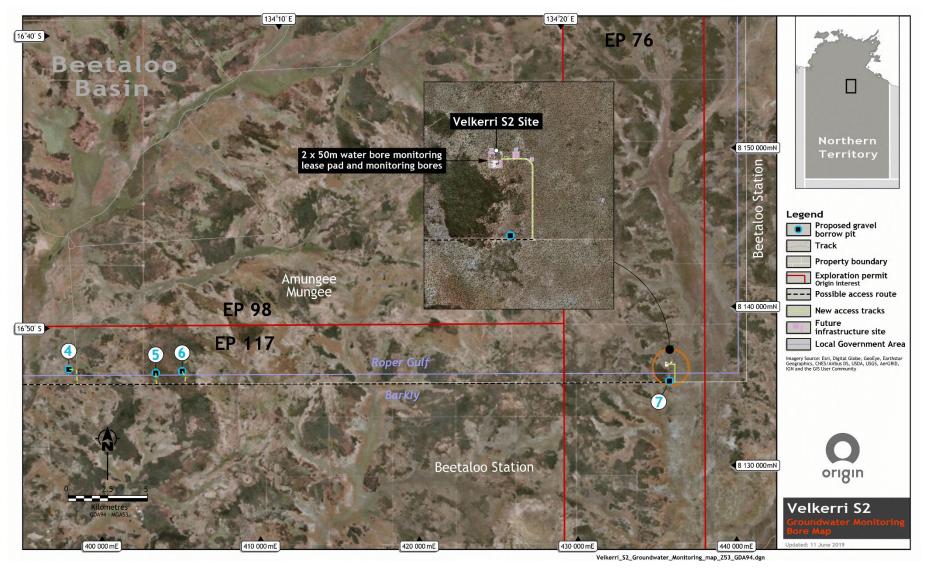


Figure 1 Beetaloo Basin Groundwater Monitoring Bore Installation Program Velkerri 76 S2

1.3 Contents of Performance Report

This AEPR describes the environmental performance of Origin by evaluation of the following:

- 1. compliance with Ministerial approval conditions, for each EMP
- compliance with each environmental outcome and environmental performance standard within the approved EMP's
- 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
Partially Compliant	Compliant with requirement for the majority of the 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 tracking of compliance by Origin Energy through:
 - internal assurance audits, observations and incident reporting
 - Routine inspections, as committed to in the EMP/s, as follows:
 - i. Pre and post wet season weed inspections completed over 22-25 October/November 2020 and May 2021
 - ii. Pre and post site stability inspections (completed during routine construction superintendent inspections) with maintenance actioned as required
- outcomes from regulatory inspection/s conducted by the Department of Environment, Parks and Water Security (DEPWS), Petroleum Operations
- 3. recordable and reportable incident reports submitted to DEPWS Petroleum Operations
- reports provided to DEPWS, the Department of Primary Industry and Resources (DPIR) and other government agencies.

2. Demonstration of Compliance

2.1 Ministerial Condition compliance

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

Table 3 Ministerial condition summary table

No	Ministerial condition	Compliance Status	Evidence		
Beetal	Beetaloo Basin Groundwater Monitoring Bore Installation Program- Velkerri 76				
2a	Water monitoring bores will be drilled and constructed by a water bore driller		Water bores drilled by Allwell, with licenced driller DL0157. A statement of bore was submitted to the NT		
	licensed under the Water Act and in accordance with the current version of the Minimum Construction Requirements for Water bores in Australia	Compliant	Water Resources division of DEPWS by Allwell drilling upon completion of the bore.		
2b	The groundwater bore installation must be completed within 12 months from the date of this approval.	Compliant	A statement of bore was submitted to the NT Water Resources division of DEPWS by Allwell drilling upon completion of the bore. The Statement of bore demonstrates the drilling of bore was completed within the required timeframe.		

2.2 Environmental outcomes and performance standards

Table 4 provides a systematic overview of Origin Energy's compliance with the environmental outcomes and environmental performance standards within the approved EMP/s.

Table 4 Environmental outcome and performance standard compliance summary

Number	Environmental outcomes	Environmental Performance Standard	Compliance	Evidence		
	Beetaloo Basin Groundwater Monitoring Bore Installation Program- Velkerri 76					
1	 Minimise disturbance to land and land use (including soils and terrain, flora and fauna). Protection of waterways. Avoid site contamination and remediate 	 Land disturbance equal to or less than planned. 	Compliant	 Areas of disturbance surveyed and pegged prior to clearing Total clearing levels for the Velkerri 76 S2 site were estimated at 2.7ha, lower than the 17.9hectare approved limit. 		
	land areas disturbed by water bore drilling activities, including contaminated land. Optimise (in order of most to least preferable) waste avoidance, reduction,			Disturbance confirmed through onsite surveying completed in May 2020.		
	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.	Minimum incidences of erosion and sedimentation occurring.		No material incidents of erosion and sediment control identified or recorded in Origin's incident management system.		
2	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.		Compliant	 Task observations completed by site supervisors identifying erosion and sediment hazards and controls Observation data available identifying maintenance required for minor erosion works. 		

Number	Environmental outcomes	Environmental Performance Standard	Compliance	Evidence
3		Areas left safe, stable and non-polluting	Compliant	Area has been incorporated into the main Velkerri 76 S2 N2 lease pad with no material incidents of erosion identified beyond normal operations.
4	 Minimise impacts to groundwater and maintain surface and groundwater values. Minimise erosion and sedimentation of waters as a result of water bore drilling activities 	Water usage for civils and water bore drilling below 15.5ML	Compliant	Water use for the groundwater monitoring bore installation program was estimated at 0.5ML. the remainder of water was used under the Civil construction EMP which is outside of the scope of this AEPR.
,				Limited water utilised for activities during the reporting period. All take was considered incidental take was sourced from the Gum Ridge control bore RN41134, with all water take metered and reported to DEPWS.
5		No unacceptable decline in groundwater resources, as defined as a sustained (12 month+) drawdown of greater than 1m measured at the extraction point	Compliant	 Control monitoring bores installed and appropriately developed. Water quality data is provided to DEPWS Quarterly, with the latest results submitted on the 29 October and 11 September 2020 and 20 May 2021.
5				Groundwater levels recorded during monitoring do not indicate any material changes in water quality or level from water monitoring bore installation activities.

Number	Environmental outcomes	Environmental Performance Standard	Compliance	Evidence
6		No release of site stormwater or wastewater exceeding baseline surface water quality	Compliant	No releases offsite as the Velkerri 76 S2 site is fully bunded with all onsite stormwater retained within the sediment basin onsite.
				Wet season inspections undertaken via helicopter did not identify releases from the sediment basin
7		No long-lasting change in soil and surface water quality from baseline conditions.	Compliant	No incidents observed of spills or soil contamination or releases to surface water resulting from water bore drilling activities recorded in Origin's incident management system.
8		Stream and creek crossings disturbance minimised.	Compliant	No construction in stream and creek crossings undertaken
9	 Minimise disturbance to flora and fauna. Minimise disturbance to sensitive areas. 	Monitoring bore lease located to minimise impacts to fauna habitat and sensitive vegetation	Compliant	Monitoring bores located within scouted areas covered under the Land Condition Assessment. The surrounding vegetation communities are regionally extensive (Open Corymbia Eucalypt woodland) with no impacts to sensitive flora or fauna recorded.
10		No native fauna impacts (injury or fatality) reported in OCIS during civil and water bore drilling related activities.	Compliant	No incidents of fauna mortality associated with water bore drilling activities recorded in Origin's incident management system.
11		Security bond maintained until such time DPIR is satisfied remediation of site.	Compliant	Security bond submitted to DPIR 19/11/2018. Security bond is in place.

Number	Environmental outcomes	Environmental Performance Standard	Compliance	Evidence
12		No loss of sensitive vegetation resulting from Origin's activities.	Compliant	Monitoring bores located within scouted areas covered under the Land Condition Assessment. The surrounding vegetation communities are regionally extensive (Open Corymbia Eucalypt woodland) with no impacts to sensitive flora or fauna recorded.
13	Avoid the introduction of weeds Avoid the spread of existing weeds	No introduction or spread of declared weeds resulting from Origins activities	Compliant	6 monthly weed surveys completed. No weeds have been identified on the Velkerri 76 S2 water bore lease pads. Annual weed monitoring report provided to DEPWS on the 14/05/2020. A summary of how weed prevention measures were implemented was provided to DEPWS on the 26/08/2020.
14	 To minimise impacts on soil, surface water, groundwater, sensitive habitat and air quality. To minimise creation of food sources or habitat for pest species. To minimise waste generation through 	The absence of wastes remaining on site at completion of operations (i.e. general rubbish, waste chemicals, workshop wastes including oily rags, containers etc.).	Compliant	All rubbish from the site was removed at the completion of water bone drilling, with the site incorporated into the larger Velkerri 76 S2 lease.
15	reduce, reuse, recycle programs.	Waste registers maintained for the duration of the project	Compliant	Waste data reported to Origin in monthly HSE reports. 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

Number	Environmental outcomes	Environmental Performance Standard	Compliance	Evidence
				service provider once volumes are sufficient.
16		Pest species not encouraged to the site.	Compliant	No incidents or observations recorded of wild dogs, cats, pigs or other pest species being present in the vicinity of Origin's activities recorded in Origin's incident management system.
17	 Minimise environmental nuisance due to dust for sensitive receptors resulting from Origin's activities. Minimise greenhouse gas emissions 	Minimal complaints regarding dust/air quality.	Compliant	No complaints received regarding dust/air quality from this activities recorded in Origin's incident management system.
18		Amicable resolution of complaints	Not Applicable	No complaints received regarding dust/air quality from this activity recorded in Origin's incident management system.
19	Minimise the environmental nuisance for sensitive receivers as a result of civil and water bore activities, including Tourist visual amenity	Minimal nuisance-related complaints received from sensitive receptors, including landowners	Compliant	No complaints received regarding dust/air quality from this activity recorded in Origin's incident management system.
		Amicable resolution of complaints	Not applicable	No complaints received regarding dust/air quality from this activity recorded in Origin's incident management system.

Number	Environmental outcomes	Environmental Performance Standard	Compliance	Evidence
20	 Minimise the risk of causing bushfires from Origin's activities. To minimise impacts on environmental habitat and fauna, soil erosion, impacts on stakeholders, impacts on culturally significant sites, public infrastructure and community lands. To ensure proper health and safety plan for activities. To prevent accidental fire risk and 	Successful fire management will be indicated by having no uncontrolled fires occurring as a result of civil works and water bore drilling activities.	Compliant	No incidents of fire resulting from groundwater monitoring bore installation recorded in Origin's incident management system.
	ensure safe storage of chemicals to prevent fire damage. To avoid disturbance of or damage to	No incidences of		All activities undertaken within
21	 Aboriginal or cultural heritage artefacts or Sacred Sites. To minimise impacts upon or disruption to activities of Indigenous stakeholders in culturally significant areas. To ensure adequate background information and training is provided to employees and contractors working in culturally significant areas. To ensure that the health and safety of exploration workers and the community is not compromised through management of cultural and environmental awareness. 	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	Compliant	AAPA approved areas
22	 Minimise impacts upon environmental values of the local community. Minimise impacts on cultural heritage. 	 An absence of issues arising, which have the potential to affect the work program, is a good indication of successful communications 	Compliant	No complaints received from local community or determined Traditional Owners recorded in Origin's incident management system.

Number	Environmental outcomes	Environmental Performance Standard	Compliance	Evidence
23	 Minimise safety risks to the public and other third parties. Maintain and enhance partnerships with the local community, including using local contractors 	No unresolved reasonable complaints	Compliant	No complaints received from local community or determined Traditional Owners recorded in Origin's incident management system.
24		An overall social and economic benefit as compared to perceived adverse impacts as derived from consultations with community advisory groups	Compliant	All maintenance activities completed by local NT companies.
25		High level of satisfaction with complaint outcomes and complaint resolution processes.	Compliant	No complaints received from local community or determined Traditional Owners recorded in Origin's incident management system.
26		Where suitable, include Aboriginal employment in the proposed program.	Compliant	 Aboriginal employment criteria utilised as part of the civil contract tender process. Local aboriginal contractors with 100% aboriginal employees are used for all inspections and minor site maintenance.

2.3 Mandatory reporting requirements

Table 5 demonstrates Origin Energy's compliance with reporting requirements in the Code of Practice: Onshore Petroleum Activities in the Northern Territory (Code of Practice). Table 6 demonstrates Origin's compliance with reporting requirements under the Petroleum (Environment) Regulations 2016 (NT) schedule 1, item 11(2), which requires all information required to be recorded, monitored or reported has been provided. Where relevant, Origin Energy confirms that all records, monitoring

or required reporting under the Petroleum (Environment) Regulations 2016 (NT)² has been provided to DEPWS or the relevant NTG agency. This table summarised compliance for all three of Origin's EMP's covered under this AEPR.

Table 5 summary of Code of Practice (COP) mandatory reporting requirements

No#	Reference	Requirement	Compliance Status	Evidence
1	COP A.3.5	Geospatial information depicting areas cleared is to be provided to the Minister.	Compliant	Velkerri 76 disturbance imagery provided to DEPWS FTP site on the 18/06/2020.
2	COP A.3.6 (b)	Weed management plan developed as part of the EMP must provide for ongoing weed monitoring.	Compliant	 Weed management plan developed, with 6 monthly weed monitoring completed. Weed management plan submitted to DEPWS 15/11/2018 Annual weed monitoring report submitted to DEPWS on 20/01/2020
3	COP 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.	Compliant	 Fire management plan implemented. Annual fire mapping provided to DEPWS on 26/08/2020
4	COP A.3.9(c) COP 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.	Compliant	Rehabilitation management plan developed and submitted to DEPWS 17/04/2020 The rehabilitation requirements are not applicable as all sites remain operational, with rehabilitation activities not undertaken to date.
5	COP 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	Not Applicable	Not Applicable to the scope of the EMP's as no exploration well drilling or hydraulic fracture stimulation activities completed.

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

No#	Reference	Requirement	Compliance Status	Evidence	
		typical and maximum concentrations of chemicals or other substances used.			
6	COP 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	Not Applicable to the scope of the EMP's as no exploration well drilling or hydraulic fracture stimulation activities completed.	
7	COP 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	Not Applicable to the scope of the EMP's as no exploration well drilling or hydraulic fracture stimulation activities completed.	
8	COP 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	Not Applicable to the scope of the EMP's as no exploration well drilling or hydraulic fracture stimulation activities completed.	
9	COP 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.	Compliant	All water monitoring bore completion reports have been submitted to DEPWS, including initial water quality data post completion.	
10	COP 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	Not Applicable to the scope of the EMP's as no wastewater from exploration well drilling or hydraulic fracture stimulation activities produced.	
11	COP 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	Not Applicable to the scope of the EMP's as no wastewater from exploration well drilling or hydraulic fracture stimulation activities produced.	
12	COP 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	Not Applicable to the scope of the EMP's as no wastewater from exploration well drilling or hydraulic fracture stimulation activities produced.	

No#	Reference	Requirement	Compliance Status	Evidence
13	COP 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 submitted within one month of the significantly higher-level methane event being detected.	Not Applicable	Not Applicable to the scope of the EMP's.
14	COP D.5.9.2(c)	Emissions from exploration, well construction (including during flowback) and workovers must be measured and reports submitted.	Not Applicable	Not Applicable to the scope of the EMP's as no exploration well drilling or hydraulic fracture stimulation activities completed.
15	COP 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	Not Applicable to the scope of the EMP's as no exploration well drilling or hydraulic fracture stimulation activities completed.
17	COP D.6.2(a)	Reports of baseline assessments must be submitted at the conclusion of each field campaign.	Not Applicable	Not Applicable to the scope of the EMP's. CSIRO completed baseline assessments through DITT.
18	COP 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	Not Applicable to the scope of the EMP's as no exploration well drilling or hydraulic fracture stimulation activities completed

Table 6 summary of other mandatory Reporting requirements

No#	Reference	Requirement	Compliance Status	Evidence
1	PER 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.	Compliant	All EMP's are still in force and have approximately 2 years remaining before the next review.
2	PER	DEPWS is notified of reportable incidents within 2 hours of the interest holder becoming aware of	Not Applicable	No reportable incidents have been recorded.

No#	Reference	Requirement	Compliance Status	Evidence
	Reg 33	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 arelly.		
3	PER Reg 34	if the initial report was made orally. 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	No reportable incidents have been recorded.
4	PER 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).	Compliant	Quarterly recordable incidents reports were provided as follows: Q3 2020 report provided on 15/09/2020 Q4 2020 report provided on 14/12/2020 Q1 2021 report provided on 14/04/2021 Q2 2021 report provided on 14 07 2021
5	PER 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	 Not Applicable to the scope of the EMP's as no exploration well drilling or hydraulic fracture stimulation activities completed.
6	PER 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	 Not Applicable to the scope of the EMP's as no exploration well drilling or hydraulic fracture stimulation activities completed.
7	PER Schedule 1, item 9(2)	Interest holders are required to conduct future engagement with stakeholders, in accordance with the description in the EMP.	Compliant	 Land access agreements are in place covering all current and future activities. Engagement with each stakeholder is undertaken on a monthly basis, or at a higher/lower frequency depending on the level of activity being completed onsite.
8	Schedule 1, item 12	Interest holder must notify the Minister, occupier of the land and owner of the land on which the	Compliant	The regulated activity commenced on the 12 th of July 2019.

No#	Reference	Requirement	Compliance Status	Evidence
		activity is to be carried out before commencement of construction, drilling or seismic surveys.		Persons were notified as follows: • Minister –11/07/2019 • Pastoralist- Amungee Mungee Station - 11/07/2019- Via email and telephone
9	Environment Protection Act 2019 (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	No incidents which could cause or threaten to cause material or significant environmental harm occurred during reporting period.
10	Waste Management and Pollution Control Act 1998 (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	No incidents which could cause or threaten to cause material or significant environmental harm occurred during reporting period.

3. Summary of Compliance

3.1 Overview of Compliance

Table 7 provide a summary of the results of the compliance assessment against each of the EMP compliance requirements.

Table 7 Compliance Summary Groundwater monitoring bore installation program Velkerri 76 S2 EP76

Compliance Indicator	Number	Percentage
Compliant	36	100
Partially Compliant	0	0%
Not Compliant	0	0%
Not Applicable	38	N/A

3.2 Overview of items found not compliant or partially compliant

The following sections describe:

- o 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 or partial 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

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

3.2.2 Environmental Performance Standards

3.2.2.1 Description

No non-compliance with performance standards were recorded during the reporting period.

3.2.3 Regulatory Reporting

No non-compliances with regulatory reporting requirements were identified during the reporting period.

3.3 Application of Lessons Learned Across Origin's Onshore Interests

Due to the limited nature of the activities in these EMP, no lessons learnt were identified.