Tuesday 28 May 2024

Assessable Prospecting Operation Application Decision Briefing and Review of Environmental Factors

Lady Ilse North AC drilling | APO0001741

Decision Maker	Jenifa Richards
Prepared by	Marianne Bonnay
Title	EL 8357 (1992)
Authorised Representative	[redacted]
Project name	Lady Ilse North AC drilling
Activity type	Non-Complying Exploration Activity

Issue

[redacted] has sought an activity approval in respect of Lady Ilse North AC drilling, within EL 8357 (1992), at 'Lyndhurst' Saxa Road, 15km north of Wellington.

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 EL 8357 (granted 8/4/2015 & expiry 8/4/2027) to undertake assessable prospecting operations.

The current security deposit held for EL 8357 is $18,000.

This application forms part of the Lady Ilse Prospect exploration program.

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 Lady Ilse North AC drilling* 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 Lady Ilse North AC drilling is approved.

Refer to RCE Record RCE0001939

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 Lady Ilse North AC drilling* 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, Marianne Bonnay, 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 Lady Ilse North AC drilling 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 on nearby sensitive receptors).		
Potential impacts	600m from sensitive receivers. Impacts of dust and noise are minimised by, for example, distance from work activities, working during daylight hours and reducing speed on tracks, as well as good communications as applicable.		
Proposed management controls	activities must comply with title conditions and relevant codes of practice. (details need to be provided). impacts of any drilling limited to the immediate vicinity of drilling. all disturbed areas to be rehabilitated as soon as reasonably practicable following surface disturbance. 6am-6pm, 7 days per week- approval date (3 weeks) to 28 April 2026. Dust from AC drilling is captured in cyclones and dust suppression systems. Dust from tracks and access ways will be minimised by limiting vehicle speed.		
Duration	21 days		
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?**	Medium

Can the impacts be reversed?	Yes	**Ranking of potential significance**	Low
Can the impacts be mitigated?	Partly	**Justification for ranking**	
Do the operations comply with standards, plans, policies?	Yes		
Criteria	Air Impacts: Greenhouse or ozone impacts.		
Potential impacts	600m from sensitive receivers. Impacts of dust and noise are minimised by, for example, distance from work activities, working during daylight hours and reducing speed on tracks, as well as good communications as applicable.		
Proposed management controls	activities must comply with title conditions and relevant codes of practice. (details need to be provided). impacts of any drilling limited to the immediate vicinity of drilling. all disturbed areas to be rehabilitated as soon as reasonably practicable following surface disturbance. 6am-6pm, 7 days per week- approval date (3 weeks) to 28 April 2026. Dust from AC drilling is captured in cyclones and dust suppression systems. Dust from tracks and access ways will be minimised by limiting vehicle speed.		
Duration	21 days		
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?**	Low
Can the impacts be reversed?	Uncertain	**Ranking of potential significance**	Low
Can the impacts be mitigated?	Partly	**Justification for ranking**	
Do the operations comply with standards, plans, policies?	Yes		
Criteria	Air Impacts: Additional impacts on areas with degraded air quality.		
Potential impacts	600m from sensitive receivers. Impacts of dust and noise are minimised by, for example, distance from work activities, working during daylight hours and reducing speed on tracks, as well as good communications as applicable.		
Proposed management controls	activities must comply with title conditions and relevant codes of practice. (details need to be provided). impacts of any drilling limited to the immediate vicinity of drilling. all disturbed areas to be rehabilitated as soon as reasonably practicable following surface disturbance. 6am-6pm, 7 days per week- approval date (3 weeks) to 28 April 2026. Dust from AC drilling is captured in cyclones and dust suppression systems. Dust from tracks and access ways will be minimised by limiting vehicle speed.		
Duration	21 days		
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?**	Low
Can the impacts be reversed?	Yes	**Ranking of potential significance**	Low
Can the impacts be mitigated?	Partly	**Justification for ranking**	
Do the operations comply with standards, plans, policies?	Yes		
Criteria	Water Impacts: Impacts from the use of surface or groundwater.		
Potential impacts	water used for exploration not available for ecological, stock, domestic or irrigation purposes. surface runoff can be sediment laden. generally minimal surface water use (must be licensed or use of farm dams through landholder agreements). no use of groundwater but potential loss through produced water in drilling / deep excavation operations. interception, cross contamination and/or depressurisation of groundwater systems in drilling operations. Groundwater depressurisation effects on surface water. mobilisation of pollutants (such as hydrocarbons) in surface water or aquifers.		

Proposed management controls	No water used during drilling. All holes shallow (<40m) WATER MANAGEMENT: Above ground sumps may remain on-site for 1-2 weeks until disposal arranged. SW: The nearest watercourses are the ephemeral Bodangora Creek The proposed exploration activities will have minimal impact on this creek. GW: There are local farm wells and dams for stock water that are used by the local landholders. Water is of stock quality. Drilling water (~0.005 Mltr per day) is either purchased from a local supplier, or by agreement with the landholder. Total water use per year is estimated at up to 0.10 Mltr. Exploration use of groundwater is considered incidental and groundwater sources are unlikely to be affected by the activity. Magmatic's drilling contractors will use standard drilling techniques and biodegradable drilling additives to minimise use of water. Magmatic use local contractors to dispose of drilling water at a local licenced facility if required during drilling. Magmatic have a procedure SWMS 732 AC Drilling Operations Groundwater Vulnerability designed to assist with Groundwater management. That document has been submitted to Resources Regulator with this document (732 SWMS - Drill RigOperations_GroundwaterVulnerability.pdf)		
Duration	21 days		
Application ranking	Positive		
What is the confidence in predicting impacts?	High	**Are further studies required on impacts or mitigation?**	No
How resilient is the environment to cope with impacts?	Medium Resilience	**What is the level of public concern?**	Medium
Can the impacts be reversed?	Uncertain	**Ranking of potential significance**	Low
Can the impacts be mitigated?	Partly	**Justification for ranking**	
Do the operations comply with standards, plans, policies?	Yes		
Criteria	Water Impacts: Impacts from storage of water		
Potential impacts	water used for exploration not available for ecological, stock, domestic or irrigation purposes. surface runoff can be sediment laden. generally minimal surface water use (must be licensed or use of farm dams through landholder agreements). no use of groundwater but potential loss through produced water in drilling / deep excavation operations. interception, cross contamination and/or depressurisation of groundwater systems in drilling operations. Groundwater depressurisation effects on surface water. mobilisation of pollutants (such as hydrocarbons) in surface water or aquifers.		
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Application ranking	Positive		
What is the confidence in predicting impacts?	High	**Are further studies required on impacts or mitigation?**	No
How resilient is the environment to cope with impacts?	Medium Resilience	**What is the level of public concern?**	Medium

Can the impacts be reversed?	Uncertain	**Ranking of potential significance**	Low
Can the impacts be mitigated?	Partly	**Justification for ranking**	
Do the operations comply with standards, plans, policies?	Yes		
Criteria	Water Impacts: Impacts from changes to natural water bodies, wetlands or runoff patterns.		
Potential impacts	water used for exploration not available for ecological, stock, domestic or irrigation purposes. surface runoff can be sediment laden. generally minimal surface water use (must be licensed or use of farm dams through landholder agreements). no use of groundwater but potential loss through produced water in drilling / deep excavation operations. interception, cross contamination and/or depressurisation of groundwater systems in drilling operations. Groundwater depressurisation effects on surface water. mobilisation of pollutants (such as hydrocarbons) in surface water or aquifers.		
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Duration	21 days		
Application ranking	Positive		
What is the confidence in predicting impacts?	High	**Are further studies required on impacts or mitigation?**	No
How resilient is the environment to cope with impacts?	Medium Resilience	**What is the level of public concern?**	Medium
Can the impacts be reversed?	Uncertain	**Ranking of potential significance**	Low
Can the impacts be mitigated?	Partly	**Justification for ranking**	
Do the operations comply with standards, plans, policies?	Yes		
Criteria	Water Impacts: Impacts from aquifer interference, including changes to inter-aquifer connectivity.		
Potential impacts	water used for exploration not available for ecological, stock, domestic or irrigation purposes. surface runoff can be sediment laden. generally minimal surface water use (must be licensed or use of farm dams through landholder agreements). no use of groundwater but potential loss through produced water in drilling / deep excavation operations. interception, cross contamination and/or depressurisation of groundwater systems in drilling operations. Groundwater depressurisation effects on surface water. mobilisation of pollutants (such as hydrocarbons) in surface water or aquifers.		

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Application ranking	Positive		
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How resilient is the environment to cope with impacts?	Medium Resilience	**What is the level of public concern?**	Medium
Can the impacts be reversed?	Uncertain	**Ranking of potential significance**	Low
Can the impacts be mitigated?	Partly	**Justification for ranking**	
Do the operations comply with standards, plans, policies?	Yes		
Criteria	Water Impacts: Impacts from changes to flooding or tidal regimes.		
Potential impacts	water used for exploration not available for ecological, stock, domestic or irrigation purposes. surface runoff can be sediment laden. generally minimal surface water use (must be licensed or use of farm dams through landholder agreements). no use of groundwater but potential loss through produced water in drilling / deep excavation operations. interception, cross contamination and/or depressurisation of groundwater systems in drilling operations. Groundwater depressurisation effects on surface water. mobilisation of pollutants (such as hydrocarbons) in surface water or aquifers.		
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Can the impacts be reversed?	Uncertain	**Ranking of potential significance**	Low
Can the impacts be mitigated?	Partly	**Justification for ranking**	
Do the operations comply with standards, plans, policies?	Yes		
Criteria	Water Impacts: Impacts from changes in surface or groundwater quality and quantity.		
Potential impacts	water used for exploration not available for ecological, stock, domestic or irrigation purposes. surface runoff can be sediment laden. generally minimal surface water use (must be licensed or use of farm dams through landholder agreements). no use of groundwater but potential loss through produced water in drilling / deep excavation operations. interception, cross contamination and/or depressurisation of groundwater systems in drilling operations. Groundwater depressurisation effects on surface water. mobilisation of pollutants (such as hydrocarbons) in surface water or aquifers.		
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Duration	21 days		
Application ranking	Positive		
What is the confidence in predicting impacts?	High	**Are further studies required on impacts or mitigation?**	No
How resilient is the environment to cope with impacts?	Medium Resilience	**What is the level of public concern?**	Medium
Can the impacts be reversed?	Uncertain	**Ranking of potential significance**	Low
Can the impacts be mitigated?	Partly	**Justification for ranking**	
Do the operations comply with standards, plans, policies?	N/A		
Criteria	Soil & Stability Impacts: Degradation of soil quality (including contamination, salinisation or acidification).		
Potential impacts	soil compaction from construction/operations. activities on erosion prone areas and/or steeper slopes.		
Proposed management controls	minimising vegetation clearing and surface disturbance. preventing any land degradation or pollution/contamination of land or water. all sediment and erosion controls (including drainage from roads/access tracks) to be managed in accordance with relevant codes/standards/guidelines (details need to be provided). existing access tracks to be used/upgraded. The soil type is Ferrosol. Soil compacts when driven, or worked on. Magmatic work with the Landholder before, during and after drilling activities to ensure compaction is minimised, and soil conditioning, including ripping is completed as soon as practical after drilling activities are completed (if required). All previous experience with working with landholders and ripping or conditioning soil has been successful. Sites are monitored for erosional impacts. Ground is gently undulating to gently sloping and no erosion has been observed by previous Magmatic activity.		
Duration	21 days		
Application ranking	Positive		
What is the confidence in predicting impacts?	High	**Are further studies required on impacts or mitigation?**	No

How resilient is the environment to cope with impacts?	Medium Resilience	**What is the level of public concern?**	Low
Can the impacts be reversed?	Yes	**Ranking of potential significance**	Low
Can the impacts be mitigated?	Partly	**Justification for ranking**	
Do the operations comply with standards, plans, policies?	Yes		
Criteria	Soil & Stability Impacts: Impacts on land with high agricultural capability.		
Potential impacts	soil compaction from construction/operations. activities on erosion prone areas and/or steeper slopes.		
Proposed management controls	minimising vegetation clearing and surface disturbance. preventing any land degradation or pollution/contamination of land or water. all sediment and erosion controls (including drainage from roads/access tracks) to be managed in accordance with relevant codes/standards/guidelines (details need to be provided). existing access tracks to be used/upgraded. Strategic Agricultural Land- Level 2 -AIS response on 6/5/2024: "The assessment indicates that the proposal should not have adverse impacts on agricultural land use or production and any potential impacts can be managed as part of regular operations. It is recommended communication with landowner(s) is maintained regarding the timing and proximity of the drilling program to the local agricultural activities to ensure rehabilitation measures are adequate. DPI agriculture has no additional requirement for his proposal".		
Duration	21 days		
Application ranking	Positive		
What is the confidence in predicting impacts?	High	**Are further studies required on impacts or mitigation?**	No
How resilient is the environment to cope with impacts?	Medium Resilience	**What is the level of public concern?**	Medium
Can the impacts be reversed?	Yes	**Ranking of potential significance**	Medium
Can the impacts be mitigated?	Partly	**Justification for ranking**	
Do the operations comply with standards, plans, policies?	Yes	Drilling within BSAL. AIS level 2 completed.	
Criteria	Soil & Stability Impacts: Loss of soil from wind or water erosion.		
Potential impacts	soil compaction from construction/operations. activities on erosion prone areas and/or steeper slopes.		
Proposed management controls	minimising vegetation clearing and surface disturbance. preventing any land degradation or pollution/contamination of land or water. all sediment and erosion controls (including drainage from roads/access tracks) to be managed in accordance with relevant codes/standards/guidelines (details need to be provided). existing access tracks to be used/upgraded. Sites are monitored for erosional impacts. Ground is gently undulating to gently sloping and no erosion has been observed by previous Magmatic activity.		
Duration	21 days		
Application ranking	Positive		
What is the confidence in predicting impacts?	High	**Are further studies required on impacts or mitigation?**	No
How resilient is the environment to cope with impacts?	Medium Resilience	**What is the level of public concern?**	Low
Can the impacts be reversed?	No	**Ranking of potential significance**	Low
Can the impacts be mitigated?	Partly	**Justification for ranking**	
Do the operations comply with standards, plans, policies?	Yes		
Criteria	Soil & Stability Impacts: Loss of structural integrity of the soil.		
Potential impacts	soil compaction from construction/operations. activities on erosion prone areas and/or steeper slopes.		

Proposed management controls	minimising vegetation clearing and surface disturbance. preventing any land degradation or pollution/contamination of land or water. all sediment and erosion controls (including drainage from roads/access tracks) to be managed in accordance with relevant codes/standards/guidelines (details need to be provided). existing access tracks to be used/upgraded. The soil type is Ferrosol. Soil compacts when driven, or worked on. Magmatic work with the Landholder before, during and after drilling activities to ensure compaction is minimised, and soil conditioning, including ripping is completed as soon as practical after drilling activities are completed (if required). All previous experience with working with landholders and ripping or conditioning soil has been successful. Sites are monitored for erosional impacts. Ground is gently undulating to gently sloping and no erosion has been observed by previous Magmatic activity.		
Duration	21 days		
Application ranking	Positive		
What is the confidence in predicting impacts?	High	**Are further studies required on impacts or mitigation?**	No
How resilient is the environment to cope with impacts?	Medium Resilience	**What is the level of public concern?**	Low
Can the impacts be reversed?	Yes	**Ranking of potential significance**	Low
Can the impacts be mitigated?	Partly	**Justification for ranking**	
Do the operations comply with standards, plans, policies?	Yes		
Criteria	Soil & Stability Impacts: Increased land instability with high risks from land slides or subsidence.		
Potential impacts	soil compaction from construction/operations. activities on erosion prone areas and/or steeper slopes.		
Proposed management controls	minimising vegetation clearing and surface disturbance. preventing any land degradation or pollution/contamination of land or water. all sediment and erosion controls (including drainage from roads/access tracks) to be managed in accordance with relevant codes/standards/guidelines (details need to be provided). existing access tracks to be used/upgraded. Sites are monitored for erosional impacts. Ground is gently undulating to gently sloping and no erosion has been observed by previous Magmatic activity.		
Duration	21 days		
Application ranking	Positive		
What is the confidence in predicting impacts?	High	**Are further studies required on impacts or mitigation?**	No
How resilient is the environment to cope with impacts?	Medium Resilience	**What is the level of public concern?**	Low
Can the impacts be reversed?	Uncertain	**Ranking of potential significance**	Low
Can the impacts be mitigated?	Partly	**Justification for ranking**	
Do the operations comply with standards, plans, policies?	Yes		
Criteria	Noise & Vibration Impacts: Results in increased noise or vibration.		
Potential impacts	noise from vehicles, drilling rigs, plant and machinery impacting on nearby sensitive receivers, such as residences, educational establishments, medical facilities, places of worship, animal boarding/training establishments, intensive livestock agriculture, etc.		

Proposed management controls	implementing all practicable measures to ensure noise levels meet acceptable criteria for sensitive receivers (details to be provided). TIMING/NOISE: 6am-6pm, 7 days per week- approval date (3 weeks) to 28 April 2026. Noise will consist of motors from the drilling rig. AC drilling will only be active on day shift. Landholders will be advised and consulted with over noise emissions and a number to call if excessive. Noise emissions will be regularly monitored and discussed with local farm residents as required. These holes will be drilled on day shift only. The nearest holes are around 500m from houses and holes will be moved as required to minimise noise. Magmatic will work closely with any affected residents to work to daytime only if required. Modern rig engine is well insulated, and noise is minimal. No night-shift is required.		
Duration	21 days		
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?	LowResilience	**What is the level of public concern?**	Medium
Can the impacts be reversed?	Yes	**Ranking of potential significance**	Low
Can the impacts be mitigated?	Partly	**Justification for ranking**	
Do the operations comply with standards, plans, policies?	Yes		
Criteria	Noise & Vibration Impacts: Affects sensitive receptors.		
Potential impacts	noise from vehicles, drilling rigs, plant and machinery impacting on nearby sensitive receivers, such as residences, educational establishments, medical facilities, places of worship, animal boarding/training establishments, intensive livestock agriculture, etc.		
Proposed management controls	implementing all practicable measures to ensure noise levels meet acceptable criteria for sensitive receivers (details to be provided). TIMING/NOISE: 6am-6pm, 7 days per week- approval date (3 weeks) to 28 April 2026. Noise will consist of motors from the drilling rig. AC drilling will only be active on day shift. Landholders will be advised and consulted with over noise emissions and a number to call if excessive. Noise emissions will be regularly monitored and discussed with local farm residents as required. These holes will be drilled on day shift only. The nearest holes are around 500m from houses and holes will be moved as required to minimise noise. Magmatic will work closely with any affected residents to work to daytime only if required. Modern rig engine is well insulated, and noise is minimal. No night-shift is required.		
Duration	21 days		
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?	LowResilience	**What is the level of public concern?**	Medium
Can the impacts be reversed?	Yes	**Ranking of potential significance**	Low
Can the impacts be mitigated?	Partly	**Justification for ranking**	
Do the operations comply with standards, plans, policies?	Yes		
Criteria	Coastal Location & Processes: Affects coastal processes and coastal hazards, including those under projected climate change conditions.		
Potential impacts	Nil - It's on a farm 100's km from coast		
Proposed management controls	Avoid the coastal environment		
Duration	21 days		
Application ranking	Positive		

What is the confidence in predicting impacts?	N/A	**Are further studies required on impacts or mitigation?**	N/A
How resilient is the environment to cope with impacts?	N/A	**What is the level of public concern?**	N/A
Can the impacts be reversed?	N/A	**Ranking of potential significance**	Low
Can the impacts be mitigated?	N/A	**Justification for ranking**	
Do the operations comply with standards, plans, policies?	N/A		
Criteria	Hazardous substances or chemicals: Impacts associated with the use, generation, storage or transport of hazardous substances or chemicals.		
Potential impacts	mobilisation of pollutants (such as hydrocarbons) in soils or waters. inappropriate disposal of drilling wastes/overflow from drilling sumps.		
Proposed management controls	Transport and storage as per manufacturers recommendation and best practise CHEMICAL: Drilling chemicals will be handled and used as per the manufacturer's instructions. All drilling chemicals will be stored in bunded areas. Empty containers will be disposed of at licenced waste facilities. Bulk hydrocarbons will be transported in suitable containers.		
Duration	21 days		
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?**	Low
Can the impacts be reversed?	Yes	**Ranking of potential significance**	Low
Can the impacts be mitigated?	Partly	**Justification for ranking**	
Do the operations comply with standards, plans, policies?	Yes		
Criteria	Wastes & Emissions: Impacts to the environment resulting from the generation or disposal of wastes.		
Potential impacts	mobilisation of pollutants (such as hydrocarbons) in soils, air or waters. inappropriate disposal of drilling wastes / overflow from drilling sumps.		
Proposed management controls	Use of hydrocarbon spill kit, Suitable transport and storage of chemicals and fuel. WASTE: All exploration-related waste will be collected and disposed of at a licenced waste facility. Contractors are required to manage their drilling-related waste. AC drill cutting are collected in plastic bags. This would be about 5-10kg per metre. This material is disposed of at a licenced waste facility.		
Duration	21 days		
Application ranking	Negligible		
What is the confidence in predicting impacts?	High	**Are further studies required on impacts or mitigation?**	N/A
How resilient is the environment to cope with impacts?	Medium Resilience	**What is the level of public concern?**	Low
Can the impacts be reversed?	Uncertain	**Ranking of potential significance**	Low
Can the impacts be mitigated?	Partly	**Justification for ranking**	
Do the operations comply with standards, plans, policies?	Yes		
Criteria	Wastes & Emissions: Impacts on drinking water catchments, wetlands, natural water bodies, riparian zones or flood prone areas.		

Potential impacts	WATER MANAGEMENT: Above ground sumps may remain on-site for 1-2 weeks until disposal arranged. SW: The nearest watercourses are the ephemeral Bodangora Creek The proposed exploration activities will have minimal impact on this creek. GW: There are local farm wells and dams for stock water that are used by the local landholders. Water is of stock quality. Drilling water (~0.005 Mltr per day) is either purchased from a local supplier, or by agreement with the landholder. Total water use per year is estimated at up to 0.10 Mltr. Exploration use of groundwater is considered incidental and groundwater sources are unlikely to be affected by the activity. Magmatic's drilling contractors will use standard drilling techniques and biodegradable drilling additives to minimise use of water. Magmatic use local contractors to dispose of drilling water at a local licenced facility if required during drilling. Magmatic have a procedure SWMS 732 AC Drilling Operations Groundwater Vulnerability designed to assist with Groundwater management. That document has been submitted to Resources Regulator with this document (732 SWMS - Drill RigOperations_GroundwaterVulnerability.pdf)		
Proposed management controls	Use of hydrocarbon spill kit, Suitable transport and storage of chemicals and fuel		
Duration	21 days		
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?**	Low
Can the impacts be reversed?	Uncertain	**Ranking of potential significance**	Low
Can the impacts be mitigated?	Partly	**Justification for ranking**	
Do the operations comply with standards, plans, policies?	Yes		
Criteria	Wastes & Emissions: Impacts on groundwater recharge areas or areas with high water table.		
Potential impacts	WATER MANAGEMENT: Above ground sumps may remain on-site for 1-2 weeks until disposal arranged. GW: There are local farm wells and dams for stock water that are used by the local landholders. Water is of stock quality. Drilling water (~0.005 Mltr per day) is either purchased from a local supplier, or by agreement with the landholder. Total water use per year is estimated at up to 0.10 Mltr. Exploration use of groundwater is considered incidental and groundwater sources are unlikely to be affected by the activity. Magmatic's drilling contractors will use standard drilling techniques and biodegradable drilling additives to minimise use of water. Magmatic use local contractors to dispose of drilling water at a local licenced facility if required during drilling. Magmatic have a procedure SWMS 732 AC Drilling Operations Groundwater Vulnerability designed to assist with Groundwater management. That document has been submitted to Resources Regulator with this document (732 SWMS - Drill RigOperations_GroundwaterVulnerability.pdf)		
Proposed management controls	Use of hydrocarbon spill kit, Suitable transport and storage of chemicals and fuel		
Duration	21 days		
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?**	Low
Can the impacts be reversed?	Uncertain	**Ranking of potential significance**	Low
Can the impacts be mitigated?	Partly	**Justification for ranking**	
Do the operations comply with standards, plans, policies?	Yes		
Criteria	Wastes and Emissions: Impacts on coastlines or dunes, alpine areas, karst features or other unique landforms.		
Potential impacts	N/A		
Proposed management controls	N/A		
Duration	N/A		
Application ranking	N/A		

What is the confidence in predicting impacts?	N/A	**Are further studies required on impacts or mitigation?**	N/A
How resilient is the environment to cope with impacts?	N/A	**What is the level of public concern?**	N/A
Can the impacts be reversed?	N/A	**Ranking of potential significance**	N/A
Can the impacts be mitigated?	N/A	**Justification for ranking**	
Do the operations comply with standards, plans, policies?	N/A		
Criteria	Wastes & Emissions: Impacts on erosion prone areas, areas with slopes 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 impacts?	N/A	**Are further studies required on impacts or mitigation?**	N/A
How resilient is the environment to cope with impacts?	N/A	**What is the level of public concern?**	N/A
Can the impacts be reversed?	N/A	**Ranking of potential significance**	N/A
Can the impacts be mitigated?	N/A	**Justification for ranking**	
Do the operations comply with standards, plans, policies?	N/A		
Criteria	Wastes & Emissions: Impacts on subsidence or slip areas.		
Potential impacts	Ground is gently undulating to gently sloping and no erosion has been observed by previous Magmatic activity.		
Proposed management controls	Use of hydrocarbon spill kit, Suitable transport and storage of chemicals and fuel		
Duration	21 days		
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?**	Low
Can the impacts be reversed?	Uncertain	**Ranking of potential significance**	Low
Can the impacts be mitigated?	Partly	**Justification for ranking**	
Do the operations comply with standards, plans, policies?	Yes		
Criteria	Wastes & Emissions: Impacts on areas with acid sulphate, sodic or highly permeable soils.		
Potential impacts	The soil type is Ferrosol. Soil compacts when driven, or worked on.		
Proposed management controls	Magmatic work with the Landholder before, during and after drilling activities to ensure compaction is minimised, and soil conditioning, including ripping is completed as soon as practical after drilling activities are completed (if required). All previous experience with working with landholders and ripping or conditioning soil has been successful.		
Duration	21 days		
Application ranking			
What is the confidence in predicting impacts?	High	**Are further studies required on impacts or mitigation?**	No
How resilient is the environment to cope with impacts?	Medium Resilience	**What is the level of public concern?**	Low

Can the impacts be reversed?	Uncertain	**Ranking of potential significance**	Low
Can the impacts be mitigated?	Partly	**Justification for ranking**	
Do the operations comply with standards, plans, policies?	Yes		
Criteria	Wastes & Emissions: Impacts on areas with salinity or potential salinity problems.		
Potential impacts	GW: There are local farm wells and dams for stock water that are used by the local landholders. Water is of stock quality. Drilling water (~0.005 Mltr per day) is either purchased from a local supplier, or by agreement with the landholder. Total water use per year is estimated at up to 0.10 Mltr. Exploration use of groundwater is considered incidental and groundwater sources are unlikely to be affected by the activity. Magmatic's drilling contractors will use standard drilling techniques and biodegradable drilling additives to minimise use of water. Magmatic use local contractors to dispose of drilling water at a local licenced facility if required during drilling. Magmatic have a procedure SWMS 732 AC Drilling Operations Groundwater Vulnerability designed to assist with Groundwater management. That document has been submitted to Resources Regulator with this document (732 SWMS - Drill RigOperations_GroundwaterVulnerability.pdf)		
Proposed management controls	Use of hydrocarbon spill kit, Suitable transport and storage of chemicals and fuel		
Duration	21 days		
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?**	Low
Can the impacts be reversed?	Uncertain	**Ranking of potential significance**	Low
Can the impacts be mitigated?	Partly	**Justification for ranking**	
Do the operations comply with standards, plans, policies?	Yes		
Criteria	Wastes & Emissions: Impacts on areas with degraded or contaminated land.		
Potential impacts	The soil type is Ferrosol. Soil compacts when driven, or worked on. Magmatic work with the Landholder before, during and after drilling activities to ensure compaction is minimised, and soil conditioning, including ripping is completed as soon as practical after drilling activities are completed (if required). All previous experience with working with landholders and ripping or conditioning soil has been successful. Sites are monitored for erosional impacts. Ground is gently undulating to gently sloping and no erosion has been observed by previous Magmatic activity.		
Proposed management controls	Use of hydrocarbon spill kit, Suitable transport and storage of chemicals and fuel		
Duration	21 days		
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?**	Low
Can the impacts be reversed?	Uncertain	**Ranking of potential significance**	Low
Can the impacts be mitigated?	No	**Justification for ranking**	
Do the operations comply with standards, plans, policies?	Yes		
Criteria	Wastes & Emissions: Impacts on areas with degraded or contaminated water (ground or surface).		

Potential impacts	WATER MANAGEMENT: Above ground sumps may remain on-site for 1-2 weeks until disposal arranged. SW: The nearest watercourses are the ephemeral Bodangora Creek The proposed exploration activities will have minimal impact on this creek. GW: There are local farm wells and dams for stock water that are used by the local landholders. Water is of stock quality. Drilling water (~0.005 Mltr per day) is either purchased from a local supplier, or by agreement with the landholder. Total water use per year is estimated at up to 0.10 Mltr. Exploration use of groundwater is considered incidental and groundwater sources are unlikely to be affected by the activity. Magmatic's drilling contractors will use standard drilling techniques and biodegradable drilling additives to minimise use of water. Magmatic use local contractors to dispose of drilling water at a local licenced facility if required during drilling. Magmatic have a procedure SWMS 732 AC Drilling Operations Groundwater Vulnerability designed to assist with Groundwater management. That document has been submitted to Resources Regulator with this document (732 SWMS - Drill RigOperations_GroundwaterVulnerability.pdf)		
Proposed management controls	Use of hydrocarbon spill kit, Suitable transport and storage of chemicals and fuel		
Duration	21 days		
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?**	Low
Can the impacts be reversed?	Uncertain	**Ranking of potential significance**	Low
Can the impacts be mitigated?	Partly	**Justification for ranking**	
Do the operations comply with standards, plans, policies?	Yes		
Criteria	Vegetation: Any clearing or modification of vegetation (including impacts on wildlife corridors, remnant vegetation & habitat for species of conservation significance).		
Potential impacts	No clearing required		
Proposed management controls	DISTURBANCE: 220sqm. 3XEAs proposed within CAN420 with ROCCs provided. LANDUSE: The land is used for cropping and grazing. Magmatic work closely with the Landholder to minimise the impact of exploration activities on farm activities. When and where required, Magmatic work around the Landholders farm schedule to minimise disruption to farming activities. PHOTOS: Photos site 1, site 2, site 3 and site 4: Bare crop area. Flat. Photos site 5, site 6, site 8: Fence, crop/grass. Flat. Photos site 7, 9, 10, 11 and 12: Grass/crop. Flat		
Duration	21 days		
Application ranking	Positive		
What is the confidence in predicting impacts?	High	**Are further studies required on impacts or mitigation?**	No
How resilient is the environment to cope with impacts?	Medium Resilience	**What is the level of public concern?**	Low
Can the impacts be reversed?	Yes	**Ranking of potential significance**	Low
Can the impacts be mitigated?	Partly	**Justification for ranking**	
Do the operations comply with standards, plans, policies?	Yes		
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.		
Potential impacts	Exploration activities are on cleared farm paddocks.		

Proposed management controls	We will keep an eye out for animals. There are no threatened plants as this is cropping country. MNES Close to PCT: Western Grey Box tall grassy woodland on alluvial loam and clay soils in the NSW South Western Slopes and Riverina Bioregions- endangered likely to occur. White Box-Yellow Box-Blakely's Red Gum Grassy Woodland and Derived Native Grassland- critically endangered likely to occur Induction documents provided: LADY ILSE AC Drillllllllling Induction Addendum- MATTERS OF NATIONAL ENVIRONMENTAL SIGNIFICANCE and ENDANGERED SPECIES 26/4/2024 ENDANGERED SPECIES Regent Honeyeater- Critically Endangered- likely South-eastern Hooded Robin, Hooded Robin (south-eastern)- Endangered- likely Australian Painted Snipe- Endangered- likely		
Duration	21 days		
Application ranking	Positive		
What is the confidence in predicting impacts?	High	**Are further studies required on impacts or mitigation?**	No
How resilient is the environment to cope with impacts?	Medium Resilience	**What is the level of public concern?**	Medium
Can the impacts be reversed?	Uncertain	**Ranking of potential significance**	Low
Can the impacts be mitigated?	Partly	**Justification for ranking**	
Do the operations comply with standards, plans, policies?	Yes		
Criteria	Threatened Flora Species: Any adverse effect on the life cycle of any threatened species such that a viable local population of the species is likely to be placed at risk of extinction.		
Potential impacts	Exploration activities are on cleared farm paddocks.		
Proposed management controls	We will keep an eye out for animals. There are no threatened plants as this is cropping country. MNES Close to PCT: Western Grey Box tall grassy woodland on alluvial loam and clay soils in the NSW South Western Slopes and Riverina Bioregions- endangered likely to occur. White Box-Yellow Box-Blakely's Red Gum Grassy Woodland and Derived Native Grassland- critically endangered likely to occur Induction documents provided: LADY ILSE AC Drillllllllling Induction Addendum- MATTERS OF NATIONAL ENVIRONMENTAL SIGNIFICANCE and ENDANGERED SPECIES 26/4/2024 ENDANGERED SPECIES Regent Honeyeater- Critically Endangered- likely South-eastern Hooded Robin, Hooded Robin (south-eastern)- Endangered- likely Australian Painted Snipe- Endangered- likely		
Duration	21 days		
Application ranking	Positive		
What is the confidence in predicting impacts?	High	**Are further studies required on impacts or mitigation?**	No
How resilient is the environment to cope with impacts?	Medium Resilience	**What is the level of public concern?**	Medium
Can the impacts be reversed?	No	**Ranking of potential significance**	Low
Can the impacts be mitigated?	Partly	**Justification for ranking**	
Do the operations comply with standards, plans, policies?	Yes		
Criteria	Areas of outstanding biodiversity value/Critical habitat: This includes: a. declared areas of outstanding biodiversity value under the Biodiversity Conservation Act 2016 b. areas declared critical habitat under the Fisheries Management Act 1994.		
Potential impacts	Nil NOTE: Close to PCT: Western Grey Box tall grassy woodland on alluvial loam and clay soils in the NSW South Western Slopes and Riverina Bioregions- endangered likely to occur.		
Proposed management controls	Bushfire risk assessed in conjunction with weather conditions and discussion with Landholder. All vehicles washed down and inspected prior to arrival at site		
Duration	21 days		

Application ranking	Negligible		
What is the confidence in predicting impacts?	High	**Are further studies required on impacts or mitigation?**	N/A
How resilient is the environment to cope with impacts?	Medium Resilience	**What is the level of public concern?**	Low
Can the impacts be reversed?	Uncertain	**Ranking of potential significance**	Low
Can the impacts be mitigated?	Partly	**Justification for ranking**	
Do the operations comply with standards, plans, policies?	N/A		
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	MNES Close to PCT: Western Grey Box tall grassy woodland on alluvial loam and clay soils in the NSW South Western Slopes and Riverina Bioregions- endangered likely to occur. White Box-Yellow Box-Blakely's Red Gum Grassy Woodland and Derived Native Grassland- critically endangered likely to occur Induction documents provided: LADY ILSE AC Drilling Induction Addendum- MATTERS OF NATIONAL ENVIRONMENTAL SIGNIFICANCE and ENDANGERED SPECIES 26/4/2024 ENDANGERED SPECIES Regent Honeyeater- Critically Endangered- likely South-eastern Hooded Robin, Hooded Robin (south-eastern)- Endangered- likely Australian Painted Snipe- Endangered- likely		
Proposed management controls	Induction documents provided: LADY ILSE AC Drilling Induction Addendum- MATTERS OF NATIONAL ENVIRONMENTAL SIGNIFICANCE and ENDANGERED SPECIES 26/4/2024		
Duration	21 days		
Application ranking	Positive		
What is the confidence in predicting impacts?	High	**Are further studies required on impacts or mitigation?**	No
How resilient is the environment to cope with impacts?	LowResilience	**What is the level of public concern?**	Medium
Can the impacts be reversed?	No	**Ranking of potential significance**	Medium
Can the impacts be mitigated?	Partly	**Justification for ranking**	
Do the operations comply with standards, plans, policies?	Yes	Disturbing species.	
Criteria	Habitat of a threatened species or ecological community		
Potential impacts	NOTE: MNES Close to PCT: Western Grey Box tall grassy woodland on alluvial loam and clay soils in the NSW South Western Slopes and Riverina Bioregions- endangered likely to occur. White Box-Yellow Box-Blakely's Red Gum Grassy Woodland and Derived Native Grassland- critically endangered likely to occur Induction documents provided: LADY ILSE AC Drilling Induction Addendum- MATTERS OF NATIONAL ENVIRONMENTAL SIGNIFICANCE and ENDANGERED SPECIES 26/4/2024 ENDANGERED SPECIES Regent Honeyeater- Critically Endangered- likely South-eastern Hooded Robin, Hooded Robin (south-eastern)- Endangered- likely Australian Painted Snipe- Endangered- likely		
Proposed management controls	Nil Induction documents provided: LADY ILSE AC Drilling Induction Addendum- MATTERS OF NATIONAL ENVIRONMENTAL SIGNIFICANCE and ENDANGERED SPECIES 26/4/2024		
Duration	21 days		
Application ranking	Positive		

What is the confidence in predicting impacts?	High	**Are further studies required on impacts or mitigation?**	No
How resilient is the environment to cope with impacts?	LowResilience	**What is the level of public concern?**	Medium
Can the impacts be reversed?	Uncertain	**Ranking of potential significance**	Medium
Can the impacts be mitigated?	Partly	**Justification for ranking**	
Do the operations comply with standards, plans, policies?	Yes	Disturbance of species.	
Criteria	Habitat of protected aquatic species or those with conservation status.		
Potential impacts	Nil		
Proposed management controls	Nil		
Duration	21 days		
Application ranking	Positive		
What is the confidence in predicting impacts?	N/A	**Are further studies required on impacts or mitigation?**	N/A
How resilient is the environment to cope with impacts?	N/A	**What is the level of public concern?**	N/A
Can the impacts be reversed?	N/A	**Ranking of potential significance**	Low
Can the impacts be mitigated?	N/A	**Justification for ranking**	
Do the operations comply with standards, plans, policies?	N/A		
Criteria	Key Threatening Processes: As outlined in Schedule 4 of Biodiversity Conservation Act 2016. Includes: a. alteration, removal, clearly or degradation of habitat and native vegetation b. loss of hollow bearing trees c. removal of dead wood and dead trees d. invasion and establishment of exotic species.		
Potential impacts	DISTURBANCE: 220sqm. 3XEAs proposed within CAN420 with ROCCs provided. LANDUSE: The land is used for cropping and grazing. Magmatic work closely with the Landholder to minimise the impact of exploration activities on farm activities. When and where required, Magmatic work around the Landholders farm schedule to minimise disruption to farming activities. PHOTOS: Photos site 1, site 2, site 3 and site 4: Bare crop area. Flat. Photos site 5, site 6, site 8: Fence, crop/grass. Flat. Photos site 7, 9, 10, 11 and 12: Grass/crop. Flat		
Proposed management controls	Farmland. If required, animals will move around us or move in the evening/ nightime. Farmland, so fenced paddocks.		
Duration	21 days		
Application ranking	Positive		
What is the confidence in predicting impacts?	High	**Are further studies required on impacts or mitigation?**	No
How resilient is the environment to cope with impacts?	Medium Resilience	**What is the level of public concern?**	Low
Can the impacts be reversed?	Yes	**Ranking of potential significance**	Low
Can the impacts be mitigated?	Partly	**Justification for ranking**	
Do the operations comply with standards, plans, policies?	Yes		
Criteria	Barriers to movement of fauna: Any potential to endanger, displace or disturb fauna (including fauna of conservation significance) or create a barrier to their movement.		

Potential impacts	DISTURBANCE: 220sqm. 3XEAs proposed within CAN420 with ROCCs provided. LANDUSE: The land is used for cropping and grazing. Magmatic work closely with the Landholder to minimise the impact of exploration activities on farm activities. When and where required, Magmatic work around the Landholders farm schedule to minimise disruption to farming activities. PHOTOS: Photos site 1, site 2, site 3 and site 4: Bare crop area. Flat. Photos site 5, site 6, site 8: Fence, crop/grass. Flat. Photos site 7, 9, 10, 11 and 12: Grass/crop. Flat		
Proposed management controls	Farmland. If required, animals will move around us or move in the evening/ nightime. Farmland, so fenced paddocks.		
Duration	21 days		
Application ranking	Positive		
What is the confidence in predicting impacts?	High	**Are further studies required on impacts or mitigation?**	No
How resilient is the environment to cope with impacts?	High Resilience	**What is the level of public concern?**	Low
Can the impacts be reversed?	Yes	**Ranking of potential significance**	Low
Can the impacts be mitigated?	Partly	**Justification for ranking**	
Do the operations comply with standards, plans, policies?	Yes		
Criteria	Ecological & Biosecurity Impacts: Any threat to the biological diversity or ecological integrity of an ecological community.		
Potential impacts	Bushfire risk assessed in conjunction with weather conditions and discussion with Landholder. All vehicles washed down and inspected prior to arrival at site.		
Proposed management controls	Bushfire risk assessed in conjunction with weather conditions and discussion with Landholder. All vehicles washed down and inspected prior to arrival at site		
Duration	21 days		
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?	LowResilience	**What is the level of public concern?**	Medium
Can the impacts be reversed?	No	**Ranking of potential significance**	Medium
Can the impacts be mitigated?	Partly	**Justification for ranking**	
Do the operations comply with standards, plans, policies?	Yes	Bushfire extending to the all area.	
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	Bushfire risk assessed in conjunction with weather conditions and discussion with Landholder. All vehicles washed down and inspected prior to arrival at site.		
Proposed management controls	Bushfire risk assessed in conjunction with weather conditions and discussion with Landholder. All vehicles washed down and inspected prior to arrival at site		
Duration	21 days		
Application ranking	Negligible		
What is the confidence in predicting impacts?	High	**Are further studies required on impacts or mitigation?**	N/A
How resilient is the environment to cope with impacts?	Medium Resilience	**What is the level of public concern?**	Low
Can the impacts be reversed?	Uncertain	**Ranking of potential significance**	Low

Can the impacts be mitigated?	No	**Justification for ranking**	
Do the operations comply with standards, plans, policies?	Yes		
Criteria	Ecological & Biosecurity Impacts: Likely to cause a significant bushfire risk.		
Potential impacts	Bushfire risk assessed in conjunction with weather conditions and discussion with Landholder. All vehicles washed down and inspected prior to arrival at site.		
Proposed management controls	Bushfire risk assessed in conjunction with weather conditions and discussion with Landholder. All vehicles washed down and inspected prior to arrival at site		
Duration	21 days		
Application ranking	Negligible		
What is the confidence in predicting impacts?	High	**Are further studies required on impacts or mitigation?**	N/A
How resilient is the environment to cope with impacts?	LowResilience	**What is the level of public concern?**	Medium
Can the impacts be reversed?	No	**Ranking of potential significance**	Medium
Can the impacts be mitigated?	Partly	**Justification for ranking**	
Do the operations comply with standards, plans, policies?	N/A	Bushfire extending to the all area.	
Criteria	Community Resources: Any degradation of infrastructure or significant increase in the demand for services and infrastructure resources.		
Potential impacts	ACCESS: Access around the property will be via established farm tracks or short access across paddocks, if required. No earthmoving equipment is required for site preparation as the land is all cleared gently undulating farmland with some low hills.		
Proposed management controls	ACCESS: Access around the property will be via established farm tracks or short access across paddocks, if required. No earthmoving equipment is required for site preparation as the land is all cleared gently undulating farmland with some low hills.		
Duration	21 days		
Application ranking	Positive		
What is the confidence in predicting impacts?	High	**Are further studies required on impacts or mitigation?**	No
How resilient is the environment to cope with impacts?	High Resilience	**What is the level of public concern?**	Low
Can the impacts be reversed?	Yes	**Ranking of potential significance**	Low
Can the impacts be mitigated?	Partly	**Justification for ranking**	
Do the operations comply with standards, plans, policies?	Yes		
Criteria	Community Resources: Any diversion of resources to the detriment of other communities or natural systems.		
Potential impacts	ACCESS: Access around the property will be via established farm tracks or short access across paddocks, if required. No earthmoving equipment is required for site preparation as the land is all cleared gently undulating farmland with some low hills.		
Proposed management controls	Short duration program, work with farmer, avoid trees. Post-drilling: After drilling a site inspection will be completed to ensure all rubbish or equipment has been removed. Above ground sumps may remain on-site for 1-2 weeks until disposal arranged. Rehabilitation: At the completion of drilling and assay results returned (approx 8 weeks), the site and tracks will be rehabilitated by ripping, collar plugged and cut and all rubbish and drill cuttings will be removed. ROCC document provided. DISTURBANCE: 220sqm. 3XEAs proposed within CAN420 with ROCCs provided.		
Duration	21 days		
Application ranking			
What is the confidence in predicting impacts?	High	**Are further studies required on impacts or mitigation?**	N/A

How resilient is the environment to cope with impacts?	Medium Resilience	**What is the level of public concern?**	Low
Can the impacts be reversed?	Yes	**Ranking of potential significance**	Low
Can the impacts be mitigated?	No	**Justification for ranking**	
Do the operations comply with standards, plans, policies?	N/A		
Criteria	Natural Resources: Any disruption, depletion or destruction of natural resources.		
Potential impacts	Short duration program. LANDUSE: The land is used for cropping and grazing. Magmatic work closely with the Landholder to minimise the impact of exploration activities on farm activities. When and where required, Magmatic work around the Landholders farm schedule to minimise disruption to farming activities.		
Proposed management controls	Short duration program, work with farmer, avoid trees		
Duration	21 days		
Application ranking	Negligible		
What is the confidence in predicting impacts?	High	**Are further studies required on impacts or mitigation?**	N/A
How resilient is the environment to cope with impacts?	Medium Resilience	**What is the level of public concern?**	Low
Can the impacts be reversed?	Yes	**Ranking of potential significance**	Low
Can the impacts be mitigated?	Partly	**Justification for ranking**	
Do the operations comply with standards, plans, policies?	Yes		
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	Work with farmer to minimise impact on farming activities. LANDUSE: The land is used for cropping and grazing. Magmatic work closely with the Landholder to minimise the impact of exploration activities on farm activities. When and where required, Magmatic work around the Landholders farm schedule to minimise disruption to farming activities. Strategic Agricultural Land- Level 2 -AIS response on 6/5/2024: "The assessment indicates that the proposal should not have adverse impacts on agricultural land use or production and any potential impacts can be managed as part of regular operations. It is recommended communication with landowner(s) is maintained regarding the timing and proximity of the drilling program to the local agricultural activities to ensure rehabilitation measures are adequate. DPI agriculture has no additional requirement for his proposal".		
Proposed management controls	Short duration program, work with farmer, avoid trees. Post-drilling: After drilling a site inspection will be completed to ensure all rubbish or equipment has been removed. Above ground sumps may remain on-site for 1-2 weeks until disposal arranged. Rehabilitation: At the completion of drilling and assay results returned (approx 8 weeks), the site and tracks will be rehabilitated by ripping, collar plugged and cut and all rubbish and drill cuttings will be removed. ROCC document provided.		
Duration	21 days		
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?**	Medium
Can the impacts be reversed?	Yes	**Ranking of potential significance**	Medium
Can the impacts be mitigated?	Partly	**Justification for ranking**	
Do the operations comply with standards, plans, policies?	Yes	BSAL	
Criteria	Natural Resources: Any use which results in the degradation of any area reserved for conservation purposes.		
Potential impacts	Nil		
Proposed management controls	Short duration program, work with farmer, avoid trees		
Duration	21 days		

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

What is the confidence in predicting impacts?	N/A	**Are further studies required on impacts or mitigation?**	N/A
How resilient is the environment to cope with impacts?	N/A	**What is the level of public concern?**	N/A
Can the impacts be reversed?	N/A	**Ranking of potential significance**	N/A
Can the impacts be mitigated?	N/A	**Justification for ranking**	
Do the operations comply with standards, plans, policies?	N/A		
Criteria	Sensitive Land Impacts: Fishing grounds and commercial fish breeding or nursery areas.		
Potential impacts	Nil		
Proposed management controls	Short duration program, work with farmer, avoid trees		
Duration	21 days		
Application ranking	Negligible		
What is the confidence in predicting impacts?	N/A	**Are further studies required on impacts or mitigation?**	N/A
How resilient is the environment to cope with impacts?	N/A	**What is the level of public concern?**	N/A
Can the impacts be reversed?	N/A	**Ranking of potential significance**	Low
Can the impacts be mitigated?	N/A	**Justification for ranking**	
Do the operations comply with standards, plans, policies?	N/A		
Criteria	Sensitive Land Impacts: Impacts on other sensitive lands including: a. Land within a state forest set aside under the Forestry Act 2012 for conservation values. This includes flora reserves and special management (and other) zones. b. Drinking water catchment protection areas - land declared to be a 'controlled area' or a 'special area' under the Water NSW Act 2014, or a 'special area' under the Water Management Act 2000 or Hunter Water Act 1991. c. Waterfront land as defined under the Water Management Act 2000.		
Potential impacts	NOTE: SEED shows project Ground water Vulnerability		
Proposed management controls	Short duration program, work with farmer, avoid trees WATER MANAGEMENT: Above ground sumps may remain on-site for 1-2 weeks until disposal arranged. SW: The nearest watercourses are the ephemeral Bodangora Creek The proposed exploration activities will have minimal impact on this creek. GW: There are local farm wells and dams for stock water that are used by the local landholders. Water is of stock quality. Drilling water (~0.005 Mltr per day) is either purchased from a local supplier, or by agreement with the landholder. Total water use per year is estimated at up to 0.10 Mltr. Exploration use of groundwater is considered incidental and groundwater sources are unlikely to be affected by the activity. Magmatic's drilling contractors will use standard drilling techniques and biodegradable drilling additives to minimise use of water. Magmatic use local contractors to dispose of drilling water at a local licenced facility if required during drilling. Magmatic have a procedure SWMS 732 AC Drilling Operations Groundwater Vulnerability designed to assist with Groundwater management. That document has been submitted to Resources Regulator with this document (732 SWMS - Drill RigOperations_GroundwaterVulnerability.pdf)		
Duration	21 days		
Application ranking	Negligible		
What is the confidence in predicting impacts?	High	**Are further studies required on impacts or mitigation?**	N/A
How resilient is the environment to cope with impacts?	Medium Resilience	**What is the level of public concern?**	Medium
Can the impacts be reversed?	Uncertain	**Ranking of potential significance**	Low
Can the impacts be mitigated?	Partly	**Justification for ranking**	

Do the operations comply with standards, plans, policies?	Yes		
Criteria	Sensitive Land Impacts: Impacts on land reserved or dedicated within the meaning of the Crown Lands Act 1989/Crown Lands Management Act 2016 for preservation of the environment or other environmental protection purposes.		
Potential impacts	N/A		
Proposed management controls	N/A		
Duration	N/A		
Application ranking	N/A		
What is the confidence in predicting impacts?	N/A	**Are further studies required on impacts or mitigation?**	N/A
How resilient is the environment to cope with impacts?	N/A	**What is the level of public concern?**	N/A
Can the impacts be reversed?	N/A	**Ranking of potential significance**	N/A
Can the impacts be mitigated?	N/A	**Justification for ranking**	
Do the operations comply with standards, plans, policies?	N/A		
Criteria	Sensitive Land Impacts: Impacts on land identified as wilderness or declared a wilderness area under the Wilderness Act 1987.		
Potential impacts	N/A		
Proposed management controls	N/A		
Duration	N/A		
Application ranking	N/A		
What is the confidence in predicting impacts?	N/A	**Are further studies required on impacts or mitigation?**	N/A
How resilient is the environment to cope with impacts?	N/A	**What is the level of public concern?**	N/A
Can the impacts be reversed?	N/A	**Ranking of potential significance**	N/A
Can the impacts be mitigated?	N/A	**Justification for ranking**	
Do the operations comply with standards, plans, policies?	N/A		
Criteria	Sensitive Lands: Impacts on wetlands of international significance designated under the Ramsar Convention on Wetlands and those designated as a nationally important wetland in the Directory of Important Wetlands of Australia.		
Potential impacts	N/A		
Proposed management controls	N/A		
Duration	N/A		
Application ranking	N/A		
What is the confidence in predicting impacts?	N/A	**Are further studies required on impacts or mitigation?**	N/A
How resilient is the environment to cope with impacts?	N/A	**What is the level of public concern?**	N/A
Can the impacts be reversed?	N/A	**Ranking of potential significance**	N/A
Can the impacts be mitigated?	N/A	**Justification for ranking**	
Do the operations comply with standards, plans, policies?	N/A		
Criteria	Sensitive Land Impacts: Impacts on land identified in an environmental planning instrument as being of biodiversity / conservation significance or zoned for environmental conservation, protection and/or management. Includes Coastal Wetlands and Littoral rainforests under State Environmental Planning Policy (Resilience and Hazards) 2021.		
Potential impacts	N/A		

Proposed management controls	N/A		
Duration	N/A		
Application ranking	N/A		
What is the confidence in predicting impacts?	N/A	**Are further studies required on impacts or mitigation?**	N/A
How resilient is the environment to cope with impacts?	N/A	**What is the level of public concern?**	N/A
Can the impacts be reversed?	N/A	**Ranking of potential significance**	N/A
Can the impacts be mitigated?	N/A	**Justification for ranking**	
Do the operations comply with standards, plans, policies?	N/A		
Criteria	Sensitive Land Impacts: Impacts on Aboriginal heritage protection areas: a. Aboriginal places and objects under the National Parks and Wildlife Act 1974 b. Areas of Aboriginal cultural significance identified in an environmental planning instrument.		
Potential impacts	N/A		
Proposed management controls	N/A		
Duration	N/A		
Application ranking	N/A		
What is the confidence in predicting impacts?	N/A	**Are further studies required on impacts or mitigation?**	N/A
How resilient is the environment to cope with impacts?	N/A	**What is the level of public concern?**	N/A
Can the impacts be reversed?	N/A	**Ranking of potential significance**	N/A
Can the impacts be mitigated?	N/A	**Justification for ranking**	
Do the operations comply with standards, plans, policies?	N/A		
Criteria	Sensitive Land Impacts: Impacts on heritage protection areas (historic or natural): a. Nationally and internationally recognised heritage sites or areas (World Heritage List, National Heritage List of Commonwealth Heritage List) b. Items listed on State Heritage c. Heritage items and conservation areas identified in an environmental planning instrument		
Potential impacts	N/A		
Proposed management controls	N/A		
Duration	N/A		
Application ranking	N/A		
What is the confidence in predicting impacts?	N/A	**Are further studies required on impacts or mitigation?**	N/A
How resilient is the environment to cope with impacts?	N/A	**What is the level of public concern?**	N/A
Can the impacts be reversed?	N/A	**Ranking of potential significance**	N/A
Can the impacts be mitigated?	N/A	**Justification for ranking**	
Do the operations comply with standards, plans, policies?	N/A		
Criteria	Sensitive Land Impacts: Impacts on community land classified under the Local Government Act 1993 (for which a plan of management has been prepared).		
Potential impacts	N/A		
Proposed management controls	N/A		
Duration	N/A		
Application ranking	N/A		

What is the confidence in predicting impacts?	N/A	**Are further studies required on impacts or mitigation?**	N/A
How resilient is the environment to cope with impacts?	N/A	**What is the level of public concern?**	N/A
Can the impacts be reversed?	N/A	**Ranking of potential significance**	N/A
Can the impacts be mitigated?	N/A	**Justification for ranking**	
Do the operations comply with standards, plans, policies?	N/A		
Criteria	Sensitive Land Impacts: Impacts on bushfire prone areas.		
Potential impacts	Nil		
Proposed management controls	Short duration program, work with farmer, avoid trees		
Duration	21 days		
Application ranking	Negligible		
What is the confidence in predicting impacts?	High	**Are further studies required on impacts or mitigation?**	N/A
How resilient is the environment to cope with impacts?	LowResilience	**What is the level of public concern?**	Medium
Can the impacts be reversed?	No	**Ranking of potential significance**	Medium
Can the impacts be mitigated?	Partly	**Justification for ranking**	
Do the operations comply with standards, plans, policies?	N/A	Bushfire extending in the area.	
Criteria	Social Impacts: Any impacts which result in a change in the demographic structure of the community, including changes to workforce or industry structure of the area/region. Including change in demand for community resources (eg community facilities, community services and labour force).		
Potential impacts	ACCESS: Access around the property will be via established farm tracks or short access across paddocks, if required. No earthmoving equipment is required for site preparation as the land is all cleared gently undulating farmland with some low hills.		
Proposed management controls	Short duration program. Work with landholder and neighbours as applicable.		
Duration	21 days		
Application ranking	Negligible		
What is the confidence in predicting impacts?	High	**Are further studies required on impacts or mitigation?**	N/A
How resilient is the environment to cope with impacts?	High Resilience	**What is the level of public concern?**	Low
Can the impacts be reversed?	Yes	**Ranking of potential significance**	Low
Can the impacts be mitigated?	Fully	**Justification for ranking**	
Do the operations comply with standards, plans, policies?	N/A		
Criteria	Social Impacts: Any environmental impact that may cause substantial change or disruption to the community (including loss of facilities or loss of community identity).		
Potential impacts	ACCESS: Access around the property will be via established farm tracks or short access across paddocks, if required. No earthmoving equipment is required for site preparation as the land is all cleared gently undulating farmland with some low hills.		
Proposed management controls	Short duration program. Work with landholder and neighbours as applicable.		
Duration	21 days		
Application ranking	Negligible		
What is the confidence in predicting impacts?	High	**Are further studies required on impacts or mitigation?**	N/A

How resilient is the environment to cope with impacts?	High Resilience	**What is the level of public concern?**	Low
Can the impacts be reversed?	Yes	**Ranking of potential significance**	Low
Can the impacts be mitigated?	Fully	**Justification for ranking**	
Do the operations comply with standards, plans, policies?	N/A		
Criteria	Social Impacts: Any impacts which result in some individuals or communities being significantly disadvantaged (e.g. change to community facilities, services or labour force).		
Potential impacts	ACCESS: Access around the property will be via established farm tracks or short access across paddocks, if required. No earthmoving equipment is required for site preparation as the land is all cleared gently undulating farmland with some low hills.		
Proposed management controls	Short duration program. Work with landholder and neighbours as applicable.		
Duration	21 days		
Application ranking	Negligible		
What is the confidence in predicting impacts?	High	**Are further studies required on impacts or mitigation?**	N/A
How resilient is the environment to cope with impacts?	High Resilience	**What is the level of public concern?**	Low
Can the impacts be reversed?	Yes	**Ranking of potential significance**	Low
Can the impacts be mitigated?	Fully	**Justification for ranking**	
Do the operations comply with standards, plans, policies?	N/A		
Criteria	Social Impacts: Any impacts on the health, safety, privacy or welfare of individuals or communities caused by factors such as pollution, odour, noise, vibration, lighting, visual impacts, etc).		
Potential impacts	AIR: Dust from AC drilling is captured in cyclones and dust suppression systems. Dust from tracks and access ways will be minimised by limiting vehicle speed. TIMING/NOISE: 6am-6pm, 7 days per week- approval date (3 weeks) to 28 April 2026. Noise will consist of motors from the drilling rig. AC drilling will only be active on day shift. Landholders will be advised and consulted with over noise emissions and a number to call if excessive. Noise emissions will be regularly monitored and discussed with local farm residents as required. These holes will be drilled on day shift only. The nearest holes are around 500m from houses and holes will be moved as required to minimise noise. Magmatic will work closely with any affected residents to work to daytime only if required. Modern rig engine is well insulated, and noise is minimal. No night-shift is required.		
Proposed management controls	Short duration program. Work with landholder and neighbours as applicable.		
Duration	21 days		
Application ranking	Negligible		
What is the confidence in predicting impacts?	High	**Are further studies required on impacts or mitigation?**	N/A
How resilient is the environment to cope with impacts?	Medium Resilience	**What is the level of public concern?**	Low
Can the impacts be reversed?	Yes	**Ranking of potential significance**	Low
Can the impacts be mitigated?	Partly	**Justification for ranking**	
Do the operations comply with standards, plans, policies?	N/A		
Criteria	Social Impacts: Effect on a locality, place or building having aesthetic, anthropological, archaeological, architectural, cultural, historical, scientific or social significance or other special value for present or future generations?		

Potential impacts	HERITAGE Nil AHIMS Nil recorded in the area. Close to Environmental Plan Heritage designated as "Archaeological- general item"		
Proposed management controls	Short duration program. Work with landholder and neighbours as applicable.		
Duration	21 days		
Application ranking	Negligible		
What is the confidence in predicting impacts?	High	**Are further studies required on impacts or mitigation?**	N/A
How resilient is the environment to cope with impacts?	Medium Resilience	**What is the level of public concern?**	Low
Can the impacts be reversed?	No	**Ranking of potential significance**	Low
Can the impacts be mitigated?	Partly	**Justification for ranking**	
Do the operations comply with standards, plans, policies?	N/A		
Criteria	Social Impacts: Impacts on communities with strong sense of identity.		
Potential impacts	Nil NOTE: The nearest holes are around 500m from houses and holes will be moved as required to minimise noise. Magmatic will work closely with any affected residents to work to daytime only if required. Modern rig engine is well insulated, and noise is minimal. No night-shift is required.		
Proposed management controls	Short duration program. Work with landholder and neighbours as applicable.		
Duration	21 days		
Application ranking	Negligible		
What is the confidence in predicting impacts?	Medium	**Are further studies required on impacts or mitigation?**	N/A
How resilient is the environment to cope with impacts?	Medium Resilience	**What is the level of public concern?**	Low
Can the impacts be reversed?	Yes	**Ranking of potential significance**	Low
Can the impacts be mitigated?	Partly	**Justification for ranking**	
Do the operations comply with standards, plans, policies?	N/A		
Criteria	Social Impacts: Impacts on disadvantaged communities.		
Potential impacts	Nil The nearest holes are around 500m from houses and holes will be moved as required to minimise noise. Magmatic will work closely with any affected residents to work to daytime only if required. Modern rig engine is well insulated, and noise is minimal. No night-shift is required.		
Proposed management controls	Short duration program. Work with landholder and neighbours as applicable.		
Duration	21 days		
Application ranking	Negligible		
What is the confidence in predicting impacts?	Medium	**Are further studies required on impacts or mitigation?**	N/A
How resilient is the environment to cope with impacts?	Medium Resilience	**What is the level of public concern?**	Low
Can the impacts be reversed?	Yes	**Ranking of potential significance**	Low
Can the impacts be mitigated?	Fully	**Justification for ranking**	

Do the operations comply with standards, plans, policies?	N/A		
Criteria	Economic Impacts: Any impacts which may affect economic activity (positive or negative), including a decrease to net economic welfare.		
Potential impacts	Positive - minor demand for accomodation and meals		
Proposed management controls	Positive impact on local community		
Duration	21 days		
Application ranking	Negligible		
What is the confidence in predicting impacts?	High	**Are further studies required on impacts or mitigation?**	N/A
How resilient is the environment to cope with impacts?	High Resilience	**What is the level of public concern?**	Low
Can the impacts be reversed?	Yes	**Ranking of potential significance**	Low
Can the impacts be mitigated?	Partly	**Justification for ranking**	
Do the operations comply with standards, plans, policies?	N/A		
Criteria	Economic Impacts: Any impacts that result in a decrease in the economic stability of the community.		
Potential impacts	Positive - minor demand for accomodation and meals		
Proposed management controls	Positive impact on local community		
Duration	21 days		
Application ranking	Negligible		
What is the confidence in predicting impacts?	High	**Are further studies required on impacts or mitigation?**	N/A
How resilient is the environment to cope with impacts?	High Resilience	**What is the level of public concern?**	Low
Can the impacts be reversed?	Yes	**Ranking of potential significance**	Low
Can the impacts be mitigated?	Fully	**Justification for ranking**	
Do the operations comply with standards, plans, policies?	N/A		
Criteria	Economic Impacts: Any impacts which result in a change to the public sector revenue or expenditure base.		
Potential impacts	Positive - minor demand for accomodation and meals		
Proposed management controls	Positive impact on local community		
Duration	21 days		
Application ranking	Negligible		
What is the confidence in predicting impacts?	High	**Are further studies required on impacts or mitigation?**	N/A
How resilient is the environment to cope with impacts?	High Resilience	**What is the level of public concern?**	Low
Can the impacts be reversed?	No	**Ranking of potential significance**	Low
Can the impacts be mitigated?	Partly	**Justification for ranking**	
Do the operations comply with standards, plans, policies?	N/A		
Criteria	Heritage Impacts: Any impacts on a locality, place, landscape, building or archaeological relic of heritage significance.		
Potential impacts	Nil		
Proposed management controls	HERITAGE: Nil recorded in the area. AHIMS: Nil recorded in the area.		
Duration	21 days		
Application ranking	Positive		

What is the confidence in predicting impacts?	High	**Are further studies required on impacts or mitigation?**	N/A
How resilient is the environment to cope with impacts?	LowResilience	**What is the level of public concern?**	Medium
Can the impacts be reversed?	No	**Ranking of potential significance**	Medium
Can the impacts be mitigated?	Partly	**Justification for ranking**	
Do the operations comply with standards, plans, policies?	N/A	Impact on heritage.	
Criteria	Aesthetic Impacts: Any impacts on the visual or scenic landscape, including lighting, venting or flaring of gas.		
Potential impacts	AIR: Dust from AC drilling is captured in cyclones and dust suppression systems. Dust from tracks and access ways will be minimised by limiting vehicle speed. TIMING/NOISE: 6am-6pm, 7 days per week- approval date (3 weeks) to 28 April 2026. Noise will consist of motors from the drilling rig. AC drilling will only be active on day shift. Landholders will be advised and consulted with over noise emissions and a number to call if excessive. Noise emissions will be regularly monitored and discussed with local farm residents as required. These holes will be drilled on day shift only. The nearest holes are around 500m from houses and holes will be moved as required to minimise noise. Magmatic will work closely with any affected residents to work to daytime only if required. Modern rig engine is well insulated, and noise is minimal. No night-shift is required.		
Proposed management controls	Dayshift only		
Duration	21 days		
Application ranking	Positive		
What is the confidence in predicting impacts?	High	**Are further studies required on impacts or mitigation?**	N/A
How resilient is the environment to cope with impacts?	Medium Resilience	**What is the level of public concern?**	Low
Can the impacts be reversed?	Yes	**Ranking of potential significance**	Low
Can the impacts be mitigated?	Partly	**Justification for ranking**	
Do the operations comply with standards, plans, policies?	N/A		
Criteria	Aesthetic Impacts: Areas or items of high aesthetic or scenic value.		
Potential impacts	DISTURBANCE: 220sqm. 3XEAs proposed within CAN420 with ROCCs provided. LANDUSE: The land is used for cropping and grazing. Magmatic work closely with the Landholder to minimise the impact of exploration activities on farm activities. When and where required, Magmatic work around the Landholders farm schedule to minimise disruption to farming activities.		
Proposed management controls	Dayshift only		
Duration	21 days		
Application ranking	Positive		
What is the confidence in predicting impacts?	High	**Are further studies required on impacts or mitigation?**	N/A
How resilient is the environment to cope with impacts?	High Resilience	**What is the level of public concern?**	Low
Can the impacts be reversed?	Yes	**Ranking of potential significance**	Low
Can the impacts be mitigated?	Fully	**Justification for ranking**	
Do the operations comply with standards, plans, policies?	N/A		
Criteria	Cultural Impacts: Any disturbance of the ground surface or any culturally modified trees (e.g. a scar tree).		

Potential impacts	Ground is worked farmland and no culturally modified trees. HERITAGE: Nil recorded in the area. AHIMS: Nil recorded in the area.		
Proposed management controls	As part of the site induction all contractors and staff are instructed to be aware of any artifacts and to report them directly to the site manager.		
Duration	21 days		
Application ranking	Positive		
What is the confidence in predicting impacts?	High	**Are further studies required on impacts or mitigation?**	N/A
How resilient is the environment to cope with impacts?	LowResilience	**What is the level of public concern?**	Medium
Can the impacts be reversed?	No	**Ranking of potential significance**	Medium
Can the impacts be mitigated?	Partly	**Justification for ranking**	
Do the operations comply with standards, plans, policies?	N/A	Displacement or damage.	
Criteria	Cultural Impacts: Any impacts on known Aboriginal objects or Aboriginal places.		
Potential impacts	No - Search completed and no sites identified. HERITAGE: Nil recorded in the area. AHIMS: Nil recorded in the area.		
Proposed management controls	As part of the site induction all contractors and staff are instructed to be aware of any artifacts and to report them directly to the site manager.		
Duration	21 days		
Application ranking	Positive		
What is the confidence in predicting impacts?	High	**Are further studies required on impacts or mitigation?**	N/A
How resilient is the environment to cope with impacts?	LowResilience	**What is the level of public concern?**	Medium
Can the impacts be reversed?	No	**Ranking of potential significance**	Medium
Can the impacts be mitigated?	Partly	**Justification for ranking**	
Do the operations comply with standards, plans, policies?	N/A	Displacement or damage.	
Criteria	Cultural Impacts: Affects areas where the landscape features indicate the likely presence of Aboriginal objects.		
Potential impacts	HERITAGE: Nil recorded in the area. AHIMS: Nil recorded in the area. Close to Environmental Plan Heritage designated as "Archaeological- general item"		
Proposed management controls	As part of the site induction all contractors and staff are instructed to be aware of any artifacts and to report them directly to the site manager.		
Duration	21 days		
Application ranking	Positive		
What is the confidence in predicting impacts?	High	**Are further studies required on impacts or mitigation?**	N/A
How resilient is the environment to cope with impacts?	LowResilience	**What is the level of public concern?**	Medium
Can the impacts be reversed?	No	**Ranking of potential significance**	Medium
Can the impacts be mitigated?	Partly	**Justification for ranking**	
Do the operations comply with standards, plans, policies?	Yes	Damage or displacement.	

Criteria	Cultural Impacts: Affects areas subject to native title claims, indigenous land use agreements or joint management arrangements.		
Potential impacts	No - Freehold Close to Environmental Plan Heritage designated as "Archaeological- general item"		
Proposed management controls	As part of the site induction all contractors and staff are instructed to be aware of any artifacts and to report them directly to the site manager.		
Duration	21 days		
Application ranking	Positive		
What is the confidence in predicting impacts?	High	**Are further studies required on impacts or mitigation?**	N/A
How resilient is the environment to cope with impacts?	LowResilience	**What is the level of public concern?**	Medium
Can the impacts be reversed?	No	**Ranking of potential significance**	Low
Can the impacts be mitigated?	Partly	**Justification for ranking**	
Do the operations comply with standards, plans, policies?	N/A		
Criteria	Cultural Impacts: Impacts on Aboriginal communities or areas subject to land rights claims.		
Potential impacts	No - Search completed and no sites identified. Close to Environmental Plan Heritage designated as "Archaeological- general item"		
Proposed management controls	As part of the site induction all contractors and staff are instructed to be aware of any artifacts and to report them directly to the site manager.		
Duration	21 days		
Application ranking	Positive		
What is the confidence in predicting impacts?	High	**Are further studies required on impacts or mitigation?**	N/A
How resilient is the environment to cope with impacts?	LowResilience	**What is the level of public concern?**	Medium
Can the impacts be reversed?	No	**Ranking of potential significance**	Low
Can the impacts be mitigated?	Partly	**Justification for ranking**	
Do the operations comply with standards, plans, policies?	N/A		
Criteria	Cultural Impacts: Impacts on areas or items of high anthropological, archaeological, architectural, cultural, heritage, historical, recreational or scientific value.		
Potential impacts	Ground is worked farmland and no culturally modified trees. HERITAGE: Nil recorded in the area. AHIMS: Nil recorded in the area. LANDUSE: The land is used for cropping and grazing. Magmatic work closely with the Landholder to minimise the impact of exploration activities on farm activities. When and where required, Magmatic work around the Landholders farm schedule to minimise disruption to farming activities. PHOTOS: Photos site 1, site 2, site 3 and site 4: Bare crop area. Flat. Photos site 5, site 6, site 8: Fence, crop/grass. Flat. Photos site 7, 9, 10, 11 and 12: Grass/crop. Flat Strategic Agricultural Land- Level 2 -AIS response on 6/5/2024: "The assessment indicates that the proposal should not have adverse impacts on agricultural land use or production and any potential impacts can be managed as part of regular operations. It is recommended communication with landowner(s) is maintained regarding the timing and proximity of the drilling program to the local agricultural activities to ensure rehabilitation measures are adequate. DPI agriculture has no additional requirement for his proposal".		
Proposed management controls	As part of the site induction all contractors and staff are instructed to be aware of any artifacts and to report them directly to the site manager.		
Duration	21 days		
Application ranking	Positive		

What is the confidence in predicting impacts?	High	**Are further studies required on impacts or mitigation?**	N/A
How resilient is the environment to cope with impacts?	Medium Resilience	**What is the level of public concern?**	Medium
Can the impacts be reversed?	Uncertain	**Ranking of potential significance**	Low
Can the impacts be mitigated?	Partly	**Justification for ranking**	
Do the operations comply with standards, plans, policies?	N/A		
Criteria	Land Use Impacts: Any major changes in land use, including curtailment of other beneficial land uses.		
Potential impacts	Brief use of land for exploration purposes LANDUSE: The land is used for cropping and grazing. Magmatic work closely with the Landholder to minimise the impact of exploration activities on farm activities. When and where required, Magmatic work around the Landholders farm schedule to minimise disruption to farming activities. Strategic Agricultural Land- Level 2 -AIS response on 6/5/2024: "The assessment indicates that the proposal should not have adverse impacts on agricultural land use or production and any potential impacts can be managed as part of regular operations. It is recommended communication with landowner(s) is maintained regarding the timing and proximity of the drilling program to the local agricultural activities to ensure rehabilitation measures are adequate. DPI agriculture has no additional requirement for his proposal".		
Proposed management controls	Work with Landholder to minimise impacts.		
Duration	21 days		
Application ranking	Positive		
What is the confidence in predicting impacts?	High	**Are further studies required on impacts or mitigation?**	No
How resilient is the environment to cope with impacts?	Medium Resilience	**What is the level of public concern?**	Medium
Can the impacts be reversed?	Yes	**Ranking of potential significance**	Medium
Can the impacts be mitigated?	Partly	**Justification for ranking**	
Do the operations comply with standards, plans, policies?	Yes	BSAL	
Criteria	Transportation Impacts: Substantial impacts on existing transportation systems (road, rail, pedestrian) which alter present patterns of circulation or movement.		
Potential impacts	Minimal additional traffic - upto 10 additional vehicle movements ACCESS: Access around the property will be via established farm tracks or short access across paddocks, if required. No earthmoving equipment is required for site preparation as the land is all cleared gently undulating farmland with some low hills.		
Proposed management controls	Minimise trips where practical		
Duration	21 days		
Application ranking	Positive		
What is the confidence in predicting impacts?	High	**Are further studies required on impacts or mitigation?**	N/A
How resilient is the environment to cope with impacts?	High Resilience	**What is the level of public concern?**	Low
Can the impacts be reversed?	Yes	**Ranking of potential significance**	Low
Can the impacts be mitigated?	Fully	**Justification for ranking**	
Do the operations comply with standards, plans, policies?	N/A		
Criteria	Transportation Impacts: Impacts associated with direct or indirect additional traffic.		

Potential impacts	Minimal additional traffic - upto 10 additional vehicle movements ACCESS: Access around the property will be via established farm tracks or short access across paddocks, if required. No earthmoving equipment is required for site preparation as the land is all cleared gently undulating farmland with some low hills.		
Proposed management controls	Minimise trips where practical		
Duration	21 days		
Application ranking	Positive		
What is the confidence in predicting impacts?	High	**Are further studies required on impacts or mitigation?**	N/A
How resilient is the environment to cope with impacts?	High Resilience	**What is the level of public concern?**	Low
Can the impacts be reversed?	Yes	**Ranking of potential significance**	Low
Can the impacts be mitigated?	Partly	**Justification for ranking**	
Do the operations comply with standards, plans, policies?	Yes		
Criteria	Consistency with applicable local strategic planning statements, regional strategic plans or district strategic plans.		
Potential impacts	the areas with remnant vegetation are part of Local Terrestrial biodiversity. SENSITIVITY SEED Search on 23/4/24 Close to Terrestrial Biodiversity Within Ground water Vulnerability BV/TNV following Bodangora creek Close to PCT: Western Grey Box tall grassy woodland on alluvial loam and clay soils in the NSW Southwestern Slopes and Riverina Bioregions		
Proposed management controls	No drilling planned in these areas.		
Duration	21 days		
Application ranking	Positive		
What is the confidence in predicting impacts?		**Are further studies required on impacts or mitigation?**	N/A
How resilient is the environment to cope with impacts?	Medium Resilience	**What is the level of public concern?**	Low
Can the impacts be reversed?	Uncertain	**Ranking of potential significance**	Low
Can the impacts be mitigated?	Partly	**Justification for ranking**	
Do the operations comply with standards, plans, policies?	Yes		
Criteria	Matters of National Environmental Significance: Impacts on MNES under the Commonwealth Environmental Protection and Biodiversity Conservation Act 1999:		
Potential impacts	MNES Close to PCT: Western Grey Box tall grassy woodland on alluvial loam and clay soils in the NSW South Western Slopes and Riverina Bioregions- endangered likely to occur. White Box-Yellow Box-Blakely's Red Gum Grassy Woodland and Derived Native Grassland- critically endangered likely to occur Induction documents provided: LADY ILSE AC Drilling Induction Addendum- MATTERS OF NATIONAL ENVIRONMENTAL SIGNIFICANCE and ENDANGERED SPECIES 26/4/2024 ENDANGERED SPECIES Regent Honeyeater- Critically Endangered- likely South-eastern Hooded Robin, Hooded Robin (south-eastern)- Endangered- likely Australian Painted Snipe- Endangered- likely		
Proposed management controls	Do not damage trees in the area. Stay away from the wooded areas where practical.		
Duration	21 days		
Application ranking	Positive		

What is the confidence in predicting impacts?	High	**Are further studies required on impacts or mitigation?**	No
How resilient is the environment to cope with impacts?	LowResilience	**What is the level of public concern?**	Medium
Can the impacts be reversed?	Uncertain	**Ranking of potential significance**	Medium
Can the impacts be mitigated?	Partly	**Justification for ranking**	
Do the operations comply with standards, plans, policies?	Yes	Impact on Endangered species.	
Criteria	Cumulative Impacts: Cumulative environmental effects with other existing or likely future activities.		
Potential impacts	Post-drilling: After drilling a site inspection will be completed to ensure all rubbish or equipment has been removed. Above ground sumps may remain on-site for 1-2 weeks until disposal arranged. Rehabilitation: At the completion of drilling and assay results returned (approx 8 weeks), the site and tracks will be rehabilitated by ripping, collar plugged and cut and all rubbish and drill cuttings will be removed. ROCC document provided. DISTURBANCE: 220sqm. 3XEAs proposed within CAN420 with ROCCs provided. LANDUSE: The land is used for cropping and grazing. Magmatic work closely with the Landholder to minimise the impact of exploration activities on farm activities. When and where required, Magmatic work around the Landholders farm schedule to minimise disruption to farming activities. PHOTOS: Photos site 1, site 2, site 3 and site 4: Bare crop area. Flat. Photos site 5, site 6, site 8: Fence, crop/grass. Flat. Photos site 7, 9, 10, 11 and 12: Grass/crop. Flat Strategic Agricultural Land- Level 2 -AIS response on 6/5/2024: "The assessment indicates that the proposal should not have adverse impacts on agricultural land use or production and any potential impacts can be managed as part of regular operations. It is recommended communication with landowner(s) is maintained regarding the timing and proximity of the drilling program to the local agricultural activities to ensure rehabilitation measures are adequate. DPI agriculture has no additional requirement for his proposal".		
Proposed management controls	No cumulative environmental effects		
Duration	21 days		
Application ranking	Positive		
What is the confidence in predicting impacts?	High	**Are further studies required on impacts or mitigation?**	No
How resilient is the environment to cope with impacts?	Medium Resilience	**What is the level of public concern?**	Low
Can the impacts be reversed?	Yes	**Ranking of potential significance**	Low
Can the impacts be mitigated?	Partly	**Justification for ranking**	
Do the operations comply with standards, plans, policies?	Yes		

FORM: Brief NonCEA (v3.4)