

Thursday 16 May 2024

Assessable Prospecting Operation Application Decision Briefing and Review of Environmental Factors

Maules Creek | APO0001700

Decision Maker	Christine Fawcett
Prepared by	Mark Buchan
Title	CL 375 (1973)
Authorised Representative	
Project name	Maules Creek
Activity type	Non-Complying Exploration Activity

Issue

has sought an activity approval in respect of Maules Creek, within CL 375 (1973), at Maules Creek mine.

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.

Background

This exploration activity approval is being sought under Mining Lease CL 375 (granted 4/06/1991 & expiry 4/06/2033) to undertake assessable prospecting operations.

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 Maules Creek* 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.

Security

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

An RCE was not found, however the applicant indicated that rehabilitation would likely exceed \$30,000.

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 habitats), or declared areas of outstanding biodiversity value/critical habitat.

Additional terms (if approved)

No additional terms are required.

Summary

Based on the information provided in the *APPLICATION TO UNDERTAKE ASSESSABLE PROSPECTING OPERATIONS Maules*Creek 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 has been assessed and the recommendation is to Approve the activity.

Certification

I, Mark Buchan, 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.

Recommendation

The Decision Maker, under delegation from the Minister:

- Assesses the environmental impact of Maules Creek 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.

Review of Environmental Factors document

Criteria	Air Impacts: Air quality impacts (including impacts	cts on nearby sensit	ive receptors).	
Potential impacts	The Activities are unlikely to impact air quality of	on nearby sensitive	receivers. Any potential impacts to air	
	quality (e.g. wind erosion and dust from disturb	ed soil, including fro	om driving on access tracks and from	
	operating machinery) would be mitigated using	the controls descril	ped below.	
Proposed management controls	 The Activities would not involve the venting or flaring of gas. 		as.	
	 Any surface disturbance associated wit 	• Any surface disturbance associated with the Activities would be minimised as far as practicable.		
	If required, drilling would utilise water	injection methods t	o mitigate dust production.	
	• Speed limits when driving on unsealed roads and unsealed access tracks would be reduced where			
	required, e.g. on windy and dry days.			
	 Air quality management for the Activiti 	ies would follow the	Exploration Code of Practice:	
	Environmental Management.			
	 The Activities are not considered high of 	dust generating acti	vities.	
Duration	approximately 8 weeks			
Application ranking	null,2			
What is the confidence in predicting	High	Are further	No	
impacts?		studies		
		required on		
		impacts or		
		mitigation?		
How resilient is the environment to	Medium Resilience	What is the	Uncertain	
cope with impacts?		level of public		
		concern?		
Can the impacts be reversed?	Yes	Ranking of	Low	
		potential		
		significance		
Can the impacts be mitigated?	Fully	Justification for ra	anking	

	T	1	
Do the operations comply with standards, plans, policies?	Yes		
Criteria	Air Impacts: Greenhouse or ozone impacts.		
Potential impacts	The Activities are unlikely to impact air quality of	on nearby sensitive	receivers. Any potential impacts to air
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	operating machinery) would be mitigated using	the controls descril	bed below.
Proposed management controls	The Activities would not involve the ve	nting or flaring of ga	as.
	Any surface disturbance associated with	th the Activities wou	ıld be minimised as far as practicable.
	If required, drilling would utilise water	injection methods t	o mitigate dust production.
		roads and unsealed	l access tracks would be reduced where
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	Air quality management for the Activit	ies would follow the	Exploration Code of Practice:
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Duration	 The Activities are not considered high approximately 8 weeks 	dust generating acti	vities.
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How resilient is the environment to	Medium Resilience	What is the	Uncertain
cope with impacts?		level of public	
		concern?	
Can the impacts be reversed?	Yes	Ranking of	Low
		potential	
		significance	
Can the impacts be mitigated?	Fully	Justification for ra	anking
Do the operations comply with	Yes		
standards, plans, policies?	At a large state And distance I have a state of a second state of	and a dealer and the	
Criteria	Air Impacts: Additional impacts on areas with d	. ,	
Potential impacts	The Activities are unlikely to impact air quality of	•	
	quality (e.g. wind erosion and dust from disturb	_	=
Proposed management controls	operating machinery) would be mitigated using The Activities would not involve the ve		
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	The Activities are not considered high	dust generating acti	vities.
Duration	approximately 8 weeks		
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cope with impacts.		concern?	
Can the impacts be reversed?	Yes	Ranking of	Low
		potential	2011
		significance	
Can the impacts be mitigated?	Fully	Justification for ra	anking
Do the operations comply with	Yes		
standards, plans, policies?			
Criteria	Water Impacts: Impacts from the use of surface	e or groundwater.	
		water. Water requir	ed for the Activities would be sourced
Potential impacts	The Activities do not propose to utilise surface		
Potential impacts	from an onsite, in-pit dams and transferred to e	•	nine site water cart, as required. Water
Potential impacts		each drill site via a m	•
Potential impacts	from an onsite, in-pit dams and transferred to e	each drill site via a m es until new water is	required. A maximum of approximately

Proposed management controls	required.		
	Sediment controls would be installed a		
	Recirculated water and spoil from drilling	O	
	accordance with the Maules Creek Coal Mine W	_	Plan, the Exploration Code of Practice:
	Rehabilitation and by a licenced waste removal		
	Purposeful avoidance of any drainage I		
	Appropriate water management practi		mented in accordance with the
	Exploration Code of Practice: Environmental Ma	anagement.	
Duration	approximately 8 weeks		
Application ranking	Negligible		Γ
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	would be transferred and recycled between site		
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	produced would be utilised in the recirculation	of drilling fluids and	confined to above ground tanks.
Proposed management controls	required.		
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Proposed management controls	Sediment controls would be installed a Recirculated water and spoil from drilli	ng activities would	=
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Duration Application ranking What is the confidence in predicting impacts? How resilient is the environment to cope with impacts? Can the impacts be reversed? Can the impacts be mitigated? Do the operations comply with standards, plans, policies? Criteria	Sediment controls would be installed a Recirculated water and spoil from drilli accordance with the Maules Creek Coal Mine W Rehabilitation and by a licenced waste removal Purposeful avoidance of any drainage I Appropriate water management practi Exploration Code of Practice: Environmental Malapproximately 8 weeks 2,null High Medium Resilience Yes Fully Yes Water Impacts: Impacts from changes to natura The Activities do not propose to utilise surface of from an onsite, in-pit dams and transferred to expound be transferred and recycled between site 0.27 megalitres of water resources would be reproduced would be utilised in the recirculation required.	ng activities would /ater Management contractor. ines that may be loc ces would be imple anagement. Are further studies required on impacts or mitigation? What is the level of public concern? Ranking of potential significance Justification for re all water bodies, wet water. Water require each drill site via a mean can designed for the Activity of drilling fluids and	Plan, the Exploration Code of Practice: cated proximal to the Activities. mented in accordance with the No Uncertain Low lands or runoff patterns. ed for the Activities would be sourced nine site water cart, as required. Water is required. A maximum of approximately ities. Any incidental groundwater
Duration Application ranking What is the confidence in predicting impacts? How resilient is the environment to cope with impacts? Can the impacts be reversed? Can the impacts be mitigated? Do the operations comply with standards, plans, policies? Criteria Potential impacts	Sediment controls would be installed a Recirculated water and spoil from drilli accordance with the Maules Creek Coal Mine W Rehabilitation and by a licenced waste removal Purposeful avoidance of any drainage I Appropriate water management practi Exploration Code of Practice: Environmental Maapproximately 8 weeks 2,null High Medium Resilience Yes Fully Yes Water Impacts: Impacts from changes to natura The Activities do not propose to utilise surface of the from an onsite, in-pit dams and transferred to expound be transferred and recycled between site 0.27 megalitres of water resources would be reproduced would be utilised in the recirculation required. Sediment controls would be installed as	Are further studies required on impacts or mitigation? What is the level of public concern? Ranking of potential significance Justification for results and water bodies, wet water. Water required for the Activiof drilling fluids and srequired.	Plan, the Exploration Code of Practice: cated proximal to the Activities. mented in accordance with the No Uncertain Low lands or runoff patterns. ed for the Activities would be sourced nine site water cart, as required. Water required. A maximum of approximately ities. Any incidental groundwater confined to above ground tanks.
Duration Application ranking What is the confidence in predicting impacts? How resilient is the environment to cope with impacts? Can the impacts be reversed? Can the impacts be mitigated? Do the operations comply with standards, plans, policies? Criteria Potential impacts	Sediment controls would be installed a Recirculated water and spoil from drilli accordance with the Maules Creek Coal Mine W Rehabilitation and by a licenced waste removal Purposeful avoidance of any drainage I Appropriate water management practi Exploration Code of Practice: Environmental Maapproximately 8 weeks 2,null High Medium Resilience Yes Fully Yes Water Impacts: Impacts from changes to natura The Activities do not propose to utilise surface of from an onsite, in-pit dams and transferred to expound be transferred and recycled between site 0.27 megalitres of water resources would be reproduced would be utilised in the recirculation required. Sediment controls would be installed a Recirculated water and spoil from drilli	Are further studies required on impacts or mitigation? What is the level of public concern? Ranking of potential significance Justification for result of drilling fluids and strength of green and strength of the Activity of drilling fluids and strength of green activities would required.	Plan, the Exploration Code of Practice: cated proximal to the Activities. mented in accordance with the No Uncertain Low lands or runoff patterns. ed for the Activities would be sourced nine site water cart, as required. Water required. A maximum of approximately ities. Any incidental groundwater confined to above ground tanks. be managed and disposed of in
Duration Application ranking What is the confidence in predicting impacts? How resilient is the environment to cope with impacts? Can the impacts be reversed? Can the impacts be mitigated? Do the operations comply with standards, plans, policies? Criteria Potential impacts	Sediment controls would be installed a Recirculated water and spoil from drilli accordance with the Maules Creek Coal Mine W Rehabilitation and by a licenced waste removal Purposeful avoidance of any drainage I Appropriate water management practi Exploration Code of Practice: Environmental Maapproximately 8 weeks 2,null High Medium Resilience Yes Fully Yes Water Impacts: Impacts from changes to natura The Activities do not propose to utilise surface of the from an onsite, in-pit dams and transferred to expect would be transferred and recycled between site 0.27 megalitres of water resources would be reproduced would be utilised in the recirculation required. Sediment controls would be installed a Recirculated water and spoil from drilli accordance with the Maules Creek Coal Mine W	Are further studies required on impacts or mitigation? What is the level of public concern? Ranking of potential significance Justification for result of drilling fluids and strength of strength of the Activity of drilling fluids and strength of strength	Plan, the Exploration Code of Practice: cated proximal to the Activities. mented in accordance with the No Uncertain Low lands or runoff patterns. ed for the Activities would be sourced nine site water cart, as required. Water required. A maximum of approximately ities. Any incidental groundwater confined to above ground tanks. be managed and disposed of in
Duration Application ranking What is the confidence in predicting impacts? How resilient is the environment to cope with impacts? Can the impacts be reversed? Can the impacts be mitigated? Do the operations comply with standards, plans, policies? Criteria Potential impacts	Sediment controls would be installed a Recirculated water and spoil from drilli accordance with the Maules Creek Coal Mine W Rehabilitation and by a licenced waste removal Purposeful avoidance of any drainage I Appropriate water management practi Exploration Code of Practice: Environmental Maapproximately 8 weeks 2,null High Medium Resilience Yes Fully Yes Water Impacts: Impacts from changes to natura The Activities do not propose to utilise surface of from an onsite, in-pit dams and transferred to efform an onsite, in-pit dams and recycled between site of the produced would be utilised in the recirculation required. Sediment controls would be installed a Recirculated water and spoil from drilling accordance with the Maules Creek Coal Mine W Rehabilitation and by a licenced waste removal	Are further studies required on potential significance Justification for results and water bodies, wet water. Water required for the Activiof drilling fluids and vater Management contractor.	Plan, the Exploration Code of Practice: cated proximal to the Activities. mented in accordance with the No Uncertain Low lands or runoff patterns. ed for the Activities would be sourced hine site water cart, as required. Water is required. A maximum of approximately ities. Any incidental groundwater confined to above ground tanks. be managed and disposed of in Plan, the Exploration Code of Practice:
Duration Application ranking What is the confidence in predicting impacts? How resilient is the environment to cope with impacts? Can the impacts be reversed? Can the impacts be mitigated? Do the operations comply with standards, plans, policies? Criteria Potential impacts	Sediment controls would be installed a Recirculated water and spoil from drilli accordance with the Maules Creek Coal Mine W Rehabilitation and by a licenced waste removal Purposeful avoidance of any drainage I Appropriate water management practi Exploration Code of Practice: Environmental Ma approximately 8 weeks 2,null High Medium Resilience Yes Fully Yes Water Impacts: Impacts from changes to natura The Activities do not propose to utilise surface of from an onsite, in-pit dams and transferred to efform an onsite,	Are further studies required on impacts or mitigation? What is the level of public concern? Ranking of potential significance Justification for result water. Water required and water bodies, wet water. Water required for the Activity of drilling fluids and services and contractor. ines that may be locally attention of the contractor. ines that may be locally attentioned and contractor.	Plan, the Exploration Code of Practice: cated proximal to the Activities. mented in accordance with the No Uncertain Low lands or runoff patterns. ed for the Activities would be sourced hine site water cart, as required. Water is required. A maximum of approximately ities. Any incidental groundwater confined to above ground tanks. be managed and disposed of in Plan, the Exploration Code of Practice: cated proximal to the Activities.
Duration Application ranking What is the confidence in predicting impacts? How resilient is the environment to cope with impacts? Can the impacts be reversed? Can the impacts be mitigated? Do the operations comply with standards, plans, policies? Criteria Potential impacts	Sediment controls would be installed a Recirculated water and spoil from drilli accordance with the Maules Creek Coal Mine W Rehabilitation and by a licenced waste removal Purposeful avoidance of any drainage I Appropriate water management practi Exploration Code of Practice: Environmental Ma approximately 8 weeks 2,null High Medium Resilience Yes Fully Yes Water Impacts: Impacts from changes to nature The Activities do not propose to utilise surface of rom an onsite, in-pit dams and transferred to efform an onsite,	Are further studies required on potential significance Justification for result water bodies, wet water. Water required so until new water is quired for the Activity of drilling fluids and vater Management would vater Management contractor. ines that may be loces would be imple	Plan, the Exploration Code of Practice: cated proximal to the Activities. mented in accordance with the No Uncertain Low lands or runoff patterns. ed for the Activities would be sourced hine site water cart, as required. Water is required. A maximum of approximately ities. Any incidental groundwater confined to above ground tanks. be managed and disposed of in Plan, the Exploration Code of Practice: cated proximal to the Activities.
Duration Application ranking What is the confidence in predicting impacts? How resilient is the environment to cope with impacts? Can the impacts be reversed? Can the impacts be mitigated? Do the operations comply with standards, plans, policies? Criteria Potential impacts	Sediment controls would be installed a Recirculated water and spoil from drilli accordance with the Maules Creek Coal Mine W Rehabilitation and by a licenced waste removal Purposeful avoidance of any drainage I Appropriate water management practi Exploration Code of Practice: Environmental Ma approximately 8 weeks 2,null High Medium Resilience Yes Fully Yes Water Impacts: Impacts from changes to natura The Activities do not propose to utilise surface of from an onsite, in-pit dams and transferred to efform an onsite,	Are further studies required on potential significance Justification for result water bodies, wet water. Water required so until new water is quired for the Activity of drilling fluids and vater Management would vater Management contractor. ines that may be loces would be imple	Plan, the Exploration Code of Practice: cated proximal to the Activities. mented in accordance with the No Uncertain Low lands or runoff patterns. ed for the Activities would be sourced hine site water cart, as required. Water is required. A maximum of approximately ities. Any incidental groundwater confined to above ground tanks. be managed and disposed of in Plan, the Exploration Code of Practice: cated proximal to the Activities.

	T = "		
Application ranking	2,null		Ι
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?	Medium Resilience	What is the level of public concern?	Uncertain
Can the impacts be reversed?	Yes	Ranking of potential significance	Low
Can the impacts be mitigated?	Fully	Justification for ra	anking
Do the operations comply with standards, plans, policies?	Yes		
Criteria	Water Impacts: Impacts from aquifer interferen		
Potential impacts	The Activities do not propose to utilise surface of from an onsite, in-pit dams and transferred to expended between site of the stransferred and recycled between site of water resources would be reproduced would be utilised in the recirculation.	each drill site via a mes es until new water is quired for the Activi	nine site water cart, as required. Water s required. A maximum of approximately ities. Any incidental groundwater
Proposed management controls	required. Sediment controls would be installed a Recirculated water and spoil from drilli accordance with the Maules Creek Coal Mine W Rehabilitation and by a licenced waste removal Purposeful avoidance of any drainage I Appropriate water management practi Exploration Code of Practice: Environmental Ma	s required. ng activities would /ater Management contractor. ines that may be loces would be imple	be managed and disposed of in Plan, the Exploration Code of Practice: cated proximal to the Activities.
Duration	approximately 8 weeks		
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?	Medium Resilience	What is the level of public concern?	Uncertain
Can the impacts be reversed?	Yes	Ranking of potential significance	Low
Can the impacts be mitigated?	Fully	Justification for ra	 anking
Do the operations comply with	Yes		
standards, plans, policies?			
Criteria	Water Impacts: Impacts from changes to flooding	ng or tidal regimes.	
Potential impacts	The Activities do not propose to utilise surface of from an onsite, in-pit dams and transferred to expended by transferred and recycled between site 0.27 megalitres of water resources would be reproduced would be utilised in the recirculation	each drill site via a mes es until new water is quired for the Activi	nine site water cart, as required. Water s required. A maximum of approximately ities. Any incidental groundwater
Proposed management controls	required. Sediment controls would be installed a Recirculated water and spoil from drilli accordance with the Maules Creek Coal Mine W Rehabilitation and by a licenced waste removal Purposeful avoidance of any drainage I Appropriate water management practi Exploration Code of Practice: Environmental Ma	ng activities would /ater Management contractor. ines that may be lo ces would be imple	Plan, the Exploration Code of Practice: cated proximal to the Activities.
Duration	approximately 8 weeks		
Application ranking	2,null		
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?	Medium Resilience	What is the level of public concern?	Uncertain

Can the impacts be reversed?	Yes	Ranking of	Low
		potential significance	
Can the impacts be mitigated?	Fully	Justification for ra	anking
Do the operations comply with	Yes		
standards, plans, policies?			
Criteria	Water Impacts: Impacts from changes in surface		
Potential impacts	The Activities do not propose to utilise surface was from an onsite, in-pit dams and transferred to e		
	would be transferred and recycled between site		·
	0.27 megalitres of water resources would be red		
	produced would be utilised in the recirculation	of drilling fluids and	confined to above ground tanks.
Proposed management controls	required. • Sediment controls would be installed a	s required	
	Recirculated water and spoil from drilling activities would be managed and disposed of in		be managed and disposed of in
	accordance with the Maules Creek Coal Mine Water Management Plan, the Exploration Code of Practice		
	Rehabilitation and by a licenced waste removal		and a supplied to the Abel Activities
	 Purposeful avoidance of any drainage I Appropriate water management practi 	•	
	Exploration Code of Practice: Environmental Ma		nemed in decordance with the
Duration	approximately 8 weeks		
Application ranking	Negligible	A C . alb	- No.
What is the confidence in predicting impacts?	High	Are further studies	No
impacts.		required on	
		impacts or	
		mitigation?	
How resilient is the environment to cope with impacts?	Medium Resilience	What is the level of public	Uncertain
cope with impacts.		concern?	
Can the impacts be reversed?	Yes	Ranking of	Low
		potential	
Can the impacts be mitigated?	Fully	significance Justification for ra	anking
Do the operations comply with	Yes		
standards, plans, policies?			
Criteria	Soil & Stability Impacts: Degradation of soil qua		<u></u>
Potential impacts	The Activities are unlikely to impact soil quality disturbance would be minimised as much as pra		-
	be installed as required, consistent with Manag		
	2004) at each drill site. The erosion and sedimer		
	erosion has been reduced to negligible levels th	rough on-site rehab	ulitation.
	No acid sulfate soils are mapped in proximity to	the Activities.	
Proposed management controls	Vegetation clearance and surface distu		· · · · · · · · · · · · · · · · · · ·
	 Access for the Activities would occur vi where no tracks exist would require temporary 		s tracks where possible. Exploration sites
	driving on paddocks to the desired exploration s		<i>5, 6 6</i>
	drill sites with existing access tracks via the shor	•	
	tracks will be slashed in, and personnel will not		
	 provided. All access tracks would have a maxime Appropriate erosion and sediment confidence 		
	Managing Urban Stormwater: Soils and Constru		· · · · · · · · · · · · · · · · · · ·
	sediment controls would remain in place at all s	ites until the risk of	erosion has been reduced to negligible
	levels through on site rehabilitation. • Above surface tanks would be utilised to	for drilling i.a. no in	ground sumps would be required
	 Above surface tanks would be utilised f Fuel required for the Activities would b 	-	= :
	on-site equipment (e.g. drill rig, compressor).		0.1
			the management of spills and leaks for all
Duration	chemicals, fuels and oil on-site would be readily approximately 8 weeks	available for the di	iration of the Activities.
Application ranking	Negligible		
What is the confidence in predicting	High	Are further	No
impacts?		studies	
		required on impacts or	
		mitigation?	

How resilient is the environment to	Medium Resilience	What is the	Uncertain
cope with impacts?		level of public	
		concern?	
Can the impacts be reversed?	Yes	Ranking of	Low
		potential significance	
Can the impacts be mitigated?	Fully	Justification for r	 anking
Do the operations comply with	Yes	Justinication for i	ankiig
standards, plans, policies?	163		
Criteria	Soil & Stability Impacts: Impacts on land with hi	। igh agricultural capa	bility.
Potential impacts	The Activities are unlikely to impact soil quality		<u> </u>
1 otential impacts	disturbance would be minimised as much as pro	•	_
	be installed as required, consistent with Manag		
	2004) at each drill site. The erosion and sedime	_	
	erosion has been reduced to negligible levels th	nrough on-site rehab	pilitation.
	No acid sulfate soils are mapped in proximity to		
Proposed management controls	 Vegetation clearance and surface distu 		·
			s tracks where possible. Exploration sites
	where no tracks exist would require temporary		
	driving on paddocks to the desired exploration		
	drill sites with existing access tracks via the sho tracks will be slashed in, and personnel will not		
	provided. All access tracks would have a maxim		• •
	Appropriate erosion and sediment con		• •
	Managing Urban Stormwater: Soils and Constru		•
	sediment controls would remain in place at all s	,	,
	levels through on site rehabilitation.		er obion mad been reduced to megnigible
	Above surface tanks would be utilised	for drilling, i.e. no ir	n-ground sumps would be required.
	Fuel required for the Activities would be	_	
	on-site equipment (e.g. drill rig, compressor).		
	 Adequate spill prevention and oil abso 	rbent materials for	the management of spills and leaks for all
	chemicals, fuels and oil on-site would be readily	y available for the d	uration of the Activities.
Duration	approximately 8 weeks		
Application ranking	Negligible		
What is the confidence in predicting	High	Are further	No
impacts?		studies	
		required on	
		impacts or	
How resilient is the environment to	Medium Resilience	mitigation? What is the	Uncertain
cope with impacts?	iviediditi kesillerice	level of public	Officertain
cope with impacts:		concern?	
Can the impacts be reversed?	Yes	Ranking of	Low
can the impacts be reversed.		potential	2011
		significance	
Can the impacts be mitigated?	Fully	Justification for r	anking
Do the operations comply with	Yes		-
standards, plans, policies?			
Criteria	Soil & Stability Impacts: Loss of soil from wind o	or water erosion.	
Potential impacts	The Activities are unlikely to impact soil quality	or land stability. Ve	getation clearance and surface
•	1	•	_
	disturbance would be minimised as much as practicable. Appropriate erosion and sediment controls would be installed as required, consistent with Managing Urban Stormwater: Soils and Construction (Landcom,		
	be installed as required, consistent with Manag	ging Urban Stormwa	ter. 30iis and Construction (Landcom,
	be installed as required, consistent with Manag 2004) at each drill site. The erosion and sedime		•
	1	nt controls would re	emain in place at all sites until the risk of
	2004) at each drill site. The erosion and sedime	nt controls would re	emain in place at all sites until the risk of

Proposed management controls	where no tracks exist would require temporary driving on paddocks to the desired exploration of drill sites with existing access tracks via the short tracks will be slashed in, and personnel will not provided. All access tracks would have a maximuman appropriate erosion and sediment control Managing Urban Stormwater: Soils and Construsted in the controls would remain in place at all selevels through on site rehabilitation. Above surface tanks would be utilised for the Activities would be on-site equipment (e.g. drill rig, compressor).	a established access access tracks which site location. Any ne test route that min be able to deviate our width of 4 metrols would be instaction (Landcom, 200 ites until the risk of for drilling, i.e. no in e contained within the tracks of the contained within the tracks are the contained within the co	s tracks where possible. Exploration sites would involve slashing, light grading or aw access tracks would be selected to link imises environmental impacts. Any access off these areas unless internal approval is as (m). Illed as required, consistent with 04) at each drill hole. The erosion and erosion has been reduced to negligible -ground sumps would be required. compliant fuel cells for use in filling up
Duration	approximately 8 weeks		
Application ranking	Negligible		
What is the confidence in predicting	High	Are further	No
impacts?	C C C C C C C C C C C C C C C C C C C	studies required on impacts or mitigation?	
How resilient is the environment to cope with impacts?	Medium Resilience	What is the level of public concern?	Uncertain
Can the impacts be reversed?	Yes	Ranking of potential significance	Low
Can the impacts be mitigated?	Fully	Justification for ra	anking
Do the operations comply with	Yes		
standards, plans, policies?			
Potential impacts	Soil & Stability Impacts: Loss of structural integr The Activities are unlikely to impact soil quality	•	
	disturbance would be minimised as much as pra be installed as required, consistent with Managi 2004) at each drill site. The erosion and sedimer erosion has been reduced to negligible levels th No acid sulfate soils are mapped in proximity to	ing Urban Stormwat nt controls would re rough on-site rehab	ter: Soils and Construction (Landcom, emain in place at all sites until the risk of
Proposed management controls	where no tracks exist would require temporary driving on paddocks to the desired exploration of drill sites with existing access tracks via the short tracks will be slashed in, and personnel will not provided. All access tracks would have a maximuman appropriate erosion and sediment controls and Stormwater: Soils and Construint sediment controls would remain in place at all solvels through on site rehabilitation. Above surface tanks would be utilised for the Activities would bon-site equipment (e.g. drill rig, compressor).	a established access access tracks which site location. Any ne test route that min be able to deviate our width of 4 metrols would be instaction (Landcom, 200 ites until the risk of for drilling, i.e. no in e contained within the test for the test was a contained within the test was a	s tracks where possible. Exploration sites would involve slashing, light grading or aw access tracks would be selected to link imises environmental impacts. Any access off these areas unless internal approval is es (m). Illed as required, consistent with 04) at each drill hole. The erosion and erosion has been reduced to negligible eground sumps would be required. Compliant fuel cells for use in filling up
Duration	approximately 8 weeks		
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?	Medium Resilience	What is the level of public concern?	Uncertain
Can the impacts be reversed?	Yes	Ranking of potential significance	Low
Can the impacts be mitigated?	Fully	Justification for ra	nking

Do the operations comply with	Yes		
standards, plans, policies? Criteria	Soil & Stability Impacts: Increased land instability	with high ricks fro	am land clides or subsidence
	Soil & Stability Impacts: Increased land instability	-	
Potential impacts	The Activities are unlikely to impact soil quality disturbance would be minimised as much as probe installed as required, consistent with Manag 2004) at each drill site. The erosion and sedime erosion has been reduced to negligible levels the	acticable. Appropria ing Urban Stormwa nt controls would re	te erosion and sediment controls would ter: Soils and Construction (Landcom, emain in place at all sites until the risk of
	No acid sulfate soils are mapped in proximity to		
Proposed management controls	where no tracks exist would require temporary driving on paddocks to the desired exploration of drill sites with existing access tracks via the short tracks will be slashed in, and personnel will not provided. All access tracks would have a maxim Appropriate erosion and sediment com Managing Urban Stormwater: Soils and Construsediment controls would remain in place at all slevels through on site rehabilitation. Above surface tanks would be utilised to real required for the Activities would bon-site equipment (e.g. drill rig, compressor).	a established acces access tracks which site location. Any notest route that min be able to deviate our width of 4 metrols would be instaction (Landcom, 20 ites until the risk of for drilling, i.e. no in the contained within when the materials for access to the contained within the risk of the contained within the risk of the contained within	s tracks where possible. Exploration sites would involve slashing, light grading or ew access tracks would be selected to link imises environmental impacts. Any access off these areas unless internal approval is es (m). Illed as required, consistent with 04) at each drill hole. The erosion and erosion has been reduced to negligible appround sumps would be required. compliant fuel cells for use in filling up the management of spills and leaks for all
Duration	approximately 8 weeks		
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?	Medium Resilience	What is the level of public concern?	Uncertain
Can the impacts be reversed?	Yes	Ranking of potential significance	Low
Can the impacts be mitigated?	Fully	Justification for r	l anking
Do the operations comply with standards, plans, policies?	Yes		<u> </u>
Criteria	Noise & Vibration Impacts: Results in increased		
Potential impacts	The Activities would occur entirely on Whitehav and machinery impacting on nearby sensitive re implementing the controls and measures below	eceivers would be m	
Proposed management controls	 The Activities would be undertaken on explorations works are proposed, the Activities pm. Work outside of standard hours as presidence of the proposed in the propos	would be undertak scribed in the Explo le noise criteria can r sensitive receiver.	ration Code of Practice: Environmental be met, being the Rating Background
Duration	approximately 8 weeks		
Application ranking	Low Adverse	Aug frontles	No
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?	Medium Resilience	What is the level of public concern?	Uncertain
Can the impacts be reversed?	Yes	Ranking of potential significance	Low
Can the impacts be mitigated?	Fully	Justification for r	anking
Do the operations comply with	Yes		
standards, plans, policies?			

Criteria	Noise & Vibration Impacts: Affects sensitive rec	eptors.	
Potential impacts	The Activities would occur entirely on Whitehav	ven-owned land. An	y noise from vehicles, drilling rigs, plant
	and machinery impacting on nearby sensitive re implementing the controls and measures below		anaged and mitigated through
Proposed management controls		_	nine days on, five days off. On the days
	explorations works are proposed, the Activities	would be undertake	en between the hours of 6:00 am to 6:00
	pm.		
	Work outside of standard hours as pre	·	
	Management would only occur where acceptab		
	 Level (RBL) +5dB(A)/(15 min) at any residence of the Noise management would follow the E 		
Duration	approximately 8 weeks	Apioration code or	ractice. Environmental Management.
Application ranking	Low Adverse		
What is the confidence in predicting	High	Are further	No
impacts?		studies	
		required on	
		impacts or	
		mitigation?	
How resilient is the environment to	Medium Resilience	What is the	Uncertain
cope with impacts?		level of public	
		concern?	
Can the impacts be reversed?	Yes	Ranking of	Low
		potential significance	
Can the impacts be mitigated?	Fully	Justification for ra	 anking
Do the operations comply with	Yes	Justinication for the	unking
standards, plans, policies?	163		
Criteria	Coastal Location & Processes: Affects coastal pr	ocesses and coastal	hazards, including those under projected
	climate change conditions.		
Potential impacts	The Activities would not affect coastal processe	s and hazards, inclu	ding those under projected climate
	change conditions. The exploration activities ar	e located more the	180 kilometres (km) west of any coastal
	processes and hazards.		
Proposed management controls	No management controls and/or mitigation me	asures for impacts t	co coastal processes are proposed as this
Duration	is not considered applicable to the Activities. approximately 8 weeks		
Application ranking			
Application ranking What is the confidence in predicting	Positive	Are further	No
What is the confidence in predicting		Are further	No
	Positive	studies	No
What is the confidence in predicting	Positive	studies required on	No
What is the confidence in predicting	Positive	studies	No
What is the confidence in predicting	Positive	studies required on impacts or	No Uncertain
What is the confidence in predicting impacts?	Positive High	studies required on impacts or mitigation?	
What is the confidence in predicting impacts? How resilient is the environment to cope with impacts?	Positive High Medium Resilience	studies required on impacts or mitigation? What is the	
What is the confidence in predicting impacts? How resilient is the environment to	Positive High	studies required on impacts or mitigation? What is the level of public	
What is the confidence in predicting impacts? How resilient is the environment to cope with impacts?	Positive High Medium Resilience	studies required on impacts or mitigation? What is the level of public concern? Ranking of potential	Uncertain
What is the confidence in predicting impacts? How resilient is the environment to cope with impacts? Can the impacts be reversed?	Positive High Medium Resilience Yes	studies required on impacts or mitigation? What is the level of public concern? Ranking of potential significance	Uncertain
What is the confidence in predicting impacts? How resilient is the environment to cope with impacts? Can the impacts be reversed? Can the impacts be mitigated?	Positive High Medium Resilience Yes Fully	studies required on impacts or mitigation? What is the level of public concern? Ranking of potential	Uncertain
What is the confidence in predicting impacts? How resilient is the environment to cope with impacts? Can the impacts be reversed? Can the impacts be mitigated? Do the operations comply with	Positive High Medium Resilience Yes	studies required on impacts or mitigation? What is the level of public concern? Ranking of potential significance	Uncertain
What is the confidence in predicting impacts? How resilient is the environment to cope with impacts? Can the impacts be reversed? Can the impacts be mitigated? Do the operations comply with standards, plans, policies?	Positive High Medium Resilience Yes Fully Yes	studies required on impacts or mitigation? What is the level of public concern? Ranking of potential significance Justification for re	Uncertain Low anking
What is the confidence in predicting impacts? How resilient is the environment to cope with impacts? Can the impacts be reversed? Can the impacts be mitigated? Do the operations comply with	Positive High Medium Resilience Yes Fully Yes Hazardous substances or chemicals: Impacts as	studies required on impacts or mitigation? What is the level of public concern? Ranking of potential significance Justification for re	Uncertain Low anking
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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?	Medium Resilience	What is the level of public concern?	Uncertain
Can the impacts be reversed?	Yes	Ranking of potential significance	Low
Can the impacts be mitigated?	Fully	Justification for r	anking
Do the operations comply with	Yes		
standards, plans, policies?			
Criteria	Wastes & Emissions: Impacts to the environment	nt resulting from the	e generation or disposal of wastes.
Potential impacts	The Activities are unlikely to result in any enviro of gaseous, liquid or solid wastes or emissions. A disposal of gaseous, liquid or solid wastes or em implementing the controls and measures below	Any environmental nissions would be m	impacts associated with the generation or
Proposed management controls	for hazardous substances would be undertaken Notwithstanding, adequate spill prever spills and leaks for all chemicals, fuels and oil or Activities. Alist of any chemicals and hydrocarbo Any incidental groundwater produced confined to above ground tanks. Recirculated water and spoil from drilli accordance with the Exploration Code of Practic Vegetation clearance and surface distu Appropriate erosion and sediment con Soils and Construction (Landcom, 2004), would General domestic waste products and and appropriately stored or removed from the Due to the lack of facilities in the field, within the drill site areas and removed at the er Waste and excess material would be m Environmental Management.	vity areas are unlike . ntion and oil absorb n-site would be reace ns would be mainta would be utilised in ing activities would ce: Rehabilitation ar irbance would be m trol measures consi be implemented at packaging generate area associated with mobile toilets will b nd of the Activities.	ely as appropriate handling mechanisms eent materials for the management of dily available for the duration of the ined by Whitehaven and subcontractors. the recirculation of drilling fluids and be managed and disposed of in nd by a licenced waste removal contractor. inimised as much as practicable. stent with Managing Urban Stormwater: each site. d during the Activities would be collected in the Activities at the end of each shift.
Duration	approximately 8 weeks		
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?	Medium Resilience	What is the level of public concern?	Uncertain
Can the impacts be reversed?	Yes	Ranking of potential significance	Low
Can the impacts be mitigated?	Fully	Justification for r	anking
Do the operations comply with standards, plans, policies?	Yes		
Criteria	Wastes & Emissions: Impacts on drinking water or flood prone areas.	catchments, wetlar	nds, natural water bodies, riparian zones
Potential impacts	The Activities are unlikely to impact areas sensi wastes or emissions provided the management implemented.	_	

Proposed management controls	 Fuel, drilling chemicals and other hydro 	carbons would be o	contained on site within fuel cells and
	appropriate containers.		
	 Spill events within the exploration active 		ly as appropriate handling mechanisms
	for hazardous substances would be undertaken.		
	 Notwithstanding, adequate spill prever 		
	spills and leaks for all chemicals, fuels and oil on	-site would be read	ily available for the duration of the
	Activities.		See all the MAYING the second section of the second section of
	· · · · · · · · · · · · · · · · · · ·		ned by Whitehaven and subcontractors.
	Any incidental groundwater produced vacantined to show ground tanks.	would be utilised in	the recirculation of drilling fluids and
	confined to above ground tanks.Recirculated water and spoil from drilli	ng activities would l	no managed and disposed of in
	accordance with the Exploration Code of Practic		
	Vegetation clearance and surface distu		
			stent with Managing Urban Stormwater:
	Soils and Construction (Landcom, 2004), would		5 5
		•	d during the Activities would be collected
	and appropriately stored or removed from the a		=
	Due to the lack of facilities in the field,	mobile toilets will b	e provided. These would be located
	within the drill site areas and removed at the en	d of the Activities.	
	 Waste and excess material would be m 	anaged in accordan	ce with the Exploration Code of Practice:
	Environmental Management.		
Duration	approximately 8 weeks		
Application ranking	Negligible		
What is the confidence in predicting	High	Are further	No
impacts?		studies	
		required on	
		impacts or	
How welliant in the environment to	Madium Dasilianaa	mitigation?	Uncortain
How resilient is the environment to	Medium Resilience	What is the	Uncertain
cope with impacts?		level of public concern?	
Can the impacts be reversed?	Yes	Ranking of	Low
can the impacts be reversed?	res	potential	LOW
		significance	
		Significance	
Can the impacts he mitigated?	Fully		anking
Can the impacts be mitigated? Do the operations comply with	Fully Yes	Justification for ra	anking
Can the impacts be mitigated? Do the operations comply with standards, plans, policies?	Fully Yes		anking
Do the operations comply with		Justification for ra	
Do the operations comply with standards, plans, policies?	Yes	Justification for ra	eas with high water table.
Do the operations comply with standards, plans, policies? Criteria	Yes Wastes & Emissions: Impacts on groundwater re	Justification for ra echarge areas or are ive to the generation	eas with high water table. on or disposal of gaseous, liquid or solid
Do the operations comply with standards, plans, policies? Criteria	Yes Wastes & Emissions: Impacts on groundwater re The Activities are unlikely to impact areas sensit	Justification for ra echarge areas or are ive to the generation	eas with high water table. on or disposal of gaseous, liquid or solid
Do the operations comply with standards, plans, policies? Criteria	Yes Wastes & Emissions: Impacts on groundwater re The Activities are unlikely to impact areas sensit wastes or emissions provided the management	Justification for ra echarge areas or are ive to the generatic controls and mitiga	eas with high water table. on or disposal of gaseous, liquid or solid tion measures outlined below are
Do the operations comply with standards, plans, policies? Criteria Potential impacts	Wastes & Emissions: Impacts on groundwater re The Activities are unlikely to impact areas sensit wastes or emissions provided the management implemented. • Fuel, drilling chemicals and other hydro appropriate containers.	Justification for ra echarge areas or are vive to the generation controls and mitigal ecarbons would be of	eas with high water table. on or disposal of gaseous, liquid or solid tion measures outlined below are contained on site within fuel cells and
Do the operations comply with standards, plans, policies? Criteria Potential impacts	Yes Wastes & Emissions: Impacts on groundwater re The Activities are unlikely to impact areas sensit wastes or emissions provided the management implemented. • Fuel, drilling chemicals and other hydro appropriate containers. • Spill events within the exploration activ	Justification for ra echarge areas or are rive to the generatic controls and mitigal ocarbons would be of rity areas are unlike	eas with high water table. on or disposal of gaseous, liquid or solid tion measures outlined below are contained on site within fuel cells and
Do the operations comply with standards, plans, policies? Criteria Potential impacts	Yes Wastes & Emissions: Impacts on groundwater re The Activities are unlikely to impact areas sensit wastes or emissions provided the management implemented. • Fuel, drilling chemicals and other hydro appropriate containers. • Spill events within the exploration activ for hazardous substances would be undertaken.	Justification for ra echarge areas or are live to the generatic controls and mitigal coarbons would be of	eas with high water table. on or disposal of gaseous, liquid or solid tion measures outlined below are contained on site within fuel cells and ly as appropriate handling mechanisms
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Do the operations comply with standards, plans, policies? Criteria Potential impacts	Yes Wastes & Emissions: Impacts on groundwater re The Activities are unlikely to impact areas sensit wastes or emissions provided the management implemented. • Fuel, drilling chemicals and other hydro appropriate containers. • Spill events within the exploration activ for hazardous substances would be undertaken. • Notwithstanding, adequate spill prever spills and leaks for all chemicals, fuels and oil on Activities.	echarge areas or are ive to the generatic controls and mitigal carbons would be out of the control of the contr	eas with high water table. On or disposal of gaseous, liquid or solid tion measures outlined below are Contained on site within fuel cells and ly as appropriate handling mechanisms ent materials for the management of ily available for the duration of the
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Do the operations comply with standards, plans, policies? Criteria Potential impacts	Wastes & Emissions: Impacts on groundwater re The Activities are unlikely to impact areas sensit wastes or emissions provided the management implemented. Fuel, drilling chemicals and other hydro appropriate containers. Spill events within the exploration activ for hazardous substances would be undertaken. Notwithstanding, adequate spill prever spills and leaks for all chemicals, fuels and oil on Activities. Alist of any chemicals and hydrocarbor Any incidental groundwater produced of confined to above ground tanks. Recirculated water and spoil from drilli accordance with the Exploration Code of Practic Vegetation clearance and surface distu Appropriate erosion and sediment com Soils and Construction (Landcom, 2004), would General domestic waste products and a and appropriately stored or removed from the a Due to the lack of facilities in the field, within the drill site areas and removed at the en	charge areas or are vive to the generation controls and mitigal ocarbons would be or vity areas are unliked at the control of	eas with high water table. In or disposal of gaseous, liquid or solid tion measures outlined below are Contained on site within fuel cells and ly as appropriate handling mechanisms ent materials for the management of ily available for the duration of the ined by Whitehaven and subcontractors, the recirculation of drilling fluids and one managed and disposed of in ly a licenced waste removal contractor, in mised as much as practicable, stent with Managing Urban Stormwater: each site. It during the Activities would be collected the Activities at the end of each shift.
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Do the operations comply with standards, plans, policies? Criteria Potential impacts Proposed management controls Duration Application ranking What is the confidence in predicting	Wastes & Emissions: Impacts on groundwater re The Activities are unlikely to impact areas sensit wastes or emissions provided the management implemented. Fuel, drilling chemicals and other hydro appropriate containers. Spill events within the exploration activ for hazardous substances would be undertaken. Notwithstanding, adequate spill prever spills and leaks for all chemicals, fuels and oil on Activities. Alist of any chemicals and hydrocarbor Any incidental groundwater produced of confined to above ground tanks. Recirculated water and spoil from drilli accordance with the Exploration Code of Practic Vegetation clearance and surface distu Appropriate erosion and sediment cont Soils and Construction (Landcom, 2004), would General domestic waste products and and appropriately stored or removed from the a Due to the lack of facilities in the field, within the drill site areas and removed at the en Waste and excess material would be m Environmental Management. approximately 8 weeks	charge areas or are ive to the generatic controls and mitigal carbons would be of the second of the	eas with high water table. In or disposal of gaseous, liquid or solid tion measures outlined below are Contained on site within fuel cells and ly as appropriate handling mechanisms ent materials for the management of ily available for the duration of the Intend by Whitehaven and subcontractors, the recirculation of drilling fluids and be managed and disposed of in ly a licenced waste removal contractor, nimised as much as practicable, stent with Managing Urban Stormwater: each site. It during the Activities would be collected the Activities at the end of each shift, e provided. These would be located
Do the operations comply with standards, plans, policies? Criteria Potential impacts Proposed management controls Duration Application ranking	Wastes & Emissions: Impacts on groundwater re The Activities are unlikely to impact areas sensit wastes or emissions provided the management implemented. Fuel, drilling chemicals and other hydro appropriate containers. Spill events within the exploration activ for hazardous substances would be undertaken. Notwithstanding, adequate spill prever spills and leaks for all chemicals, fuels and oil on Activities. Alist of any chemicals and hydrocarbor Any incidental groundwater produced of confined to above ground tanks. Recirculated water and spoil from drilli accordance with the Exploration Code of Practic Vegetation clearance and surface distu Appropriate erosion and sediment cont Soils and Construction (Landcom, 2004), would General domestic waste products and and appropriately stored or removed from the a Due to the lack of facilities in the field, within the drill site areas and removed at the en Waste and excess material would be m Environmental Management. approximately 8 weeks Negligible	charge areas or are vive to the generatic controls and mitigal ocarbons would be controls are unliked in the control of the co	eas with high water table. In or disposal of gaseous, liquid or solid tion measures outlined below are Contained on site within fuel cells and ly as appropriate handling mechanisms ent materials for the management of ily available for the duration of the Interest of the management of the liquid and love managed and disposed of in love managed and disposed of in love managed as much as practicable. Interest with Managing Urban Stormwater: Each site. Industrial during the Activities would be collected the Activities at the end of each shift. Interest of the provided of Practice:
Do the operations comply with standards, plans, policies? Criteria Potential impacts Proposed management controls Duration Application ranking What is the confidence in predicting	Wastes & Emissions: Impacts on groundwater re The Activities are unlikely to impact areas sensit wastes or emissions provided the management implemented. Fuel, drilling chemicals and other hydro appropriate containers. Spill events within the exploration activ for hazardous substances would be undertaken. Notwithstanding, adequate spill prever spills and leaks for all chemicals, fuels and oil on Activities. Alist of any chemicals and hydrocarbor Any incidental groundwater produced of confined to above ground tanks. Recirculated water and spoil from drilli accordance with the Exploration Code of Practic Vegetation clearance and surface distu Appropriate erosion and sediment cont Soils and Construction (Landcom, 2004), would General domestic waste products and and appropriately stored or removed from the a Due to the lack of facilities in the field, within the drill site areas and removed at the en Waste and excess material would be m Environmental Management. approximately 8 weeks Negligible	charge areas or are vive to the generatic controls and mitigal controls and mitigal controls and mitigal controls are unliked with a control of the control	eas with high water table. In or disposal of gaseous, liquid or solid tion measures outlined below are Contained on site within fuel cells and ly as appropriate handling mechanisms ent materials for the management of ily available for the duration of the Interest of the management of the liquid and love managed and disposed of in love managed and disposed of in love managed as much as practicable. Interest with Managing Urban Stormwater: Each site. Industrial during the Activities would be collected the Activities at the end of each shift. Interest of the provided of Practice:
Do the operations comply with standards, plans, policies? Criteria Potential impacts Proposed management controls Duration Application ranking What is the confidence in predicting	Wastes & Emissions: Impacts on groundwater re The Activities are unlikely to impact areas sensit wastes or emissions provided the management implemented. Fuel, drilling chemicals and other hydro appropriate containers. Spill events within the exploration activ for hazardous substances would be undertaken. Notwithstanding, adequate spill prever spills and leaks for all chemicals, fuels and oil on Activities. Alist of any chemicals and hydrocarbor Any incidental groundwater produced of confined to above ground tanks. Recirculated water and spoil from drilli accordance with the Exploration Code of Practic Vegetation clearance and surface distu Appropriate erosion and sediment cont Soils and Construction (Landcom, 2004), would General domestic waste products and and appropriately stored or removed from the a Due to the lack of facilities in the field, within the drill site areas and removed at the en Waste and excess material would be m Environmental Management. approximately 8 weeks Negligible	charge areas or are vive to the generatic controls and mitigal ocarbons would be controls are unliked in the control of the co	eas with high water table. In or disposal of gaseous, liquid or solid tion measures outlined below are Contained on site within fuel cells and ly as appropriate handling mechanisms ent materials for the management of ily available for the duration of the Interest of the management of the liquid and love managed and disposed of in love managed and disposed of in love managed as much as practicable. Interest with Managing Urban Stormwater: Each site. Industrial during the Activities would be collected the Activities at the end of each shift. Interest of the provided of Practice:

	T		I
How resilient is the environment to	Medium Resilience	What is the	Uncertain
cope with impacts?		level of public	
		concern?	
Can the impacts be reversed?	Yes	Ranking of	Low
		potential	
		significance	
Can the impacts be mitigated?	Fully	Justification for r	anking
Do the operations comply with	Yes		
standards, plans, policies?			
Criteria	Wastes and Emissions: Impacts on coastlines of landforms.	or dunes, alpine areas	s, karst features or other unique
Potential impacts	N/A		
Proposed management controls	N/A		
Duration	N/A		
Application ranking	N/A		
What is the confidence in predicting	N/A	Are further	N/A
impacts?		studies	.,,.
		required on	
		impacts or	
		mitigation?	
How resilient is the environment to	N/A	What is the	Uncertain
cope with impacts?	,	level of public	
		concern?	
Can the impacts be reversed?	N/A	Ranking of	N/A
	.,,	potential	.,,.
		significance	
Can the impacts be mitigated?	N/A	Justification for r	anking
Do the operations comply with	N/A		
standards, plans, policies?			
Criteria	Wastes & Emissions: Impacts on erosion prono	e areas, areas with slo	opes of greater than 18 degrees.
Potential impacts	N/A		
Proposed management controls	N/A		
Duration	N/A		
Application ranking	N/A		
What is the confidence in predicting	N/A	Are further	N/A
impacts?	14/4	studies	14/4
impacts.		required on	
		impacts or	
		mitigation?	
How resilient is the environment to	N/A	What is the	Uncertain
cope with impacts?		level of public	oneer tuni
cope with impacts.		concern?	
Can the impacts be reversed?	N/A	Ranking of	N/A
can the impacts be reversed.	IN/A	potential	
		significance	
Can the impacts be mitigated?	N/A	Justification for r	ı anking
Do the operations comply with	N/A	Justinication for f	w9
standards, plans, policies?	17/0		
Criteria	Wastes & Emissions: Impacts on subsidence o	r clin areas	
	-	<u> </u>	and the second of the second o
Potential impacts	The Activities are unlikely to impact areas sens		
	wastes or emissions provided the managemer	it controls and mitiga	ition measures outlined below are
	implemented.		

Proposed management controls	 Fuel, drilling chemicals and other hydro 	ocarbons would be o	contained on site within fuel cells and		
	appropriate containers.				
	Spill events within the exploration activity areas are unlikely as appropriate handling mechanisms for hazardous substances would be undertaken.				
	for hazardous substances would be undertaken. Notwithstanding, adequate spill prevention and oil absorbent materials for the management of				
	spills and leaks for all chemicals, fuels and oil on-site would be readily available for the duration of the				
	Activities.				
	A list of any chemicals and hydrocarbons would be maintained by Whitehaven and subcontractors.				
	Anst of any chemicals and hydrocarbons would be maintained by writtenaven and subcontractors. Any incidental groundwater produced would be utilised in the recirculation of drilling fluids and				
	confined to above ground tanks.				
	Recirculated water and spoil from drilling activities would be managed and disposed of in				
	accordance with the Exploration Code of Practice: Rehabilitation and by a licenced waste removal contractor.				
	• Vegetation clearance and surface disturbance would be minimised as much as practicable.				
			stent with Managing Urban Stormwater:		
	Soils and Construction (Landcom, 2004), would	•			
	 General domestic waste products and part and appropriately stored or removed from the analysis. 		d during the Activities would be collected		
	Due to the lack of facilities in the field,				
	within the drill site areas and removed at the er		e provided. These would be located		
			ce with the Exploration Code of Practice:		
	Environmental Management.	_	·		
Duration	approximately 8 weeks				
Application ranking	Negligible				
What is the confidence in predicting	High	Are further	No		
impacts?		studies			
		required on			
		impacts or mitigation?			
How resilient is the environment to	Medium Resilience	What is the	Uncertain		
cope with impacts?	Wediam Resilience	level of public	Officertain		
		concern?			
Can the impacts be reversed?	Yes	Ranking of	Low		
·		potential			
		significance			
Can the impacts be mitigated?	Fully	Justification for ra	anking		
Do the operations comply with	Yes				
standards, plans, policies?	Market C. C. Carlesia and Lancette and Company	la dalama andra a d	table as a second as a training		
Criteria	Wastes & Emissions: Impacts on areas with acid	sulphate, sodic or i	nignly permeable soils.		
Potential impacts	NA				
Proposed management controls	NA sparsylmataly 2 weeks				
Duration Application ranking	approximately 8 weeks				
What is the confidence in predicting	High	Are further	No		
impacts?	111811	studies	NO		
		required on			
		impacts or			
		mitigation?			
How resilient is the environment to	Medium Resilience	What is the	Uncertain		
cope with impacts?		level of public			
		concern?			
Can the impacts be reversed?	Yes	Ranking of	Low		
		potential significance			
Can the impacts be mitigated?	Fully	Justification for ra	anking		
Do the operations comply with	Yes	Justilication for re	anking		
standards, plans, policies?	163				
Criteria Standards) plans, poneies:	Wastes & Emissions: Impacts on areas with salir	nity or potential sali	nity problems.		
Potential impacts	The Activities are unlikely to impact areas sensit	<u> </u>	* *		
F	wastes or emissions provided the management	0			
	implemented.				

Proposed management controls	 Fuel, drilling chemicals and other hydro 	carbons would be o	contained on site within fuel cells and		
	appropriate containers.				
	 Spill events within the exploration active 		ly as appropriate handling mechanisms		
	for hazardous substances would be undertaken.				
	 Notwithstanding, adequate spill prever 				
	spills and leaks for all chemicals, fuels and oil on	-site would be read	ily available for the duration of the		
	Activities. • A list of any chemicals and hydrocarbons would be maintained by Whitehaven and subcontractors.				
	Any incidental groundwater produced would be utilised in the recirculation of drilling fluids and confined to above ground tanks.				
	confined to above ground tanks. • Recirculated water and spoil from drilling activities would be managed and disposed of in				
	Recirculated water and spoil from drilling activities would be managed and disposed of in accordance with the Evaluation Code of Practice: Rehabilitation and by a licenced water removal contractor.				
	 accordance with the Exploration Code of Practice: Rehabilitation and by a licenced waste removal contracto Vegetation clearance and surface disturbance would be minimised as much as practicable. 				
	 Vegetation clearance and surface disturbance would be minimised as much as practicable. Appropriate erosion and sediment control measures consistent with Managing Urban Stormwater: 				
	Soils and Construction (Landcom, 2004), would		5 5		
		•	d during the Activities would be collected		
	and appropriately stored or removed from the a		=		
	Due to the lack of facilities in the field,	mobile toilets will b	e provided. These would be located		
	within the drill site areas and removed at the en	d of the Activities.			
	 Waste and excess material would be m 	anaged in accordan	ce with the Exploration Code of Practice:		
	Environmental Management.				
Duration	approximately 8 weeks				
Application ranking	Negligible				
What is the confidence in predicting	High	Are further	No		
impacts?		studies			
		required on			
		impacts or			
How welliant in the environment to	Madium Dasilianaa	mitigation?	Uncortain		
How resilient is the environment to	Medium Resilience	What is the	Uncertain		
cope with impacts?		level of public concern?			
Can the impacts be reversed?	Yes	Ranking of	Low		
can the impacts be reversed:	163	potential	LOW		
		•			
	significance				
Can the impacts be mitigated?	Fully	Justification for ra	anking		
Can the impacts be mitigated? Do the operations comply with	Fully Yes	Justification for ra	anking		
		Justification for ra	anking		
Do the operations comply with					
Do the operations comply with standards, plans, policies?	Yes	raded or contamina	ted land.		
Do the operations comply with standards, plans, policies? Criteria	Yes Wastes & Emissions: Impacts on areas with degr The Activities are unlikely to impact areas sensit wastes or emissions provided the management	raded or contamina	ted land. on or disposal of gaseous, liquid or solid		
Do the operations comply with standards, plans, policies? Criteria Potential impacts	Yes Wastes & Emissions: Impacts on areas with degr The Activities are unlikely to impact areas sensit wastes or emissions provided the management implemented.	raded or contamina ive to the generatic controls and mitiga	ted land. on or disposal of gaseous, liquid or solid tion measures outlined below are		
Do the operations comply with standards, plans, policies? Criteria	Yes Wastes & Emissions: Impacts on areas with degr The Activities are unlikely to impact areas sensit wastes or emissions provided the management implemented. • Fuel, drilling chemicals and other hydro	raded or contamina ive to the generatic controls and mitiga	ted land. on or disposal of gaseous, liquid or solid tion measures outlined below are		
Do the operations comply with standards, plans, policies? Criteria Potential impacts	Yes Wastes & Emissions: Impacts on areas with degr The Activities are unlikely to impact areas sensit wastes or emissions provided the management implemented. • Fuel, drilling chemicals and other hydro appropriate containers.	raded or contamina rive to the generation controls and mitigate ocarbons would be o	ted land. on or disposal of gaseous, liquid or solid tion measures outlined below are contained on site within fuel cells and		
Do the operations comply with standards, plans, policies? Criteria Potential impacts	Yes Wastes & Emissions: Impacts on areas with degr The Activities are unlikely to impact areas sensit wastes or emissions provided the management implemented. • Fuel, drilling chemicals and other hydroappropriate containers. • Spill events within the exploration activities.	raded or contamina ive to the generatic controls and mitiga ccarbons would be o rity areas are unlike	ted land. on or disposal of gaseous, liquid or solid tion measures outlined below are contained on site within fuel cells and		
Do the operations comply with standards, plans, policies? Criteria Potential impacts	Yes Wastes & Emissions: Impacts on areas with degr The Activities are unlikely to impact areas sensit wastes or emissions provided the management implemented. • Fuel, drilling chemicals and other hydro appropriate containers. • Spill events within the exploration activ for hazardous substances would be undertaken.	raded or contamina ive to the generatic controls and mitiga ccarbons would be or rity areas are unlike	ted land. on or disposal of gaseous, liquid or solid tion measures outlined below are contained on site within fuel cells and ly as appropriate handling mechanisms		
Do the operations comply with standards, plans, policies? Criteria Potential impacts	Yes Wastes & Emissions: Impacts on areas with degr The Activities are unlikely to impact areas sensit wastes or emissions provided the management implemented. • Fuel, drilling chemicals and other hydroappropriate containers. • Spill events within the exploration activities.	raded or contamina ive to the generatic controls and mitiga ccarbons would be of rity areas are unlike tition and oil absorb	ted land. on or disposal of gaseous, liquid or solid tion measures outlined below are contained on site within fuel cells and ly as appropriate handling mechanisms ent materials for the management of		
Do the operations comply with standards, plans, policies? Criteria Potential impacts	Yes Wastes & Emissions: Impacts on areas with degrate Activities are unlikely to impact areas sensit wastes or emissions provided the management implemented. • Fuel, drilling chemicals and other hydroappropriate containers. • Spill events within the exploration active for hazardous substances would be undertaken. • Notwithstanding, adequate spill prevents.	raded or contamina ive to the generatic controls and mitiga ccarbons would be of rity areas are unlike tition and oil absorb	ted land. on or disposal of gaseous, liquid or solid tion measures outlined below are contained on site within fuel cells and ly as appropriate handling mechanisms ent materials for the management of		
Do the operations comply with standards, plans, policies? Criteria Potential impacts	Yes Wastes & Emissions: Impacts on areas with degrate Activities are unlikely to impact areas sensitives or emissions provided the management implemented. Fuel, drilling chemicals and other hydroappropriate containers. Spill events within the exploration active for hazardous substances would be undertaken. Notwithstanding, adequate spill preverspills and leaks for all chemicals, fuels and oil on Activities.	raded or contamina ive to the generatic controls and mitiga ocarbons would be o rity areas are unlike tion and oil absorb site would be read	ted land. on or disposal of gaseous, liquid or solid tion measures outlined below are contained on site within fuel cells and ly as appropriate handling mechanisms ent materials for the management of		
Do the operations comply with standards, plans, policies? Criteria Potential impacts	Yes Wastes & Emissions: Impacts on areas with degrate Activities are unlikely to impact areas sensitives or emissions provided the management implemented. Fuel, drilling chemicals and other hydroappropriate containers. Spill events within the exploration active for hazardous substances would be undertaken. Notwithstanding, adequate spill preverspills and leaks for all chemicals, fuels and oil on Activities.	raded or contaminative to the generatic controls and mitigate ocarbons would be ority areas are unlikention and oil absorbusite would be readers would be maintains	ted land. on or disposal of gaseous, liquid or solid tion measures outlined below are contained on site within fuel cells and ly as appropriate handling mechanisms ent materials for the management of ily available for the duration of the ined by Whitehaven and subcontractors.		
Do the operations comply with standards, plans, policies? Criteria Potential impacts	Yes Wastes & Emissions: Impacts on areas with degrate Activities are unlikely to impact areas sensitives or emissions provided the management implemented. Fuel, drilling chemicals and other hydroappropriate containers. Spill events within the exploration active for hazardous substances would be undertaken. Notwithstanding, adequate spill preverspills and leaks for all chemicals, fuels and oil on Activities. A list of any chemicals and hydrocarbor.	raded or contaminative to the generatic controls and mitigate ocarbons would be ority areas are unlikention and oil absorbusite would be readers would be maintains	ted land. on or disposal of gaseous, liquid or solid tion measures outlined below are contained on site within fuel cells and ly as appropriate handling mechanisms ent materials for the management of ily available for the duration of the ined by Whitehaven and subcontractors.		
Do the operations comply with standards, plans, policies? Criteria Potential impacts	Wastes & Emissions: Impacts on areas with degrate Activities are unlikely to impact areas sensitivastes or emissions provided the management implemented. Fuel, drilling chemicals and other hydroappropriate containers. Spill events within the exploration active for hazardous substances would be undertaken. Notwithstanding, adequate spill preverspills and leaks for all chemicals, fuels and oil on Activities. A list of any chemicals and hydrocarbor. Any incidental groundwater produced confined to above ground tanks. Recirculated water and spoil from drilling the sensitive of	raded or contamina ive to the generatic controls and mitigal ocarbons would be ority areas are unlike ation and oil absorbesite would be read no would be utilised in a gactivities would leng activities would length and mitigate and mitigate in the second seco	ted land. on or disposal of gaseous, liquid or solid tion measures outlined below are contained on site within fuel cells and ly as appropriate handling mechanisms ent materials for the management of ily available for the duration of the ined by Whitehaven and subcontractors, the recirculation of drilling fluids and be managed and disposed of in		
Do the operations comply with standards, plans, policies? Criteria Potential impacts	Wastes & Emissions: Impacts on areas with degrate Activities are unlikely to impact areas sensitivastes or emissions provided the management implemented. Fuel, drilling chemicals and other hydroappropriate containers. Spill events within the exploration active for hazardous substances would be undertaken. Notwithstanding, adequate spill preverspills and leaks for all chemicals, fuels and oil on Activities. A list of any chemicals and hydrocarbor. Any incidental groundwater produced confined to above ground tanks. Recirculated water and spoil from drilliaccordance with the Exploration Code of Practice.	raded or contamina ive to the generatic controls and mitiga ocarbons would be of rity areas are unlike ation and oil absorb instead would be maintal would be utilised in ing activities would lie: Rehabilitation and	ted land. on or disposal of gaseous, liquid or solid tion measures outlined below are contained on site within fuel cells and ly as appropriate handling mechanisms ent materials for the management of ily available for the duration of the ined by Whitehaven and subcontractors, the recirculation of drilling fluids and be managed and disposed of in d by a licenced waste removal contractor.		
Do the operations comply with standards, plans, policies? Criteria Potential impacts	Wastes & Emissions: Impacts on areas with degrate Activities are unlikely to impact areas sensitivastes or emissions provided the management implemented. Fuel, drilling chemicals and other hydroappropriate containers. Spill events within the exploration active for hazardous substances would be undertaken. Notwithstanding, adequate spill preverspills and leaks for all chemicals, fuels and oil on Activities. A list of any chemicals and hydrocarbor. Any incidental groundwater produced confined to above ground tanks. Recirculated water and spoil from drillicaccordance with the Exploration Code of Practicals.	raded or contamina ive to the generatic controls and mitiga ocarbons would be of rity areas are unlike ation and oil absorb institution and be maintal would be maintal would be utilised in ing activities would lie: Rehabilitation ar rbance would be mi	ted land. on or disposal of gaseous, liquid or solid tion measures outlined below are contained on site within fuel cells and ly as appropriate handling mechanisms ent materials for the management of ily available for the duration of the management of the contained by Whitehaven and subcontractors, the recirculation of drilling fluids and the managed and disposed of in do by a licenced waste removal contractor, nimised as much as practicable.		
Do the operations comply with standards, plans, policies? Criteria Potential impacts	Wastes & Emissions: Impacts on areas with degrate Activities are unlikely to impact areas sensity wastes or emissions provided the management implemented. Fuel, drilling chemicals and other hydroappropriate containers. Spill events within the exploration active for hazardous substances would be undertaken. Notwithstanding, adequate spill preverspills and leaks for all chemicals, fuels and oil on Activities. A list of any chemicals and hydrocarbor. Any incidental groundwater produced confined to above ground tanks. Recirculated water and spoil from drilling accordance with the Exploration Code of Practic. Vegetation clearance and surface disturns.	raded or contamina ive to the generatic controls and mitiga ocarbons would be of rity areas are unlike ation and oil absorb as would be read ns would be maintal would be utilised in ng activities would l ie: Rehabilitation ar rbance would be mi trol measures consist	ted land. on or disposal of gaseous, liquid or solid tion measures outlined below are contained on site within fuel cells and ly as appropriate handling mechanisms ent materials for the management of ily available for the duration of the management of contained by Whitehaven and subcontractors, the recirculation of drilling fluids and the managed and disposed of in the dy a licenced waste removal contractor, nimised as much as practicable.		
Do the operations comply with standards, plans, policies? Criteria Potential impacts	Wastes & Emissions: Impacts on areas with degrate Activities are unlikely to impact areas sensity wastes or emissions provided the management implemented. Fuel, drilling chemicals and other hydroappropriate containers. Spill events within the exploration active for hazardous substances would be undertaken. Notwithstanding, adequate spill prever spills and leaks for all chemicals, fuels and oil on Activities. A list of any chemicals and hydrocarbor. Any incidental groundwater produced confined to above ground tanks. Recirculated water and spoil from drilling accordance with the Exploration Code of Practice. Vegetation clearance and surface disturballs and Construction (Landcom, 2004), would	raded or contamina ive to the generatic controls and mitiga ocarbons would be of rity areas are unlike ation and oil absorb as would be read as would be maintal would be utilised in the Rehabilitation are rbance would be mi trol measures consist be implemented at	ted land. on or disposal of gaseous, liquid or solid tion measures outlined below are contained on site within fuel cells and ly as appropriate handling mechanisms ent materials for the management of ily available for the duration of the managed and disposed of in do by a licenced waste removal contractor. In the license of the managed as much as practicable. Stent with Managing Urban Stormwater: each site.		
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Do the operations comply with standards, plans, policies? Criteria Potential impacts Proposed management controls Duration Application ranking What is the confidence in predicting	Wastes & Emissions: Impacts on areas with degrate Activities are unlikely to impact areas sensit wastes or emissions provided the management implemented. Fuel, drilling chemicals and other hydroappropriate containers. Spill events within the exploration active for hazardous substances would be undertakent. Notwithstanding, adequate spill prever spills and leaks for all chemicals, fuels and oil on Activities. Alist of any chemicals and hydrocarbor and incidental groundwater produced to confined to above ground tanks. Recirculated water and spoil from drillicacordance with the Exploration Code of Practical Appropriate erosion and sediment contolis and Construction (Landcom, 2004), would General domestic waste products and and appropriately stored or removed from the analysis and construction (Landcom, 2004), would Soils and Construction (Landcom, 2004), would and appropriately stored or removed from the analysis and the drill site areas and removed at the energy waste and excess material would be mentionemental Management. Approximately 8 weeks	raded or contaminative to the generatic controls and mitigate controls and mitigate controls and mitigate carbons would be control and oil absorbtistic would be maintain would be utilised in the control measures consists to implemented at a control mobile toilets will be an of the Activities. Are further studies	ted land. In or disposal of gaseous, liquid or solid tion measures outlined below are Contained on site within fuel cells and ly as appropriate handling mechanisms ent materials for the management of ily available for the duration of the Intend by Whitehaven and subcontractors, the recirculation of drilling fluids and be managed and disposed of in d by a licenced waste removal contractor, nimised as much as practicable, stent with Managing Urban Stormwater: each site. If during the Activities would be collected the Activities at the end of each shift, e provided. These would be located ce with the Exploration Code of Practice:		

How resilient is the environment to	Medium Resilience	What is the	Uncertain	
cope with impacts?		level of public		
		concern?		
Can the impacts be reversed?	Yes	Ranking of	Low	
		potential		
		significance		
Can the impacts be mitigated?	Fully	Justification for ra	anking	
Do the operations comply with	Yes			
standards, plans, policies?				
Criteria	Wastes & Emissions: Impacts on areas with degraded or contaminated water (ground or surface).			
Potential impacts	The Activities are unlikely to impact areas sensi	on or disposal of gaseous, liquid or solid		
p	wastes or emissions provided the management controls and mitigation measures outlined belo			
	implemented.			
Proposed management controls	Fuel, drilling chemicals and other hydro	ocarhons would be	contained on site within fuel cells and	
Troposed management controls	appropriate containers.	ocarbons would be	contained on site within ruer cens and	
	'' '	vity areas are unlike	ly as appropriate handling mechanisms	
	for hazardous substances would be undertaken		ny as appropriate nanamig meenamisms	
	Notwithstanding, adequate spill preventions.		ent materials for the management of	
	spills and leaks for all chemicals, fuels and oil or		_	
	Activities.	ii site would be read	any available for the duration of the	
		ns would be mainta	ined by Whitehaven and subcontractors.	
	Any incidental groundwater produced		· ·	
	confined to above ground tanks.	would be attribed in	the recirculation of arming halas and	
	Recirculated water and spoil from drill	ing activities would	he managed and disposed of in	
	accordance with the Exploration Code of Practic	-	= :	
	Vegetation clearance and surface distu		-	
			stent with Managing Urban Stormwater:	
	Soils and Construction (Landcom, 2004), would		5 5	
	, , , , , , , , , , , , , , , , , , , ,	•	d during the Activities would be collected	
	and appropriately stored or removed from the		9	
	Due to the lack of facilities in the field,			
	within the drill site areas and removed at the en		be provided. These would be located	
			nce with the Exploration Code of Practice:	
		ialiageu III accoluai	ice with the Exploration Code of Fractice.	
Duration	Environmental Management.			
Duration	approximately 8 weeks			
Application ranking	Negligible		Ι	
What is the confidence in predicting	High	Are further	No	
impacts?		studies		
		required on		
		impacts or		
		mitigation?		
How resilient is the environment to	Medium Resilience	What is the	Uncertain	
cope with impacts?		level of public		
		concern?		
Can the impacts be reversed?	Yes	Ranking of	Low	
		potential		
		significance		
Can the impacts be mitigated?	Fully	Justification for ra	anking	
Do the operations comply with	Yes			
standards, plans, policies?				
Criteria	Vegetation: Any clearing or modification of veg	etation (including in	npacts on wildlife corridors, remnant	
	vegetation & habitat for species of conservation			
		B		

The area associated with the Activities has primarily been subject to historical agricultural operations and is primarily composed of open grasslands of varying conditions and quality with some fragmented patches of timbered vegetation throughout. Former land uses consist of dryland cropping and livestock grazing.

The drilling for the exploration drilling program would involve the development of drill site areas up to 30 m \times 30 m (approximately 900 metres squared [m2]).

Site preparation works would primarily involve delineation of the proposed drill site with temporary fencing (or similar) to prevent unauthorised access, exclude stock, and ensure disturbance activities are confined within the area. Grass within the fenced areas may be slashed to minimise bushfire hazard around the working machinery and provide a clear working area for operating personnel. Ground disturbance would be limited to the area of the drill hole itself, with some levelling of drill sites required if located on steep or rough terrain. No other ground preparation/earthworks would be undertaken at the drill sites.

In total, the Activities within ML 1719/CL 375 would involve a surface disturbance area (i.e. sum total of all exploration site areas) of approximately 1.3 hectares (ha). The need for vegetation clearing, however, would be reduced as a truck mounted drill rig would be utilised. This would also promote the potential for rapid reestablishment of vegetation once the Activities cease.

A site selection process has been conducted to locate the sites within areas of lower potential impact for the Activities while still ensuring critical geological information can be collected. Areas of avoidance for the Activities identified in the planning and scoping of the investigation sites included ecological exclusion areas. In addition, the following has been considered and would continue to be considered in the site selection process:

- Minimisation of vegetation clearing, which would be restricted to ground cover, small shrubs and regenerating trees. Any material from vegetation clearing would be stockpiled and kept for rehabilitation.
- Occasional tree branches may require removal to allow for the safe movement or operation of the drill rig. Each branch requiring removal would be inspected for evidence of recent habitation. Should evidence of recent habitation be present, the branch would not be removed without obtaining advice from an ecologist or suitably qualified professional regarding impact minimisation strategies.

Proposed management controls

In addition to the above, mitigation measures that would be implemented for the duration of the Activities to avoid and/or mitigate potential impacts to vegetation include:

- All access tracks are to be fully rehabilitated upon the completion of the Activities, and tracks are to be fully rehabilitated to return to their pre-activity landform.
- Appropriate erosion and sediment control measures consistent with Managing Urban Stormwater: Soils and Construction (Landcom, 2004), would be implemented at each site.
- A follow-up inspection at each drill site would be undertaken after the Activities are complete to confirm regeneration and/or revegetation performance, determine whether any supplementary measures (e.g. seeding) is required and to confirm there are no ongoing erosion and weed risks as a result of the Activities.
- Monitoring would involve monthly visual inspections (monitoring frequency may be reduced subject to progression of regeneration and/or revegetation and/or reduced erosion risk).
- Additional rehabilitation measures (such as supplementary seeding) would be implemented as required.

approximately 8 weeks Duration Application ranking Negligible What is the confidence in predicting High Are further No impacts? studies required on impacts or mitigation? How resilient is the environment to Medium Resilience What is the Uncertain cope with impacts? level of public concern? Can the impacts be reversed? Ranking of Yes Low potential significance Can the impacts be mitigated? Justification for ranking Fully Do the operations comply with Yes standards, plans, policies? Criteria 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.

The Activities are unlikely to have a significant impact on threatened flora and fauna species due to the short-term, progressive and mobile nature of the Activities, and the regeneration/rehabilitation of the disturbance areas to pre disturbance land use.

The Activities are unlikely to have a significant impact on threatened flora and fauna species due to the short-term, progressive and mobile nature of the Activities, and the regeneration/rehabilitation of the disturbance areas to pre disturbance land use.

The Activities would remove approximately 0.09 ha of Plant Community Type (PCT) 101 in regenerating condition and 0.28 ha of PCT 101 in derived native grassland (DNG) condition, and 0.94 ha of PCT 592 in DNG condition.

PCT 101 in the study is considered to be associated with the following threatened ecological community (TEC): Inland Grey Box Woodland in the Riverina, NSW South Western Slopes, Cobar Peneplain, Nandewar and Brigalow Belt South Bioregions, listed as Endangered under the BC Act. The proposal would remove 0.37 ha of this TEC. An impact assessment in accordance with Section 7.3 of the Biodiversity Conservation Act (i.e. Test of Significance) has been undertaken (Ecoplanning, 2024). Ecoplanning (2024) found that subject to mitigation measures outlined below, there will be no significant impacts to this TEC (Ecoplanning, 2024).

The area associated with the Activities has primarily been subject to historical agricultural operations and is primarily composed of open grasslands of varying conditions and quality with some fragmented patches of timbered vegetation throughout. Former land uses consist of dryland cropping and livestock grazing.

A site selection process has been conducted to locate the sites within areas of lower potential impact for the Activities while still ensuring critical geological information can be collected. Areas of avoidance for the Activities identified in the planning and scoping of the investigation sites included ecological exclusion areas. In addition, the following has been considered and would continue to be considered in the site selection process:

- Minimisation of vegetation clearing, which would be restricted to ground cover, small shrubs and regenerating trees. Any material from vegetation clearing would be stockpiled and kept for rehabilitation.
- Occasional tree branches may require removal to allow for the safe movement or operation of the
 drill rig. Each branch requiring removal would be inspected for evidence of recent habitation. Should
 evidence of recent habitation be present, the branch would not be removed without obtaining advice from
 an ecologist or suitably qualified professional regarding impact minimisation strategies.

Proposed management controls

As described above, a site selection process has been conducted to locate the sites within areas of lower potential impact for the Activities while still ensuring critical geological information can be collected. Areas of avoidance for the Activities identified in the planning and scoping of the investigation sites included ecological exclusion areas. In addition, the following has been considered and would continue to be considered in the site selection process:

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- Occasional tree branches may require removal to allow for the safe movement or operation of the drill rig. Each branch requiring removal would be inspected for evidence of recent habitation. Should evidence of recent habitation be present, the branch would not be removed without obtaining advice from an ecologist or suitably qualified professional regarding impact minimisation strategies.

In addition, mitigation measures that would be implemented for the duration of the Activities to avoid and/or mitigate potential impacts to threatened species include:

- Avoidance of large native trees, including Koala feed tree species.
- Avoidance of hollow-bearing trees, dead stags and hollow logs.
- All access tracks are to be fully rehabilitated upon the completion of the Activities, and tracks are to be fully rehabilitated to return to their pre-activity landform.
- Appropriate erosion and sediment control measures consistent with Managing Urban Stormwater: Soils and Construction (Landcom, 2004), would be implemented at each site.
- A follow-up inspection at each drill site would be undertaken after the Activities are complete to confirm regeneration and/or revegetation performance, determine whether any supplementary measures (e.g. seeding) is required and to confirm there are no ongoing erosion and weed risks as a result of the
- Monitoring would involve monthly visual inspections (monitoring frequency may be reduced subject to progression of regeneration and/or revegetation and/or reduced erosion risk).
- Additional rehabilitation measures (such as supplementary seeding) would be implemented as required.

Should a threatened species be identified during the Activities, work in the surrounding area would stop immediately and an appropriate ecologist engaged for advice and handling. Whitehaven would facilitate and consult with the relevant authorities in line with the ecologist's recommendations.

Duration	approximately 8 weeks			
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?	Medium Resilience	What is the level of public concern?	Uncertain	
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			
Criteria	Threatened Flora Species: Any adverse effect or local population of the species is likely to be pla	•	· ·	
	regenerating trees. Any material from vegetation	mpact on threateners he Activities, and the second process of Plant Committee grassland (DNG) at the second process of the second process of the second process of the second process of the investigation and would be restricted by the second process of the second p	and flora and fauna species due to the eregeneration/rehabilitation of the unity Type (PCT) 101 in regenerating condition, and 0.94 ha of PCT 592 in DNG ing threatened ecological community ern Slopes, Cobar Peneplain, Nandewar e BC Act. The proposal would remove 0.37 and of the Biodiversity Conservation Act. Ecoplanning (2024) found that subject to pacts to this TEC (Ecoplanning, 2024). To historical agricultural operations and is uality with some fragmented patches of and cropping and livestock grazing. The areas of lower potential impact for the collected. Areas of avoidance for the a sites included ecological exclusion areas. To be considered in the site selection incited to ground cover, small shrubs and	

Proposed management controls

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- Minimisation of vegetation clearing, which would be restricted to ground cover, small shrubs and regenerating trees. Any material from vegetation clearing would be stockpiled and kept for rehabilitation.
- Occasional tree branches may require removal to allow for the safe movement or operation of the drill rig. Each branch requiring removal would be inspected for evidence of recent habitation. Should evidence of recent habitation be present, the branch would not be removed without obtaining advice from an ecologist or suitably qualified professional regarding impact minimisation strategies.

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- Avoidance of large native trees, including Koala feed tree species.
- Avoidance of hollow-bearing trees, dead stags and hollow logs.
- All access tracks are to be fully rehabilitated upon the completion of the Activities, and tracks are to be fully rehabilitated to return to their pre-activity landform.
- Appropriate erosion and sediment control measures consistent with Managing Urban Stormwater: Soils and Construction (Landcom, 2004), would be implemented at each site.
- A follow-up inspection at each drill site would be undertaken after the Activities are complete to
 confirm regeneration and/or revegetation performance, determine whether any supplementary measures
 (e.g. seeding) is required and to confirm there are no ongoing erosion and weed risks as a result of the
 Activities.
- Monitoring would involve monthly visual inspections (monitoring frequency may be reduced subject to progression of regeneration and/or revegetation and/or reduced erosion risk).
- Additional rehabilitation measures (such as supplementary seeding) would be implemented as required.

Should a threatened species be identified during the Activities, work in the surrounding area would stop immediately and an appropriate ecologist engaged for advice and handling. Whitehaven would facilitate and consult with the relevant authorities in line with the ecologist's recommendations.

	consult with the relevant authorities in line with the ecologist's recommendations.		
Duration	approximately 8 weeks		
Application ranking	Negligible Negligible		
What is the confidence in predicting	High	Are further	No
impacts?	nigii	studies	NO
impacts:		required on	
		impacts or	
		mitigation?	
How resilient is the environment to	Madium Pariliana		Hanning .
	Medium Resilience	What is the	Uncertain
cope with impacts?		level of public	
0	W	concern?	
Can the impacts be reversed?	Yes	Ranking of	Low
		potential	
		significance	L
Can the impacts be mitigated?	Fully	Justification for ra	anking
Do the operations comply with	Yes		
standards, plans, policies?			
Criteria	Areas of outstanding biodiversity value/Critical		
	biodiversity value under the Biodiversity Conser	vation Act 2016 b	. areas declared critical habitat under the
	Fisheries Management Act 1994.		
Potential impacts	No declared areas of outstanding biodiversity va		,
	mapped within the area associated with the Act		
	the Fisheries Management Act 1994 are mappe	d within the area as	sociated with the Activities.
Proposed management controls			
Duration	approximately 8 weeks		
Application ranking			
What is the confidence in predicting	High	Are further	No
impacts?		studies	
		required on	
		impacts or	
		mitigation?	
How resilient is the environment to	Medium Resilience	What is the	Uncertain
cope with impacts?		level of public	
		concern?	

	T		T .	
Can the impacts be reversed?	Yes	Ranking of	Low	
		potential		
0 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	F II	significance		
Can the impacts be mitigated?	Fully	Justification for ranking		
Do the operations comply with standards, plans, policies?	Yes			
Criteria	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.			
Potential impacts	The Activities are unlikely to have a significant impact on threatened flora and fauna species due short-term, progressive and mobile nature of the Activities, and the regeneration/rehabilitation disturbance areas to pre disturbance land use. The Activities would remove approximately 0.09 ha of Plant Community Type (PCT) 101 in regen			
	condition and 0.28 ha of PCT 101 in derived nat condition. PCT 101 in the study is considered to be associated.			
	PCT 101 in the study is considered to be associated with the following threatened ecological co (TEC): Inland Grey Box Woodland in the Riverina, NSW South Western Slopes, Cobar Peneplain, and Brigalow Belt South Bioregions, listed as Endangered under the BC Act. The proposal woul ha of this TEC. An impact assessment in accordance with Section 7.3 of the Biodiversity Conser (i.e. Test of Significance) has been undertaken (Ecoplanning, 2024). Ecoplanning (2024) found t mitigation measures outlined below, there will be no significant impacts to this TEC (Ecoplanning).			
	The areas associated with the Activities has prin primarily composed of open grasslands of varyin timbered vegetation throughout. Former land u	ng conditions and q	uality with some fragmented patches of	
	A site selection process has been conducted for the Activities to locate the sites within area potential impact for the Activities while still ensuring critical geological information can be avoidance for the Activities identified in the planning and scoping of the investigation sites ecological exclusion areas. Previously cleared/disturbed areas would be utilised for the Acti areas consisting of intact native vegetation. In addition, the following has been considered continue to be considered in the site selection process:			
	 Minimisation of vegetation clearing, which would be restricted to ground cover, small shrubs and regenerating trees. Any material from vegetation clearing would be stockpiled and kept for rehabilitation. Occasional tree branches may require removal to allow for the safe movement or operation of the drill rig. Each branch requiring removal would be inspected for evidence of recent habitation. Should evidence of recent habitation be present, the branch would not be removed without obtaining advice from an ecologist or suitably qualified professional regarding impact minimisation strategies. 			
	Due to the short-term, progressive and mobile of the disturbance areas to pre disturbance land an endangered ecological community or critical	d use, the Activities	are unlikely to have an adverse effect on	

Proposed management controls

As described above, a site selection process has been conducted for the Activities to locate the sites within areas of lower potential impact for the Activities while still ensuring critical geological information can be collected. Areas of avoidance for the Activities identified in the planning and scoping of the investigation sites included ecological exclusion areas. Previously cleared/disturbed areas would be utilised for the Activities instead of areas consisting of intact native vegetation. In addition, the following has been considered and would continue to be considered in the site selection process:

- Minimisation of vegetation clearing, which would be restricted to ground cover, small shrubs and regenerating trees. Any material from vegetation clearing would be stockpiled and kept for rehabilitation.
- Occasional tree branches may require removal to allow for the safe movement or operation of the drill rig. Each branch requiring removal would be inspected for evidence of recent habitation. Should evidence of recent habitation be present, the branch would not be removed without obtaining advice from an ecologist or suitably qualified professional regarding impact minimisation strategies.

In addition, mitigation measures that would be implemented for the duration of the Activities to avoid and/or mitigate potential impacts to endangered ecological communities and critically endangered ecological communities include:

- All access tracks are to be fully rehabilitated upon the completion of the Activities, and tracks are to be fully rehabilitated to return to their pre-activity landform.
- Appropriate erosion and sediment control measures consistent with Managing Urban Stormwater: Soils and Construction (Landcom, 2004), would be implemented at each site.
- A follow-up inspection at each drill site would be undertaken after the Activities are complete to confirm regeneration and/or revegetation performance, determine whether any supplementary measures (e.g. seeding) is required and to confirm there are no ongoing erosion and weed risks as a result of the Activities.
- Monitoring would involve monthly visual inspections (monitoring frequency may be reduced subject to progression of regeneration and/or revegetation and/or reduced erosion risk).
- Additional rehabilitation measures (such as supplementary seeding) would be implemented as required.

	required.		
Duration	approximately 8 weeks		
Application ranking	Negligible		
What is the confidence in predicting	High	Are further	No
impacts?		studies	
		required on	
		impacts or	
		mitigation?	
How resilient is the environment to	Medium Resilience	What is the	Uncertain
cope with impacts?		level of public	
		concern?	
Can the impacts be reversed?	Yes	Ranking of	Low
		potential	
		significance	
Can the impacts be mitigated?	Fully	Justification for ranking	
Do the operations comply with	Yes		
standards, plans, policies?			
Criteria	Habitat of a threatened species or ecological co	mmunity	

The Activities would remove approximately 0.09 ha of Plant Community Type (PCT) 101 in regenerating condition and 0.28 ha of PCT 101 in derived native grassland (DNG) condition, and 0.94 ha of PCT 592 in DNG condition.

PCT 101 in the study is considered to be associated with the following threatened ecological community (TEC): Inland Grey Box Woodland in the Riverina, NSW South Western Slopes, Cobar Peneplain, Nandewar and Brigalow Belt South Bioregions, listed as Endangered under the BC Act. The proposal would remove 0.37 ha of this TEC. An impact assessment in accordance with Section 7.3 of the Biodiversity Conservation Act (i.e. Test of Significance) has been undertaken (Ecoplanning, 2024). Ecoplanning (2024) found that subject to mitigation measures outlined below there will be no significant impacts to this TEC (Ecoplanning, 2024).

The Activities would remove 1.31 ha of native vegetation. Whilst this vegetation consists of potential foraging habitat for a range of species, no mature trees or hollow bearing trees would be removed as part of the proposal.

One threatened bird species, the Spotted Harrier, was considered to have a moderate likelihood of occurring within the subject site. The proposal would directly remove 1.31 ha of potential foraging habitat for these species across the 10 sites. No breeding habitat would be removed by the proposal. An impact assessment in accordance with Section 7.3 of the BC Act (i.e. Test of Significance) has been undertaken (Ecoplanning, 2024) and found that subject to mitigation measures outlined below significant impacts to this species are unlikely. No additional threatened fauna would be impacted by the proposal.

In consideration of the above, the Activities are unlikely to have a significant impact on the habitat of a threatened species or ecological community due to the short-term, progressive and mobile nature of the Activities, and the regeneration/rehabilitation of the disturbance areas to pre disturbance land use.

The area associated with the Activities has primarily been subject to historical agricultural operations and is primarily composed of open grasslands of varying conditions and quality with some fragmented patches of timbered vegetation throughout. Former land uses consist of dryland cropping and livestock grazing.

This land use is consistent with the surrounding area, which is largely an agricultural landscape, comprising primarily of grazing and cropping activities dominating the area to the north, south, east and west of Leard State Forest. Additionally, the active open cut mining operations of Boggabri Coal Mine and Tarrawonga Coal Mine are located south-east of the Activities, within the Leard State forest.

A site selection process has been conducted to locate the sites within areas of lower potential impact for the Activities still ensuring critical geological information can be collected. Areas of avoidance for the Activities identified in the planning and scoping of the investigation sites included ecological exclusion areas. In addition, the following has been considered and would continue to be considered in the site selection process:

- Minimisation of vegetation clearing, which would be restricted to ground cover, small shrubs and regenerating trees. Any material from vegetation clearing would be stockpiled and kept for rehabilitation.
- Occasional tree branches may require removal to allow for the safe movement or operation of the drill rig. Each branch requiring removal would be inspected for evidence of recent habitation. Should evidence of recent habitation be present, the branch would not be removed without obtaining advice from an ecologist or suitably qualified professional regarding impact minimisation strategies.

Proposed management controls

As described above, a site selection process has been conducted to locate the sites within areas of lower potential impact for the Activities while still ensuring critical geological information can be collected. Areas of avoidance for the Activities identified in the planning and scoping of the investigation sites included ecological exclusion areas. In addition, the following has been considered and would continue to be considered in the site selection process:

- Minimisation of vegetation clearing, which would be restricted to ground cover, small shrubs and regenerating trees. Any material from vegetation clearing would be stockpiled and kept for rehabilitation.
- Occasional tree branches may require removal to allow for the safe movement or operation of the drill rig. Each branch requiring removal would be inspected for evidence of recent habitation. Should evidence of recent habitation be present, the branch would not be removed without obtaining advice from an ecologist or suitably qualified professional regarding impact minimisation strategies.

In addition, mitigation measures that would be implemented for the duration of the Activities to avoid and/or mitigate potential impacts to the habitat of threatened species and ecological communities include:

- Avoidance of large native trees, including Koala feed tree species.
- Avoidance of hollow-bearing trees, dead stags and hollow logs.
- All native vegetation will be protected during the entire extent of the works, e.g. temporary fencing, flagging and tree protection. No personnel or machinery are to enter the protected area.
- If any fauna are identified during works and require rescue, a qualified Ecologist, or fauna rescue volunteer, will be notified. Works will not continue until the animal has been rescued. Call WIRES on 1300
- During clearing works or construction works, if any native fauna are identified in the works area, works will stop immediately and a qualified Ecologist should be contacted.
- Best practise bush regeneration techniques, including disposal of weeds to a licenced waste disposal facility.
- All access tracks are to be fully rehabilitated upon the completion of the Activities, and tracks are to be fully rehabilitated to return to their pre-activity landform.
- Appropriate erosion and sediment control measures consistent with Managing Urban Stormwater: Soils and Construction (Landcom, 2004), would be implemented at each site.
- A follow-up inspection at each drill site would be undertaken after the Activities are complete to
 confirm regeneration and/or revegetation performance, determine whether any supplementary measures
 (e.g. seeding) is required and to confirm there are no ongoing erosion and weed risks as a result of the
 Activities.
- Monitoring would involve monthly visual inspections (monitoring frequency may be reduced subject to progression of regeneration and/or revegetation and/or reduced erosion risk).
- Additional rehabilitation measures (such as supplementary seeding) would be implemented as required.

	required.		
Duration	approximately 8 weeks		
Application ranking	Negligible		
What is the confidence in predicting	High	Are further	No
impacts?		studies	
		required on	
		impacts or	
		mitigation?	
How resilient is the environment to	Medium Resilience	What is the	Uncertain
cope with impacts?		level of public	
		concern?	
Can the impacts be reversed?	Yes	Ranking of	Low
		potential	
		significance	
Can the impacts be mitigated?	Fully	Justification for ra	anking
Do the operations comply with	Yes		
standards, plans, policies?			
Criteria	Habitat of protected aquatic species or those with conservation status.		

The Activities would remove approximately 0.09 ha of Plant Community Type (PCT) 101 in regenerating condition and 0.28 ha of PCT 101 in derived native grassland (DNG) condition, and 0.94 ha of PCT 592 in DNG condition.

PCT 101 in the study is considered to be associated with the following threatened ecological community (TEC): Inland Grey Box Woodland in the Riverina, NSW South Western Slopes, Cobar Peneplain, Nandewar and Brigalow Belt South Bioregions, listed as Endangered under the BC Act. The proposal would remove 0.37 ha of this TEC. An impact assessment in accordance with Section 7.3 of the Biodiversity Conservation Act (i.e. Test of Significance) has been undertaken (Ecoplanning, 2024). Ecoplanning (2024) found that subject to mitigation measures outlined below there will be no significant impacts to this TEC (Ecoplanning, 2024).

The Activities would remove 1.31 ha of native vegetation. Whilst this vegetation consists of potential foraging habitat for a range of species, no mature trees or hollow bearing trees would be removed as part of the proposal.

One threatened bird species, the Spotted Harrier, was considered to have a moderate likelihood of occurring within the subject site. The proposal would directly remove 1.31 ha of potential foraging habitat for these species across the 10 sites. No breeding habitat would be removed by the proposal. An impact assessment in accordance with Section 7.3 of the BC Act (i.e. Test of Significance) has been undertaken (Ecoplanning, 2024) and found that subject to mitigation measures outlined below significant impacts to this species are unlikely. No additional threatened fauna would be impacted by the proposal.

In consideration of the above, the Activities are unlikely to have a significant impact on the habitat of a threatened species or ecological community due to the short-term, progressive and mobile nature of the Activities, and the regeneration/rehabilitation of the disturbance areas to pre disturbance land use.

The area associated with the Activities has primarily been subject to historical agricultural operations and is primarily composed of open grasslands of varying conditions and quality with some fragmented patches of timbered vegetation throughout. Former land uses consist of dryland cropping and livestock grazing.

This land use is consistent with the surrounding area, which is largely an agricultural landscape, comprising primarily of grazing and cropping activities dominating the area to the north, south, east and west of Leard State Forest. Additionally, the active open cut mining operations of Boggabri Coal Mine and Tarrawonga Coal Mine are located south-east of the Activities, within the Leard State forest.

A site selection process has been conducted to locate the sites within areas of lower potential impact for the Activities still ensuring critical geological information can be collected. Areas of avoidance for the Activities identified in the planning and scoping of the investigation sites included ecological exclusion areas. In addition, the following has been considered and would continue to be considered in the site selection process:

- Minimisation of vegetation clearing, which would be restricted to ground cover, small shrubs and regenerating trees. Any material from vegetation clearing would be stockpiled and kept for rehabilitation.
- Occasional tree branches may require removal to allow for the safe movement or operation of the drill rig. Each branch requiring removal would be inspected for evidence of recent habitation. Should evidence of recent habitation be present, the branch would not be removed without obtaining advice from an ecologist or suitably qualified professional regarding impact minimisation strategies.

Proposed management controls

As described above, a site selection process has been conducted to locate the sites within areas of lower potential impact for the Activities while still ensuring critical geological information can be collected. Areas of avoidance for the Activities identified in the planning and scoping of the investigation sites included ecological exclusion areas. In addition, the following has been considered and would continue to be considered in the site selection process:

- Minimisation of vegetation clearing, which would be restricted to ground cover, small shrubs and regenerating trees. Any material from vegetation clearing would be stockpiled and kept for rehabilitation.
- Occasional tree branches may require removal to allow for the safe movement or operation of the drill rig. Each branch requiring removal would be inspected for evidence of recent habitation. Should evidence of recent habitation be present, the branch would not be removed without obtaining advice from an ecologist or suitably qualified professional regarding impact minimisation strategies.

In addition, mitigation measures that would be implemented for the duration of the Activities to avoid and/or mitigate potential impacts to the habitat of threatened species and ecological communities include:

- Avoidance of large native trees, including Koala feed tree species.
- Avoidance of hollow-bearing trees, dead stags and hollow logs.
- All native vegetation will be protected during the entire extent of the works, e.g. temporary fencing, flagging and tree protection. No personnel or machinery are to enter the protected area.
- If any fauna are identified during works and require rescue, a qualified Ecologist, or fauna rescue volunteer, will be notified. Works will not continue until the animal has been rescued. Call WIRES on 1300
- During clearing works or construction works, if any native fauna are identified in the works area, works will stop immediately and a qualified Ecologist should be contacted.
- Best practise bush regeneration techniques, including disposal of weeds to a licenced waste disposal facility.
- All access tracks are to be fully rehabilitated upon the completion of the Activities, and tracks are to be fully rehabilitated to return to their pre-activity landform.
- Appropriate erosion and sediment control measures consistent with Managing Urban Stormwater: Soils and Construction (Landcom, 2004), would be implemented at each site.
- A follow-up inspection at each drill site would be undertaken after the Activities are complete to confirm regeneration and/or revegetation performance, determine whether any supplementary measures (e.g. seeding) is required and to confirm there are no ongoing erosion and weed risks as a result of the Activities.
- Monitoring would involve monthly visual inspections (monitoring frequency may be reduced subject to progression of regeneration and/or revegetation and/or reduced erosion risk).
- Additional rehabilitation measures (such as supplementary seeding) would be implemented as required.

	. equilies			
Duration	approximately 8 weeks			
Application ranking	Negligible			
What is the confidence in predicting	High	Are further	No	
impacts?		studies		
		required on		
		impacts or		
		mitigation?		
How resilient is the environment to	Medium Resilience	What is the	Uncertain	
cope with impacts?		level of public		
		concern?		
Can the impacts be reversed?	Yes	Ranking of	Low	
		potential		
		significance		
Can the impacts be mitigated?	Fully	Justification for ranking		
Do the operations comply with	Yes			
standards, plans, policies?				
Criteria	Key Threatening Processes: As outlined in Scheo	ing 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.			

Potential impacts The Activities are unlikely to endanger, displace or disturb fauna or create a barrier to their movement. The area associated with the Activities has primarily been subject to historical agricultural operations and is primarily composed of open grasslands of varying conditions and quality with some fragmented patches of timbered vegetation throughout. Former land uses consist of dryland cropping and livestock grazing. Access for the Activities would occur via established access tracks where possible. Exploration sites where no tracks exist would require temporary access tracks which would involve slashing, light grading or driving on paddocks to the desired exploration site location. Any new access tracks would be selected to link drill or soil investigation sites with existing access tracks via the shortest route that minimises environmental impacts and the potential for the Activities to endanger, displace or disturb fauna, or create a barrier to their movement. Any access tracks will be slashed in, and personnel will not be able to deviate off these areas unless internal approval is provided. All access tracks would have a maximum width of 4 m. A follow-up inspection at each drill site would be undertaken after the Activities are complete to confirm regeneration and/or revegetation performance, determine whether any supplementary measures (e.g. seeding) is required and to confirm there are no ongoing erosion and weed risks as a result of the Activities. Monitoring would involve monthly visual inspections (monitoring frequency may be reduced subject to progression of regeneration and/or revegetation and/or reduced erosion risk). Additional rehabilitation measures (such as supplementary seeding) would be implemented as required. **Proposed management controls** As described above, access for the Activities would occur via established access tracks where possible. Exploration sites where no tracks exist would require temporary access tracks which would involve slashing, light grading or driving on paddocks to the desired exploration site location. Any new access tracks would be selected to link drill or soil investigation sites with existing access tracks via the shortest route that minimises environmental impacts and the potential for the Activities to endanger, displace or disturb fauna, or create a barrier to their movement. Any access tracks will be slashed in, and personnel will not be able to deviate off these areas unless internal approval is provided. A follow-up inspection at each drill site would be undertaken after the Activities are complete to confirm regeneration and/or revegetation performance, determine whether any supplementary measures (e.g. seeding) is required and to confirm there are no ongoing erosion and weed risks as a result of the Activities. Monitoring would involve monthly visual inspections (monitoring frequency may be reduced subject to progression of regeneration and/or revegetation and/or reduced erosion risk). Additional rehabilitation measures (such as supplementary seeding) would be implemented as required. Duration approximately 8 weeks Application ranking Negligible What is the confidence in predicting Are further High impacts? studies required on impacts or mitigation? How resilient is the environment to Medium Resilience What is the Uncertain cope with impacts? level of public concern? Can the impacts be reversed? Yes Ranking of Iow

conservation significance) or create a barrier to their movement.

potential significance

Justification for ranking

Barriers to movement of fauna: Any potential to endanger, displace or disturb fauna (including fauna of

Can the impacts be mitigated?

Do the operations comply with standards, plans, policies?

Criteria

Fully

Potential impacts The Activities are unlikely to endanger, displace or disturb fauna or create a barrier to their movement. The area associated with the Activities has primarily been subject to historical agricultural operations and is primarily composed of open grasslands of varying conditions and quality with some fragmented patches of timbered vegetation throughout. Former land uses consist of dryland cropping and livestock grazing. Access for the Activities would occur via established access tracks where possible. Exploration sites where no tracks exist would require temporary access tracks which would involve slashing, light grading or driving on paddocks to the desired exploration site location. Any new access tracks would be selected to link drill or soil investigation sites with existing access tracks via the shortest route that minimises environmental impacts and the potential for the Activities to endanger, displace or disturb fauna, or create a barrier to their movement. Any access tracks will be slashed in, and personnel will not be able to deviate off these areas unless internal approval is provided. All access tracks would have a maximum width of 4 m. A follow-up inspection at each drill site would be undertaken after the Activities are complete to confirm regeneration and/or revegetation performance, determine whether any supplementary measures (e.g. seeding) is required and to confirm there are no ongoing erosion and weed risks as a result of the Activities. Monitoring would involve monthly visual inspections (monitoring frequency may be reduced subject to progression of regeneration and/or revegetation and/or reduced erosion risk). Additional rehabilitation measures (such as supplementary seeding) would be implemented as required. **Proposed management controls** As described above, access for the Activities would occur via established access tracks where possible. Exploration sites where no tracks exist would require temporary access tracks which would involve slashing, light grading or driving on paddocks to the desired exploration site location. Any new access tracks would be selected to link drill or soil investigation sites with existing access tracks via the shortest route that minimises environmental impacts and the potential for the Activities to endanger, displace or disturb fauna, or create a barrier to their movement. Any access tracks will be slashed in, and personnel will not be able to deviate off these areas unless internal approval is provided. A follow-up inspection at each drill site would be undertaken after the Activities are complete to confirm regeneration and/or revegetation performance, determine whether any supplementary measures (e.g. seeding) is required and to confirm there are no ongoing erosion and weed risks as a result of the Activities. Monitoring would involve monthly visual inspections (monitoring frequency may be reduced subject to progression of regeneration and/or revegetation and/or reduced erosion risk). Additional rehabilitation measures (such as supplementary seeding) would be implemented as required. Duration approximately 8 weeks Application ranking Negligible What is the confidence in predicting Are further High impacts? studies required on impacts or mitigation? How resilient is the environment to Medium Resilience What is the Uncertain cope with impacts? level of public concern? Can the impacts be reversed? Ranking of Iow potential

standards, plans, policies?

Criteria

Ecological & Biosecurity Impacts: Any threat to the biological diversity or ecological integrity of an ecological community.

significance

Justification for ranking

Can the impacts be mitigated?

Do the operations comply with

Fully

Potential impacts The Activities are unlikely to have an adverse impact on ecology or biosecurity. The area associated with the Activities has primarily been subject to historical agricultural operations and is primarily composed of open grasslands of varying conditions and quality with some fragmented patches of timbered vegetation throughout. Former land uses consist of dryland cropping and livestock grazing. The exploration drilling program would involve the development of 10 drill pads up to 30 x 30 m (approximately 900 m2). Site preparation works would primarily involve delineation of the proposed drill site with temporary fencing (or similar) to prevent unauthorised access, exclude any stock, and ensure any disturbance activities are confined within the area. Grass within the fenced areas may be slashed to minimise bushfire hazard around the working machinery and provide a clear working area for operating personnel. Ground disturbance would be limited to the area of the drill hole itself, with some levelling of drill sites required if located on steep or rough terrain. No other ground preparation/earthworks would be undertaken at the drill sites. In total, the Activities within ML 1719/CL 375 would involve a surface disturbance area (i.e. sum total of all exploration site areas) of approximately 1.31 ha. The need for vegetation clearing, however, would be reduced as a truck mounted drill rig would be utilised. This would also promote the potential for rapid reestablishment of vegetation once the Activities cease. The Activities would not significantly increase the risk of priority weeds, vermin, biosecurity threats, feral species, or genetically modified organisms being introduced into the area associated with the Activities. The Activities are also unlikely to cause a bushfire risk. **Proposed management controls** The Activities are unlikely to have an adverse impact on ecology or biosecurity. **Duration** approximately 8 weeks Application ranking null,2 What is the confidence in predicting High Are further impacts? studies required on impacts or mitigation? How resilient is the environment to Medium Resilience What is the Uncertain cope with impacts? level of public concern? Can the impacts be reversed? Yes Ranking of Low potential significance Justification for ranking Can the impacts be mitigated? Fully Do the operations comply with Yes standards, plans, policies? Criteria 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. **Potential impacts** The Activities are unlikely to have an adverse impact on ecology or biosecurity. The area associated with the Activities has primarily been subject to historical agricultural operations and is primarily composed of open grasslands of varying conditions and quality with some fragmented patches of timbered vegetation throughout. Former land uses consist of dryland cropping and livestock grazing. The exploration drilling program would involve the development of 10 drill pads up to 30 x 30 m (approximately 900 m2). Site preparation works would primarily involve delineation of the proposed drill site with temporary fencing (or similar) to prevent unauthorised access, exclude any stock, and ensure any disturbance activities are confined within the area. Grass within the fenced areas may be slashed to minimise bushfire hazard around the working machinery and provide a clear working area for operating personnel. Ground disturbance would be limited to the area of the drill hole itself, with some levelling of drill sites required if located on steep or rough terrain. No other ground preparation/earthworks would be undertaken at the drill sites. In total, the Activities within ML 1719/CL 375 would involve a surface disturbance area (i.e. sum total of all exploration site areas) of approximately 1.31 ha. The need for vegetation clearing, however, would be reduced as a truck mounted drill rig would be utilised. This would also promote the potential for rapid reestablishment of vegetation once the Activities cease. The Activities would not significantly increase the risk of priority weeds, vermin, biosecurity threats, feral species, or genetically modified organisms being introduced into the area associated with the Activities. The Activities are also unlikely to cause a bushfire risk. **Proposed management controls** The Activities are unlikely to have an adverse impact on ecology or biosecurity. Duration approximately 8 weeks

Application ranking	null,2			
What is the confidence in predicting	High	Are further	No	
impacts?		studies		
		required on		
		impacts or		
		mitigation?		
How resilient is the environment to	Medium Resilience	What is the	Uncertain	
cope with impacts?	ca.a	level of public	0.100.10.11	
орс и и и разы		concern?		
Can the impacts be reversed?	Yes	Ranking of	Low	
can the impacts be reversed:	163	potential	LOW	
		significance		
Can the impacts be mitigated?	Fully Justification for ranking			
Do the operations comply with	Yes Justification for failking			
standards, plans, policies?	163			
Criteria	Ecological & Biosecurity Impacts: Likely to cause	ı - a significant bushf	ire risk.	
Potential impacts	The Activities are unlikely to have an adverse in			
Potential impacts	The Activities are unlikely to have an adverse in	ipact on ecology of	biosecurity.	
	The area associated with the Activities has prim	arily boon subject t	a historical agricultural aparations and is	
	The area associated with the Activities has prim		=	
	primarily composed of open grasslands of varyi			
	timbered vegetation throughout. Former land u	ises consist of dryla	nd cropping and livestock grazing.	
	The exploration drilling program would involve	the development of	f 10 drill nade up to 20 v 20 m	
	The exploration drilling program would involve (approximately 900 m2).	the development of	10 driii paus up to 30 x 30 iii	
	(approximately 900 mz).			
	Site preparation works would primarily involve	dalinaatian af tha n	range and drill site with temperature families	
	1	-	-	
	(or similar) to prevent unauthorised access, exc	•		
	confined within the area. Grass within the fence	•		
	the working machinery and provide a clear wor		= :	
	be limited to the area of the drill hole itself, wit	_		
	rough terrain. No other ground preparation/ear	thworks would be t	undertaken at the drill sites.	
	In total, the Activities within ML 1719/CL 375 w			
	exploration site areas) of approximately 1.31 ha	a. The need for vege	tation clearing, however, would be	
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Application ranking	Negligible		
What is the confidence in predicting	High	Are further	No
impacts?		studies	
		required on	
		impacts or	
		mitigation?	
How resilient is the environment to	Medium Resilience	What is the	Uncertain
cope with impacts?		level of public	
		concern?	
Can the impacts be reversed?	Yes	Ranking of	Low
•		potential	
		significance	
Can the impacts be mitigated?	Fully	Justification for ra	anking
Do the operations comply with	Yes		
standards, plans, policies?			
Criteria	Community Resources: Any diversion of resource	ces to the detriment	of other communities or natural systems.
Potential impacts	The Activities would not likely result in the dive		
	natural systems.	. 5.0 5 655 4 665 4.	
Proposed management controls	Natural resources are unlikely to be impacted d	ue to the short-terr	n, progressive and mobile nature of the
	Activities, and the regeneration/rehabilitation of		
	selection process has included avoidance of eco		•
	considered and would continue to be considered	_	_
	considered and would continue to be considered	d iii tiie site seleetii	511 p. 00033.
	Minimisation of vegetation clearing w	hich would he restri	cted to ground cover, small shrubs and
	regenerating trees. Any material from vegetation		=
	, , ,	0	r the safe movement or operation of the
	drill rig. Each branch requiring removal would b		· · · · · · · · · · · · · · · · · · ·
	evidence of recent habitation be present, the b	•	
	an ecologist or suitably qualified professional re		
	, , , ,		a location that involves the least potential
	impacts to the drainage line.	lage lilles, selecting	a location that involves the least potential
	impacts to the dramage line.		
	Any incidental groundwater produced would be	utilised in the resir	culation of drilling fluids and confined to
	above ground tanks. Recirculated water and spe		=
	as per Exploration Code of Practice: Rehabilitati	_	
Duration	approximately 8 weeks	on by a liceliced wa	iste removal contractor.
Application ranking	approximately 8 weeks		
What is the confidence in predicting	High	Are further	No
	nigii		NO
impacts?		studies	
		required on	
		impacts or	
How we silient in the anning and the	Medium Resilience	mitigation?	Uncortain
How resilient is the environment to	ivieuluiti kesilletile	What is the	Uncertain
cope with impacts?		level of public	
Company to the control of the contro	Vac	concern?	1
Can the impacts be reversed?	Yes	Ranking of	Low
		potential	
October 1981 1981 1981		significance	
Can the impacts be mitigated?	Fully	Justification for ra	anking
Do the operations comply with	Yes		
standards, plans, policies?	Network December American Street Street		
Criteria	Natural Resources: Any disruption, depletion or	destruction of natu	irai resources.

The area associated with the Activities has primarily been subject to historical agricultural operations and is primarily composed of open grasslands of varying conditions and quality with some fragmented patches of timbered vegetation throughout. Former land uses consist of dryland cropping and livestock grazing.

Commissioning of each site for the exploration drilling would involve the development of drill site areas up to $30 \times 30 \text{ m}$ (approximately 900 m2).

Site preparation works would primarily involve delineation of the proposed drill site with temporary fencing (or similar) to prevent unauthorised access, exclude any stock, and ensure any disturbance activities are confined within the area. Grass within the fenced areas may be slashed to minimise bushfire hazard around the working machinery and provide a clear working area for operating personnel. Ground disturbance would be limited to the area of the drill hole itself, with some levelling of drill sites required if located on steep or rough terrain. No other ground preparation/earthworks would be undertaken at the drill sites.

In total, the Activities within ML 1719/CL 375 would involve a surface disturbance area (i.e. sum total of all exploration site areas) of approximately 1.3 ha. The need for vegetation clearing, however, would be reduced as a truck mounted drill rig would be utilised. This would also promote the potential for rapid reestablishment of vegetation once the Activities cease.

Any incidental groundwater produced would be utilised in the recirculation of drilling fluids and confined to above ground tanks. Recirculated water and spoil from drilling activities would be managed and disposed of as per Exploration Code of Practice: Rehabilitation by a licenced waste removal contractor.

The impact of the Activities on natural resources would be negligible due to the small disturbance area (i.e. approximately 1.3 ha), the short-term, progressive and mobile nature of the Activities, and the regeneration and/or rehabilitation of the disturbance areas to the pre-disturbance land use.

Proposed management controls

Natural resources are unlikely to be impacted due to the short-term, progressive and mobile nature of the Activities, and the regeneration/rehabilitation of the disturbance areas to pre disturbance land use. The site selection process has included avoidance of ecological exclusion areas. The following has also been considered and would continue to be considered in the site selection process:

- Minimisation of vegetation clearing, which would be restricted to ground cover, small shrubs and regenerating trees. Any material from vegetation clearing would be stockpiled and kept for rehabilitation.
- Occasional tree branches may require removal to allow for the safe movement or operation of the
 drill rig. Each branch requiring removal would be inspected for evidence of recent habitation. Should
 evidence of recent habitation be present, the branch would not be removed without obtaining advice from
 an ecologist or suitably qualified professional regarding impact minimisation strategies.
- For any sites that are proximal to drainage lines, selecting a location that involves the least potential impacts to the drainage line.

Any incidental groundwater produced would be utilised in the recirculation of drilling fluids and confined to above ground tanks. Recirculated water and spoil from drilling activities would be managed and disposed of as per Exploration Code of Practice: Rehabilitation by a licenced waste removal contractor.

Duration approximately 8 weeks Application ranking Negligible What is the confidence in predicting Are further No High impacts? studies required on impacts or mitigation? How resilient is the environment to Medium Resilience What is the Uncertain cope with impacts? level of public concern? Ranking of Can the impacts be reversed? potential significance Fully Can the impacts be mitigated? Justification for ranking Do the operations comply with Yes standards, plans, policies? Criteria 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).

Potential impacts	The area associated with the Activities has primarily been subject to historical agricultural operations and is primarily composed of open grasslands of varying conditions and quality with some fragmented patches of timbered vegetation throughout. Former land uses consist of dryland cropping and livestock grazing.				
	This land use is consistent with the surrounding area, which is largely an agricultural landscape, comprising primarily of grazing and cropping activities dominating the area to the north, south, east and west of Leard State Forest. Additionally, the active open cut mining operations of Boggabri Coal Mine and Tarrawonga Coal Mine are located south-east of the Activities, within the Leard State forest.				
	The Activities would not result in any disruption to existing land uses or activities, or reduce options for future activities.				
Proposed management controls	Natural resources are unlikely to be impacted due to the short-term, progressive and mobile nature of the Activities, and the regeneration/rehabilitation of the disturbance areas to pre disturbance land use. The site selection process has included avoidance of ecological exclusion areas. The following has also been considered and would continue to be considered in the site selection process: • Minimisation of vegetation clearing, which would be restricted to ground cover, small shrubs and regenerating trees. Any material from vegetation clearing would be stockpiled and kept for rehabilitation. • Occasional tree branches may require removal to allow for the safe movement or operation of the drill rig. Each branch requiring removal would be inspected for evidence of recent habitation. Should evidence of recent habitation be present, the branch would not be removed without obtaining advice from an ecologist or suitably qualified professional regarding impact minimisation strategies. • For any sites that are proximal to drainage lines, selecting a location that involves the least potential impacts to the drainage line.				
	Any incidental groundwater produced would be utilised in the recirculation of drilling fluids and confined to above ground tanks. Recirculated water and spoil from drilling activities would be managed and disposed of as per Exploration Code of Practice: Rehabilitation by a licenced waste removal contractor.				
Duration	approximately 8 weeks				
Application ranking	Negligible				
What is the confidence in predicting	High	Are further	No		
impacts?	111611	studies	140		
impacts.		required on			
		· ·			
		impacts or			
	A4 II	mitigation?			
How resilient is the environment to	Medium Resilience	What is the	Uncertain		
cope with impacts?		level of public			
		concern?			
Can the impacts be reversed?	Yes	Ranking of	Low		
		potential			
		significance			
Can the impacts be mitigated?	Fully	Justification for r	anking		
Do the operations comply with	Yes				
standards, plans, policies?	Not as Bosson and Assessment British and British as	december of con-			
Criteria	Natural Resources: Any use which results in the				
Potential impacts	The Activities would not traverse any areas reserved for conservation purposes. Therefore, the campaign				
Drawaged management controls		grade any area reserved for conservation purposes.			
Proposed management controls	Natural resources are unlikely to be impacted due to the short-term, progressive and mobile nature of the Activities, and the regeneration/rehabilitation of the disturbance areas to pre disturbance land use. The site selection process has included avoidance of ecological exclusion areas. The following has also been considered and would continue to be considered in the site selection process:				
	 Minimisation of vegetation clearing, which would be restricted to ground cover, small shrubs and regenerating trees. Any material from vegetation clearing would be stockpiled and kept for rehabilitation. Occasional tree branches may require removal to allow for the safe movement or operation of the drill rig. Each branch requiring removal would be inspected for evidence of recent habitation. Should evidence of recent habitation be present, the branch would not be removed without obtaining advice from an ecologist or suitably qualified professional regarding impact minimisation strategies. For any sites that are proximal to drainage lines, selecting a location that involves the least potential impacts to the drainage line. 				
	Any incidental groundwater produced would be utilised in the recirculation of drilling fluids and confined to above ground tanks. Recirculated water and spoil from drilling activities would be managed and disposed of as per Exploration Code of Practice: Rehabilitation by a licenced waste removal contractor.				
Duration	approximately 8 weeks				
Application ranking	Negligible				

What is the confidence in predicting	High	Are further	No	
impacts?		studies		
impacts:				
		required on		
		impacts or		
		mitigation?		
How resilient is the environment to	Medium Resilience	What is the	Uncertain	
cope with impacts?	Wiediam Resilience	level of public	oneer tann	
cope with impacts:				
		concern?		
Can the impacts be reversed?	Yes	Ranking of	Low	
		potential		
		significance		
0 11 1 11 11 11	<u> </u>			
Can the impacts be mitigated?	Fully Justification for ranking			
Do the operations comply with	Yes			
standards, plans, policies?				
Criteria	Sensitive Land Impacts: Impacts on National parks and other areas reserved or dedicated or acquired under the National Parks and Wildlife Act 1974.			
5				
Potential impacts	N/A			
Proposed management controls	N/A			
Duration	N/A			
Application ranking	N/A			
•	·		L	
What is the confidence in predicting	N/A	Are further	N/A	
impacts?		studies		
-		required on		
		impacts or		
		mitigation?		
How resilient is the environment to	N/A	What is the		
cope with impacts?		level of public		
		concern?		
Can the impacts be reversed?	N/A	Ranking of	N/A	
		potential		
		significance		
		Significance		
Can the impacts he mitigated?	N/A		anking	
Can the impacts be mitigated?	N/A	Justification for ra	anking	
Do the operations comply with	N/A N/A		anking	
<u> </u>	· ·	Justification for ra	under the National Parks and Wildlife Act	
Do the operations comply with standards, plans, policies?	N/A Sensitive Land Impacts: Land subject to a 'conset 1974 and/or the Biodiversity Conservation Act and under the now repealed Threatened Species Conservation established under the Biodiversity Conservation continue to have effect even where legislation now repealed Nature Conservation Trust Act 20 repealed Native Vegetation Act 2003	Justification for receivation agreement' 2016. This includes: onservation Act 1995 conservation Act 2016 Act 2016. c. Exist has been repealed: 001 Property ve	under the National Parks and Wildlife Act a. Biobanking agreement (established 5) or a Biodiversity Stewardship L6. b. Wildlife Refuge agreement ing conservation agreements that Trust agreements under the	
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Do the operations comply with standards, plans, policies? Criteria Potential impacts Proposed management controls	N/A Sensitive Land Impacts: Land subject to a 'conset 1974 and/or the Biodiversity Conservation Act and under the now repealed Threatened Species Coagreement established under the Biodiversity Conservation continue to have effect even where legislation now repealed Nature Conservation Trust Act 20 repealed Native Vegetation Act 2003 Revenue Repealed Native Vegetation Act 1997 N/A N/A	Justification for receivation agreement' 2016. This includes: onservation Act 1995 conservation Act 2016 Act 2016. c. Exist has been repealed: 001 Property ve	under the National Parks and Wildlife Act a. Biobanking agreement (established b) or a Biodiversity Stewardship l.6. b. Wildlife Refuge agreement ing conservation agreements that Trust agreements under the getation plans made under the now-	
Do the operations comply with standards, plans, policies? Criteria Potential impacts Proposed management controls Duration	N/A Sensitive Land Impacts: Land subject to a 'conset 1974 and/or the Biodiversity Conservation Act and under the now repealed Threatened Species Conservation agreement established under the Biodiversity Conservation continue to have effect even where legislation now repealed Nature Conservation Trust Act 20 repealed Native Vegetation Act 2003 Revenue Repealed Native Vegetation Act 1997 N/A N/A	Justification for receivation agreement' 2016. This includes: onservation Act 1995 conservation Act 2016 Act 2016. c. Exist has been repealed: 001 Property ve	under the National Parks and Wildlife Act a. Biobanking agreement (established b) or a Biodiversity Stewardship l.6. b. Wildlife Refuge agreement ing conservation agreements that Trust agreements under the getation plans made under the now-	
Do the operations comply with standards, plans, policies? Criteria Potential impacts Proposed management controls Duration Application ranking	N/A Sensitive Land Impacts: Land subject to a 'conset 1974 and/or the Biodiversity Conservation Act and under the now repealed Threatened Species Coagreement established under the Biodiversity Conservation continue to have effect even where legislation now repealed Nature Conservation Trust Act 20 repealed Native Vegetation Act 2003 Reposed Native Vegetation Act 1997 N/A N/A N/A N/A	Justification for receivation agreement' 2016. This includes: onservation Act 1995 conservation Act 201 n Act 2016. c. Exist has been repealed: 001 Property ve gistered property ag	under the National Parks and Wildlife Act a. Biobanking agreement (established b) or a Biodiversity Stewardship l.6. b. Wildlife Refuge agreement ing conservation agreements that Trust agreements under the getation plans made under the now- creements under the repealed Native	
Do the operations comply with standards, plans, policies? Criteria Potential impacts Proposed management controls Duration Application ranking What is the confidence in predicting	N/A Sensitive Land Impacts: Land subject to a 'conset 1974 and/or the Biodiversity Conservation Act and under the now repealed Threatened Species Conservation agreement established under the Biodiversity Conservation continue to have effect even where legislation now repealed Nature Conservation Trust Act 20 repealed Native Vegetation Act 2003 Revenue Repealed Native Vegetation Act 1997 N/A N/A	Justification for receivation agreement' 2016. This includes: onservation Act 1995 conservation Act 2016 Act 2016. c. Exist has been repealed: 001 Property ve gistered property ag	under the National Parks and Wildlife Act a. Biobanking agreement (established b) or a Biodiversity Stewardship l.6. b. Wildlife Refuge agreement ing conservation agreements that Trust agreements under the getation plans made under the now-	
Do the operations comply with standards, plans, policies? Criteria Potential impacts Proposed management controls Duration Application ranking	N/A Sensitive Land Impacts: Land subject to a 'conset 1974 and/or the Biodiversity Conservation Act and under the now repealed Threatened Species Coagreement established under the Biodiversity Conservation continue to have effect even where legislation now repealed Nature Conservation Trust Act 20 repealed Native Vegetation Act 2003 Reposed Native Vegetation Act 1997 N/A N/A N/A N/A	Justification for receivation agreement' 2016. This includes: onservation Act 1995 conservation Act 201 n Act 2016. c. Exist has been repealed: 001 Property ve gistered property ag	under the National Parks and Wildlife Act a. Biobanking agreement (established b) or a Biodiversity Stewardship l.6. b. Wildlife Refuge agreement ing conservation agreements that Trust agreements under the getation plans made under the now- creements under the repealed Native	
Do the operations comply with standards, plans, policies? Criteria Potential impacts Proposed management controls Duration Application ranking What is the confidence in predicting	N/A Sensitive Land Impacts: Land subject to a 'conset 1974 and/or the Biodiversity Conservation Act and under the now repealed Threatened Species Coagreement established under the Biodiversity Conservation continue to have effect even where legislation now repealed Nature Conservation Trust Act 20 repealed Native Vegetation Act 2003 Reposed Native Vegetation Act 1997 N/A N/A N/A N/A	Justification for receivation agreement' 2016. This includes: onservation Act 1995 conservation Act 2016 Act 2016. c. Exist has been repealed: 001 Property ve gistered property ag	under the National Parks and Wildlife Act a. Biobanking agreement (established b) or a Biodiversity Stewardship l.6. b. Wildlife Refuge agreement ing conservation agreements that Trust agreements under the getation plans made under the now- creements under the repealed Native	
Do the operations comply with standards, plans, policies? Criteria Potential impacts Proposed management controls Duration Application ranking What is the confidence in predicting	N/A Sensitive Land Impacts: Land subject to a 'conset 1974 and/or the Biodiversity Conservation Act and under the now repealed Threatened Species Coagreement established under the Biodiversity Conservation continue to have effect even where legislation now repealed Nature Conservation Trust Act 20 repealed Native Vegetation Act 2003 Reposed Native Vegetation Act 1997 N/A N/A N/A N/A	Justification for receivation agreement' 2016. This includes: 2016. This includes: 2016. This includes: 2016. C. Exist 2016. C. Exist 2016. C. Exist 2016. Property ve 2017. Property ve 2018. Are further 2019. Studies 2019. The further 2019. The f	under the National Parks and Wildlife Act a. Biobanking agreement (established b) or a Biodiversity Stewardship l.6. b. Wildlife Refuge agreement ing conservation agreements that Trust agreements under the getation plans made under the now- creements under the repealed Native	
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Potential impacts Proposed management controls Duration Application ranking What is the confidence in predicting impacts?	N/A Sensitive Land Impacts: Land subject to a 'conset 1974 and/or the Biodiversity Conservation Act and under the now repealed Threatened Species Coagreement established under the Biodiversity Conservation continue to have effect even where legislation now repealed Nature Conservation Trust Act 20 repealed Native Vegetation Act 2003 Revegetation Conservation Act 1997 N/A N/A N/A N/A N/A N/A	Justification for receivation agreement' 2016. This includes: 2016. This includes: 2016. This includes: 2016. C. Exist 2016. C. Exist 2016. C. Exist 2016. Property ve 2017. Property ve 2018. Are further 2019. Studies 2019. The further 2019. Studies 2019. The further 2019. The furth	under the National Parks and Wildlife Act a. Biobanking agreement (established b) or a Biodiversity Stewardship l.6. b. Wildlife Refuge agreement ing conservation agreements that Trust agreements under the getation plans made under the now- creements under the repealed Native	
Do the operations comply with standards, plans, policies? Criteria Potential impacts Proposed management controls Duration Application ranking What is the confidence in predicting impacts? How resilient is the environment to	N/A Sensitive Land Impacts: Land subject to a 'conset 1974 and/or the Biodiversity Conservation Act and under the now repealed Threatened Species Coagreement established under the Biodiversity Conservation continue to have effect even where legislation now repealed Nature Conservation Trust Act 20 repealed Native Vegetation Act 2003 Reposed Native Vegetation Act 1997 N/A N/A N/A N/A	Justification for receivation agreement' 2016. This includes: 2016. This includes: 2016. This includes: 2016. C. Exist 2016. C. Exist 2016. C. Exist 2016. Property ve 2017. Property ve 2018. Are further 2019. Studies 2019. The further 2019. Studies 2019. The further 2019. The furth	under the National Parks and Wildlife Act a. Biobanking agreement (established b) or a Biodiversity Stewardship l.6. b. Wildlife Refuge agreement ing conservation agreements that Trust agreements under the getation plans made under the now- creements under the repealed Native	
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Do the operations comply with standards, plans, policies? Criteria Potential impacts Proposed management controls Duration Application ranking What is the confidence in predicting impacts? How resilient is the environment to	N/A Sensitive Land Impacts: Land subject to a 'conset 1974 and/or the Biodiversity Conservation Act and under the now repealed Threatened Species Coagreement established under the Biodiversity Conservation continue to have effect even where legislation now repealed Nature Conservation Trust Act 20 repealed Native Vegetation Act 2003 Revegetation Conservation Act 1997 N/A N/A N/A N/A N/A N/A	Justification for receivation agreement' 2016. This includes: conservation Act 1995 conservation Act 2016 Act 2016. c. Exist has been repealed: 001 Property ve gistered property ag Are further studies required on impacts or mitigation? What is the level of public	under the National Parks and Wildlife Act a. Biobanking agreement (established b) or a Biodiversity Stewardship l.6. b. Wildlife Refuge agreement ing conservation agreements that Trust agreements under the getation plans made under the now- creements under the repealed Native	
Potential impacts Proposed management controls Duration Application ranking What is the confidence in predicting impacts? How resilient is the environment to cope with impacts?	N/A Sensitive Land Impacts: Land subject to a 'conset 1974 and/or the Biodiversity Conservation Act and under the now repealed Threatened Species Coagreement established under the Biodiversity Conservation continue to have effect even where legislation now repealed Nature Conservation Trust Act 20 repealed Native Vegetation Act 2003 Revegetation Conservation Act 1997 N/A N/A N/A N/A N/A N/A N/A	Justification for receivation agreement' 2016. This includes: onservation Act 1995 conservation Act 2016 Act 2016. c. Exist has been repealed: 001 Property ve gistered property ag Are further studies required on impacts or mitigation? What is the level of public concern?	under the National Parks and Wildlife Act a. Biobanking agreement (established b) or a Biodiversity Stewardship l.6. b. Wildlife Refuge agreement ing conservation agreements that Trust agreements under the getation plans made under the now- creements under the repealed Native N/A	
Do the operations comply with standards, plans, policies? Criteria Potential impacts Proposed management controls Duration Application ranking What is the confidence in predicting impacts? How resilient is the environment to	N/A Sensitive Land Impacts: Land subject to a 'conset 1974 and/or the Biodiversity Conservation Act and under the now repealed Threatened Species Coagreement established under the Biodiversity Conservation continue to have effect even where legislation now repealed Nature Conservation Trust Act 20 repealed Native Vegetation Act 2003 Revegetation Conservation Act 1997 N/A N/A N/A N/A N/A N/A	Justification for receivation agreement' 2016. This includes: 2016. This includes: 2016. This includes: 2016. C. Exist 2016. C	under the National Parks and Wildlife Act a. Biobanking agreement (established b) or a Biodiversity Stewardship l.6. b. Wildlife Refuge agreement ing conservation agreements that Trust agreements under the getation plans made under the now- creements under the repealed Native	
Potential impacts Proposed management controls Duration Application ranking What is the confidence in predicting impacts? How resilient is the environment to cope with impacts?	N/A Sensitive Land Impacts: Land subject to a 'conset 1974 and/or the Biodiversity Conservation Act and under the now repealed Threatened Species Coagreement established under the Biodiversity Conservation continue to have effect even where legislation now repealed Nature Conservation Trust Act 20 repealed Native Vegetation Act 2003 Revegetation Conservation Act 1997 N/A N/A N/A N/A N/A N/A N/A	Justification for receivation agreement' 2016. This includes: onservation Act 1995 conservation Act 2016 Act 2016. c. Exist has been repealed: 001 Property ve gistered property ag Are further studies required on impacts or mitigation? What is the level of public concern?	under the National Parks and Wildlife Act a. Biobanking agreement (established b) or a Biodiversity Stewardship l.6. b. Wildlife Refuge agreement ing conservation agreements that Trust agreements under the getation plans made under the now- creements under the repealed Native N/A	
Potential impacts Proposed management controls Duration Application ranking What is the confidence in predicting impacts? How resilient is the environment to cope with impacts?	N/A Sensitive Land Impacts: Land subject to a 'conset 1974 and/or the Biodiversity Conservation Act and under the now repealed Threatened Species Coagreement established under the Biodiversity Conservation continue to have effect even where legislation now repealed Nature Conservation Trust Act 20 repealed Native Vegetation Act 2003 Revegetation Conservation Act 1997 N/A N/A N/A N/A N/A N/A N/A	Justification for receivation agreement' 2016. This includes: 2016. This includes: 2016. This includes: 2016. C. Exist 2016. C	under the National Parks and Wildlife Act a. Biobanking agreement (established b) or a Biodiversity Stewardship l.6. b. Wildlife Refuge agreement ing conservation agreements that Trust agreements under the getation plans made under the now- creements under the repealed Native N/A	
Do the operations comply with standards, plans, policies? Criteria Potential impacts Proposed management controls Duration Application ranking What is the confidence in predicting impacts? How resilient is the environment to cope with impacts? Can the impacts be reversed?	N/A Sensitive Land Impacts: Land subject to a 'conset 1974 and/or the Biodiversity Conservation Act and under the now repealed Threatened Species Coagreement established under the Biodiversity Conservation continue to have effect even where legislation now repealed Nature Conservation Trust Act 20 repealed Native Vegetation Act 2003 Report N/A N/A N/A N/A N/A N/A N/A N/A	Justification for receivation agreement' 2016. This includes: 2016. This includes: 2016. This includes: 2016. C. Exist 2017. Property ve 2018. Property ve 2019. Propert	under the National Parks and Wildlife Act a. Biobanking agreement (established 5) or a Biodiversity Stewardship 16. b. Wildlife Refuge agreement ing conservation agreements under the getation plans made under the now- reements under the repealed Native N/A	
Do the operations comply with standards, plans, policies? Criteria Potential impacts Proposed management controls Duration Application ranking What is the confidence in predicting impacts? How resilient is the environment to cope with impacts? Can the impacts be reversed?	N/A Sensitive Land Impacts: Land subject to a 'conset 1974 and/or the Biodiversity Conservation Act and under the now repealed Threatened Species Coagreement established under the Biodiversity Conservation continue to have effect even where legislation now repealed Nature Conservation Trust Act 20 repealed Native Vegetation Act 2003 Reposed Native Vegetation Act 1997 N/A N/A N/A N/A N/A N/A N/A N/	Justification for receivation agreement' 2016. This includes: onservation Act 1995 conservation Act 2016 Act 2016. c. Exist has been repealed: 001 Property ve gistered property ag Are further studies required on impacts or mitigation? What is the level of public concern? Ranking of potential	under the National Parks and Wildlife Act a. Biobanking agreement (established 5) or a Biodiversity Stewardship 16. b. Wildlife Refuge agreement ing conservation agreements under the getation plans made under the now- reements under the repealed Native N/A	
Potential impacts Proposed management controls Duration Application ranking What is the confidence in predicting impacts? How resilient is the environment to cope with impacts? Can the impacts be reversed? Can the impacts be mitigated? Do the operations comply with	N/A Sensitive Land Impacts: Land subject to a 'conset 1974 and/or the Biodiversity Conservation Act and under the now repealed Threatened Species Coagreement established under the Biodiversity Conservation continue to have effect even where legislation now repealed Nature Conservation Trust Act 20 repealed Native Vegetation Act 2003 Report N/A N/A N/A N/A N/A N/A N/A N/A	Justification for receivation agreement' 2016. This includes: 2016. This includes: 2016. This includes: 2016. C. Exist 2017. Property ve 2018. Property ve 2019. Propert	under the National Parks and Wildlife Act a. Biobanking agreement (established 5) or a Biodiversity Stewardship 16. b. Wildlife Refuge agreement ing conservation agreements under the getation plans made under the now- reements under the repealed Native N/A	
Potential impacts Proposed management controls Duration Application ranking What is the confidence in predicting impacts? How resilient is the environment to cope with impacts? Can the impacts be mitigated?	N/A Sensitive Land Impacts: Land subject to a 'conset 1974 and/or the Biodiversity Conservation Act and under the now repealed Threatened Species Coagreement established under the Biodiversity Conservation continue to have effect even where legislation now repealed Nature Conservation Trust Act 20 repealed Native Vegetation Act 2003 Reposed Native Vegetation Act 1997 N/A N/A N/A N/A N/A N/A N/A N/	Justification for receivation agreement' 2016. This includes: 2016. This includes: 2016. This includes: 2016. C. Exist 2017. Property ve 2018. Property ve 2019. Propert	under the National Parks and Wildlife Act a. Biobanking agreement (established 5) or a Biodiversity Stewardship 16. b. Wildlife Refuge agreement ing conservation agreements under the getation plans made under the now- reements under the repealed Native N/A	
Potential impacts Proposed management controls Duration Application ranking What is the confidence in predicting impacts? How resilient is the environment to cope with impacts? Can the impacts be reversed? Can the operations comply with	N/A Sensitive Land Impacts: Land subject to a 'conset 1974 and/or the Biodiversity Conservation Act and under the now repealed Threatened Species Coagreement established under the Biodiversity Conservation continue to have effect even where legislation now repealed Nature Conservation Trust Act 20 repealed Native Vegetation Act 2003 Reposed Native Vegetation Act 1997 N/A N/A N/A N/A N/A N/A N/A N/	Justification for receivation agreement's 2016. This includes: onservation Act 1995 conservation Act 2016. c. Exist has been repealed: 001 Property vegistered property agreement and the property agreement and	under the National Parks and Wildlife Act a. Biobanking agreement (established 5) or a Biodiversity Stewardship 16. b. Wildlife Refuge agreement ing conservation agreements under the getation plans made under the now- reements under the repealed Native N/A N/A	
Potential impacts Proposed management controls Duration Application ranking What is the confidence in predicting impacts? How resilient is the environment to cope with impacts? Can the impacts be reversed? Can the impacts be mitigated? Do the operations comply with standards, plans, policies?	N/A Sensitive Land Impacts: Land subject to a 'conset 1974 and/or the Biodiversity Conservation Act and under the now repealed Threatened Species Coagreement established under the Biodiversity Conservation continue to have effect even where legislation now repealed Nature Conservation Trust Act 20 repealed Native Vegetation Act 2003 Regivered Registration Conservation Act 1997 N/A N/A N/A N/A N/A N/A N/A N/	Justification for receivation agreement's 2016. This includes: onservation Act 1995 conservation Act 2016. c. Exist has been repealed: 2017. Property vegistered property agreement agreem	under the National Parks and Wildlife Act a. Biobanking agreement (established 5) or a Biodiversity Stewardship 16. b. Wildlife Refuge agreement ing conservation agreements under the getation plans made under the now- reements under the repealed Native N/A N/A N/A Royanking Rischer Gestation Parks and Wildlife Act anking Rischer Gestation Parks and Wildlife Act anking Rischer Gestation Parks and Wildlife Act anking Rischer Gestation Parks and Wildlife Act and Biobanking agreement (established) N/A	
Potential impacts Proposed management controls Duration Application ranking What is the confidence in predicting impacts? How resilient is the environment to cope with impacts? Can the impacts be reversed? Can the impacts be mitigated? Do the operations comply with standards, plans, policies? Criteria	N/A Sensitive Land Impacts: Land subject to a 'conset 1974 and/or the Biodiversity Conservation Act and under the now repealed Threatened Species Coagreement established under the Biodiversity Cestablished under the Biodiversity Conservation continue to have effect even where legislation now repealed Nature Conservation Trust Act 20 repealed Native Vegetation Act 2003 Revegetation Conservation Act 1997 N/A N/A N/A N/A N/A N/A N/A N/	Justification for receivation agreement's 2016. This includes: onservation Act 1995 conservation Act 2016. c. Exist has been repealed: 2017. Property vegistered property agreement agreem	under the National Parks and Wildlife Act a. Biobanking agreement (established 5) or a Biodiversity Stewardship 16. b. Wildlife Refuge agreement ing conservation agreements under the getation plans made under the now- reements under the repealed Native N/A N/A N/A Royanking Rischer Gestation Parks and Wildlife Act anking Rischer Gestation Parks and Wildlife Act anking Rischer Gestation Parks and Wildlife Act anking Rischer Gestation Parks and Wildlife Act and Biobanking agreement (established) N/A	
Potential impacts Proposed management controls Duration Application ranking What is the confidence in predicting impacts? How resilient is the environment to cope with impacts? Can the impacts be reversed? Can the impacts be mitigated? Do the operations comply with standards, plans, policies? Criteria Potential impacts	N/A Sensitive Land Impacts: Land subject to a 'conset 1974 and/or the Biodiversity Conservation Act and under the now repealed Threatened Species Coagreement established under the Biodiversity Cestablished under the Biodiversity Conservation continue to have effect even where legislation now repealed Native Conservation Trust Act 20 repealed Native Vegetation Act 2003 Revegetation Conservation Act 1997 N/A N/A N/A N/A N/A N/A N/A N/	Justification for receivation agreement's 2016. This includes: onservation Act 1995 conservation Act 2016. c. Exist has been repealed: 2017. Property vegistered property agreement agreem	under the National Parks and Wildlife Act a. Biobanking agreement (established 5) or a Biodiversity Stewardship 16. b. Wildlife Refuge agreement ing conservation agreements under the getation plans made under the now- reements under the repealed Native N/A N/A N/A Royanking Rischer Gestation Parks and Wildlife Act anking Rischer Gestation Parks and Wildlife Act anking Rischer Gestation Parks and Wildlife Act anking Rischer Gestation Parks and Wildlife Act and Biobanking agreement (established) N/A	
Potential impacts Proposed management controls Duration Application ranking What is the confidence in predicting impacts? How resilient is the environment to cope with impacts? Can the impacts be reversed? Can the impacts be mitigated? Do the operations comply with standards, plans, policies? Criteria	N/A Sensitive Land Impacts: Land subject to a 'conset 1974 and/or the Biodiversity Conservation Act and under the now repealed Threatened Species Coagreement established under the Biodiversity Cestablished under the Biodiversity Conservation continue to have effect even where legislation now repealed Native Conservation Trust Act 20 repealed Native Vegetation Act 2003 Revegetation Conservation Act 1997 N/A N/A N/A N/A N/A N/A N/A N/	Justification for receivation agreement's 2016. This includes: onservation Act 1995 conservation Act 2016. c. Exist has been repealed: 2017. Property vegistered property agreement agreem	under the National Parks and Wildlife Act a. Biobanking agreement (established 5) or a Biodiversity Stewardship 16. b. Wildlife Refuge agreement ing conservation agreements under the getation plans made under the now- reements under the repealed Native N/A N/A N/A Royanking Rischer Gestation Parks and Wildlife Act anking Rischer Gestation Parks and Wildlife Act anking Rischer Gestation Parks and Wildlife Act anking Rischer Gestation Parks and Wildlife Act and Biobanking agreement (established) N/A	
Potential impacts Proposed management controls Duration Application ranking What is the confidence in predicting impacts? How resilient is the environment to cope with impacts? Can the impacts be reversed? Can the impacts be mitigated? Do the operations comply with standards, plans, policies? Criteria Potential impacts	N/A Sensitive Land Impacts: Land subject to a 'conset 1974 and/or the Biodiversity Conservation Act and under the now repealed Threatened Species Coagreement established under the Biodiversity Cestablished under the Biodiversity Conservation continue to have effect even where legislation now repealed Native Conservation Trust Act 20 repealed Native Vegetation Act 2003 Revegetation Conservation Act 1997 N/A N/A N/A N/A N/A N/A N/A N/	Justification for receivation agreement's 2016. This includes: onservation Act 1995 conservation Act 2016. c. Exist has been repealed: 2017. Property vegistered property agreement agreem	under the National Parks and Wildlife Act a. Biobanking agreement (established 5) or a Biodiversity Stewardship 16. b. Wildlife Refuge agreement ing conservation agreements under the getation plans made under the now- reements under the repealed Native N/A N/A N/A Royanking Rischer Gestation Parks and Wildlife Act anking Rischer Gestation Parks and Wildlife Act anking Rischer Gestation Parks and Wildlife Act anking Rischer Gestation Parks and Wildlife Act and Biobanking agreement (established) N/A	

What is the confidence in predicting	N/A	Are further	N/A		
impacts?		studies			
		required on			
		impacts or			
		mitigation?			
How resilient is the environment to	N/A	What is the			
cope with impacts?		level of public			
		concern?			
Can the impacts be reversed?	N/A	Ranking of	N/A		
		potential			
		significance			
Can the impacts be mitigated?	N/A	Justification for ranking			
Do the operations comply with	N/A				
standards, plans, policies?	,				
Criteria	Sensitive Land Impacts: Fishing grounds and commercial fish breeding or nursery areas.				
Potential impacts	The Activities would not traverse any areas reserved for conservation purposes. Therefore, the campaign				
	would not degrade any area reserved for conservation purposes. Therefore, the campaign				
Proposed management controls	Natural resources are unlikely to be impacted due to the short-term, progressive and mobile nature of the				
Troposed management controls	Activities, and the regeneration/rehabilitation of				
	selection process has included avoidance of eco				
	considered and would continue to be considered	_	=		
	considered and would continue to be considered	d iii tile site selectio	on process.		
	Adinimisation of vocatation clearing w	high would be restri	stad to ground source small shrubs and		
	_ =		cted to ground cover, small shrubs and		
	regenerating trees. Any material from vegetation	_			
	1		r the safe movement or operation of the		
	drill rig. Each branch requiring removal would b	•			
	evidence of recent habitation be present, the b				
	an ecologist or suitably qualified professional re		<u> </u>		
	• For any sites that are proximal to drainage lines, selecting a location that involves the least potent				
	impacts to the drainage line.	cts to the drainage line.			
	Any incidental groundwater produced would be utilised in the recirculation of drilling fluids and confined to above ground tanks. Recirculated water and spoil from drilling activities would be managed and disposed of				
	as per Exploration Code of Practice: Rehabilitation by a licenced waste removal contractor.				
Duration	approximately 8 weeks				
Application ranking	Negligible				
What is the confidence in predicting	High	Are further	No		
impacts?		studies			
		required on			
		impacts or			
		mitigation?			
How resilient is the environment to	Medium Resilience	What is the	Uncertain		
cope with impacts?	Wiedram Resilience		Oncertain		
cope with impacts.		level of nublic			
		level of public			
Con the immediate to accommed	Ver	concern?	Law		
Can the impacts be reversed?	Yes	concern? Ranking of	Low		
Can the impacts be reversed?	Yes	concern? Ranking of potential	Low		
		concern? Ranking of potential significance			
Can the impacts be mitigated?	Fully	concern? Ranking of potential			
Can the impacts be mitigated? Do the operations comply with		concern? Ranking of potential significance			
Can the impacts be mitigated? Do the operations comply with standards, plans, policies?	Fully Yes	concern? Ranking of potential significance Justification for ra	anking		
Can the impacts be mitigated? Do the operations comply with	Fully Yes Sensitive Land Impacts: Impacts on other sensi	concern? Ranking of potential significance Justification for ra	anking a. Land within a state forest set aside		
Can the impacts be mitigated? Do the operations comply with standards, plans, policies?	Fully Yes	concern? Ranking of potential significance Justification for ra	anking a. Land within a state forest set aside		
Can the impacts be mitigated? Do the operations comply with standards, plans, policies?	Fully Yes Sensitive Land Impacts: Impacts on other sensi	concern? Ranking of potential significance Justification for ra	anking a. Land within a state forest set aside flora reserves and special management		
Can the impacts be mitigated? Do the operations comply with standards, plans, policies?	Fully Yes Sensitive Land Impacts: Impacts on other sensitive under the Forestry Act 2012 for conservation values.	concern? Ranking of potential significance Justification for rative lands including: alues. This includes for protection areas	anking a. Land within a state forest set aside flora reserves and special management - land declared to be a 'controlled area' or		
Can the impacts be mitigated? Do the operations comply with standards, plans, policies?	Fully Yes Sensitive Land Impacts: Impacts on other sensity under the Forestry Act 2012 for conservation valued other) zones. b. Drinking water catchments.	concern? Ranking of potential significance Justification for rative lands including: alues. This includes for protection areas or a 'special area' u	anking a. Land within a state forest set aside flora reserves and special management land declared to be a 'controlled area' or under the Water Management Act 2000 or		
Can the impacts be mitigated? Do the operations comply with standards, plans, policies? Criteria	Fully Yes Sensitive Land Impacts: Impacts on other sensitive under the Forestry Act 2012 for conservation valued other) zones. b. Drinking water catchmental special area' under the Water NSW Act 2014,	concern? Ranking of potential significance Justification for rative lands including: alues. This includes for protection areas or a 'special area' udefined under the N	anking a. Land within a state forest set aside flora reserves and special management land declared to be a 'controlled area' or under the Water Management Act 2000 or Water Management Act 2000.		
Can the impacts be mitigated? Do the operations comply with standards, plans, policies?	Fully Yes Sensitive Land Impacts: Impacts on other sensity under the Forestry Act 2012 for conservation volume (and other) zones. b. Drinking water catchmental 'special area' under the Water NSW Act 2014, Hunter Water Act 1991. c. Waterfront land as	concern? Ranking of potential significance Justification for rative lands including: alues. This includes for protection areasor a 'special area' undefined under the Nerved for conservation.	anking a. Land within a state forest set aside flora reserves and special management land declared to be a 'controlled area' or under the Water Management Act 2000 or Water Management Act 2000.		

Proposed management controls	Natural resources are unlikely to be impacted due to the short-term, progressive and mobile nature of the Activities, and the regeneration/rehabilitation of the disturbance areas to pre disturbance land use. The site selection process has included avoidance of ecological exclusion areas. The following has also been considered and would continue to be considered in the site selection process: • Minimisation of vegetation clearing, which would be restricted to ground cover, small shrubs and regenerating trees. Any material from vegetation clearing would be stockpiled and kept for rehabilitation. • Occasional tree branches may require removal to allow for the safe movement or operation of the drill rig. Each branch requiring removal would be inspected for evidence of recent habitation. Should evidence of recent habitation be present, the branch would not be removed without obtaining advice from an ecologist or suitably qualified professional regarding impact minimisation strategies. • For any sites that are proximal to drainage lines, selecting a location that involves the least potential impacts to the drainage line. Any incidental groundwater produced would be utilised in the recirculation of drilling fluids and confined to above ground tanks. Recirculated water and spoil from drilling activities would be managed and disposed of as per Exploration Code of Practice: Rehabilitation by a licenced waste removal contractor.			
Duration	approximately 8 weeks			
Application ranking	Negligible			
What is the confidence in predicting	High	Are further	No	
impacts?		studies		
		required on		
		impacts or		
		mitigation?		
How resilient is the environment to	Medium Resilience	What is the	Uncertain	
cope with impacts?		level of public		
		concern?		
Can the impacts be reversed?	Yes	Ranking of	Low	
		potential		
		significance		
Can the impacts be mitigated?	Fully	Justification for ra	anking	
Do the operations comply with	Yes			
standards, plans, policies?				
Criteria	Sensitive Land Impacts: Impacts on land reserve 1989/Crown Lands Management Act 2016 for protection purposes.			
Potential impacts	N/A			
Proposed management controls	N/A			
Duration	N/A			
Application ranking	N/A			
What is the confidence in predicting	N/A	Are further	N/A	
impacts?		studies		
		required on		
		impacts or		
		mitigation?		
How resilient is the environment to	N/A	What is the		
cope with impacts?		level of public		
		concern?	21/2	
Can the impacts be reversed?	N/A	Ranking of	N/A	
		potential		
0 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	21/0	significance	- 11	
Can the impacts be mitigated?	N/A	Justification for ra	anking	
Do the operations comply with	N/A			
standards, plans, policies? Criteria	Consitius Lond Inspector Inspector on lond identifi		de alegand e cuil de successe a una considerable a	
Potential impacts	Sensitive Land Impacts: Impacts on land identific Wilderness Act 1987. N/A	ed as wilderliess of	declared a wilderness area under the	
Proposed management controls	N/A			
Duration	N/A			
Application ranking	N/A			
What is the confidence in predicting	N/A	Are further	N/A	
impacts?	1971	studies	**/*	
impacts:		required on		
		impacts or		
		mitigation?		
How resilient is the environment to	N/A	What is the		
cope with impacts?	19/75	level of public		
cope with impacts:		concern?		

Can the impacts be reversed?	N/A	Ranking of potential significance	N/A
0	21/2		
Can the impacts be mitigated?	N/A	Justification for r	anking
Do the operations comply with standards, plans, policies?	N/A		
Criteria	Sensitive Lands: Impacts on wetlands of interna on Wetlands and those designated as a nationa of Australia.	_	
Potential impacts	N/A		
Proposed management controls	N/A		
Duration	N/A		
Application ranking	N/A		
What is the confidence in predicting	N/A	Are further	N/A
	14/7	studies	N/A
impacts?			
		required on	
		impacts or	
		mitigation?	
How resilient is the environment to	N/A	What is the	
cope with impacts?	.4/	level of public	
		concern?	
Can the impacts he reversed?	N/A	<u> </u>	N/A
Can the impacts be reversed?	IV/A	Ranking of	IN/ A
		potential	
		significance	
Can the impacts be mitigated?	N/A	Justification for r	anking
Do the operations comply with	N/A		-
standards, plans, policies?	.4/		
Criteria Standards, plans, policies.	Sensitive Land Impacts: Impacts on land identifi	l iod in an anvironmo	ntal planning instrument as being of
Criteria	· · ·		
	biodiversity / conservation significance or zoned for environmental conservation, protection and/or		
	management. Includes Coastal Wetlands and Li	ttoral rainforests ur	ider State Environmental Planning Policy
	(Resilience and Hazards) 2021.		
Potential impacts	N/A		
Proposed management controls	N/A		
Duration	N/A		
	· ·		
Application ranking	N/A	T	T .
What is the confidence in predicting	N/A	Are further	N/A
impacts?		studies	
		required on	
		impacts or	
		mitigation?	
How resilient is the environment to	N/A	What is the	
	N/A		
cope with impacts?		level of public	
		concern?	
Can the impacts be reversed?	N/A	Ranking of	N/A
		potential	
		significance	
Can the impacts be mitigated?	N/A	Justification for r	anking
Do the operations comply with	N/A	3.55	
	IV/A		
standards, plans, policies?		1	
Criteria	Sensitive Land Impacts: Impacts on Aboriginal h	0 1	ŏ , , , , , , , , , , , , , , , , , , ,
	under the National Parks and Wildlife Act 1974	 b. Areas of Aborig 	inal cultural significance identified in an
	environmental planning instrument.		
Potential impacts	N/A		
Proposed management controls	N/A		
	N/A		
Duration			
Application ranking	N/A	1	T .
What is the confidence in predicting	N/A	Are further	N/A
impacts?		studies	
•		required on	
		impacts or	
		1	
Hammadita of tables of the second	N/A	mitigation?	
How resilient is the environment to	N/A	What is the	
cope with impacts?		level of public	
		concern?	
Can the impacts be reversed?	N/A	Ranking of	N/A
	<u> </u>	potential	,
		significance	
Occasional de la companya della companya de la companya della comp			- 111
Can the impacts be mitigated?	N/A	Justification for r	anking

Do the operations comply with			
standards, plans, policies?	N/A		
Criteria	Sensitive Land Impacts: Impacts on heritage protection areas (historic or natural): a. Nationally and		
	internationally recognised heritage sites or area Commonwealth Heritage List) b. Items listed of		
	identified in an environmental planning instrum		c. Heritage items and conservation areas
Detential imposts		ient	
Potential impacts	N/A		
Proposed management controls	N/A		
Duration	N/A		
Application ranking	N/A		
What is the confidence in predicting	N/A	Are further	N/A
impacts?		studies	
		required on	
		impacts or	
		mitigation?	
How resilient is the environment to	N/A	What is the	
cope with impacts?		level of public	
		concern?	
Can the impacts be reversed?	N/A	Ranking of	N/A
		potential	
		significance	
Can the impacts be mitigated?	N/A	Justification for r	anking
Do the operations comply with	N/A		
standards, plans, policies?			
Criteria	Sensitive Land Impacts: Impacts on community		r the Local Government Act 1993 (for
	which a plan of management has been prepare	d).	
Potential impacts	N/A		
Proposed management controls	N/A		
Duration	N/A		
Application ranking	N/A		
What is the confidence in predicting	N/A	Are further	N/A
impacts?	,	studies	,
P		required on	
		impacts or	
		mitigation?	
How resilient is the environment to	N/A	What is the	
cope with impacts?	,	level of public	
Topic in process		concern?	
	N/A	Ranking of	N/A
Can the impacts be reversed?		potential	.,
Can the impacts be reversed?	N/A	Dotellial	
Can the impacts be reversed?	N/A		
		significance	anking
Can the impacts be mitigated?	N/A		anking
Can the impacts be mitigated? Do the operations comply with		significance	anking
Can the impacts be mitigated?	N/A N/A	significance Justification for r	anking
Can the impacts be mitigated? Do the operations comply with standards, plans, policies? Criteria	N/A N/A Sensitive Land Impacts: Impacts on bushfire pro	significance Justification for r	
Can the impacts be mitigated? Do the operations comply with standards, plans, policies? Criteria	N/A N/A Sensitive Land Impacts: Impacts on bushfire pro The Activities would not traverse any areas rese	significance Justification for r one areas. erved for conservati	
Can the impacts be mitigated? Do the operations comply with standards, plans, policies? Criteria Potential impacts	N/A N/A Sensitive Land Impacts: Impacts on bushfire pro The Activities would not traverse any areas rese would not degrade any area reserved for conse	significance Justification for r one areas. erved for conservati rvation purposes.	on purposes. Therefore, the campaign
Can the impacts be mitigated? Do the operations comply with standards, plans, policies? Criteria Potential impacts	N/A N/A Sensitive Land Impacts: Impacts on bushfire pro The Activities would not traverse any areas rese would not degrade any area reserved for conse Natural resources are unlikely to be impacted d	significance Justification for r one areas. erved for conservativation purposes. ue to the short-terr	on purposes. Therefore, the campaign n, progressive and mobile nature of the
Can the impacts be mitigated? Do the operations comply with standards, plans, policies? Criteria Potential impacts	N/A N/A Sensitive Land Impacts: Impacts on bushfire pro The Activities would not traverse any areas rese would not degrade any area reserved for conse Natural resources are unlikely to be impacted d Activities, and the regeneration/rehabilitation of	significance Justification for r one areas. erved for conservati rvation purposes. ue to the short-terr of the disturbance a	on purposes. Therefore, the campaign n, progressive and mobile nature of the reas to pre disturbance land use. The site
Can the impacts be mitigated? Do the operations comply with standards, plans, policies? Criteria Potential impacts	N/A N/A Sensitive Land Impacts: Impacts on bushfire pro The Activities would not traverse any areas rese would not degrade any area reserved for conse Natural resources are unlikely to be impacted d Activities, and the regeneration/rehabilitation of selection process has included avoidance of eco	significance Justification for r one areas. erved for conservati rvation purposes. ue to the short-terr of the disturbance a ological exclusion ar	on purposes. Therefore, the campaign n, progressive and mobile nature of the reas to pre disturbance land use. The site eas. The following has also been
Can the impacts be mitigated? Do the operations comply with standards, plans, policies? Criteria Potential impacts	N/A N/A Sensitive Land Impacts: Impacts on bushfire pro The Activities would not traverse any areas rese would not degrade any area reserved for conse Natural resources are unlikely to be impacted d Activities, and the regeneration/rehabilitation of	significance Justification for r one areas. erved for conservati rvation purposes. ue to the short-terr of the disturbance a ological exclusion ar	on purposes. Therefore, the campaign n, progressive and mobile nature of the reas to pre disturbance land use. The site eas. The following has also been
Can the impacts be mitigated? Do the operations comply with standards, plans, policies? Criteria Potential impacts	N/A N/A Sensitive Land Impacts: Impacts on bushfire pro The Activities would not traverse any areas rese would not degrade any area reserved for conse Natural resources are unlikely to be impacted d Activities, and the regeneration/rehabilitation of selection process has included avoidance of eco	significance Justification for r one areas. erved for conservati rvation purposes. ue to the short-terr of the disturbance a ological exclusion ar ed in the site selection	on purposes. Therefore, the campaign n, progressive and mobile nature of the reas to pre disturbance land use. The site eas. The following has also been on process:
Can the impacts be mitigated? Do the operations comply with standards, plans, policies? Criteria Potential impacts	N/A N/A Sensitive Land Impacts: Impacts on bushfire pro The Activities would not traverse any areas rese would not degrade any area reserved for conse Natural resources are unlikely to be impacted d Activities, and the regeneration/rehabilitation of selection process has included avoidance of eco considered and would continue to be considere Minimisation of vegetation clearing, w	significance Justification for r one areas. erved for conservati rvation purposes. ue to the short-terr of the disturbance a ological exclusion ar ed in the site selection	on purposes. Therefore, the campaign n, progressive and mobile nature of the reas to pre disturbance land use. The site eas. The following has also been on process: icted to ground cover, small shrubs and
Can the impacts be mitigated? Do the operations comply with standards, plans, policies? Criteria Potential impacts	N/A N/A Sensitive Land Impacts: Impacts on bushfire pro The Activities would not traverse any areas rese would not degrade any area reserved for conse Natural resources are unlikely to be impacted d Activities, and the regeneration/rehabilitation of selection process has included avoidance of eco considered and would continue to be considere Minimisation of vegetation clearing, w regenerating trees. Any material from vegetation	significance Justification for r one areas. erved for conservati rvation purposes. ue to the short-terr of the disturbance a ological exclusion ar ed in the site selection hich would be restricted to clearing would be	on purposes. Therefore, the campaign n, progressive and mobile nature of the reas to pre disturbance land use. The site eas. The following has also been on process: icted to ground cover, small shrubs and e stockpiled and kept for rehabilitation.
Can the impacts be mitigated? Do the operations comply with standards, plans, policies? Criteria Potential impacts	N/A N/A Sensitive Land Impacts: Impacts on bushfire pro The Activities would not traverse any areas rese would not degrade any area reserved for conse Natural resources are unlikely to be impacted d Activities, and the regeneration/rehabilitation of selection process has included avoidance of eco considered and would continue to be considere Minimisation of vegetation clearing, w regenerating trees. Any material from vegetation Occasional tree branches may require	significance Justification for r one areas. erved for conservati rvation purposes. ue to the short-terr of the disturbance a ological exclusion ar ed in the site selection hich would be restricted to clearing would be removal to allow fo	on purposes. Therefore, the campaign m, progressive and mobile nature of the reas to pre disturbance land use. The site eas. The following has also been on process: icted to ground cover, small shrubs and e stockpiled and kept for rehabilitation. If the safe movement or operation of the
Can the impacts be mitigated? Do the operations comply with standards, plans, policies? Criteria Potential impacts	N/A N/A Sensitive Land Impacts: Impacts on bushfire pro The Activities would not traverse any areas rese would not degrade any area reserved for conse Natural resources are unlikely to be impacted d Activities, and the regeneration/rehabilitation of selection process has included avoidance of ecc considered and would continue to be considered Minimisation of vegetation clearing, w regenerating trees. Any material from vegetation Occasional tree branches may require drill rig. Each branch requiring removal would b	significance Justification for r one areas. erved for conservati rvation purposes. ue to the short-terr of the disturbance a clogical exclusion ar ed in the site selection hich would be restricted to clearing would be removal to allow for ee inspected for evice	on purposes. Therefore, the campaign m, progressive and mobile nature of the reas to pre disturbance land use. The site eas. The following has also been on process: icted to ground cover, small shrubs and e stockpiled and kept for rehabilitation. In the safe movement or operation of the lence of recent habitation. Should
Can the impacts be mitigated? Do the operations comply with standards, plans, policies? Criteria	N/A N/A Sensitive Land Impacts: Impacts on bushfire pro The Activities would not traverse any areas rese would not degrade any area reserved for conse Natural resources are unlikely to be impacted d Activities, and the regeneration/rehabilitation of selection process has included avoidance of ecc considered and would continue to be considered Minimisation of vegetation clearing, w regenerating trees. Any material from vegetation Occasional tree branches may require d drill rig. Each branch requiring removal would b evidence of recent habitation be present, the b	significance Justification for r one areas. erved for conservati rvation purposes. ue to the short-terr of the disturbance a clogical exclusion ar ed in the site selection hich would be restricted for clearing would be removal to allow for e inspected for evic ranch would not be	on purposes. Therefore, the campaign m, progressive and mobile nature of the reas to pre disturbance land use. The site eas. The following has also been on process: icted to ground cover, small shrubs and e stockpiled and kept for rehabilitation. In the safe movement or operation of the lence of recent habitation. Should removed without obtaining advice from
Can the impacts be mitigated? Do the operations comply with standards, plans, policies? Criteria Potential impacts	N/A N/A Sensitive Land Impacts: Impacts on bushfire pro The Activities would not traverse any areas rese would not degrade any area reserved for conse Natural resources are unlikely to be impacted d Activities, and the regeneration/rehabilitation of selection process has included avoidance of ecc considered and would continue to be considered Minimisation of vegetation clearing, w regenerating trees. Any material from vegetation Occasional tree branches may require drill rig. Each branch requiring removal would b evidence of recent habitation be present, the b an ecologist or suitably qualified professional re-	significance Justification for r one areas. erved for conservati rvation purposes. ue to the short-terr of the disturbance a clogical exclusion ar ed in the site selection hich would be restricted for evice area of the site selection on clearing would be removal to allow for the inspected for evice area would not be granding impact min	on purposes. Therefore, the campaign m, progressive and mobile nature of the reas to pre disturbance land use. The site eas. The following has also been on process: icted to ground cover, small shrubs and e stockpiled and kept for rehabilitation. In the safe movement or operation of the lence of recent habitation. Should removed without obtaining advice from himisation strategies.
Can the impacts be mitigated? Do the operations comply with standards, plans, policies? Criteria Potential impacts	N/A N/A N/A Sensitive Land Impacts: Impacts on bushfire pro The Activities would not traverse any areas rese would not degrade any area reserved for conse Natural resources are unlikely to be impacted d Activities, and the regeneration/rehabilitation of selection process has included avoidance of ecc considered and would continue to be considered Minimisation of vegetation clearing, w regenerating trees. Any material from vegetation Occasional tree branches may require drill rig. Each branch requiring removal would be evidence of recent habitation be present, the b an ecologist or suitably qualified professional re For any sites that are proximal to drain	significance Justification for r one areas. erved for conservati rvation purposes. ue to the short-terr of the disturbance a clogical exclusion ar ed in the site selection hich would be restricted for evice area of the site selection on clearing would be removal to allow for the inspected for evice area would not be granding impact min	on purposes. Therefore, the campaign m, progressive and mobile nature of the reas to pre disturbance land use. The site eas. The following has also been on process: icted to ground cover, small shrubs and e stockpiled and kept for rehabilitation. In the safe movement or operation of the lence of recent habitation. Should removed without obtaining advice from
Can the impacts be mitigated? Do the operations comply with standards, plans, policies? Criteria Potential impacts	N/A N/A Sensitive Land Impacts: Impacts on bushfire pro The Activities would not traverse any areas rese would not degrade any area reserved for conse Natural resources are unlikely to be impacted d Activities, and the regeneration/rehabilitation of selection process has included avoidance of ecc considered and would continue to be considered Minimisation of vegetation clearing, w regenerating trees. Any material from vegetation Occasional tree branches may require drill rig. Each branch requiring removal would b evidence of recent habitation be present, the b an ecologist or suitably qualified professional re-	significance Justification for r one areas. erved for conservati rvation purposes. ue to the short-terr of the disturbance a clogical exclusion ar ed in the site selection hich would be restricted for evice area of the site selection on clearing would be removal to allow for the inspected for evice area would not be granding impact min	on purposes. Therefore, the campaign m, progressive and mobile nature of the reas to pre disturbance land use. The site eas. The following has also been on process: icted to ground cover, small shrubs and e stockpiled and kept for rehabilitation. In the safe movement or operation of the lence of recent habitation. Should removed without obtaining advice from himisation strategies.
Can the impacts be mitigated? Do the operations comply with standards, plans, policies? Criteria Potential impacts	N/A N/A N/A Sensitive Land Impacts: Impacts on bushfire pro The Activities would not traverse any areas rese would not degrade any area reserved for conse Natural resources are unlikely to be impacted d Activities, and the regeneration/rehabilitation of selection process has included avoidance of ecc considered and would continue to be considered Minimisation of vegetation clearing, w regenerating trees. Any material from vegetation Occasional tree branches may require drill rig. Each branch requiring removal would be evidence of recent habitation be present, the b an ecologist or suitably qualified professional re For any sites that are proximal to drain	significance Justification for r one areas. erved for conservati rvation purposes. ue to the short-terr of the disturbance a blogical exclusion ar ed in the site selection hich would be restricted to allow for ermoval to allow for e inspected for evic ranch would not be egarding impact min lage lines, selecting	on purposes. Therefore, the campaign m, progressive and mobile nature of the reas to pre disturbance land use. The site eas. The following has also been on process: icted to ground cover, small shrubs and e stockpiled and kept for rehabilitation. In the safe movement or operation of the lence of recent habitation. Should removed without obtaining advice from himisation strategies. a location that involves the least potentia
Can the impacts be mitigated? Do the operations comply with standards, plans, policies? Criteria Potential impacts	N/A N/A Sensitive Land Impacts: Impacts on bushfire pro The Activities would not traverse any areas rese would not degrade any area reserved for conse Natural resources are unlikely to be impacted d Activities, and the regeneration/rehabilitation of selection process has included avoidance of ecc considered and would continue to be considered Minimisation of vegetation clearing, w regenerating trees. Any material from vegetation Occasional tree branches may require drill rig. Each branch requiring removal would be evidence of recent habitation be present, the b an ecologist or suitably qualified professional re For any sites that are proximal to drain impacts to the drainage line.	significance Justification for r one areas. erved for conservati rvation purposes. ue to the short-terr of the disturbance a blogical exclusion ar ed in the site selection hich would be restri on clearing would be removal to allow fo ee inspected for evic ranch would not be egarding impact min hage lines, selecting	on purposes. Therefore, the campaign m, progressive and mobile nature of the reas to pre disturbance land use. The site eas. The following has also been on process: icted to ground cover, small shrubs and e stockpiled and kept for rehabilitation. In the safe movement or operation of the lence of recent habitation. Should removed without obtaining advice from himisation strategies. In location that involves the least potential
Can the impacts be mitigated? Do the operations comply with standards, plans, policies? Criteria Potential impacts	N/A N/A Sensitive Land Impacts: Impacts on bushfire pro The Activities would not traverse any areas rese would not degrade any area reserved for conse Natural resources are unlikely to be impacted d Activities, and the regeneration/rehabilitation of selection process has included avoidance of ecc considered and would continue to be considered Minimisation of vegetation clearing, w regenerating trees. Any material from vegetatio Occasional tree branches may require drill rig. Each branch requiring removal would b evidence of recent habitation be present, the b an ecologist or suitably qualified professional re For any sites that are proximal to drain impacts to the drainage line. Any incidental groundwater produced would be	significance Justification for r one areas. erved for conservati rvation purposes. ue to the short-terr of the disturbance a blogical exclusion ar ed in the site selection hich would be restri on clearing would be removal to allow fo e inspected for evic ranch would not be egarding impact min lage lines, selecting e utilised in the recip oil from drilling activ	on purposes. Therefore, the campaign m, progressive and mobile nature of the reas to pre disturbance land use. The site eas. The following has also been on process: icted to ground cover, small shrubs and e stockpiled and kept for rehabilitation. In the safe movement or operation of the lence of recent habitation. Should removed without obtaining advice from himisation strategies. In location that involves the least potential reculation of drilling fluids and confined to wities would be managed and disposed of
Can the impacts be mitigated? Do the operations comply with standards, plans, policies? Criteria Potential impacts	N/A N/A Sensitive Land Impacts: Impacts on bushfire pro The Activities would not traverse any areas rese would not degrade any area reserved for conse Natural resources are unlikely to be impacted d Activities, and the regeneration/rehabilitation of selection process has included avoidance of ecc considered and would continue to be considered Minimisation of vegetation clearing, w regenerating trees. Any material from vegetatio Cocasional tree branches may require drill rig. Each branch requiring removal would b evidence of recent habitation be present, the b an ecologist or suitably qualified professional re For any sites that are proximal to drain impacts to the drainage line. Any incidental groundwater produced would be above ground tanks. Recirculated water and spec	significance Justification for r one areas. erved for conservati rvation purposes. ue to the short-terr of the disturbance a blogical exclusion ar ed in the site selection hich would be restri on clearing would be removal to allow fo e inspected for evic ranch would not be egarding impact min lage lines, selecting e utilised in the recip oil from drilling activ	on purposes. Therefore, the campaign m, progressive and mobile nature of the reas to pre disturbance land use. The site eas. The following has also been on process: icted to ground cover, small shrubs and e stockpiled and kept for rehabilitation. In the safe movement or operation of the lence of recent habitation. Should removed without obtaining advice from himisation strategies. In location that involves the least potential reculation of drilling fluids and confined to wities would be managed and disposed of

What is the confidence in predicting	High	Are further	No
impacts?		studies	
		required on	
		impacts or	
		mitigation?	
How resilient is the environment to	Medium Resilience	What is the	Uncertain
cope with impacts?		level of public	
On the language have a seed 2	W	concern?	1.
Can the impacts be reversed?	Yes	Ranking of	Low
		potential significance	
Can the impacts be mitigated?	Fully	Justification for ra	 anking
Do the operations comply with	Yes	Justilication for te	alikilig
standards, plans, policies?	165		
Criteria	Social Impacts: Any impacts which result in a ch	I ange in the demogr	aphic structure of the community.
	including changes to workforce or industry structure		· ·
	community resources (eg community facilities,		
Potential impacts	It is estimated that up to 7 personnel (contracto		
	one time. This small workforce presents minima	•	
	way, the Activities would not present any signifi		•
	requirements, remove significant economic acti	·	
	Activities, or change the demographic structure	•	
Proposed management controls	Given the limited workforce required to underta		
-	proposed entirely on Whitehaven-owned land,		
	proposed.		
Duration	approximately 8 weeks		
Application ranking	Negligible		
What is the confidence in predicting	High	Are further	No
impacts?		studies	
•		required on	
		impacts or	
		mitigation?	
How resilient is the environment to	Medium Resilience	What is the	Uncertain
cope with impacts?		level of public	
		concern?	
Can the impacts be reversed?	Yes	Ranking of	Low
		potential	
		significance	
Can the impacts be mitigated?	Fully	Justification for ra	anking
Do the operations comply with	Yes		
standards, plans, policies?			
Criteria	Social Impacts: Any environmental impact that		ial change or disruption to the community
	(including loss of facilities or loss of community		
Potential impacts	The Activities would occur entirely on Whitehav		
	environmental impact that would result in subs	_	
	facilities, reduced links to other communities or		• •
Proposed management controls	Given the limited workforce required to underta		
	proposed entirely on Whitehaven-owned land,	no management co	ntrois or mitigation measures are
Dometica	proposed.		
Duration Application ranking	approximately 8 weeks		
Application ranking	Negligible	Are further	No
What is the confidence in predicting	High		No
impacts?		studies required on	
		impacts or	
		mitigation?	
How resilient is the environment to	Medium Resilience	What is the	Uncertain
cope with impacts?	WIEGIGIII NESIIIEIICE	level of public	Oncertain
cope with impacts:		concern?	
Can the impacts be reversed?	Yes	Ranking of	Low
can the impacts be reversed:		potential	
		significance	
Can the impacts be mitigated?	Fully	Justification for ra	l anking
Do the operations comply with	Yes	Jastineation for to	w
standards, plans, policies?	103		
Criteria	Social Impacts: Any impacts which result in som	ı ie individuals or con	nmunities being significantly
	disadvantaged (e.g. change to community facility		
Potential impacts	The Activities are unlikely to result in individuals		
		z. co.minamico De	oboa, albaavallagea.

Proposed management controls	Given the limited workforce required to und	dertake the exploration	activities and the Activities being
roposed management controls	proposed entirely on Whitehaven-owned la	•	9
	proposed.	,	0
Duration	approximately 8 weeks		
Application ranking	Negligible		
What is the confidence in predicting	High	Are further	No
impacts?	111611	studies	140
impacts.		required on	
		impacts or	
How resilient is the environment to	Medium Resilience	mitigation?	Uncertain
cope with impacts?	iviedium Resilience	What is the	Oncertain
cope with impacts:		level of public concern?	
0 - 1 - 1 1 - 1 12	V		1.
Can the impacts be reversed?	Yes	Ranking of	Low
		potential	
		significance	
Can the impacts be mitigated?	Fully	Justification for r	anking
Do the operations comply with	Yes		
standards, plans, policies?			
Criteria	Social Impacts: Any impacts on the health, s	safety, privacy or welfar	re of individuals or communities caused by
	factors such as pollution, odour, noise, vibra	ation, lighting, visual im	pacts, etc).
Potential impacts	The Activities would occur entirely on White	ehaven-owned land. As	such, the Activities would not result in
	any impacts on the health, safety, privacy o	r welfare of individuals	or communities because of factors such as
	air pollution, odour, noise, vibration and lig	hting.	
Proposed management controls	Given the limited workforce required to und	dertake the exploration	activities and the Activities being
	proposed entirely on Whitehaven-owned la	nd, no management co	ntrols or mitigation measures are
	proposed.	_	_
Duration	approximately 8 weeks		
Application ranking	Negligible		
What is the confidence in predicting	High	Are further	No
impacts?	111611	studies	NO NO
impacts:		required on	
		impacts or	
		mitigation?	
How resilient is the environment to	Medium Resilience	What is the	Uncertain
cope with impacts?		level of public	
		concern?	
Can the impacts be reversed?	Yes	Ranking of	Low
		potential	
		significance	
Can the impacts be mitigated?	Fully	Justification for r	anking
Do the operations comply with	Yes		
standards, plans, policies?			
Criteria	Social Impacts: Effect on a locality, place or	building having aesthet	ic, anthropological, archaeological,
	architectural, cultural, historical, scientific o	r social significance or o	other special value for present or future
	generations?		
Potential impacts	The Activities are unlikely to have any effect	t on a locality, place or l	building having aesthetic, anthropological,
·	archaeological, architectural, cultural, histo	rical, scientific or social	significance or other special value for
	present or future generations.	,	
Proposed management controls	Given the limited workforce required to und	dertake the exploration	activities and the Activities being
	proposed entirely on Whitehaven-owned la	•	9
	proposed.	na, no management co	Title of Title gation Theasures are
Duration	approximately 8 weeks		
Application ranking	Negligible		
· · · · · · · · · · · · · · · · · · ·	0.0	A C .ib	T N -
What is the confidence in predicting	High	Are further	No
impacts?		studies	
		required on	
		impacts or	
		mitigation?	
How resilient is the environment to	Medium Resilience	What is the	Uncertain
cope with impacts?		level of public	
		concern?	
Can the impacts be reversed?	Yes	Ranking of	Low
		potential	
		significance	<u> </u>
Can the impacts be mitigated?	Fully	Justification for r	anking
	Yes		-
Do the operations comply with		1	
standards, plans, policies?			
	Social Impacts: Impacts on communities wit	h strong sense of ident	ity.

Potential impacts	The Activities would occur entirely on Whitehaven-owned land. As such, the campaign would not result in an environmental impact that would result in substantial change or disruption to the community (i.e loss of			
	facilities, reduced links to other communities of	r loss of community	identity).	
Proposed management controls	Given the limited workforce required to undertake the exploration activities and the Activities being proposed entirely on Whitehaven-owned land, no management controls or mitigation measures are proposed.			
Duration	approximately 8 weeks			
Application ranking	Negligible			
		A un frontle au	No	
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?	Medium Resilience	What is the level of public concern?	Uncertain	
Can the impacts be reversed?	Yes	Ranking of potential significance	Low	
Can the impacts be mitigated?	Fully	Justification for ra	anking	
Do the operations comply with	Yes		g	
standards, plans, policies?	Social Impacts: Impacts on disadvantaged comr	nunities		
	, ,			
Potential impacts	The Activities would occur entirely on Whitehavenvironmental impact that would result in subsfacilities, reduced links to other communities or	tantial change or di	sruption to the community (i.e loss of	
Proposed management controls	Given the limited workforce required to undert proposed entirely on Whitehaven-owned land, proposed.	•	9	
Duration	approximately 8 weeks			
Application ranking	Negligible			
What is the confidence in predicting	High	Are further	No	
impacts?		studies required on impacts or		
		mitigation?		
How resilient is the environment to	Medium Resilience	What is the	Uncertain	
cope with impacts?		level of public concern?	Chisch tank	
Can the impacts be reversed?	Yes	Ranking of potential	Low	
0 11 1 11 11 11	5.11	significance		
Can the impacts be mitigated?	Fully	Justification for ra	anking	
Do the operations comply with	Yes			
standards, plans, policies?				
Criteria	Economic Impacts: Any impacts which may affe decrease to net economic welfare.			
Potential impacts	It is estimated that up to 7 personnel (contractors and/or Whitehaven employees) would be on site at any one time. This small workforce presents minimal flow on economic benefits to the local community. In this way, the Activities would not present any significant additional pressures on local temporary accommodation requirements, remove significant economic activity from the local community upon cessation of the Activities, or degrade or significantly increase the demand for services and infrastructure resources. There is not expected to be any negative impacts on economic activity, economic stability of the Narrabri Local Government Area, or public sector revenue as a result of the Activities.			
Proposed management controls	Given no negative impacts on economic activiti Activities, no management controls or mitigation	es or economic stab	oility are anticipated as a result of the	
Duration	approximately 8 weeks			
Application ranking	Negligible			
What is the confidence in predicting	High	Are further	No	
impacts?		studies required on impacts or mitigation?		
How resilient is the environment to cope with impacts?	Medium Resilience	What is the level of public concern?	Uncertain	
Can the impacts be reversed?	Yes	Ranking of potential significance	Low	

Can the impacts be mitigated?	Fully	Justification for ra	anking		
Do the operations comply with	Yes				
standards, plans, policies?					
Criteria	Economic Impacts: Any impacts that result in a				
Potential impacts	It is estimated that up to 7 personnel (contractors and/or Whitehaven employees) would be on site at any				
	one time. This small workforce presents minima		•		
	way, the Activities would not present any signif requirements, remove significant economic acti	•			
	Activities, or degrade or significantly increase the	•	* *		
	not expected to be any negative impacts on eco				
	Government Area, or public sector revenue as a	•			
Proposed management controls	Given no negative impacts on economic activities	es or economic stab	ility are anticipated as a result of the		
	Activities, no management controls or mitigation measures are proposed.				
Duration	approximately 8 weeks				
Application ranking	Negligible		Γ		
What is the confidence in predicting	High	Are further	No		
impacts?		studies			
		required on impacts or			
		mitigation?			
How resilient is the environment to	Medium Resilience	What is the	Uncertain		
cope with impacts?		level of public			
		concern?			
Can the impacts be reversed?	Yes	Ranking of	Low		
		potential			
		significance			
Can the impacts be mitigated?	Fully	Justification for ra	anking		
Do the operations comply with standards, plans, policies?	Yes				
Criteria	Economic Impacts: Any impacts which result in	l a change to the nub	olic sector revenue or expenditure hase		
			<u> </u>		
Potential impacts	It is estimated that up to 7 personnel (contractors and/or Whitehaven employees) would be on site at any one time. This small workforce presents minimal flow on economic benefits to the local community. In this				
Potential impacts	1 ' '	•			
rotential impacts	one time. This small workforce presents minima	al flow on economic	benefits to the local community. In this		
rotential impacts	1 ' '	al flow on economic icant additional pres	benefits to the local community. In this sures on local temporary accommodation		
rotential impacts	one time. This small workforce presents minima way, the Activities would not present any signif	al flow on economic icant additional pre- ivity from the local o	benefits to the local community. In this ssures on local temporary accommodation community upon cessation of the		
rotential impacts	one time. This small workforce presents minima way, the Activities would not present any signif requirements, remove significant economic acti Activities, or degrade or significantly increase th not expected to be any negative impacts on eco	al flow on economic icant additional pre- ivity from the local on the demand for servi- thomic activity, economic activity, economic	benefits to the local community. In this sures on local temporary accommodation community upon cessation of the ces and infrastructure resources. There is nomic stability of the Narrabri Local		
	one time. This small workforce presents minima way, the Activities would not present any signif requirements, remove significant economic acti Activities, or degrade or significantly increase th not expected to be any negative impacts on eco Government Area, or public sector revenue as a	al flow on economic icant additional pre- ivity from the local of the demand for servi- promic activity, economic activity, eco	benefits to the local community. In this sures on local temporary accommodation community upon cessation of the ces and infrastructure resources. There is nomic stability of the Narrabri Local ties.		
Proposed management controls	one time. This small workforce presents minima way, the Activities would not present any signif requirements, remove significant economic acti Activities, or degrade or significantly increase th not expected to be any negative impacts on eco Government Area, or public sector revenue as a Given no negative impacts on economic activities	al flow on economic icant additional pre- ivity from the local of the demand for service activity, economic activity, economic activity is a conomic activity activities or economic stab	benefits to the local community. In this sources on local temporary accommodation community upon cessation of the ces and infrastructure resources. There is nomic stability of the Narrabri Local ties. illity are anticipated as a result of the		
Proposed management controls	one time. This small workforce presents minima way, the Activities would not present any signif requirements, remove significant economic acti Activities, or degrade or significantly increase th not expected to be any negative impacts on eco Government Area, or public sector revenue as a Given no negative impacts on economic activitic Activities, no management controls or mitigation	al flow on economic icant additional pre- ivity from the local of the demand for service activity, economic activity, economic activity is a conomic activity activities or economic stab	benefits to the local community. In this sources on local temporary accommodation community upon cessation of the ces and infrastructure resources. There is nomic stability of the Narrabri Local ties. illity are anticipated as a result of the		
Proposed management controls Duration	one time. This small workforce presents minima way, the Activities would not present any signif requirements, remove significant economic acti Activities, or degrade or significantly increase the not expected to be any negative impacts on economic activities. Given no negative impacts on economic activities Activities, no management controls or mitigatic approximately 8 weeks	al flow on economic icant additional pre- ivity from the local of the demand for service activity, economic activity, economic activity is a conomic activity activities or economic stab	benefits to the local community. In this sources on local temporary accommodation community upon cessation of the ces and infrastructure resources. There is nomic stability of the Narrabri Local ties. illity are anticipated as a result of the		
Proposed management controls Duration Application ranking	one time. This small workforce presents minima way, the Activities would not present any signif requirements, remove significant economic activities, or degrade or significantly increase the not expected to be any negative impacts on economic activities activities, or public sector revenue as a Given no negative impacts on economic activities. Activities, no management controls or mitigation approximately 8 weeks Negligible	al flow on economic icant additional pre- ivity from the local of the demand for service activity, economic activity, economic activity is a conomic activity activities or economic stab	benefits to the local community. In this sources on local temporary accommodation community upon cessation of the ces and infrastructure resources. There is nomic stability of the Narrabri Local ties. illity are anticipated as a result of the		
Proposed management controls Duration	one time. This small workforce presents minima way, the Activities would not present any signif requirements, remove significant economic acti Activities, or degrade or significantly increase the not expected to be any negative impacts on economic activities. Given no negative impacts on economic activities Activities, no management controls or mitigatic approximately 8 weeks	al flow on economic icant additional pre- ivity from the local of the demand for service activity, economic activity, economic activity economic activity esonomic stab on measures are pro	benefits to the local community. In this sources on local temporary accommodation community upon cessation of the ces and infrastructure resources. There is nomic stability of the Narrabri Local ties. illity are anticipated as a result of the posed.		
Proposed management controls Duration Application ranking What is the confidence in predicting	one time. This small workforce presents minima way, the Activities would not present any signif requirements, remove significant economic activities, or degrade or significantly increase the not expected to be any negative impacts on economic activities activities, or public sector revenue as a Given no negative impacts on economic activities. Activities, no management controls or mitigation approximately 8 weeks Negligible	al flow on economic icant additional pre- ivity from the local of the demand for service activity, economic activity, economic activity economic stable on measures are pro-	benefits to the local community. In this sources on local temporary accommodation community upon cessation of the ces and infrastructure resources. There is nomic stability of the Narrabri Local ties. illity are anticipated as a result of the posed.		
Proposed management controls Duration Application ranking What is the confidence in predicting	one time. This small workforce presents minima way, the Activities would not present any signif requirements, remove significant economic activities, or degrade or significantly increase the not expected to be any negative impacts on economic activities activities, or public sector revenue as a Given no negative impacts on economic activities. Activities, no management controls or mitigation approximately 8 weeks Negligible	al flow on economic icant additional president additional president from the local of the demand for service promic activity, economic activity, economic activity are so reconomic stables on measures are promitted. Are further studies	benefits to the local community. In this sources on local temporary accommodation community upon cessation of the ces and infrastructure resources. There is nomic stability of the Narrabri Local ties. illity are anticipated as a result of the posed.		
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What is the confidence in predicting impacts?	High	Are further studies	No
		required on	
		impacts or	
		mitigation?	
How resilient is the environment to	Medium Resilience	What is the	Uncertain
cope with impacts?		level of public	
орс		concern?	
Can the impacts be reversed?	Yes	Ranking of	Low
an mpacto so reserves.		potential	
		significance	
Can the impacts be mitigated?	Fully	Justification for ra	l anking
Do the operations comply with	Yes	Justification for to	alikilig
standards, plans, policies?	163		
Criteria	Aesthetic Impacts: Any impacts on the visual or	scenic landscape in	ocluding lighting venting or flaring of gas
	1 1		
Potential impacts	The Activities are unlikely to impact on the visus campaign are to be located on land owned by V		be as all activities associated with the
	No venting or flaring of gas is proposed for the	Activities.	
Proposed management controls	No management controls or mitigation measure		
Duration	approximately 8 weeks		
Application ranking	Negligible		
What is the confidence in predicting	High	Are further	No
impacts?	111511	studies	140
impacts:		required on	
		impacts or	
The second section of the sect	Adadt as Dastinas	mitigation?	Harriett.
How resilient is the environment to	Medium Resilience	What is the	Uncertain
cope with impacts?		level of public	
		concern?	
		Ranking of	Low
Can the impacts be reversed?	Yes	_	
can the impacts be reversed?	Yes	potential	
		potential significance	
Can the impacts be mitigated?	Fully	potential	anking
Can the impacts be mitigated? Do the operations comply with		potential significance	anking
Can the impacts be mitigated? Do the operations comply with standards, plans, policies?	Fully Yes	potential significance Justification for re	anking
Can the impacts be mitigated? Do the operations comply with	Fully Yes Aesthetic Impacts: Areas or items of high aesthe	potential significance Justification for ra etic or scenic value.	
Can the impacts be mitigated? Do the operations comply with standards, plans, policies?	Fully Yes	potential significance Justification for ra etic or scenic value.	
Can the impacts be mitigated? Do the operations comply with standards, plans, policies? Criteria	Fully Yes Aesthetic Impacts: Areas or items of high aesthe	potential significance Justification for relation for relation for relation for relationship for scenic value.	
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Can the impacts be mitigated? Do the operations comply with standards, plans, policies? Criteria	Fully Yes Aesthetic Impacts: Areas or items of high aesthetic The Activities are unlikely to impact on the visual	potential significance Justification for ra etic or scenic value. al or scenic landscap Vhitehaven.	
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Can the impacts be mitigated? Do the operations comply with standards, plans, policies? Criteria Potential impacts Proposed management controls Duration Application ranking What is the confidence in predicting	Fully Yes Aesthetic Impacts: Areas or items of high aesthetic Impacts: Areas or items of high aesthetic Impacts are unlikely to impact on the visus campaign are to be located on land owned by V No venting or flaring of gas is proposed for the No management controls or mitigation measure approximately 8 weeks	potential significance Justification for relation for scenic value. In the scenic landscap whitehaven. Activities. Les are proposed.	pe as all activities associated with the
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Can the impacts be mitigated? Do the operations comply with standards, plans, policies? Criteria Potential impacts Proposed management controls Duration Application ranking What is the confidence in predicting	Fully Yes Aesthetic Impacts: Areas or items of high aesthetic Impacts: Areas or items of high aesthetic Impacts are unlikely to impact on the visual campaign are to be located on land owned by V No venting or flaring of gas is proposed for the Area No management controls or mitigation measure approximately 8 weeks Negligible	potential significance Justification for relation for scenic value. al or scenic landscap whitehaven. Activities. es are proposed. Are further studies required on impacts or	pe as all activities associated with the
Can the impacts be mitigated? Do the operations comply with standards, plans, policies? Criteria Potential impacts Proposed management controls Duration Application ranking What is the confidence in predicting impacts?	Fully Yes Aesthetic Impacts: Areas or items of high aesthetic Impacts: Areas or items of high aesthetic Impact on the visus campaign are to be located on land owned by V No venting or flaring of gas is proposed for the No management controls or mitigation measure approximately 8 weeks Negligible High	potential significance Justification for relation for scenic value. al or scenic landscap whitehaven. Activities. es are proposed. Are further studies required on impacts or mitigation?	pe as all activities associated with the
Can the impacts be mitigated? Do the operations comply with standards, plans, policies? Criteria Potential impacts Proposed management controls Duration Application ranking What is the confidence in predicting impacts? How resilient is the environment to	Fully Yes Aesthetic Impacts: Areas or items of high aesthetic Impacts: Areas or items of high aesthetic Impacts are unlikely to impact on the visual campaign are to be located on land owned by V No venting or flaring of gas is proposed for the Area No management controls or mitigation measure approximately 8 weeks Negligible	potential significance Justification for relation of scenic value. all or scenic landscap whitehaven. Activities. es are proposed. Are further studies required on impacts or mitigation? What is the	pe as all activities associated with the
Can the impacts be mitigated? Do the operations comply with standards, plans, policies? Criteria Potential impacts Proposed management controls Duration Application ranking What is the confidence in predicting impacts?	Fully Yes Aesthetic Impacts: Areas or items of high aesthetic Impacts: Areas or items of high aesthetic Impact on the visus campaign are to be located on land owned by V No venting or flaring of gas is proposed for the No management controls or mitigation measure approximately 8 weeks Negligible High	potential significance Justification for research value. al or scenic landscap whitehaven. Activities. es are proposed. Are further studies required on impacts or mitigation? What is the level of public	pe as all activities associated with the
Can the impacts be mitigated? Do the operations comply with standards, plans, policies? Criteria Potential impacts Proposed management controls Duration Application ranking What is the confidence in predicting impacts? How resilient is the environment to cope with impacts?	Fully Yes Aesthetic Impacts: Areas or items of high aesthetic Impacts: Areas or items of high aesthetic Impacts are unlikely to impact on the visus campaign are to be located on land owned by V No venting or flaring of gas is proposed for the No management controls or mitigation measure approximately 8 weeks Negligible High Medium Resilience	potential significance Justification for research value. al or scenic landscap whitehaven. Activities. es are proposed. Are further studies required on impacts or mitigation? What is the level of public concern?	ne as all activities associated with the No Uncertain
Can the impacts be mitigated? Do the operations comply with standards, plans, policies? Criteria Potential impacts Proposed management controls Duration Application ranking What is the confidence in predicting impacts? How resilient is the environment to	Fully Yes Aesthetic Impacts: Areas or items of high aesthetic Impacts: Areas or items of high aesthetic Impact on the visus campaign are to be located on land owned by V No venting or flaring of gas is proposed for the No management controls or mitigation measure approximately 8 weeks Negligible High	potential significance Justification for research value. al or scenic landscap whitehaven. Activities. es are proposed. Are further studies required on impacts or mitigation? What is the level of public concern? Ranking of	pe as all activities associated with the
Can the impacts be mitigated? Do the operations comply with standards, plans, policies? Criteria Potential impacts Proposed management controls Duration Application ranking What is the confidence in predicting impacts? How resilient is the environment to cope with impacts?	Fully Yes Aesthetic Impacts: Areas or items of high aesthetic Impacts: Areas or items of high aesthetic Impacts are unlikely to impact on the visus campaign are to be located on land owned by V No venting or flaring of gas is proposed for the No management controls or mitigation measure approximately 8 weeks Negligible High Medium Resilience	potential significance Justification for research value. al or scenic landscap whitehaven. Activities. es are proposed. Are further studies required on impacts or mitigation? What is the level of public concern? Ranking of potential	ne as all activities associated with the No Uncertain
Can the impacts be mitigated? Do the operations comply with standards, plans, policies? Criteria Potential impacts Proposed management controls Duration Application ranking What is the confidence in predicting impacts? How resilient is the environment to cope with impacts? Can the impacts be reversed?	Fully Yes Aesthetic Impacts: Areas or items of high aesthetic Impacts: Areas or items of high aesthetic Impacts are unlikely to impact on the visus campaign are to be located on land owned by V No venting or flaring of gas is proposed for the No management controls or mitigation measure approximately 8 weeks Negligible High Medium Resilience	potential significance Justification for research value. In the second value of the second value. In the second value of the	ne as all activities associated with the No Uncertain Low
Can the impacts be mitigated? Do the operations comply with standards, plans, policies? Criteria Potential impacts Proposed management controls Duration Application ranking What is the confidence in predicting impacts? How resilient is the environment to cope with impacts? Can the impacts be reversed?	Fully Yes Aesthetic Impacts: Areas or items of high aesthetic Impacts: Areas or items of high aesthetic Impacts are unlikely to impact on the visus campaign are to be located on land owned by V No venting or flaring of gas is proposed for the No management controls or mitigation measure approximately 8 weeks Negligible High Medium Resilience Yes Fully	potential significance Justification for research value. al or scenic landscap whitehaven. Activities. es are proposed. Are further studies required on impacts or mitigation? What is the level of public concern? Ranking of potential	ne as all activities associated with the No Uncertain Low
Can the impacts be mitigated? Do the operations comply with standards, plans, policies? Criteria Potential impacts Proposed management controls Duration Application ranking What is the confidence in predicting impacts? How resilient is the environment to cope with impacts? Can the impacts be reversed? Can the impacts be mitigated? Do the operations comply with	Fully Yes Aesthetic Impacts: Areas or items of high aesthetic Impacts: Areas or items of high aesthetic Impacts are unlikely to impact on the visus campaign are to be located on land owned by V No venting or flaring of gas is proposed for the No management controls or mitigation measure approximately 8 weeks Negligible High Medium Resilience	potential significance Justification for research value. In the second value of the second value. In the second value of the	ne as all activities associated with the No Uncertain Low
Can the impacts be mitigated? Do the operations comply with standards, plans, policies? Criteria Potential impacts Proposed management controls Duration Application ranking What is the confidence in predicting impacts? How resilient is the environment to cope with impacts? Can the impacts be reversed?	Fully Yes Aesthetic Impacts: Areas or items of high aesthetic Impacts: Areas or items of high aesthetic Impacts are unlikely to impact on the visus campaign are to be located on land owned by V No venting or flaring of gas is proposed for the No management controls or mitigation measure approximately 8 weeks Negligible High Medium Resilience Yes Fully	potential significance Justification for residual procession of the second content of th	ne as all activities associated with the No Uncertain Low anking

Potential impacts	The area associated with the Activities has prim primarily composed of open grasslands of varying timbered vegetation throughout. Former land u	ng conditions and q	uality with some fragmented patches of	
	The Activities would involve ground surface disturbance and therefore have the potential to disturb Aboriginal objects. Notwithstanding, areas of avoidance for the Activities identified in the planning and scoping of the investigation sites included cultural heritage exclusion zones. The exploration sites would be placed to avoid the known Aboriginal sites and/or objects, to ensure that no impacts to recorded Aboriginal cultural heritage are incurred by the Activities. The disturbance footprint of the Activities would be minimised as far as practicable.			
	No culturally modified trees have been recorded	d within the area as	sociated with the Activities.	
Proposed management controls	Areas of avoidance for the Activities identified i cultural heritage exclusion zones. As such, the e sites and/or objects listed above, to ensure that the Activities.	xploration sites wo	uld be placed to avoid the five Aboriginal	
	Should an Aboriginal site and/or object be newl area would stop immediately, with temporary frachaeologist engaged to investigate the featur. Aboriginal site and/or object, Whitehaven woul with the appropriate archaeologist's recommen	encing erected arou e. Should the archa d facilitate and con	and the feature and an appropriate eologist determine the feature to be an	
Duration	approximately 8 weeks			
Application ranking	Negligible			
What is the confidence in predicting impacts?	High	Are further studies required on impacts or	No	
		mitigation?		
How resilient is the environment to cope with impacts?	Medium Resilience	What is the level of public concern?	Uncertain	
Can the impacts be reversed?	Yes	Ranking of potential significance	Low	
Can the impacts be mitigated?	Fully	Justification for r	anking	
Do the operations comply with standards, plans, policies?	Yes			
Criteria	Cultural Impacts: Any impacts on known Aborig			
Potential impacts	An AHIMS database search was conducted in the Aboriginal Cultural Heritage Due Diligence prepared for Activities (Whincop Archaeology, 2024). Whincop Archaeology identified 99 AHIMS sites in the vicinity of Activities, 5 of which were located in the immediate area associated with or surrounding the Activities. To following AHIMS Sites are located within the area associated with or surrounding the Activities:			
	● 20-4-1056			
	 20-4-1056 20-4-1097 20-4-1096 			
	• 20-4-1097			
	 20-4-1097 20-4-1096 20-4-0464 	xploration sites wo	uld be placed to avoid the five Aboriginal	
Proposed management controls	 20-4-1097 20-4-1096 20-4-0464 20-4-0478 Areas of avoidance for the Activities identified i cultural heritage exclusion zones. As such, the e sites and/or objects listed above, to ensure that	xploration sites wo no impacts to Abo n the planning and xploration sites wo	uld be placed to avoid the five Aboriginal riginal cultural heritage are incurred by scoping of the investigation sites included uld be placed to avoid the five Aboriginal	
Proposed management controls	20-4-1097 20-4-1096 20-4-0464 20-4-0478 Areas of avoidance for the Activities identified i cultural heritage exclusion zones. As such, the esites and/or objects listed above, to ensure that the Activities. Areas of avoidance for the Activities identified i cultural heritage exclusion zones. As such, the esites and/or objects listed above, to ensure that the Activities. Should an Aboriginal site and/or object be newlarea would stop immediately, with temporary farchaeologist engaged to investigate the feature Aboriginal site and/or object, Whitehaven would	xploration sites wo no impacts to Abo n the planning and xploration sites wo no impacts to Abo y identified during the encing erected arou e. Should the archa d facilitate and cons	uld be placed to avoid the five Aboriginal riginal cultural heritage are incurred by scoping of the investigation sites included uld be placed to avoid the five Aboriginal riginal cultural heritage are incurred by the Activities, work in the surrounding and the feature and an appropriate eologist determine the feature to be an	
Proposed management controls Duration	20-4-1097 20-4-1096 20-4-0464 20-4-0478 Areas of avoidance for the Activities identified i cultural heritage exclusion zones. As such, the esites and/or objects listed above, to ensure that the Activities. Areas of avoidance for the Activities identified i cultural heritage exclusion zones. As such, the esites and/or objects listed above, to ensure that the Activities. Should an Aboriginal site and/or object be newlarea would stop immediately, with temporary farchaeologist engaged to investigate the feature.	xploration sites wo no impacts to Abo n the planning and xploration sites wo no impacts to Abo y identified during the encing erected arou e. Should the archa d facilitate and cons	uld be placed to avoid the five Aboriginal riginal cultural heritage are incurred by scoping of the investigation sites included uld be placed to avoid the five Aboriginal riginal cultural heritage are incurred by the Activities, work in the surrounding and the feature and an appropriate eologist determine the feature to be an	

What is the confidence in predicting impacts?			
impacts?	High	Are further	No
		studies	
		required on	
		impacts or	
		mitigation?	
How resilient is the environment to	Medium Resilience	What is the	Uncertain
cope with impacts?		level of public	
		concern?	
Can the impacts be reversed?	Yes	Ranking of	Low
•		potential	
		significance	
Can the impacts be mitigated?	Fully	Justification for ra	anking
Do the operations comply with	Yes		
standards, plans, policies?			
Criteria	Cultural Impacts: Affects areas where the lands	i Cape features indica	te the likely presence of Aboriginal
	objects.		, p
Potential impacts	Two of the proposed drill pads (2312_05 and 23	12 00) are located	within areas with higher notential to
Totelliai illipacts	contain Aboriginal objects (i.e. within 200 m of a		
	50 m of a known Aboriginal Heritage site) (Whir		
Durance di management controle	Areas of avoidance for the Activities identified i		
Proposed management controls			
	cultural heritage exclusion zones. As such, the e	•	
	sites and/or objects listed above, to ensure that	no impacts to Aboi	riginal cultural heritage are incurred by
	the Activities.		
	Should an Aboriginal site and/or object be newl	y identified during t	he Activities, work in the surrounding
	area would stop immediately, with temporary f	encing erected arou	nd the feature and an appropriate
	archaeologist engaged to investigate the feature	e. Should the archae	eologist determine the feature to be an
	Aboriginal site and/or object, Whitehaven woul	d facilitate and cons	sult with the relevant authorities in line
	with the appropriate archaeologist's recommen	dations.	
Duration	approximately 8 weeks		
Application ranking	Negligible		
What is the confidence in predicting	High	Are further	No
impacts?	111611	studies	140
impacts:		required on	
		impacts or	
		mitigation?	
How resilient is the environment to	Medium Resilience	What is the	Uncertain
cope with impacts?		level of public	
		concern?	
Can the impacts be reversed?	Yes	Ranking of	Low
		potential	
		significance	
Can the impacts be mitigated?	Fully	Justification for ra	anking
Do the operations comply with	Yes		
standards, plans, policies?			
Criteria	Cultural Impacts: Affects areas subject to native	title claims, indiger	nous land use agreements or joint
	management arrangements.	titie diamino, maige.	ious iunu use ugi cemento ei joint
Potential impacts	The area accordated with the Activities is not loc	ated within any are	as subject to native title determinations
Potential impacts		-	as subject to native title determinations,
Potential impacts	The area associated with the Activities is not loo indigenous land use agreements and/or joint m	-	
Potential impacts	indigenous land use agreements and/or joint m	anagement agreem	ent.
Potential impacts	indigenous land use agreements and/or joint m It is noted the land associated with the Activitie	anagement agreem	ent.
	indigenous land use agreements and/or joint m It is noted the land associated with the Activitie People.	anagement agreem	ent. etitle claim submitted by the Gomeroi
Potential impacts Proposed management controls	indigenous land use agreements and/or joint m It is noted the land associated with the Activitie People. Areas of avoidance for the Activities identified i	anagement agreem s subject to a native	ent. title claim submitted by the Gomeroi scoping of the investigation sites included
	It is noted the land associated with the Activitie People. Areas of avoidance for the Activities identified i cultural heritage exclusion zones. As such, the e	anagement agreem s subject to a native n the planning and s xploration sites wo	ent. title claim submitted by the Gomeroi scoping of the investigation sites included ald be placed to avoid the five Aboriginal
	indigenous land use agreements and/or joint m It is noted the land associated with the Activitie People. Areas of avoidance for the Activities identified i	anagement agreem s subject to a native n the planning and s xploration sites wo	ent. title claim submitted by the Gomeroi scoping of the investigation sites included ald be placed to avoid the five Aboriginal
	It is noted the land associated with the Activitie People. Areas of avoidance for the Activities identified i cultural heritage exclusion zones. As such, the e	anagement agreem s subject to a native n the planning and s xploration sites wo	ent. title claim submitted by the Gomeroi scoping of the investigation sites included ald be placed to avoid the five Aboriginal
	It is noted the land associated with the Activitie People. Areas of avoidance for the Activities identified i cultural heritage exclusion zones. As such, the e sites and/or objects listed above, to ensure that	anagement agreem s subject to a native n the planning and s xploration sites wo	ent. title claim submitted by the Gomeroi scoping of the investigation sites included ald be placed to avoid the five Aboriginal
	It is noted the land associated with the Activitie People. Areas of avoidance for the Activities identified i cultural heritage exclusion zones. As such, the e sites and/or objects listed above, to ensure that	anagement agreem s subject to a native n the planning and s xploration sites wor no impacts to Abor	ent. etitle claim submitted by the Gomeroi scoping of the investigation sites included ald be placed to avoid the five Aboriginal riginal cultural heritage are incurred by
	indigenous land use agreements and/or joint m It is noted the land associated with the Activitie People. Areas of avoidance for the Activities identified i cultural heritage exclusion zones. As such, the e sites and/or objects listed above, to ensure that the Activities.	anagement agreem s subject to a native n the planning and s xploration sites wor no impacts to Abor y identified during t	ent. It title claim submitted by the Gomeroi Scoping of the investigation sites included ald be placed to avoid the five Aboriginal riginal cultural heritage are incurred by the Activities, work in the surrounding
	indigenous land use agreements and/or joint m It is noted the land associated with the Activitie People. Areas of avoidance for the Activities identified i cultural heritage exclusion zones. As such, the e sites and/or objects listed above, to ensure that the Activities. Should an Aboriginal site and/or object be newl	anagement agreem s subject to a native n the planning and s xploration sites wor no impacts to Abor y identified during t encing erected arou	ent. It title claim submitted by the Gomeroi Scoping of the investigation sites included ald be placed to avoid the five Aboriginal riginal cultural heritage are incurred by the Activities, work in the surrounding and the feature and an appropriate
	indigenous land use agreements and/or joint m It is noted the land associated with the Activitie People. Areas of avoidance for the Activities identified i cultural heritage exclusion zones. As such, the e sites and/or objects listed above, to ensure that the Activities. Should an Aboriginal site and/or object be newl area would stop immediately, with temporary farchaeologist engaged to investigate the feature.	anagement agreem s subject to a native n the planning and s xploration sites wor no impacts to Abor y identified during t encing erected arou e. Should the archae	ent. It title claim submitted by the Gomeroi Scoping of the investigation sites included ald be placed to avoid the five Aboriginal riginal cultural heritage are incurred by the Activities, work in the surrounding and the feature and an appropriate ecologist determine the feature to be an
	indigenous land use agreements and/or joint m It is noted the land associated with the Activitie People. Areas of avoidance for the Activities identified i cultural heritage exclusion zones. As such, the e sites and/or objects listed above, to ensure that the Activities. Should an Aboriginal site and/or object be newl area would stop immediately, with temporary for archaeologist engaged to investigate the feature Aboriginal site and/or object, Whitehaven would	anagement agreem s subject to a native n the planning and s xploration sites wor no impacts to Abor y identified during t encing erected arou e. Should the archae d facilitate and cons	ent. It title claim submitted by the Gomeroi Scoping of the investigation sites included ald be placed to avoid the five Aboriginal riginal cultural heritage are incurred by the Activities, work in the surrounding and the feature and an appropriate ecologist determine the feature to be an
Proposed management controls	indigenous land use agreements and/or joint m It is noted the land associated with the Activitie People. Areas of avoidance for the Activities identified i cultural heritage exclusion zones. As such, the e sites and/or objects listed above, to ensure that the Activities. Should an Aboriginal site and/or object be newl area would stop immediately, with temporary for archaeologist engaged to investigate the feature. Aboriginal site and/or object, Whitehaven woul with the appropriate archaeologist's recommen	anagement agreem s subject to a native n the planning and s xploration sites wor no impacts to Abor y identified during t encing erected arou e. Should the archae d facilitate and cons	ent. It title claim submitted by the Gomeroi Scoping of the investigation sites included ald be placed to avoid the five Aboriginal riginal cultural heritage are incurred by the Activities, work in the surrounding and the feature and an appropriate ecologist determine the feature to be an
Proposed management controls Duration	indigenous land use agreements and/or joint m It is noted the land associated with the Activitie People. Areas of avoidance for the Activities identified i cultural heritage exclusion zones. As such, the e sites and/or objects listed above, to ensure that the Activities. Should an Aboriginal site and/or object be newl area would stop immediately, with temporary for archaeologist engaged to investigate the feature Aboriginal site and/or object, Whitehaven woul with the appropriate archaeologist's recommentagproximately 8 weeks	anagement agreem s subject to a native n the planning and s xploration sites wor no impacts to Abor y identified during t encing erected arou e. Should the archae d facilitate and cons	ent. It title claim submitted by the Gomeroi Scoping of the investigation sites included ald be placed to avoid the five Aboriginal riginal cultural heritage are incurred by the Activities, work in the surrounding and the feature and an appropriate ecologist determine the feature to be an
Proposed management controls Duration Application ranking	indigenous land use agreements and/or joint m It is noted the land associated with the Activitie People. Areas of avoidance for the Activities identified i cultural heritage exclusion zones. As such, the e sites and/or objects listed above, to ensure that the Activities. Should an Aboriginal site and/or object be newl area would stop immediately, with temporary f archaeologist engaged to investigate the feature Aboriginal site and/or object, Whitehaven woul with the appropriate archaeologist's recommentapproximately 8 weeks Negligible	anagement agreem s subject to a native n the planning and s xploration sites wor no impacts to Abor y identified during t encing erected arou e. Should the archa d facilitate and cons dations.	ent. It title claim submitted by the Gomeroi Scoping of the investigation sites included ald be placed to avoid the five Aboriginal riginal cultural heritage are incurred by the Activities, work in the surrounding and the feature and an appropriate eologist determine the feature to be an sult with the relevant authorities in line
Proposed management controls Duration Application ranking What is the confidence in predicting	indigenous land use agreements and/or joint m It is noted the land associated with the Activitie People. Areas of avoidance for the Activities identified i cultural heritage exclusion zones. As such, the e sites and/or objects listed above, to ensure that the Activities. Should an Aboriginal site and/or object be newl area would stop immediately, with temporary for archaeologist engaged to investigate the feature Aboriginal site and/or object, Whitehaven woul with the appropriate archaeologist's recommentagproximately 8 weeks	anagement agreem s subject to a native n the planning and s xploration sites wor no impacts to Abor y identified during t encing erected arou e. Should the archae d facilitate and considations. Are further	ent. It title claim submitted by the Gomeroi Scoping of the investigation sites included ald be placed to avoid the five Aboriginal riginal cultural heritage are incurred by the Activities, work in the surrounding and the feature and an appropriate ecologist determine the feature to be an
Proposed management controls Duration Application ranking	indigenous land use agreements and/or joint m It is noted the land associated with the Activitie People. Areas of avoidance for the Activities identified i cultural heritage exclusion zones. As such, the e sites and/or objects listed above, to ensure that the Activities. Should an Aboriginal site and/or object be newl area would stop immediately, with temporary f archaeologist engaged to investigate the feature Aboriginal site and/or object, Whitehaven woul with the appropriate archaeologist's recommentapproximately 8 weeks Negligible	anagement agreem s subject to a native n the planning and s xploration sites wor no impacts to Abor y identified during t encing erected arou e. Should the archae d facilitate and considations. Are further studies	ent. It title claim submitted by the Gomeroi Scoping of the investigation sites included ald be placed to avoid the five Aboriginal riginal cultural heritage are incurred by the Activities, work in the surrounding and the feature and an appropriate eologist determine the feature to be an sult with the relevant authorities in line
Proposed management controls Duration Application ranking What is the confidence in predicting	indigenous land use agreements and/or joint m It is noted the land associated with the Activitie People. Areas of avoidance for the Activities identified i cultural heritage exclusion zones. As such, the e sites and/or objects listed above, to ensure that the Activities. Should an Aboriginal site and/or object be newl area would stop immediately, with temporary f archaeologist engaged to investigate the feature Aboriginal site and/or object, Whitehaven woul with the appropriate archaeologist's recommentapproximately 8 weeks Negligible	anagement agreem s subject to a native n the planning and s xploration sites wor no impacts to Abor y identified during t encing erected arou e. Should the archae d facilitate and considations. Are further	ent. It title claim submitted by the Gomeroi Scoping of the investigation sites included ald be placed to avoid the five Aboriginal riginal cultural heritage are incurred by the Activities, work in the surrounding and the feature and an appropriate eologist determine the feature to be an sult with the relevant authorities in line
Proposed management controls Duration Application ranking What is the confidence in predicting	indigenous land use agreements and/or joint m It is noted the land associated with the Activitie People. Areas of avoidance for the Activities identified i cultural heritage exclusion zones. As such, the e sites and/or objects listed above, to ensure that the Activities. Should an Aboriginal site and/or object be newl area would stop immediately, with temporary f archaeologist engaged to investigate the feature Aboriginal site and/or object, Whitehaven woul with the appropriate archaeologist's recommentapproximately 8 weeks Negligible	anagement agreem s subject to a native n the planning and s xploration sites wor no impacts to Abor y identified during t encing erected arou e. Should the archae d facilitate and considations. Are further studies	ent. It title claim submitted by the Gomeroi Scoping of the investigation sites included ald be placed to avoid the five Aboriginal riginal cultural heritage are incurred by the Activities, work in the surrounding and the feature and an appropriate eologist determine the feature to be an sult with the relevant authorities in line

How resilient is the environment to cope with impacts?	Medium Resilience	What is the level of public concern?	Uncertain
Can the impacts be reversed?	Yes	Ranking of potential	Low
		significance	
Can the impacts be mitigated?	Fully	Justification for ra	anking
Do the operations comply with standards, plans, policies?	Yes		
Criteria	Cultural Impacts: Impacts on Aboriginal commu	nities or areas subje	ect to land rights claims.
Potential impacts	An AHIMS database search was conducted in the Activities (Whincop Archaeology, 2024). Whinco Activities, 5 of which were located in the immed following AHIMS Sites are located within the arc 20-4-1056 20-4-1097	op Archaeology ider diate area associate	tified 99 AHIMS sites in the vicinity of the d with or surrounding the Activities. The
	• 20-4-1096		
	• 20-4-0464		
	• 20-4-0478		
	Areas of avoidance for the Activities identified i cultural heritage exclusion zones. As such, the e sites and/or objects listed above, to ensure that the Activities.	exploration sites wo	uld be placed to avoid the five Aboriginal
Proposed management controls	Areas of avoidance for the Activities identified in the planning and scoping of the investigation s cultural heritage exclusion zones. As such, the exploration sites would be placed to avoid the fiv sites and/or objects listed above, to ensure that no impacts to Aboriginal cultural heritage are in the Activities.		
	Should an Aboriginal site and/or object be newl area would stop immediately, with temporary f archaeologist engaged to investigate the featur Aboriginal site and/or object, Whitehaven woul with the appropriate archaeologist's recommer	encing erected arou e. Should the archae d facilitate and cons	nd the feature and an appropriate eologist determine the feature to be an
Duration	approximately 8 weeks	idations.	
Application ranking	Negligible		
What is the confidence in predicting impacts?	High	Are further studies required on	No
		impacts or	
		mitigation?	
How resilient is the environment to cope with impacts?	Medium Resilience	What is the level of public concern?	Uncertain
Can the impacts be reversed?	Yes	Ranking of	Low
		potential	-
		significance	
Can the impacts be mitigated?	Fully	Justification for ra	anking
Do the operations comply with standards, plans, policies?	Yes		
Criteria	Cultural Impacts: Impacts on areas or items of h heritage, historical, recreational or scientific val		, archaeological, architectural, cultural,
Potential impacts			historical agricultural operations and is
·	The area associated with the Activities has primarily been subject to historical agricultural operations and is primarily composed of open grasslands of varying conditions and quality with some fragmented patches of timbered vegetation throughout. Former land uses consist of dryland cropping and livestock grazing.		
	The Activities would involve ground surface disturbance and therefore have the potential to disturb Aboriginal objects. Notwithstanding, areas of avoidance for the Activities identified in the planning and scoping of the investigation sites included cultural heritage exclusion zones. The exploration sites would be placed to avoid the known Aboriginal sites and/or objects, to ensure that no impacts to recorded Aboriginal cultural heritage are incurred by the Activities.		
	The disturbance footprint of the Activities woul	d be minimised as fa	ar as practicable.

		no impacts to Abo	riginal cultural heritage are incurred by		
	sites and/or objects listed above, to ensure that no impacts to Aboriginal cultural heritage are incurred by the Activities.				
	Should an Aboriginal site and/or object be newlarea would stop immediately, with temporary for archaeologist engaged to investigate the feature	encing erected arou	and the feature and an appropriate		
	Aboriginal site and/or object, Whitehaven would	d facilitate and con	=		
Duration	with the appropriate archaeologist's recommen approximately 8 weeks				
Application ranking	Negligible				
What is the confidence in predicting	High	Are further	No		
impacts?		studies			
		required on			
		impacts or mitigation?			
How resilient is the environment to	Medium Resilience	What is the	Uncertain		
cope with impacts?		level of public			
Can the impacts he reversed?	Yes	concern?	Low		
Can the impacts be reversed?	res	Ranking of potential	LOW		
		significance			
Can the impacts be mitigated?	Fully	Justification for r	anking		
Do the operations comply with	Yes				
standards, plans, policies?	Land Has because Annuaries absocsatis land on				
Criteria	Land Use Impacts: Any major changes in land us				
Potential impacts	The area associated with the Activities has prim primarily composed of open grasslands of varyir timbered vegetation throughout. Former land u	ng conditions and q	uality with some fragmented patches of		
	This land use is consistent with the surrounding area, which is largely an agricultural landscape, comprising primarily of grazing and cropping activities dominating the area to the north, south, east and west of Leard State Forest. Additionally, the active open cut mining operations of Boggabri Coal Mine and Tarrawonga Coal Mine are located south-east of the Activities, within the Leard State forest.				
	Soil disturbance would be limited to the immediate vicinity of the drill hole and may be associated with the use of new access tracks if required.				
	The Activities are not anticipated to change the the areas associated with the Activities.	existing land and so	oil capability class or soil fertility within		
	requirements and conditions within ML 1719/Cl	n to confirm regeneration and/or revegetation performance, ares are required, and confirm no ongoing erosion and weed ri			
	1				
	Due to the small area of disturbance, risks associated with successful rehabilitation to pre disturbance condition is considered low.				
	The impact of the Activities on land use would be negligible due to the small disturbance area (i.e. approximately 1.3 ha), the short-term, progressive and mobile nature of the Activities, and the regeneration and/or rehabilitation of the disturbance areas to the pre-disturbance land use.				
	The Activities are therefore unlikely to result in beneficial land uses.		- '		
Proposed management controls	As described above, soil disturbance would be li associated with the use of new access tracks if r		diate vicinity of the drill hole and may be		
	Rehabilitation of disturbed land as a result of th		be conducted in accordance with the end in the in the rehabilitation objectives		
Duration	and rehabilitation completion criteria prepared associated with successful rehabilitation to pre approximately 8 weeks	for the Activities. D			

What is the confidence in predicting impacts? High continues the studies required on impacts or mitigation? Medium Resilience What is the Uncertain potential significance protection of the p					
How resilient is the environment to cope with impacts or mitigation? Can the impacts be reversed? Ves	What is the confidence in predicting	High	Are further	No	
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Potential impacts	The Narrabri Shire 2040 Local Strategic Planning Statement (Narrarbri Strategic Planning Statement) outlines the Narrabri LGA economic, social and environmental land use needs over the next 20 years. The area associated with the Activities will partially occur within the land described in the Narrabri Strategic Planning Statement. The Narrabri Strategic Planning Statement identifies mining as a key engine industry in the region's economy. With the implementation of appropriate mitigation measures as described in this application, the Activities would be consistent with objectives to sustainably manage mining areas and to sustainably manage and conserve water resources, consistent with Planning Priorities 6 and 18, respectively. The New England North West Regional Plan 2041 (Regional Plan) was published by the DPE in September 2022 to outline planning priorities and decision-making objectives in the New England North West region for the next two decades. The area covered by the Regional Plan includes the area associated with the Activities. The Regional Plan acknowledges mining as being a major contributor to the regional economy, and recognises the importance of the mining industry in terms of job creation, both directly and indirectly. With the implementation of appropriate mitigation measures as described in this application, the Activities would be consistent with objectives to sustainably manage mining areas, consistent with Objective 4 of the Regional Plan.			
Proposed management controls				
Duration	approximately 8 weeks			
Application ranking	Negligible			
What is the confidence in predicting impacts?	High	Are further studies required on impacts or	No	
How resilient is the environment to cope with impacts?	Medium Resilience	mitigation? What is the level of public concern?	Uncertain	
Can the impacts be reversed?	Yes	Ranking of potential significance	Low	
Can the impacts be mitigated?	Fully	Justification for r	anking	
Do the operations comply with standards, plans, policies?	Yes			
Criteria	Matters of National Environmental Significance Protection and Biodiversity Conservation Act 19		under the Commonwealth Environmental	

Potential impacts

Potentially relevant Matters of National Environmental Signficance were identified in a search area covering the extent of the Activities (and a 10 km buffer) using the EPBC Protected Matters Search Tool (attached to this application).

The PMST indicated that the Activities may relate to three Wetlands of International Importance, which are located greater than 900 km (and up to 1,200 km) from the Activities.

Eight Listed Threatened Ecological Communities were identified as likely to occur within the 10km buffer area encompassing the Activities:

- Coolibah Black Box Woodlands of the Darling Riverine Plains and the Brigalow Belt South Bioregions.
- Grey Box (Eucalyptus macrocarpa) Grassy Woodlands and Derived Native Grasslands of Southeastern Australia
- Natural grasslands on basalt and fine-textured alluvial plains of northern New South Wales and Queensland
- Poplar Box Grassy Woodland on Alluvial Plains
- Weeping Myall Woodlands.
- White Box-Yellow Box-Blakely's Red Gum Grassy Woodland and Derived Native Grassland.
- Mount Kaputar land snail and slug community.
- New England Peppermint (Eucalyptus nova-anglica) Grassy Woddlands.

A total of 43 Listed Threatened Species were identified as being related to the 10 km buffer area, including 18 birds, 2 fish, 6 mammals, 4 reptiles, and 13 flora species.

In addition, 9 Listed Migratory Species were identified as being related to the 10 km buffer area.

However, it is noted that most of the listed species are now within the development footprint of the exiting Maules Creek Coal Mine, and are no longer relevant for impact assessment.

The MNES are unlikely to be impacted due to the short-term, progressive and mobile nature of the Activities, and the regeneration/rehabilitation of the disturbance areas to pre disturbance land use. The site selection process included avoidance of ecological exclusion areas. The following has also been considered and would continue to be considered in the site selection process:

- Minimisation of vegetation clearing, which would be restricted to ground cover, small shrubs and regenerating trees. Any material from vegetation clearing would be stockpiled and kept for rehabilitation.
- Occasional tree branches may require removal to allow for the safe movement or operation of the drill rig. Each branch requiring removal would be inspected for evidence of recent habitation. Should evidence of recent habitation be present, the branch would not be removed without obtaining advice from an ecologist or suitably qualified professional regarding impact minimisation strategies.
- For any sites that are proximal to drainage lines, selecting a location that involves the least potential impacts to the drainage line.

MNES are unlikely to be impacted by the Activities provided the considerations above are implemented for the duration of the Activities.

Proposed management controls

As described above, MNES are unlikely to be impacted due to the short-term, progressive and mobile nature of the Activities, and the regeneration/rehabilitation of the disturbance areas to pre disturbance land use. The site selection process included avoidance of ecological exclusion areas. The following has also been considered and would continue to be considered in the site selection process:

- Minimisation of vegetation clearing, which would be restricted to ground cover, small shrubs and regenerating trees. Any material from vegetation clearing would be stockpiled and kept for rehabilitation.
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MNES are unlikely to be impacted by the Activities provided the considerations above are implemented for the duration of the Activities.

approximately 8 weeks		
Negligible		
High	Are further	No
	studies	
	required on	
	impacts or	
	mitigation?	
	Negligible	Negligible High Are further studies required on impacts or

How resilient is the environment to	Medium Resilience	What is the	Uncertain
cope with impacts?		level of public	
		concern?	
Can the impacts be reversed?	Yes	Ranking of	Low
		potential	
		significance	
Can the impacts be mitigated?	Fully	Justification for ra	anking
Do the operations comply with	Yes		
standards, plans, policies?			
Criteria	Cumulative Impacts: Cumulative environmental	l effects with other	existing or likely future activities.
Potential impacts	Previous land uses in the locality have resulted continued forestry, agricultural and mining ope Approved mining activities that relate to the arc Coal Mine, Tarrawonga Coal Mine and Boggabr. The surveys, drilling, sampling, testing and report feasibility of the continued operations at the M design. The Activities would be undertaken pricoperations at the Maules Creek Coal Mine, and environmental effects associated with the Mau arising from the existing Maules Creek Coal Mine.	rations. These operated associated with the coal Mine. Intring associated with aules Creek Coal Miner to any constructionare therefore not coal Miner the coal Miner that are	ations are still ongoing in the region. he Activities include the Maules Creek th the Activities would contribute to the me and would inform further detailed on works associated with continued considered to result in any cumulative . Notwithstanding, potential impacts is Review of Environmental Factors.
	The Activities would also be short-term, progre regenerated/rehabilitated to pre disturbance la		nature, with disturbance areas
Proposed management controls		nd use. asures are propose	
Proposed management controls Duration	regenerated/rehabilitated to pre disturbance la No management controls and/or mitigation me	nd use. asures are propose	
Duration	regenerated/rehabilitated to pre disturbance la No management controls and/or mitigation me with other existing or likely future activities are approximately 8 weeks	nd use. asures are propose	
Duration Application ranking	regenerated/rehabilitated to pre disturbance la No management controls and/or mitigation me with other existing or likely future activities are approximately 8 weeks Negligible	nd use. asures are propose	
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Duration Application ranking	regenerated/rehabilitated to pre disturbance la No management controls and/or mitigation me with other existing or likely future activities are approximately 8 weeks Negligible	and use. asures are proposed anticipated. Are further studies	d as no cumulative environmental effects
Duration Application ranking What is the confidence in predicting	regenerated/rehabilitated to pre disturbance la No management controls and/or mitigation me with other existing or likely future activities are approximately 8 weeks Negligible	and use. asures are proposed anticipated. Are further studies required on	d as no cumulative environmental effects
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Duration Application ranking What is the confidence in predicting impacts?	regenerated/rehabilitated to pre disturbance la No management controls and/or mitigation me with other existing or likely future activities are approximately 8 weeks Negligible High	Are further studies required on impacts or mitigation? What is the level of public	d as no cumulative environmental effects No
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Duration Application ranking What is the confidence in predicting impacts? How resilient is the environment to	regenerated/rehabilitated to pre disturbance la No management controls and/or mitigation me with other existing or likely future activities are approximately 8 weeks Negligible High	Are further studies required on impacts or mitigation? What is the level of public concern? Ranking of	d as no cumulative environmental effects No
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Duration Application ranking What is the confidence in predicting impacts? How resilient is the environment to cope with impacts? Can the impacts be reversed?	regenerated/rehabilitated to pre disturbance la No management controls and/or mitigation me with other existing or likely future activities are approximately 8 weeks Negligible High Medium Resilience	Are further studies required on impacts or mitigation? What is the level of public concern? Ranking of potential significance	No Uncertain Low

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