

Wednesday 20 March 2024

# Assessable Prospecting Operation Application Decision Briefing and Review of Environmental Factors

## Moonagee3 | APO0001693

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Decision Maker	[REDACTED]
Prepared by	[REDACTED]
Title	EL 8730 (1992)
Authorised Representative	[REDACTED]
Project name	Moonagee3
Activity type	Non-Complying Exploration Activity

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### Issue

[REDACTED] has sought an activity approval in respect of Moonagee3, within EL 8730 (1992), at 18km north of Nyngan, NSW.

Pursuant to section 2.8 of *State Environmental Planning Policy (Resources and Energy) 2021*, development for the purposes of exploration (i.e. prospecting) may be carried out without development consent.

An authority issued under the *Mining Act 1992* is subject to a condition that the authority holder must not carry out an assessable prospecting operation on land over which the authority is granted unless an activity approval has been obtained for the carrying out of the assessable prospecting operation.

As assessable prospecting operations require approval by the Minister under the *Mining Act 1992*, a duty is imposed on determining authorities under Part 5 of the *Environmental Planning and Assessment Act 1979* to:

- examine and take into account to the fullest extent possible all matters affecting or likely to affect the environmental by reason of the proposed activity; and
- if the activity is likely to significantly affect the environment, examine and consider an environmental impact statement in respect of the activity.

The Minister is the determining authority for all exploration activities subject to environmental assessment under Part 5 of the *Environmental Planning and Assessment Act 1979*.

The Decision Maker, under delegation from the Minister, is required to determine whether:

- the proposed activity is not likely to have a significant impact on the environment and is not likely to significantly affect threatened species, populations or ecological communities (or their habitats) or impact biodiversity values and can be approved,
- the proposed activity is likely to have a significant impact on the environment and therefore an Environmental Impact Statement (EIS) is required,

- the proposed activity will be carried out in a declared area of outstanding biodiversity value and is likely to significantly affect threatened species, populations or ecological communities, or their habitats or impact biodiversity values, meaning a Species Impact Statement (SIS) and/or Biodiversity Development and Assessment Report (BDAR) is required, or
  - there is insufficient information to make a decision.
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## Background

This exploration activity approval is being sought under EL 8730 (1992) (Granted 29 March 2018 and expires 29 March 2024, renewal application to be submitted)

The current security deposit held for EL 8730 is \$10,000.

No other approvals remain outstanding. One previous approval has been finalised with rehabilitation signed off to the satisfaction of the Minister.

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## Proposed exploration activity

The proposed exploration activity (including details of the site, the existing environment, impact thresholds and impact management) are described in *APPLICATION TO UNDERTAKE ASSESSABLE PROSPECTING OPERATIONS Moonagee3* report and the information provided in support of the application.

The objective of the proposed exploration activity is to carry out works on, or to remove samples from, land for the purpose of testing the resource quality and/or quantity of the land. This is consistent with the objects of the *Mining Act 1992*, including to facilitate the discovery and development of resources in NSW.

No alternatives options to the proposed activity were considered.

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## Security

The application triggered a review of the assessed deposit to secure funding for the fulfilment of obligations if Moonagee3 is approved.

Refer to RCE Record RCE0001784

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## Assessment of Impacts (Non-complying exploration activity)

An assessment of the significance of environmental impacts associated with the proposed activity was undertaken in accordance with the Department of Planning and Environment's "*Guidelines for Division 5.1 assessments*". The results of this assessment are documented in the attached Review of Environmental Factors document.

The assessment has determined that the activity is not likely to significantly affect the environment, including threatened species or ecological communities (or their habitat), or declared areas of outstanding biodiversity value/critical habitat.

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## Additional terms (if approved)

No additional terms are required.

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## Summary

Based on the information provided in the *APPLICATION TO UNDERTAKE ASSESSABLE PROSPECTING OPERATIONS Moonagee3* report, and the Review of Environmental Factors document, the proposed activity has been assessed as is not likely to have a significant impact on the environment and therefore an EIS is not required.

The application for approval has been assessed as being Approve for grant.

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## Certification

I, [REDACTED] certify that I have reviewed and endorsed the contents of the attached Review of Environmental Factors document and, to the best of my knowledge, it is in accordance with the *Environmental Planning and Assessment Act 1979*, the Environmental Planning and Assessment Regulation 2021 and the Guidelines approved under clause 170 of the EP&A Regulation, and the information it contains is neither false nor misleading.

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## Recommendation

The Decision Maker, under delegation from the Minister:

- Assesses the environmental impact of Moonagee3 and determines that the activity is is not likely to have a significant impact on the environment and therefore an EIS is not required under Part 5 of the *Environmental Planning and Assessment Act 1979*.
  - Approve the activity pursuant to the *Mining Act 1992*.
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## Review of Environmental Factors document

Criteria	Air Impacts: Air quality impacts (including impacts on nearby sensitive receptors).		
Potential impacts	Air impacts from the proposed program are considered to be negligible. No receptors are within 500m of the proposed exploration area. As mud rotary and diamond drilling does not produce significant dust the impact to the receptor is predicted to be negligible. All vehicles will be in good working order and not releasing excess exhaust fumes. No new tracks are being created.		
Proposed management controls	Drilling will not occur within 500m of sensitive receptors. Vehicles will travel slowly along all farm tracks to minimise travelling dust. Vehicles will be well maintained to minimise excessive exhaust fumes. Landholder consultation throughout the whole program to ensure best and appropriate practices are being maintained.		
Duration	14		
Application ranking	2,2		
What is the confidence in predicting impacts?	High	Are further studies required on impacts or mitigation?	No

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How resilient is the environment to cope with impacts?	High Resilience	What is the level of public concern?	Low
Can the impacts be reversed?	Yes	Ranking of potential significance	Low
Can the impacts be mitigated?	Fully	Justification for ranking	
Do the operations comply with standards, plans, policies?	Yes		
<b>Criteria</b>	Air Impacts: Greenhouse or ozone impacts.		
<b>Potential impacts</b>	Air impacts from the proposed program are considered to be negligible. No receptors are within 500m of the proposed exploration area. As mud rotary and diamond drilling does not produce significant dust the impact to the receptor is predicted to be negligible. All vehicles will be in good working order and not releasing excess exhaust fumes. No new tracks are being created.		
<b>Proposed management controls</b>	Drilling will not occur within 500m of sensitive receptors. Vehicles will travel slowly along all farm tracks to minimise travelling dust. Vehicles will be well maintained to minimise excessive exhaust fumes. Landholder consultation throughout the whole program to ensure best and appropriate practices are being maintained.		
<b>Duration</b>	14		
<b>Application ranking</b>	Negligible		
What is the confidence in predicting impacts?	High	Are further studies required on impacts or mitigation?	No
How resilient is the environment to cope with impacts?	High Resilience	What is the level of public concern?	Low
Can the impacts be reversed?	Yes	Ranking of potential significance	Low
Can the impacts be mitigated?	Fully	Justification for ranking	
Do the operations comply with standards, plans, policies?	Yes		
<b>Criteria</b>	Air Impacts: Additional impacts on areas with degraded air quality.		
<b>Potential impacts</b>	Air impacts from the proposed program are considered to be negligible. No receptors are within 500m of the proposed exploration area. As mud rotary and diamond drilling does not produce significant dust the impact to the receptor is predicted to be negligible. All vehicles will be in good working order and not releasing excess exhaust fumes. No new tracks are being created.		
<b>Proposed management controls</b>	Drilling will not occur within 500m of sensitive receptors. Vehicles will travel slowly along all farm tracks to minimise travelling dust. Vehicles will be well maintained to minimise excessive exhaust fumes. Landholder consultation throughout the whole program to ensure best and appropriate practices are being maintained.  Landscape is open and flat, reduce chance of trapping degraded air.		
<b>Duration</b>	14		
<b>Application ranking</b>	2,2		
What is the confidence in predicting impacts?	High	Are further studies required on impacts or mitigation?	No
How resilient is the environment to cope with impacts?	High Resilience	What is the level of public concern?	Low
Can the impacts be reversed?	Yes	Ranking of potential significance	Low
Can the impacts be mitigated?	Partly	Justification for ranking	
Do the operations comply with standards, plans, policies?	Yes		
<b>Criteria</b>	Water Impacts: Impacts from the use of surface or groundwater.		

<b>Potential impacts</b>	The program is not expected to impact groundwater. Suitable drilling methods will be utilised to ensure that water is contained in the same strata and not cross to different water bearing strata. The program is not expected to have an impact on surface water. The nearest watercourse is the Bogan River which lies at the eastern margin of the exploration area. Drilling is not expected to impact the Bogan River as the method of drilling method will ensure that all ground water remains in the ground, and there will be no ancillary water stored on site. Drilling will not occur within 200m of the Bogan River.		
<b>Proposed management controls</b>	Drilling will not be undertaken during extreme weather events and so surface water will not be affected. Groundwater is not expected to cause concern as areas close by have been drilled previously with no concerns.  Rivers and creeklines nearby have been excluded from proposed area of drilling.		
<b>Duration</b>	14		
<b>Application ranking</b>	Positive		
<b>What is the confidence in predicting impacts?</b>	High	<b>Are further studies required on impacts or mitigation?</b>	No
<b>How resilient is the environment to cope with impacts?</b>	High Resilience	<b>What is the level of public concern?</b>	Low
<b>Can the impacts be reversed?</b>	Yes	<b>Ranking of potential significance</b>	Low
<b>Can the impacts be mitigated?</b>	Fully	<b>Justification for ranking</b>	
<b>Do the operations comply with standards, plans, policies?</b>	Yes		
<b>Criteria</b>	Water Impacts: Impacts from storage of water		
<b>Potential impacts</b>	The program is not expected to impact groundwater. Suitable drilling methods will be utilised to ensure that water is contained in the same strata and not cross to different water bearing strata. The program is not expected to have an impact on surface water. The nearest watercourse is the Bogan River which lies at the eastern margin of the exploration area. Drilling is not expected to impact the Bogan River as the method of drilling method will ensure that all ground water remains in the ground, and there will be no ancillary water stored on site. Drilling will not occur within 200m of the Bogan River.		
<b>Proposed management controls</b>	Drilling will not be undertaken during extreme weather events and so surface water will not be affected. Groundwater is not expected to cause concern as areas close by have been drilled previously with no concerns.  Above ground sumps utilised for drilling water requirements.		
<b>Duration</b>	14		
<b>Application ranking</b>	2,1		
<b>What is the confidence in predicting impacts?</b>	High	<b>Are further studies required on impacts or mitigation?</b>	No
<b>How resilient is the environment to cope with impacts?</b>	High Resilience	<b>What is the level of public concern?</b>	Low
<b>Can the impacts be reversed?</b>	Yes	<b>Ranking of potential significance</b>	Low
<b>Can the impacts be mitigated?</b>	Fully	<b>Justification for ranking</b>	
<b>Do the operations comply with standards, plans, policies?</b>	Yes		
<b>Criteria</b>	Water Impacts: Impacts from changes to natural water bodies, wetlands or runoff patterns.		
<b>Potential impacts</b>	The program is not expected to impact groundwater. Suitable drilling methods will be utilised to ensure that water is contained in the same strata and not cross to different water bearing strata. The program is not expected to have an impact on surface water. The nearest watercourse is the Bogan River which lies at the eastern margin of the exploration area. Drilling is not expected to impact the Bogan River as the method of drilling method will ensure that all ground water remains in the ground, and there will be no ancillary water stored on site. Drilling will not occur within 200m of the Bogan River.		
<b>Proposed management controls</b>	Drilling will not be undertaken during extreme weather events and so surface water will not be affected. Groundwater is not expected to cause concern as areas close by have been drilled previously with no concerns.  Natural water bodies excluded from drilling area.		
<b>Duration</b>	14		
<b>Application ranking</b>	1,1		

What is the confidence in predicting impacts?	High	Are further studies required on impacts or mitigation?	No
How resilient is the environment to cope with impacts?	High Resilience	What is the level of public concern?	Low
Can the impacts be reversed?	Yes	Ranking of potential significance	Low
Can the impacts be mitigated?	Fully	Justification for ranking	
Do the operations comply with standards, plans, policies?	Yes		
<b>Criteria</b>	Water Impacts: Impacts from aquifer interference, including changes to inter-aquifer connectivity.		
<b>Potential impacts</b>	The program is not expected to impact groundwater. Suitable drilling methods will be utilised to ensure that water is contained in the same strata and not cross to different water bearing strata. The program is not expected to have an impact on surface water. The nearest watercourse is the Bogan River which lies at the eastern margin of the exploration area. Drilling is not expected to impact the Bogan River as the method of drilling method will ensure that all ground water remains in the ground, and there will be no ancillary water stored on site. Drilling will not occur within 200m of the Bogan River.		
<b>Proposed management controls</b>	Drilling will not be undertaken during extreme weather events and so surface water will not be affected. Groundwater is not expected to cause concern as areas close by have been drilled previously with no concerns.  Suitable drilling methods will be utilised to ensure that water is contained in the same strata and not cross to different water bearing strata.		
<b>Duration</b>	14		
<b>Application ranking</b>	Positive		
What is the confidence in predicting impacts?	High	Are further studies required on impacts or mitigation?	No
How resilient is the environment to cope with impacts?	High Resilience	What is the level of public concern?	Low
Can the impacts be reversed?	Uncertain	Ranking of potential significance	Low
Can the impacts be mitigated?	Fully	Justification for ranking	
Do the operations comply with standards, plans, policies?	Yes		
<b>Criteria</b>	Water Impacts: Impacts from changes to flooding or tidal regimes.		
<b>Potential impacts</b>	The program is not expected to impact groundwater. Suitable drilling methods will be utilised to ensure that water is contained in the same strata and not cross to different water bearing strata. The program is not expected to have an impact on surface water. The nearest watercourse is the Bogan River which lies at the eastern margin of the exploration area. Drilling is not expected to impact the Bogan River as the method of drilling method will ensure that all ground water remains in the ground, and there will be no ancillary water stored on site. Drilling will not occur within 200m of the Bogan River.		
<b>Proposed management controls</b>	Drilling will not be undertaken during extreme weather events and so surface water will not be affected. Groundwater is not expected to cause concern as areas close by have been drilled previously with no concerns.		
<b>Duration</b>	14		
<b>Application ranking</b>	1,1		
What is the confidence in predicting impacts?	High	Are further studies required on impacts or mitigation?	No
How resilient is the environment to cope with impacts?	High Resilience	What is the level of public concern?	Low
Can the impacts be reversed?	Yes	Ranking of potential significance	Low
Can the impacts be mitigated?	Fully	Justification for ranking	

Do the operations comply with standards, plans, policies?	Yes		
<b>Criteria</b>	Water Impacts: Impacts from changes in surface or groundwater quality and quantity.		
<b>Potential impacts</b>	<p>The program is not expected to impact groundwater. Suitable drilling methods will be utilised to ensure that water is contained in the same strata and not cross to different water bearing strata.</p> <p>The program is not expected to have an impact on surface water. The nearest watercourse is the Bogan River which lies at the eastern margin of the exploration area. Drilling is not expected to impact the Bogan River as the method of drilling method will ensure that all ground water remains in the ground, and there will be no ancillary water stored on site. Drilling will not occur within 200m of the Bogan River.</p>		
<b>Proposed management controls</b>	Drilling will not be undertaken during extreme weather events and so surface water will not be affected. Groundwater is not expected to cause concern as areas close by have been drilled previously with no concerns.		
<b>Duration</b>	14		
<b>Application ranking</b>	Positive		
<b>What is the confidence in predicting impacts?</b>	High	<b>Are further studies required on impacts or mitigation?</b>	No
<b>How resilient is the environment to cope with impacts?</b>	High Resilience	<b>What is the level of public concern?</b>	Low
<b>Can the impacts be reversed?</b>	Yes	<b>Ranking of potential significance</b>	Low
<b>Can the impacts be mitigated?</b>	Fully	<b>Justification for ranking</b>	
<b>Do the operations comply with standards, plans, policies?</b>	Yes		
<b>Criteria</b>	Soil & Stability Impacts: Degradation of soil quality (including contamination, salinisation or acidification).		
<b>Potential impacts</b>	The effects of this small drilling program within the area will not cause soil erosion. There is no acid sulphate soil in this area. Existing tracks will be utilised where possible. This area has vegetation nearby which will mitigate wind erosion issues.		
<b>Proposed management controls</b>	<p>There will be no vegetation clearing for this drill program. Minor push back of understorey may be required to make sites safe, however is not envisaged to be required at this location. Minimal surface disturbance to ensure minimal impact to the soil. Utilising existing tracks where possible, should soil compaction require scarification then the landholder will manage and ensure all ground is returned to existing state.</p> <p>Diesel will be kept in a bunded storage area. Bio-degradable drilling muds to be utilised.</p>		
<b>Duration</b>	14		
<b>Application ranking</b>	Negligible		
<b>What is the confidence in predicting impacts?</b>	High	<b>Are further studies required on impacts or mitigation?</b>	No
<b>How resilient is the environment to cope with impacts?</b>	High Resilience	<b>What is the level of public concern?</b>	Low
<b>Can the impacts be reversed?</b>	Yes	<b>Ranking of potential significance</b>	Low
<b>Can the impacts be mitigated?</b>	Fully	<b>Justification for ranking</b>	
<b>Do the operations comply with standards, plans, policies?</b>	Yes		
<b>Criteria</b>	Soil & Stability Impacts: Impacts on land with high agricultural capability.		
<b>Potential impacts</b>	The effects of this small drilling program within the area will not cause soil erosion. There is no acid sulphate soil in this area. Existing tracks will be utilised where possible. This area has vegetation nearby which will mitigate wind erosion issues.		
<b>Proposed management controls</b>	<p>There will be no vegetation clearing for this drill program. Minor push back of understorey may be required to make sites safe, however is not envisaged to be required at this location. Minimal surface disturbance to ensure minimal impact to the soil. Utilising existing tracks where possible, should soil compaction require scarification then the landholder will manage and ensure all ground is returned to existing state.</p> <p>Site to be treated as if high agricultural capability as per application statements.</p>		
<b>Duration</b>	14		
<b>Application ranking</b>	Positive		

What is the confidence in predicting impacts?	High	Are further studies required on impacts or mitigation?	No
How resilient is the environment to cope with impacts?	High Resilience	What is the level of public concern?	Low
Can the impacts be reversed?	Yes	Ranking of potential significance	Low
Can the impacts be mitigated?	Fully	Justification for ranking	
Do the operations comply with standards, plans, policies?	Yes		
<b>Criteria</b>	Soil & Stability Impacts: Loss of soil from wind or water erosion.		
<b>Potential impacts</b>	The effects of this small drilling program within the area will not cause soil erosion. There is no acid sulphate soil in this area. Existing tracks will be utilised where possible. This area has vegetation nearby which will mitigate wind erosion issues.		
<b>Proposed management controls</b>	There will be no vegetation clearing for this drill program. Minor push back of understorey may be required to make sites safe, however is not envisaged to be required at this location. Minimal surface disturbance to ensure minimal impact to the soil. Utilising existing tracks where possible, should soil compaction require scarification then the landholder will manage and ensure all ground is returned to existing state.		
<b>Duration</b>	14		
<b>Application ranking</b>	Negligible		
What is the confidence in predicting impacts?	High	Are further studies required on impacts or mitigation?	No
How resilient is the environment to cope with impacts?	High Resilience	What is the level of public concern?	Low
Can the impacts be reversed?	Yes	Ranking of potential significance	Low
Can the impacts be mitigated?	Fully	Justification for ranking	
Do the operations comply with standards, plans, policies?	Yes		
<b>Criteria</b>	Soil & Stability Impacts: Loss of structural integrity of the soil.		
<b>Potential impacts</b>	The effects of this small drilling program within the area will not cause soil erosion. There is no acid sulphate soil in this area. Existing tracks will be utilised where possible. This area has vegetation nearby which will mitigate wind erosion issues.		
<b>Proposed management controls</b>	There will be no vegetation clearing for this drill program. Minor push back of understorey may be required to make sites safe, however is not envisaged to be required at this location. Minimal surface disturbance to ensure minimal impact to the soil. Utilising existing tracks where possible, should soil compaction require scarification then the landholder will manage and ensure all ground is returned to existing state.		
<b>Duration</b>	14		
<b>Application ranking</b>	Negligible		
What is the confidence in predicting impacts?	High	Are further studies required on impacts or mitigation?	No
How resilient is the environment to cope with impacts?	High Resilience	What is the level of public concern?	Low
Can the impacts be reversed?	Yes	Ranking of potential significance	Low
Can the impacts be mitigated?	Partly	Justification for ranking	
Do the operations comply with standards, plans, policies?	Yes		
<b>Criteria</b>	Soil & Stability Impacts: Increased land instability with high risks from land slides or subsidence.		
<b>Potential impacts</b>	The effects of this small drilling program within the area will not cause soil erosion. There is no acid sulphate soil in this area. Existing tracks will be utilised where possible. This area has vegetation nearby which will mitigate wind erosion issues.		



<b>Proposed management controls</b>	There will be no vegetation clearing for this drill program. Minor push back of understorey may be required to make sites safe, however is not envisaged to be required at this location. Minimal surface disturbance to ensure minimal impact to the soil. Utilising existing tracks where possible, should soil compaction require scarification then the landholder will manage and ensure all ground is returned to existing state.		
<b>Duration</b>	14		
<b>Application ranking</b>	Positive		
<b>What is the confidence in predicting impacts?</b>	High	<b>Are further studies required on impacts or mitigation?</b>	No
<b>How resilient is the environment to cope with impacts?</b>	High Resilience	<b>What is the level of public concern?</b>	Low
<b>Can the impacts be reversed?</b>	Yes	<b>Ranking of potential significance</b>	Low
<b>Can the impacts be mitigated?</b>	Fully	<b>Justification for ranking</b>	
<b>Do the operations comply with standards, plans, policies?</b>	Yes		
<b>Criteria</b>	Noise & Vibration Impacts: Results in increased noise or vibration.		
<b>Potential impacts</b>	There are no receptors in the proposed drilling area. Drilling will be undertaken in daylight hours only and not within 500m of receptors. Mud rotary and diamond drilling method selected has relatively low noise outputs compared to other drilling methods.		
<b>Proposed management controls</b>	Drilling will not occur within 500m of sensitive receptors. Drilling works will be undertaken in daylight hours only.		
<b>Duration</b>	14		
<b>Application ranking</b>	Negligible		
<b>What is the confidence in predicting impacts?</b>	High	<b>Are further studies required on impacts or mitigation?</b>	No
<b>How resilient is the environment to cope with impacts?</b>	High Resilience	<b>What is the level of public concern?</b>	Low
<b>Can the impacts be reversed?</b>	Yes	<b>Ranking of potential significance</b>	Low
<b>Can the impacts be mitigated?</b>	Fully	<b>Justification for ranking</b>	
<b>Do the operations comply with standards, plans, policies?</b>	Yes		
<b>Criteria</b>	Noise & Vibration Impacts: Affects sensitive receptors.		
<b>Potential impacts</b>	There are no receptors in the proposed drilling area. Drilling will be undertaken in daylight hours only and not within 500m of receptors. Mud rotary and diamond drilling method selected has relatively low noise outputs compared to other drilling methods.		
<b>Proposed management controls</b>	Drilling will not occur within 500m of sensitive receptors. Drilling works will be undertaken in daylight hours only.		
<b>Duration</b>	14		
<b>Application ranking</b>	Negligible		
<b>What is the confidence in predicting impacts?</b>	High	<b>Are further studies required on impacts or mitigation?</b>	No
<b>How resilient is the environment to cope with impacts?</b>	High Resilience	<b>What is the level of public concern?</b>	Low
<b>Can the impacts be reversed?</b>	Yes	<b>Ranking of potential significance</b>	Low
<b>Can the impacts be mitigated?</b>	Fully	<b>Justification for ranking</b>	
<b>Do the operations comply with standards, plans, policies?</b>	Yes		
<b>Criteria</b>	Coastal Location & Processes: Affects coastal processes and coastal hazards, including those under projected climate change conditions.		
<b>Potential impacts</b>	n/a		

<b>Proposed management controls</b>	n/a		
<b>Duration</b>	14		
<b>Application ranking</b>	Positive		
<b>What is the confidence in predicting impacts?</b>	N/A	<b>Are further studies required on impacts or mitigation?</b>	N/A
<b>How resilient is the environment to cope with impacts?</b>	N/A	<b>What is the level of public concern?</b>	N/A
<b>Can the impacts be reversed?</b>	N/A	<b>Ranking of potential significance</b>	Low
<b>Can the impacts be mitigated?</b>	N/A	<b>Justification for ranking</b>	
<b>Do the operations comply with standards, plans, policies?</b>	N/A		
<b>Criteria</b>	Hazardous substances or chemicals: Impacts associated with the use, generation, storage or transport of hazardous substances or chemicals.		
<b>Potential impacts</b>	Diesel fuel is the only anticipated hydrocarbon to be used on site. It will be transported to site in a dedicated diesel tank mounted on an auxiliary drill vehicle. A spill kit will always be on site and minor spills will be cleaned up and waste material removed from site and disposed of at the nearest appropriately licensed waste facility.		
<b>Proposed management controls</b>	Maintain regular checks of all fuel and lubricants, provide bunded areas where required. A spill kit will be at the site at all times. Use of bio-degradable drilling muds.		
<b>Duration</b>	14		
<b>Application ranking</b>	Negligible		
<b>What is the confidence in predicting impacts?</b>	High	<b>Are further studies required on impacts or mitigation?</b>	No
<b>How resilient is the environment to cope with impacts?</b>	High Resilience	<b>What is the level of public concern?</b>	Low
<b>Can the impacts be reversed?</b>	Yes	<b>Ranking of potential significance</b>	Low
<b>Can the impacts be mitigated?</b>	Fully	<b>Justification for ranking</b>	
<b>Do the operations comply with standards, plans, policies?</b>	Yes		
<b>Criteria</b>	Wastes & Emissions: Impacts to the environment resulting from the generation or disposal of wastes.		
<b>Potential impacts</b>	There should be minimal impact to the environment from the proposed short drilling program. Fuels maintained in appropriately bunded storage tanks. There will be no disposal of drilling waste at site – all waste removed from site and disposed of at appropriately licenced waste facility.		
<b>Proposed management controls</b>	Clean up any minor spills immediately and dispose of any contaminated materials to an appropriately managed licenced facility.		
<b>Duration</b>	14		
<b>Application ranking</b>	Negligible		
<b>What is the confidence in predicting impacts?</b>	High	<b>Are further studies required on impacts or mitigation?</b>	No
<b>How resilient is the environment to cope with impacts?</b>	High Resilience	<b>What is the level of public concern?</b>	Low
<b>Can the impacts be reversed?</b>	Yes	<b>Ranking of potential significance</b>	Low
<b>Can the impacts be mitigated?</b>	Fully	<b>Justification for ranking</b>	
<b>Do the operations comply with standards, plans, policies?</b>	Yes		
<b>Criteria</b>	Wastes & Emissions: Impacts on drinking water catchments, wetlands, natural water bodies, riparian zones or flood prone areas.		
<b>Potential impacts</b>	There will be no impact on any of the above during this proposed short drilling program.		

<b>Proposed management controls</b>	Clean up any minor spills immediately and dispose of any contaminated materials to an appropriately managed licenced facility. Use of bio-degradable drilling fluids.		
<b>Duration</b>	14		
<b>Application ranking</b>	Negligible		
<b>What is the confidence in predicting impacts?</b>	High	<b>Are further studies required on impacts or mitigation?</b>	No
<b>How resilient is the environment to cope with impacts?</b>	High Resilience	<b>What is the level of public concern?</b>	Low
<b>Can the impacts be reversed?</b>	Yes	<b>Ranking of potential significance</b>	Low
<b>Can the impacts be mitigated?</b>	Fully	<b>Justification for ranking</b>	
<b>Do the operations comply with standards, plans, policies?</b>	Yes		
<b>Criteria</b>	Wastes & Emissions: Impacts on groundwater recharge areas or areas with high water table.		
<b>Potential impacts</b>	There will be no impact on any of the above during this proposed short drilling program.		
<b>Proposed management controls</b>	Clean up any minor spills immediately and dispose of any contaminated materials to an appropriately managed licenced facility.		
<b>Duration</b>	14		
<b>Application ranking</b>	Negligible		
<b>What is the confidence in predicting impacts?</b>	High	<b>Are further studies required on impacts or mitigation?</b>	No
<b>How resilient is the environment to cope with impacts?</b>	Medium Resilience	<b>What is the level of public concern?</b>	Low
<b>Can the impacts be reversed?</b>	Uncertain	<b>Ranking of potential significance</b>	Low
<b>Can the impacts be mitigated?</b>	Fully	<b>Justification for ranking</b>	
<b>Do the operations comply with standards, plans, policies?</b>	Yes		
<b>Criteria</b>	Wastes and Emissions: Impacts on coastlines or dunes, alpine areas, karst features or other unique landforms.		
<b>Potential impacts</b>	N/A		
<b>Proposed management controls</b>	N/A		
<b>Duration</b>	N/A		
<b>Application ranking</b>	N/A		
<b>What is the confidence in predicting impacts?</b>	N/A	<b>Are further studies required on impacts or mitigation?</b>	N/A
<b>How resilient is the environment to cope with impacts?</b>	N/A	<b>What is the level of public concern?</b>	Low
<b>Can the impacts be reversed?</b>	N/A	<b>Ranking of potential significance</b>	N/A
<b>Can the impacts be mitigated?</b>	N/A	<b>Justification for ranking</b>	
<b>Do the operations comply with standards, plans, policies?</b>	N/A		
<b>Criteria</b>	Wastes & Emissions: Impacts on erosion prone areas, areas with slopes of greater than 18 degrees.		
<b>Potential impacts</b>	N/A		
<b>Proposed management controls</b>	N/A		
<b>Duration</b>	N/A		
<b>Application ranking</b>	N/A		

What is the confidence in predicting impacts?	N/A	Are further studies required on impacts or mitigation?	N/A
How resilient is the environment to cope with impacts?	N/A	What is the level of public concern?	N/A
Can the impacts be reversed?	N/A	Ranking of potential significance	N/A
Can the impacts be mitigated?	N/A	Justification for ranking	
Do the operations comply with standards, plans, policies?	N/A		
<b>Criteria</b>	Wastes & Emissions: Impacts on subsidence or slip areas.		
<b>Potential impacts</b>	There will be no impact on any of the above during this proposed short drilling program.		
<b>Proposed management controls</b>	Clean up any minor spills immediately and dispose of any contaminated materials to an appropriately managed licenced facility. Landscape is of flat topography.		
<b>Duration</b>	14		
<b>Application ranking</b>	Negligible		
What is the confidence in predicting impacts?	High	Are further studies required on impacts or mitigation?	No
How resilient is the environment to cope with impacts?	High Resilience	What is the level of public concern?	Low
Can the impacts be reversed?	Yes	Ranking of potential significance	Low
Can the impacts be mitigated?	Fully	Justification for ranking	
Do the operations comply with standards, plans, policies?	Yes		
<b>Criteria</b>	Wastes & Emissions: Impacts on areas with acid sulphate, sodic or highly permeable soils.		
<b>Potential impacts</b>	There will be no impact on any of the above during this proposed short drilling program.		
<b>Proposed management controls</b>	Clean up any minor spills immediately and dispose of any contaminated materials to an appropriately managed licenced facility. There are no known acid sulfate soils within this area.		
<b>Duration</b>	14		
<b>Application ranking</b>			
What is the confidence in predicting impacts?	High	Are further studies required on impacts or mitigation?	No
How resilient is the environment to cope with impacts?	High Resilience	What is the level of public concern?	Low
Can the impacts be reversed?	Yes	Ranking of potential significance	Low
Can the impacts be mitigated?	Fully	Justification for ranking	
Do the operations comply with standards, plans, policies?	Yes		
<b>Criteria</b>	Wastes & Emissions: Impacts on areas with salinity or potential salinity problems.		
<b>Potential impacts</b>	There will be no impact on any of the above during this proposed short drilling program.		
<b>Proposed management controls</b>	Clean up any minor spills immediately and dispose of any contaminated materials to an appropriately managed licenced facility.		
<b>Duration</b>	14		
<b>Application ranking</b>	Negligible		
What is the confidence in predicting impacts?	High	Are further studies required on impacts or mitigation?	No

How resilient is the environment to cope with impacts?	High Resilience	What is the level of public concern?	Low
Can the impacts be reversed?	Yes	Ranking of potential significance	Low
Can the impacts be mitigated?	Fully	Justification for ranking	
Do the operations comply with standards, plans, policies?	Yes		
<b>Criteria</b>	Wastes & Emissions: Impacts on areas with degraded or contaminated land.		
<b>Potential impacts</b>	There will be no impact on any of the above during this proposed short drilling program.		
<b>Proposed management controls</b>	Clean up any minor spills immediately and dispose of any contaminated materials to an appropriately managed licenced facility.		
<b>Duration</b>	14		
<b>Application ranking</b>	Negligible		
What is the confidence in predicting impacts?	High	Are further studies required on impacts or mitigation?	No
How resilient is the environment to cope with impacts?	High Resilience	What is the level of public concern?	Low
Can the impacts be reversed?	Yes	Ranking of potential significance	Low
Can the impacts be mitigated?	Fully	Justification for ranking	
Do the operations comply with standards, plans, policies?	Yes		
<b>Criteria</b>	Wastes & Emissions: Impacts on areas with degraded or contaminated water (ground or surface).		
<b>Potential impacts</b>	There will be no impact on any of the above during this proposed short drilling program.		
<b>Proposed management controls</b>	Clean up any minor spills immediately and dispose of any contaminated materials to an appropriately managed licenced facility.		
<b>Duration</b>	14		
<b>Application ranking</b>	Negligible		
What is the confidence in predicting impacts?	High	Are further studies required on impacts or mitigation?	No
How resilient is the environment to cope with impacts?	High Resilience	What is the level of public concern?	Low
Can the impacts be reversed?	Yes	Ranking of potential significance	Low
Can the impacts be mitigated?	Fully	Justification for ranking	
Do the operations comply with standards, plans, policies?	Yes		
<b>Criteria</b>	Vegetation: Any clearing or modification of vegetation (including impacts on wildlife corridors, remnant vegetation & habitat for species of conservation significance).		
<b>Potential impacts</b>	There will be no vegetation clearing for the proposed drilling. There are no threatened species recorded within the proposed drilling area on BioNet.		
<b>Proposed management controls</b>	n/a		
<b>Duration</b>	14		
<b>Application ranking</b>	Positive		
What is the confidence in predicting impacts?	High	Are further studies required on impacts or mitigation?	No
How resilient is the environment to cope with impacts?	High Resilience	What is the level of public concern?	Low
Can the impacts be reversed?	Yes	Ranking of potential significance	Low
Can the impacts be mitigated?	Fully	Justification for ranking	

Do the operations comply with standards, plans, policies?	Yes		
<b>Criteria</b>	Threatened Fauna Species: Any adverse effect on the life cycle of any threatened species such that a viable local population of the species is likely to be placed at risk of extinction.		
<b>Potential impacts</b>	There are no threatened fauna or flora recorded in this area		
<b>Proposed management controls</b>	n/a		
<b>Duration</b>	14		
<b>Application ranking</b>	Positive		
What is the confidence in predicting impacts?	High	Are further studies required on impacts or mitigation?	No
How resilient is the environment to cope with impacts?	High Resilience	What is the level of public concern?	Low
Can the impacts be reversed?	Yes	Ranking of potential significance	Low
Can the impacts be mitigated?	Fully	Justification for ranking	
Do the operations comply with standards, plans, policies?	Yes		
<b>Criteria</b>	Threatened Flora Species: Any adverse effect on the life cycle of any threatened species such that a viable local population of the species is likely to be placed at risk of extinction.		
<b>Potential impacts</b>	There are no threatened fauna or flora recorded in this area		
<b>Proposed management controls</b>	n/a		
<b>Duration</b>	14		
<b>Application ranking</b>	Positive		
What is the confidence in predicting impacts?	High	Are further studies required on impacts or mitigation?	No
How resilient is the environment to cope with impacts?	High Resilience	What is the level of public concern?	Low
Can the impacts be reversed?	Yes	Ranking of potential significance	Low
Can the impacts be mitigated?	Fully	Justification for ranking	
Do the operations comply with standards, plans, policies?	Yes		
<b>Criteria</b>	Areas of outstanding biodiversity value/Critical habitat: This includes: a. declared areas of outstanding biodiversity value under the Biodiversity Conservation Act 2016 b. areas declared critical habitat under the Fisheries Management Act 1994.		
<b>Potential impacts</b>	There are no areas of critical habitat/area of outstanding biodiversity within the proposed drilling area.		
<b>Proposed management controls</b>	n/a		
<b>Duration</b>	14		
<b>Application ranking</b>	1,2		
What is the confidence in predicting impacts?	N/A	Are further studies required on impacts or mitigation?	No
How resilient is the environment to cope with impacts?	N/A	What is the level of public concern?	N/A
Can the impacts be reversed?	N/A	Ranking of potential significance	Low
Can the impacts be mitigated?	N/A	Justification for ranking	
Do the operations comply with standards, plans, policies?	Yes		
<b>Criteria</b>	Endangered ecological community or critically endangered ecological community: Whether the activity: ☐ is likely to have an adverse effect on the extent of the ecological community such that its local occurrence is likely to be placed at risk of extinction, or ☑ is likely to substantially and adversely modify the composition of the ecological community such that its local occurrence is likely to be placed at risk of extinction.		
<b>Potential impacts</b>	There are no endangered communities listed in the proposed drilling area		

<b>Proposed management controls</b>	n/a		
<b>Duration</b>	14		
<b>Application ranking</b>	Positive		
<b>What is the confidence in predicting impacts?</b>	High	<b>Are further studies required on impacts or mitigation?</b>	No
<b>How resilient is the environment to cope with impacts?</b>	High Resilience	<b>What is the level of public concern?</b>	Low
<b>Can the impacts be reversed?</b>	Yes	<b>Ranking of potential significance</b>	Low
<b>Can the impacts be mitigated?</b>	Fully	<b>Justification for ranking</b>	
<b>Do the operations comply with standards, plans, policies?</b>	Yes		
<b>Criteria</b>	Habitat of a threatened species or ecological community		
<b>Potential impacts</b>	There are no threatened species or communities recorded within the proposed drilling area		
<b>Proposed management controls</b>	n/a		
<b>Duration</b>	14		
<b>Application ranking</b>	Positive		
<b>What is the confidence in predicting impacts?</b>	High	<b>Are further studies required on impacts or mitigation?</b>	No
<b>How resilient is the environment to cope with impacts?</b>	High Resilience	<b>What is the level of public concern?</b>	Low
<b>Can the impacts be reversed?</b>	Yes	<b>Ranking of potential significance</b>	Low
<b>Can the impacts be mitigated?</b>	Fully	<b>Justification for ranking</b>	
<b>Do the operations comply with standards, plans, policies?</b>	Yes		
<b>Criteria</b>	Habitat of protected aquatic species or those with conservation status.		
<b>Potential impacts</b>	There are no threatened species or communities recorded within the proposed drilling area		
<b>Proposed management controls</b>	n/a		
<b>Duration</b>	14		
<b>Application ranking</b>	Positive		
<b>What is the confidence in predicting impacts?</b>	N/A	<b>Are further studies required on impacts or mitigation?</b>	No
<b>How resilient is the environment to cope with impacts?</b>	N/A	<b>What is the level of public concern?</b>	N/A
<b>Can the impacts be reversed?</b>	N/A	<b>Ranking of potential significance</b>	Low
<b>Can the impacts be mitigated?</b>	N/A	<b>Justification for ranking</b>	
<b>Do the operations comply with standards, plans, policies?</b>	Yes		
<b>Criteria</b>	Key Threatening Processes: As outlined in Schedule 4 of Biodiversity Conservation Act 2016. Includes: a. alteration, removal, clearly or degradation of habitat and native vegetation b. loss of hollow bearing trees c. removal of dead wood and dead trees d. invasion and establishment of exotic species.		
<b>Potential impacts</b>	There are no threatened species recorded in this location. The small drilling program does not require vegetation clearance. Minor areas of disturbance will be rehabilitated within a couple of months and so minimal impact is envisaged.		
<b>Proposed management controls</b>	Drill site locations are determined based on area of least impact to the environment. Rehabilitation will be undertaken as soon as is reasonably practicable but within the timeframe of this drilling approval application.		
<b>Duration</b>	14		
<b>Application ranking</b>	Negligible		

What is the confidence in predicting impacts?	High	Are further studies required on impacts or mitigation?	No
How resilient is the environment to cope with impacts?	High Resilience	What is the level of public concern?	Low
Can the impacts be reversed?	Yes	Ranking of potential significance	Low
Can the impacts be mitigated?	Fully	Justification for ranking	
Do the operations comply with standards, plans, policies?	Yes		
<b>Criteria</b>	Barriers to movement of fauna: Any potential to endanger, displace or disturb fauna (including fauna of conservation significance) or create a barrier to their movement.		
<b>Potential impacts</b>	There are no threatened species recorded in this location. The small drilling program does not require vegetation clearance. Minor areas of disturbance will be rehabilitated within a couple of months and so minimal impact is envisaged.		
<b>Proposed management controls</b>	Drill site locations are determined based on area of least impact to the environment. Rehabilitation will be undertaken as soon as is reasonably practicable but within the timeframe of this drilling approval application.		
<b>Duration</b>	14		
<b>Application ranking</b>	Negligible		
What is the confidence in predicting impacts?	High	Are further studies required on impacts or mitigation?	No
How resilient is the environment to cope with impacts?	High Resilience	What is the level of public concern?	Low
Can the impacts be reversed?	Yes	Ranking of potential significance	Low
Can the impacts be mitigated?	Fully	Justification for ranking	
Do the operations comply with standards, plans, policies?	Yes		
<b>Criteria</b>	Ecological & Biosecurity Impacts: Any threat to the biological diversity or ecological integrity of an ecological community.		
<b>Potential impacts</b>	No impact envisaged		
<b>Proposed management controls</b>	n/a		
<b>Duration</b>	14		
<b>Application ranking</b>	1,2		
What is the confidence in predicting impacts?	High	Are further studies required on impacts or mitigation?	No
How resilient is the environment to cope with impacts?	High Resilience	What is the level of public concern?	Low
Can the impacts be reversed?	N/A	Ranking of potential significance	Low
Can the impacts be mitigated?	Fully	Justification for ranking	
Do the operations comply with standards, plans, policies?	Yes		
<b>Criteria</b>	Ecological & Biosecurity Impacts: Creates a biosecurity risk or introduces genetically modified organisms into an area. Includes impacts from the introduction of: a. mobilisation of pollutants b. animal pests, c. plant pests and diseases, d. animal diseases, e. noxious weeds, or f. genetically modified organisms.		
<b>Potential impacts</b>	No impact envisaged		
<b>Proposed management controls</b>	n/a		
<b>Duration</b>	14		
<b>Application ranking</b>	1,2		



What is the confidence in predicting impacts?	High	Are further studies required on impacts or mitigation?	No
How resilient is the environment to cope with impacts?	Uncertain	What is the level of public concern?	Low
Can the impacts be reversed?	Yes	Ranking of potential significance	Low
Can the impacts be mitigated?	Fully	Justification for ranking	
Do the operations comply with standards, plans, policies?	Yes		
<b>Criteria</b>	Ecological & Biosecurity Impacts: Likely to cause a significant bushfire risk.		
Potential impacts	No impact envisaged		
Proposed management controls	n/a		
Duration	14		
Application ranking	1,2		
What is the confidence in predicting impacts?	High	Are further studies required on impacts or mitigation?	No
How resilient is the environment to cope with impacts?	High Resilience	What is the level of public concern?	Low
Can the impacts be reversed?	Yes	Ranking of potential significance	Low
Can the impacts be mitigated?	Fully	Justification for ranking	
Do the operations comply with standards, plans, policies?	Yes		
<b>Criteria</b>	Community Resources: Any degradation of infrastructure or significant increase in the demand for services and infrastructure resources.		
Potential impacts	There will be no impact to the demand or use of local services and resources for this drill program		
Proposed management controls			
Duration	14		
Application ranking	Positive		
What is the confidence in predicting impacts?	High	Are further studies required on impacts or mitigation?	No
How resilient is the environment to cope with impacts?	High Resilience	What is the level of public concern?	Low
Can the impacts be reversed?	N/A	Ranking of potential significance	Low
Can the impacts be mitigated?	Fully	Justification for ranking	
Do the operations comply with standards, plans, policies?	Yes		
<b>Criteria</b>	Community Resources: Any diversion of resources to the detriment of other communities or natural systems.		
Potential impacts	No diversion of resources required		
Proposed management controls	n/a		
Duration	14		
Application ranking			
What is the confidence in predicting impacts?	High	Are further studies required on impacts or mitigation?	No
How resilient is the environment to cope with impacts?	High Resilience	What is the level of public concern?	Low
Can the impacts be reversed?	N/A	Ranking of potential significance	Low

Can the impacts be mitigated?	Fully	Justification for ranking	
Do the operations comply with standards, plans, policies?	Yes		
<b>Criteria</b>	Natural Resources: Any disruption, depletion or destruction of natural resources.		
<b>Potential impacts</b>	The proposed drilling program is not anticipated to disrupt, deplete or destroy any natural resources		
<b>Proposed management controls</b>	n/a		
<b>Duration</b>	14		
<b>Application ranking</b>	Positive		
What is the confidence in predicting impacts?	High	Are further studies required on impacts or mitigation?	No
How resilient is the environment to cope with impacts?	High Resilience	What is the level of public concern?	Low
Can the impacts be reversed?	Yes	Ranking of potential significance	Low
Can the impacts be mitigated?	Fully	Justification for ranking	
Do the operations comply with standards, plans, policies?	Yes		
<b>Criteria</b>	Natural Resources: Any disruption of existing activities which rely on natural resources, including forestry, farming or extractive industries (or reduction of options for future activities).		
<b>Potential impacts</b>	The proposed program will be undertaken at a time appropriate to landholders and so will not disrupt any existing activities. The drill hole is to be collared in paddocks which are used for grazing purposes.		
<b>Proposed management controls</b>	n/a		
<b>Duration</b>	14		
<b>Application ranking</b>	Positive		
What is the confidence in predicting impacts?	High	Are further studies required on impacts or mitigation?	No
How resilient is the environment to cope with impacts?	High Resilience	What is the level of public concern?	Low
Can the impacts be reversed?	Yes	Ranking of potential significance	Low
Can the impacts be mitigated?	Fully	Justification for ranking	
Do the operations comply with standards, plans, policies?	Yes		
<b>Criteria</b>	Natural Resources: Any use which results in the degradation of any area reserved for conservation purposes.		
<b>Potential impacts</b>	n/a		
<b>Proposed management controls</b>	n/a		
<b>Duration</b>	14		
<b>Application ranking</b>	Positive		
What is the confidence in predicting impacts?	High	Are further studies required on impacts or mitigation?	N/A
How resilient is the environment to cope with impacts?	N/A	What is the level of public concern?	N/A
Can the impacts be reversed?	N/A	Ranking of potential significance	Low
Can the impacts be mitigated?	N/A	Justification for ranking	
Do the operations comply with standards, plans, policies?	N/A		
<b>Criteria</b>	Sensitive Land Impacts: Impacts on National parks and other areas reserved or dedicated or acquired under the National Parks and Wildlife Act 1974.		
<b>Potential impacts</b>	N/A		
<b>Proposed management controls</b>	N/A		
<b>Duration</b>	N/A		
<b>Application ranking</b>	N/A		

What is the confidence in predicting impacts?	N/A	Are further studies required on impacts or mitigation?	N/A
How resilient is the environment to cope with impacts?	N/A	What is the level of public concern?	Low
Can the impacts be reversed?	N/A	Ranking of potential significance	N/A
Can the impacts be mitigated?	N/A	Justification for ranking	
Do the operations comply with standards, plans, policies?	N/A		
<b>Criteria</b>	Sensitive Land Impacts: Land subject to a 'conservation agreement' under the National Parks and Wildlife Act 1974 and/or the Biodiversity Conservation Act 2016. This includes: a. Biobanking agreement (established under the now repealed Threatened Species Conservation Act 1995) or a Biodiversity Stewardship agreement established under the Biodiversity Conservation Act 2016. b. Wildlife Refuge agreement established under the Biodiversity Conservation Act 2016. c. Existing conservation agreements that continue to have effect even where legislation has been repealed: ☐ Trust agreements under the now repealed Nature Conservation Trust Act 2001 ☐ Property vegetation plans made under the now-repealed Native Vegetation Act 2003 ☐ Registered property agreements under the repealed Native Vegetation Conservation Act 1997		
Potential impacts	N/A		
Proposed management controls	N/A		
Duration	N/A		
Application ranking	N/A		
What is the confidence in predicting impacts?	N/A	Are further studies required on impacts or mitigation?	N/A
How resilient is the environment to cope with impacts?	N/A	What is the level of public concern?	N/A
Can the impacts be reversed?	N/A	Ranking of potential significance	N/A
Can the impacts be mitigated?	N/A	Justification for ranking	
Do the operations comply with standards, plans, policies?	N/A		
<b>Criteria</b>	Sensitive Land Impacts: Impacts on aquatic reserves or marine parks declared under the Marine Estate Management Act 2014. Impacts on Coastal Zone as defined in the Coastal Management Act 2016.		
Potential impacts	N/A		
Proposed management controls	N/A		
Duration	N/A		
Application ranking	N/A		
What is the confidence in predicting impacts?	N/A	Are further studies required on impacts or mitigation?	N/A
How resilient is the environment to cope with impacts?	N/A	What is the level of public concern?	N/A
Can the impacts be reversed?	N/A	Ranking of potential significance	N/A
Can the impacts be mitigated?	N/A	Justification for ranking	
Do the operations comply with standards, plans, policies?	N/A		
<b>Criteria</b>	Sensitive Land Impacts: Fishing grounds and commercial fish breeding or nursery areas.		
Potential impacts	n/a		
Proposed management controls	n/a		
Duration	14		
Application ranking	Positive		

What is the confidence in predicting impacts?	High	Are further studies required on impacts or mitigation?	N/A
How resilient is the environment to cope with impacts?	N/A	What is the level of public concern?	Low
Can the impacts be reversed?	N/A	Ranking of potential significance	Low
Can the impacts be mitigated?	N/A	Justification for ranking	
Do the operations comply with standards, plans, policies?	N/A		
<b>Criteria</b>	Sensitive Land Impacts: Impacts on other sensitive lands including: a. Land within a state forest set aside under the Forestry Act 2012 for conservation values. This includes flora reserves and special management (and other) zones. b. Drinking water catchment protection areas - land declared to be a 'controlled area' or a 'special area' under the Water NSW Act 2014, or a 'special area' under the Water Management Act 2000 or Hunter Water Act 1991. c. Waterfront land as defined under the Water Management Act 2000.		
Potential impacts	n/a		
Proposed management controls	n/a		
Duration	14		
Application ranking	Positive		
What is the confidence in predicting impacts?	High	Are further studies required on impacts or mitigation?	No
How resilient is the environment to cope with impacts?	N/A	What is the level of public concern?	Low
Can the impacts be reversed?	N/A	Ranking of potential significance	Low
Can the impacts be mitigated?	N/A	Justification for ranking	
Do the operations comply with standards, plans, policies?	Yes		
<b>Criteria</b>	Sensitive Land Impacts: Impacts on land reserved or dedicated within the meaning of the Crown Lands Act 1989/Crown Lands Management Act 2016 for preservation of the environment or other environmental protection purposes.		
Potential impacts	N/A		
Proposed management controls	N/A		
Duration	N/A		
Application ranking	N/A		
What is the confidence in predicting impacts?	N/A	Are further studies required on impacts or mitigation?	N/A
How resilient is the environment to cope with impacts?	N/A	What is the level of public concern?	N/A
Can the impacts be reversed?	N/A	Ranking of potential significance	N/A
Can the impacts be mitigated?	N/A	Justification for ranking	
Do the operations comply with standards, plans, policies?	N/A		
<b>Criteria</b>	Sensitive Land Impacts: Impacts on land identified as wilderness or declared a wilderness area under the Wilderness Act 1987.		
Potential impacts	N/A		
Proposed management controls	N/A		
Duration	N/A		
Application ranking	N/A		
What is the confidence in predicting impacts?	N/A	Are further studies required on impacts or mitigation?	N/A

How resilient is the environment to cope with impacts?	N/A	What is the level of public concern?	N/A
Can the impacts be reversed?	N/A	Ranking of potential significance	N/A
Can the impacts be mitigated?	N/A	Justification for ranking	
Do the operations comply with standards, plans, policies?	N/A		
<b>Criteria</b>	Sensitive Lands: Impacts on wetlands of international significance designated under the Ramsar Convention on Wetlands and those designated as a nationally important wetland in the Directory of Important Wetlands of Australia.		
Potential impacts	N/A		
Proposed management controls	N/A		
Duration	N/A		
Application ranking	N/A		
What is the confidence in predicting impacts?	N/A	Are further studies required on impacts or mitigation?	N/A
How resilient is the environment to cope with impacts?	N/A	What is the level of public concern?	N/A
Can the impacts be reversed?	N/A	Ranking of potential significance	N/A
Can the impacts be mitigated?	N/A	Justification for ranking	
Do the operations comply with standards, plans, policies?	N/A		
<b>Criteria</b>	Sensitive Land Impacts: Impacts on land identified in an environmental planning instrument as being of biodiversity / conservation significance or zoned for environmental conservation, protection and/or management. Includes Coastal Wetlands and Littoral rainforests under State Environmental Planning Policy (Resilience and Hazards) 2021.		
Potential impacts	N/A		
Proposed management controls	N/A		
Duration	N/A		
Application ranking	N/A		
What is the confidence in predicting impacts?	High	Are further studies required on impacts or mitigation?	No
How resilient is the environment to cope with impacts?	High Resilience	What is the level of public concern?	Low
Can the impacts be reversed?	Yes	Ranking of potential significance	Low
Can the impacts be mitigated?	Fully	Justification for ranking	
Do the operations comply with standards, plans, policies?	Yes		
<b>Criteria</b>	Sensitive Land Impacts: Impacts on Aboriginal heritage protection areas: a. Aboriginal places and objects under the National Parks and Wildlife Act 1974 b. Areas of Aboriginal cultural significance identified in an environmental planning instrument.		
Potential impacts	N/A		
Proposed management controls	N/A		
Duration	N/A		
Application ranking	N/A		
What is the confidence in predicting impacts?	N/A	Are further studies required on impacts or mitigation?	N/A
How resilient is the environment to cope with impacts?	N/A	What is the level of public concern?	N/A

Can the impacts be reversed?	N/A	Ranking of potential significance	N/A
Can the impacts be mitigated?	N/A	Justification for ranking	
Do the operations comply with standards, plans, policies?	N/A		
<b>Criteria</b>	Sensitive Land Impacts: Impacts on heritage protection areas (historic or natural): a. Nationally and internationally recognised heritage sites or areas (World Heritage List, National Heritage List of Commonwealth Heritage List) b. Items listed on State Heritage c. Heritage items and conservation areas identified in an environmental planning instrument		
Potential impacts	N/A		
Proposed management controls	N/A		
Duration	N/A		
Application ranking	N/A		
What is the confidence in predicting impacts?	N/A	Are further studies required on impacts or mitigation?	N/A
How resilient is the environment to cope with impacts?	N/A	What is the level of public concern?	N/A
Can the impacts be reversed?	N/A	Ranking of potential significance	N/A
Can the impacts be mitigated?	N/A	Justification for ranking	
Do the operations comply with standards, plans, policies?	N/A		
<b>Criteria</b>	Sensitive Land Impacts: Impacts on community land classified under the Local Government Act 1993 (for which a plan of management has been prepared).		
Potential impacts	N/A		
Proposed management controls	N/A		
Duration	N/A		
Application ranking	N/A		
What is the confidence in predicting impacts?	N/A	Are further studies required on impacts or mitigation?	N/A
How resilient is the environment to cope with impacts?	N/A	What is the level of public concern?	N/A
Can the impacts be reversed?	N/A	Ranking of potential significance	N/A
Can the impacts be mitigated?	N/A	Justification for ranking	
Do the operations comply with standards, plans, policies?	N/A		
<b>Criteria</b>	Sensitive Land Impacts: Impacts on bushfire prone areas.		
Potential impacts	n/a		
Proposed management controls	n/a		
Duration	14		
Application ranking	Positive		
What is the confidence in predicting impacts?	High	Are further studies required on impacts or mitigation?	No
How resilient is the environment to cope with impacts?	High Resilience	What is the level of public concern?	Low
Can the impacts be reversed?	Yes	Ranking of potential significance	Low
Can the impacts be mitigated?	Fully	Justification for ranking	
Do the operations comply with standards, plans, policies?	Yes		

<b>Criteria</b>	Social Impacts: Any impacts which result in a change in the demographic structure of the community, including changes to workforce or industry structure of the area/region. Including change in demand for community resources (eg community facilities, community services and labour force).		
<b>Potential impacts</b>	The proposed program is small and will not effect the demographics of the local communities		
<b>Proposed management controls</b>	Exploration has been undertaken in this area by previous explorers for many years. Community consultation has been initiated with affected landholders and the community. A regular flow of information will be provided, and any concerns will be addressed immediately. No issues have been raised to date.		
<b>Duration</b>	14		
<b>Application ranking</b>	Negligible		
<b>What is the confidence in predicting impacts?</b>	High	<b>Are further studies required on impacts or mitigation?</b>	No
<b>How resilient is the environment to cope with impacts?</b>	High Resilience	<b>What is the level of public concern?</b>	Low
<b>Can the impacts be reversed?</b>	Yes	<b>Ranking of potential significance</b>	Low
<b>Can the impacts be mitigated?</b>	Fully	<b>Justification for ranking</b>	
<b>Do the operations comply with standards, plans, policies?</b>	Yes		
<b>Criteria</b>	Social Impacts: Any environmental impact that may cause substantial change or disruption to the community (including loss of facilities or loss of community identity).		
<b>Potential impacts</b>	There will be no impact or change to the community following the proposed drilling program.		
<b>Proposed management controls</b>	Exploration has been undertaken in this area by previous explorers for many years. Community consultation has been initiated with affected landholders and the community. A regular flow of information will be provided, and any concerns will be addressed immediately. No issues have been raised to date.		
<b>Duration</b>	14		
<b>Application ranking</b>	Negligible		
<b>What is the confidence in predicting impacts?</b>	High	<b>Are further studies required on impacts or mitigation?</b>	No
<b>How resilient is the environment to cope with impacts?</b>	High Resilience	<b>What is the level of public concern?</b>	Low
<b>Can the impacts be reversed?</b>	Yes	<b>Ranking of potential significance</b>	Low
<b>Can the impacts be mitigated?</b>	Fully	<b>Justification for ranking</b>	
<b>Do the operations comply with standards, plans, policies?</b>	Yes		
<b>Criteria</b>	Social Impacts: Any impacts which result in some individuals or communities being significantly disadvantaged (e.g. change to community facilities, services or labour force).		
<b>Potential impacts</b>	The small program will not disadvantage the community or individuals in the area.		
<b>Proposed management controls</b>	Exploration has been undertaken in this area by previous explorers for many years. Community consultation has been initiated with affected landholders and the community. A regular flow of information will be provided, and any concerns will be addressed immediately. No issues have been raised to date.		
<b>Duration</b>	14		
<b>Application ranking</b>	Negligible		
<b>What is the confidence in predicting impacts?</b>	High	<b>Are further studies required on impacts or mitigation?</b>	No
<b>How resilient is the environment to cope with impacts?</b>	High Resilience	<b>What is the level of public concern?</b>	Low
<b>Can the impacts be reversed?</b>	Yes	<b>Ranking of potential significance</b>	Low
<b>Can the impacts be mitigated?</b>	Fully	<b>Justification for ranking</b>	
<b>Do the operations comply with standards, plans, policies?</b>	Yes		
<b>Criteria</b>	Social Impacts: Any impacts on the health, safety, privacy or welfare of individuals or communities caused by factors such as pollution, odour, noise, vibration, lighting, visual impacts, etc).		

<b>Potential impacts</b>	The impacts are minimal and not within close proximity to sensitive receptors or communities.		
<b>Proposed management controls</b>	Exploration has been undertaken in this area by previous explorers for many years. Community consultation has been initiated with affected landholders and the community. A regular flow of information will be provided, and any concerns will be addressed immediately. No issues have been raised to date.		
<b>Duration</b>	14		
<b>Application ranking</b>	Negligible		
<b>What is the confidence in predicting impacts?</b>	High	<b>Are further studies required on impacts or mitigation?</b>	No
<b>How resilient is the environment to cope with impacts?</b>	High Resilience	<b>What is the level of public concern?</b>	Low
<b>Can the impacts be reversed?</b>	Yes	<b>Ranking of potential significance</b>	Low
<b>Can the impacts be mitigated?</b>	Fully	<b>Justification for ranking</b>	
<b>Do the operations comply with standards, plans, policies?</b>	Yes		
<b>Criteria</b>	Social Impacts: Effect on a locality, place or building having aesthetic, anthropological, archaeological, architectural, cultural, historical, scientific or social significance or other special value for present or future generations?		
<b>Potential impacts</b>	There will be no detrimental effect on the aesthetics, or any other special value.		
<b>Proposed management controls</b>	Exploration has been undertaken in this area by previous explorers for many years. Community consultation has been initiated with affected landholders and the community. A regular flow of information will be provided, and any concerns will be addressed immediately. No issues have been raised to date.		
<b>Duration</b>	14		
<b>Application ranking</b>	Negligible		
<b>What is the confidence in predicting impacts?</b>	High	<b>Are further studies required on impacts or mitigation?</b>	No
<b>How resilient is the environment to cope with impacts?</b>	High Resilience	<b>What is the level of public concern?</b>	Low
<b>Can the impacts be reversed?</b>	Yes	<b>Ranking of potential significance</b>	Low
<b>Can the impacts be mitigated?</b>	Fully	<b>Justification for ranking</b>	
<b>Do the operations comply with standards, plans, policies?</b>	Yes		
<b>Criteria</b>	Social Impacts: Impacts on communities with strong sense of identity.		
<b>Potential impacts</b>	There will be no impact or change to the community following the proposed drilling program.		
<b>Proposed management controls</b>	Exploration has been undertaken in this area by previous explorers for many years. Community consultation has been initiated with affected landholders and the community. A regular flow of information will be provided, and any concerns will be addressed immediately. No issues have been raised to date.		
<b>Duration</b>	14		
<b>Application ranking</b>	Negligible		
<b>What is the confidence in predicting impacts?</b>	High	<b>Are further studies required on impacts or mitigation?</b>	No
<b>How resilient is the environment to cope with impacts?</b>	High Resilience	<b>What is the level of public concern?</b>	Low
<b>Can the impacts be reversed?</b>	Yes	<b>Ranking of potential significance</b>	Low
<b>Can the impacts be mitigated?</b>	Fully	<b>Justification for ranking</b>	
<b>Do the operations comply with standards, plans, policies?</b>	Yes		
<b>Criteria</b>	Social Impacts: Impacts on disadvantaged communities.		
<b>Potential impacts</b>	There will be no impact or change to the community following the proposed drilling program.		
<b>Proposed management controls</b>	Exploration has been undertaken in this area by previous explorers for many years. Community consultation has been initiated with affected landholders and the community. A regular flow of information will be provided, and any concerns will be addressed immediately. No issues have been raised to date.		



<b>Duration</b>	14		
<b>Application ranking</b>	Negligible		
What is the confidence in predicting impacts?	High	Are further studies required on impacts or mitigation?	No
How resilient is the environment to cope with impacts?	High Resilience	What is the level of public concern?	Low
Can the impacts be reversed?	Yes	Ranking of potential significance	Low
Can the impacts be mitigated?	Fully	<b>Justification for ranking</b>	
Do the operations comply with standards, plans, policies?	Yes		
<b>Criteria</b>	Economic Impacts: Any impacts which may affect economic activity (positive or negative), including a decrease to net economic welfare.		
Potential impacts	n/a		
Proposed management controls	n/a		
<b>Duration</b>	14		
<b>Application ranking</b>			
What is the confidence in predicting impacts?	High	Are further studies required on impacts or mitigation?	No
How resilient is the environment to cope with impacts?	High Resilience	What is the level of public concern?	Low
Can the impacts be reversed?	Yes	Ranking of potential significance	Low
Can the impacts be mitigated?	Fully	<b>Justification for ranking</b>	
Do the operations comply with standards, plans, policies?	Yes		
<b>Criteria</b>	Economic Impacts: Any impacts that result in a decrease in the economic stability of the community.		
Potential impacts	n/a		
Proposed management controls	n/a		
<b>Duration</b>	14		
<b>Application ranking</b>			
What is the confidence in predicting impacts?	High	Are further studies required on impacts or mitigation?	No
How resilient is the environment to cope with impacts?	High Resilience	What is the level of public concern?	Low
Can the impacts be reversed?	Yes	Ranking of potential significance	Low
Can the impacts be mitigated?	Fully	<b>Justification for ranking</b>	
Do the operations comply with standards, plans, policies?	Yes		
<b>Criteria</b>	Economic Impacts: Any impacts which result in a change to the public sector revenue or expenditure base.		
Potential impacts	n/a		
Proposed management controls	n/a		
<b>Duration</b>	14		
<b>Application ranking</b>			
What is the confidence in predicting impacts?	High	Are further studies required on impacts or mitigation?	No
How resilient is the environment to cope with impacts?	High Resilience	What is the level of public concern?	Low

Can the impacts be reversed?	Yes	Ranking of potential significance	Low
Can the impacts be mitigated?	Fully	Justification for ranking	
Do the operations comply with standards, plans, policies?	Yes		
<b>Criteria</b>	Heritage Impacts: Any impacts on a locality, place, landscape, building or archaeological relic of heritage significance.		
Potential impacts	There are no listed heritage items, places or areas in this proposed drilling area.		
Proposed management controls	n/a		
Duration	14		
Application ranking	Positive		
What is the confidence in predicting impacts?	High	Are further studies required on impacts or mitigation?	No
How resilient is the environment to cope with impacts?	High Resilience	What is the level of public concern?	Low
Can the impacts be reversed?	Yes	Ranking of potential significance	Low
Can the impacts be mitigated?	Fully	Justification for ranking	
Do the operations comply with standards, plans, policies?	Yes		
<b>Criteria</b>	Aesthetic Impacts: Any impacts on the visual or scenic landscape, including lighting, venting or flaring of gas.		
Potential impacts	The proposed drilling area is more than 500m away from nearest residence and will likely not be visible at all. No night works required so light will not impact.		
Proposed management controls	No drilling within 500m of houses.		
Duration	14		
Application ranking	Negligible		
What is the confidence in predicting impacts?	High	Are further studies required on impacts or mitigation?	No
How resilient is the environment to cope with impacts?	High Resilience	What is the level of public concern?	Low
Can the impacts be reversed?	Yes	Ranking of potential significance	Low
Can the impacts be mitigated?	Fully	Justification for ranking	
Do the operations comply with standards, plans, policies?	Yes		
<b>Criteria</b>	Aesthetic Impacts: Areas or items of high aesthetic or scenic value.		
Potential impacts	The proposed drilling area is more than 500m away from nearest residence and will likely not be visible at all. No night works required so light will not impact.		
Proposed management controls	No drilling within 500m of houses.		
Duration	14		
Application ranking	Negligible		
What is the confidence in predicting impacts?	High	Are further studies required on impacts or mitigation?	No
How resilient is the environment to cope with impacts?	High Resilience	What is the level of public concern?	Low
Can the impacts be reversed?	Yes	Ranking of potential significance	Low
Can the impacts be mitigated?	Fully	Justification for ranking	
Do the operations comply with standards, plans, policies?	Yes		
<b>Criteria</b>	Cultural Impacts: Any disturbance of the ground surface or any culturally modified trees (e.g. a scar tree).		
Potential impacts	There are no recorded aboriginal objects or places within the proposed drilling area as per the AHIMS search conducted		

<b>Proposed management controls</b>	No drilling within 200m of the Bogan River.		
<b>Duration</b>	14		
<b>Application ranking</b>	Positive		
<b>What is the confidence in predicting impacts?</b>	High	<b>Are further studies required on impacts or mitigation?</b>	No
<b>How resilient is the environment to cope with impacts?</b>	High Resilience	<b>What is the level of public concern?</b>	Low
<b>Can the impacts be reversed?</b>	Yes	<b>Ranking of potential significance</b>	Low
<b>Can the impacts be mitigated?</b>	Fully	<b>Justification for ranking</b>	
<b>Do the operations comply with standards, plans, policies?</b>	Yes		
<b>Criteria</b>	Cultural Impacts: Any impacts on known Aboriginal objects or Aboriginal places.		
<b>Potential impacts</b>	n/a		
<b>Proposed management controls</b>	No drilling within 200m of the Bogan River.		
<b>Duration</b>	14		
<b>Application ranking</b>	Positive		
<b>What is the confidence in predicting impacts?</b>	High	<b>Are further studies required on impacts or mitigation?</b>	No
<b>How resilient is the environment to cope with impacts?</b>	High Resilience	<b>What is the level of public concern?</b>	Low
<b>Can the impacts be reversed?</b>	Yes	<b>Ranking of potential significance</b>	Low
<b>Can the impacts be mitigated?</b>	Fully	<b>Justification for ranking</b>	
<b>Do the operations comply with standards, plans, policies?</b>	Yes		
<b>Criteria</b>	Cultural Impacts: Affects areas where the landscape features indicate the likely presence of Aboriginal objects.		
<b>Potential impacts</b>	The drilling will take place in paddocks used for grazing, and exploration will not occur within 200m of the Bogan River.		
<b>Proposed management controls</b>	No drilling within 200m of the Bogan River.		
<b>Duration</b>	14		
<b>Application ranking</b>	Positive		
<b>What is the confidence in predicting impacts?</b>	High	<b>Are further studies required on impacts or mitigation?</b>	No
<b>How resilient is the environment to cope with impacts?</b>	High Resilience	<b>What is the level of public concern?</b>	Low
<b>Can the impacts be reversed?</b>	No	<b>Ranking of potential significance</b>	Low
<b>Can the impacts be mitigated?</b>	Fully	<b>Justification for ranking</b>	
<b>Do the operations comply with standards, plans, policies?</b>	Yes		
<b>Criteria</b>	Cultural Impacts: Affects areas subject to native title claims, indigenous land use agreements or joint management arrangements.		
<b>Potential impacts</b>	The proposed drilling area is not within an area where native title may exist.		
<b>Proposed management controls</b>	No drilling within 200m of the Bogan River.		
<b>Duration</b>	14		
<b>Application ranking</b>	Positive		
<b>What is the confidence in predicting impacts?</b>	High	<b>Are further studies required on impacts or mitigation?</b>	No

How resilient is the environment to cope with impacts?	High Resilience	What is the level of public concern?	Low
Can the impacts be reversed?	Yes	Ranking of potential significance	Low
Can the impacts be mitigated?	Fully	Justification for ranking	
Do the operations comply with standards, plans, policies?	Yes		
<b>Criteria</b>	Cultural Impacts: Impacts on Aboriginal communities or areas subject to land rights claims.		
Potential impacts	n/a		
Proposed management controls	No drilling within 200m of the Bogan River.		
Duration	14		
Application ranking	Positive		
What is the confidence in predicting impacts?	High	Are further studies required on impacts or mitigation?	No
How resilient is the environment to cope with impacts?	High Resilience	What is the level of public concern?	Low
Can the impacts be reversed?	Yes	Ranking of potential significance	Low
Can the impacts be mitigated?	Fully	Justification for ranking	
Do the operations comply with standards, plans, policies?	Yes		
<b>Criteria</b>	Cultural Impacts: Impacts on areas or items of high anthropological, archaeological, architectural, cultural, heritage, historical, recreational or scientific value.		
Potential impacts	There are no recorded aboriginal objects or places within the proposed drilling area as per the AHIMS search conducted		
Proposed management controls	No drilling within 200m of the Bogan River.		
Duration	14		
Application ranking	Positive		
What is the confidence in predicting impacts?	High	Are further studies required on impacts or mitigation?	No
How resilient is the environment to cope with impacts?	High Resilience	What is the level of public concern?	Low
Can the impacts be reversed?	Yes	Ranking of potential significance	Low
Can the impacts be mitigated?	Fully	Justification for ranking	
Do the operations comply with standards, plans, policies?	Yes		
<b>Criteria</b>	Land Use Impacts: Any major changes in land use, including curtailment of other beneficial land uses.		
Potential impacts	n/a		
Proposed management controls	n/a		
Duration	14		
Application ranking	Positive		
What is the confidence in predicting impacts?	High	Are further studies required on impacts or mitigation?	No
How resilient is the environment to cope with impacts?	N/A	What is the level of public concern?	Low
Can the impacts be reversed?	N/A	Ranking of potential significance	Low
Can the impacts be mitigated?	N/A	Justification for ranking	
Do the operations comply with standards, plans, policies?	Yes		

<b>Criteria</b>	Transportation Impacts: Substantial impacts on existing transportation systems (road, rail, pedestrian) which alter present patterns of circulation or movement.		
<b>Potential impacts</b>	There will be no significant impact on transportation from a small temporary drilling program		
<b>Proposed management controls</b>	n/a		
<b>Duration</b>	14		
<b>Application ranking</b>	Positive		
<b>What is the confidence in predicting impacts?</b>	High	<b>Are further studies required on impacts or mitigation?</b>	No
<b>How resilient is the environment to cope with impacts?</b>	High Resilience	<b>What is the level of public concern?</b>	Low
<b>Can the impacts be reversed?</b>	Yes	<b>Ranking of potential significance</b>	Low
<b>Can the impacts be mitigated?</b>	Fully	<b>Justification for ranking</b>	
<b>Do the operations comply with standards, plans, policies?</b>	Yes		
<b>Criteria</b>	Transportation Impacts: Impacts associated with direct or indirect additional traffic.		
<b>Potential impacts</b>	There will be no significant impact on transportation from a small temporary drilling program		
<b>Proposed management controls</b>	n/a		
<b>Duration</b>	14		
<b>Application ranking</b>	Positive		
<b>What is the confidence in predicting impacts?</b>	High	<b>Are further studies required on impacts or mitigation?</b>	No
<b>How resilient is the environment to cope with impacts?</b>	High Resilience	<b>What is the level of public concern?</b>	Low
<b>Can the impacts be reversed?</b>	Yes	<b>Ranking of potential significance</b>	Low
<b>Can the impacts be mitigated?</b>	Fully	<b>Justification for ranking</b>	
<b>Do the operations comply with standards, plans, policies?</b>	Yes		
<b>Criteria</b>	Consistency with applicable local strategic planning statements, regional strategic plans or district strategic plans.		
<b>Potential impacts</b>	The drilling area is classified as terrestrial biodiversity under the Bogan LEP 2011. The temporary drilling program is not anticipated to have adverse impacts on the flora and fauna in this area. Map and further information relating to the Narromine area Terrestrial Biodiversity are attached to the APO.		
<b>Proposed management controls</b>	Drill only in paddocks used for agriculture (grazing). Limit vehicle movement and stick to tracks where possible. Drive slowly on tracks. Undertake rehabilitation as soon as practicable, most likely as soon as drill rig has moved from site, but otherwise within 3 months of end of drilling. Strong knowledge of the area and good relationships with landholders will ensure rehabilitation methods are undertaken efficiently and effectively. Ensure all staff and contractors maintain high standards of work and care for the environment. All rubbish and equipment removed from site as soon as practicable.		
<b>Duration</b>	14		
<b>Application ranking</b>	Negligible		
<b>What is the confidence in predicting impacts?</b>	High	<b>Are further studies required on impacts or mitigation?</b>	No
<b>How resilient is the environment to cope with impacts?</b>	High Resilience	<b>What is the level of public concern?</b>	Low
<b>Can the impacts be reversed?</b>	Yes	<b>Ranking of potential significance</b>	Low
<b>Can the impacts be mitigated?</b>	Fully	<b>Justification for ranking</b>	
<b>Do the operations comply with standards, plans, policies?</b>	Yes		
<b>Criteria</b>	Matters of National Environmental Significance: Impacts on MNES under the Commonwealth Environmental Protection and Biodiversity Conservation Act 1999:		

<b>Potential impacts</b>	<p>There are no recorded BioNet species listed within or near the APO approval areas, however the MNES search results flags threatened species in a regional assessment.</p> <p>On the MNES search there are 4 listed Threatened Ecological Communities, 26 listed Threatened species, 7 Listed Migratory Species, and 3 wetlands of international importance.</p> <p>The 4 listed threatened ecological communities show Coolibah – Black Box Woodlands of the Darling Riverine Plains and the Brigalow Belt South Bioregions, Grey Box (Eucalyptus microcarpa) Grassy Woodlands and Derived Native Grasslands of South-eastern Australia, Poplar Box Grassy Woodland on Alluvial Plains, and Weeping Myall Woodlands are Endangered and communities likely to occur in this area.</p> <p>Of the 27 listed threatened species the Curlew Sandpiper, Swift Parrot, Plains-Wanderer and Silver Perch are categorised critically endangered (the link in the MNES report states the Curlew Sandpiper, and Plains Wanderer species are endangered and not critical for NSW). The Curlew is migratory and if sighted will be reported to the Department for Environment. This species is not known to breed in Australia, therefore will not be at its most vulnerable if it is sighted. The Silver Perch is listed as critically endangered – however the link to this species indicates in NSW it is listed as Vulnerable.</p> <p>The 7 listed migratory species has the Curlew Sandpiper listed as critically endangered – however the link to this species differs stating for NSW this is endangered.</p> <p>Areas of drilling are relatively open, and vegetation is not expected to be impacted, and therefore threatened species should not be impacted.</p> <p>Banrock Station Wetland complex, Riverland, The Coorong, and Lakes Alexandrina and Albert Wetland are over 700km upstream.</p>		
<b>Proposed management controls</b>	<p>Agricultural properties that have already been cleared were selected for this drilling program to significantly reduce the risk of impacting threatened ecological communities, threatened species, and threatened migratory species.</p> <p>Vegetation is not to be cleared as part of the program therefore not damaging threatened ecological communities and the habitats of threatened species and threatened migratory species.</p> <p>Crews are instructed to not interact with wildlife or vegetation during the drilling activities.</p>		
<b>Duration</b>	14		
<b>Application ranking</b>	Positive		
<b>What is the confidence in predicting impacts?</b>	High	<b>Are further studies required on impacts or mitigation?</b>	No
<b>How resilient is the environment to cope with impacts?</b>	High Resilience	<b>What is the level of public concern?</b>	Low
<b>Can the impacts be reversed?</b>	Yes	<b>Ranking of potential significance</b>	Low
<b>Can the impacts be mitigated?</b>	Fully	<b>Justification for ranking</b>	
<b>Do the operations comply with standards, plans, policies?</b>	Yes		
<b>Criteria</b>	Cumulative Impacts: Cumulative environmental effects with other existing or likely future activities.		
<b>Potential impacts</b>	n/a		
<b>Proposed management controls</b>	n/a		
<b>Duration</b>	14		
<b>Application ranking</b>	Positive		
<b>What is the confidence in predicting impacts?</b>	High	<b>Are further studies required on impacts or mitigation?</b>	No
<b>How resilient is the environment to cope with impacts?</b>	High Resilience	<b>What is the level of public concern?</b>	Low
<b>Can the impacts be reversed?</b>	N/A	<b>Ranking of potential significance</b>	Low
<b>Can the impacts be mitigated?</b>	N/A	<b>Justification for ranking</b>	
<b>Do the operations comply with standards, plans, policies?</b>	Yes		

FORM: Brief NonCEA (v3.3)

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