

APO0001732

# Approval to undertake assessable prospecting operations

Kanbarra

17 April 2024

## Application summary

Detail	Application
Reference	APO0001732
Date of approval	17 April 2024
Title	EL 9220 (1992)
Contact	[REDACTED]
Project name	Kanbarra
Project location	50km SE of Broken Hill
Activity type	Complying exploration activity

## Important note

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## Project

### Project details

Assessable prospecting activity APO0001732 relates to the Kanbarra at 50km SE of Broken Hill.

The project has the following approved characteristics.

Detail	Proposal
Activity description	The RC program will require a multi purpose drilling rig, support truck with rods, truck mounted booster, support light vehicle. No new tracks or drill pads are required but below ground sumps will be utilised for drilling, excavations will be 3m X 3m X 3m (18m2 surface disturbance and 54m3 excavation for both proposed drill holes). There is no vegetation to clear and the soil is skeletal. The thin soil will be stockpiled adjacent to the sump and the sump will be filled back up when it is dry and as soon as practical following drilling, with the aim of returning the site to its original state. It is anticipated the drilling will commence on the 16th November 2024 and be completed on the 20th December 2024. Daily operational hours will be 0630 hours to 1630 hours.
Earthworks or vegetation clearing	There is no vegetation to clear and the soil is skeletal. The thin soil will be stockpiled adjacent to the sump and the sump will be filled back up when it is dry and as soon as practical following drilling.
Access to exploration activities	No new tracks will be required as existing station tracks are adequate for access. One small creek crossing will need to be modified by the landholder.
Ancillary activities	Water for drilling will be stored in below ground sumps and brought in from Broken Hill in a water truck. All water from the drilling operation will be contained in these below ground sumps. All drilling fluids and waste will be stored in containers in a bunded area and removed from site at the end of the program. All drilling fluids are 100% biodegradable and will be stored in bunded areas adjacent to the drilling operations.
Anticipated start date	1 June 2024

Detail	Proposal
Expected duration (weeks)	3 weeks
Expected rehabilitation completion date	21 June 2024
Proposed hours of operation	Continuous work hours (24 hours a day, 7 days a week).
On-site employee or contractor numbers	5

## Exempted areas

The Kanbarra has proposed prospecting in the following exempted area(s): undefined

## State conservation areas

The Kanbarra has not proposed prospecting in a State Conservation Area.

## Site description and existing environment

### The project comprises the following existing land uses:

The current land use is for sheep grazing. The limited surface disturbance will not affect any current land use. On completion of the program, including rehabilitation, the current land use will not be affected.

### The project is located near the following sensitive receptors:

The only sensitive receiver identified is the closest dwelling located 15km to the NE.

### The project is located with the following soil types and properties:

Australian Soil Classification - Calcarosols Great Solis Groups - Calcareous Red Earths No acid sulphate soils are identified Land and Soil Capability - Very Severe Limitations

### The project has the following existing surface water sources in the area that are likely to be affected by the activity:

The closest watercourse/features are a very small dry lake 2.5km to the south and the dry Rantya Creek located 6km to the south west. The distance between these confirm that they will be unaffected by the proposed operations.

### The project has the following existing groundwater sources that occur in the area that are likely to be affected by the activity:

Due to the short duration of the proposed drilling it is not anticipated that any significant groundwater impacts on other groundwater users or the environment would be expected.

### The project is in an area with the following topography, vegetation cover type, density and condition:

The area is dominated by dry flat plains, small scrub and intermittent low trees (~3 - 5m in height). Vegetation clearing is not required.

### The project will impact the following matters of national environmental significance:

The "protected Matters - MNES layers - March 5th 2024' Report has identified the potential for 20 Threatened Species and 7 Migratory Species. The company engaged SIA Ecological and Environmental Planning Pty Ltd to conduct a "Threatened Species Impact Assessment for Proposed Drilling at Eastboreholes'. This assessment was provided to DCCEEW for their assessment and the company also attended a pre-referral meeting with DCCEEW

for the program. The assessment concludes that there will not be significant impacts to the following threatened species listed under the Environment Protection and Biodiversity Conservation Act 1999 (EPBC Act):

- Plains-wanderer (*Pedionomus torquatus*) – Critically Endangered
- Curlew Sandpiper (*Calidris ferruginea*) – Critically Endangered
- Australian Painted Snipe (*Rostratula australis*) – Endangered
- Winged Pepper-creep (*Lepidium monophloeoides*) – Endangered
- South-eastern Hooded Robin (*Melanodryas cucullata cucullata*) – Endangered
- Eastern Major Mitchell’s Cockatoo (*Lophochroa leadbeateri leadbeateri*) – Endangered
- Latham’s Snipe (*Gallinago hardwickii*) – Vulnerable
- Dusky Hopping-mouse (*Notomys fuscus*) – Vulnerable
- Thick-billed Grasswren (*Amytornis modestus*) – Vulnerable
- Blue-winged Parrot (*Neophema chrysostoma*) – Vulnerable
- Corben’s Long-eared Bat (*Nyctophilus corbeni*) – Vulnerable
- Grey Falcon (*Falco hypoleucos*) – Vulnerable
- Painted Honeyeater (*Grantiella picta*) – Vulnerable
- Desert Greenhood (*Pterostylis xerophila*) – Vulnerable
- Slender Darling-pea (*Swainsona murrayana*) – Vulnerable
- Needle Wattle (*Acacia carneorum*) – Vulnerable
- Menindee Nightshade (*Solanum karsense*) – Vulnerable
- Sharp-tailed Sandpiper (*Calidris acuminata*) – Vulnerable
- Southern Whiteface (*Aphelocephala leucopsis*) – Vulnerable

The DCCEEW noted the conclusion that impact is unlikely.

**The project is in an area with the following threatened species, ecological communities (or habitats):**

The "Threatened Species Impact Assessment for Proposed Drilling at Eastboreholes" report by SIA Ecological and Environmental Planning Pty Ltd concludes that there will not be significant impacts to the identified threatened species and ecological communities listed under the Environment Protection and Biodiversity Conservation Act 1999 (EPBC Act).

**The project is in an area with the following historic cultural or natural heritage items:**

Nonapplicable, the AHIMS Search results accompanying this APO, clearly confirm that no historic cultural or natural heritage items are located in the area of the proposed activities.

**The project is in an area with the following critical habitat/area of outstanding biodiversity value:**

No areas of outstanding biodiversity value under the Biodiversity Conservation Act 2016 as listed in the Register maintained by the Department of Planning and Environment. areas declared as critical habitat under the Fisheries Management Act 1994 as recorded in the Department of Primary Industries register of critical habitat are identified within the area of the proposed activities.

**The project is located in an area with the following location, type and distance to the nearest Aboriginal heritage sites:**

The AHIMS Search results accompanying this APO, clearly confirm that no Aboriginal cultural heritage objects or places are identified in the area of the proposed activities. Should objects or places be identified then the company will follow its protocols, as listed below.

Heritage Sites Protocol      The drill sites are 30x20m, open with only low bush so no clearing required.      Prior to drill commencement the 2 sites will be inspected for archaeological objects      If none found drilling will commence.      If found nothing will be removed and drilling suspended      The Broken Hill Local Aboriginal Land Council (BHLALC) based in Broken Hill will be contacted to seek advice on how to deal with the matter.      Drilling will recommence on approval of the BHLALC.

## Exploration activities

The following exploration activities have been approved.

### Drill holes

Id/ Regulator no.	Type	Surface disturbance (m <sup>2</sup> )	Veg. Clearing (m <sup>2</sup> )	Excavations (m <sup>3</sup> )	Produced water (ml)	Depth (m)	Block number	Unit letters
EB1	RC drill hole	9		27		275	ADE259	d

Id/ Regulator no.	Type	Surface disturbance (m <sup>2</sup> )	Veg. Clearing (m <sup>2</sup> )	Excavations (m <sup>3</sup> )	Produced water (ml)	Depth (m)	Block number	Unit letters
EDH00150 23								
EB2 EDH00150 24	RC drill hole	9		27		275	ADE259	e

## Other exploration activities

Id/ Regulator no.	Type	Surface disturbance (m <sup>2</sup> )	Veg. Clearing (m <sup>2</sup> )	Excavations (m <sup>3</sup> )	Produced water (ml)	Block number	Unit letters
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## Impact management

### The project includes the following measures to manage surface water impacts:

Water for drilling will be stored in below ground sumps and brought in from Broken Hill in a water truck. The following general measures will be implemented to protect surface waters:

- Prohibition of petroleum-based drilling fluids and additives in the drilling holes.
- Containment of contaminated waters in sumps.
- The prevention of discharge of drilling fluids to creeks.
- The storage of fuel and lubricants on-site would be minimised.
- Maintenance of a spill control kit on-site.
- Restoration of all disturbed ground immediately following completion of the works to minimise sediment erosion.

### The project includes the following measures to manage groundwater impacts:

Due to the short duration of the proposed drilling it is not anticipated that any significant groundwater impacts on other groundwater users or the environment would be expected. Actions to be taken if groundwater is encountered all water will be contained in the below ground sumps.

### The project includes the following measures to manage waste and excess materials:

All drilling fluids and waste will be stored in containers in a bunded area and removed from site at the end of the program.

### The project includes the following measures regarding the handling, use, storage and transportation of any chemicals and hydrocarbons:

All drilling fluids are 100% biodegradable and will be stored in bunded areas adjacent to the drilling operations. The following general measures will be implemented to manage chemicals on site:

- Containment of contaminated waters in sumps.
- The prevention of discharge of hydrocarbons whilst refueling of drilling equipment.
- The storage of fuel and lubricants on-site would be minimised.
- Location and maintenance of a spill control kit on-site.

### The project includes the following measures of how noise impacts will be managed to minimise impacts on nearby sensitive receptors:

The nearest habitation is 15km to the NE. The following mitigation measures will be implemented to reduce or minimise noise impacts:

- Compression and exhaust braking will be kept to a minimum along access roads.
- Site inductions will include material that raises workers awareness of noise and vibration issues.
- Muffling measures on machinery will be implemented where possible.
- Machinery will be switched off when not in use.

### The project includes the following measures to manage air quality impacts:

There will be minimal air pollution during the proposed drilling program. Dust will be generated by the movement of machinery and vehicles will be minimised wherever possible. Normal OH&S/safe work procedures will be

followed to minimise the risk to workers, and personal protective equipment will be issued to and worn by all workers. Guidelines from the Department of Environment, Climate Change and Water identify the following sources of dust and other air pollutants. The following mitigation measures will be implemented to reduce impacts to air quality:

- Operation of heavy machinery: Some dust may be generated when the drill rig moves from site to site, but this should be minimal as it will generally be travelling at very low speeds. Dust can be expected from the drilling process, but the rig is fitted with a dust collection cyclone to minimise this, employees will wear appropriate PPE.

## Sensitivity of the land to be disturbed

Question	Yes/no
<b>Conservation areas</b>	
Land reserved under the <i>National Parks and Wildlife Act 1974</i> ?	No
Land acquired by the Minister under Part 11 of the <i>National Parks and Wildlife Act 1974</i> ?	No
Land subject to a 'conservation agreement' under the <i>National Parks and Wildlife Act 1974</i> and/or the <i>Biodiversity Conservation Act 2016</i> ?	No
Land declared as an aquatic reserve under the <i>Marine Estate Management Act 2014</i> ?	No
Land declared as a marine park under the <i>Marine Estate Management Act 2014</i> ?	No
Land within State Forests set aside under the <i>Forestry Act 2012</i> for conservation values, including Flora Reserves or Special Management (and other) Zones?	No
Land reserved or dedicated under the <i>Crown Lands Act 1989</i> / <i>Crown Lands Management Act 2016</i> (as applicable) for the preservation of flora, fauna, geological formations or other environmental protection purposes?	No
Land identified as wilderness or declared a wilderness area under the <i>Wilderness Act 1987</i> ?	No
Land subject to a Biobanking agreement (established under the now repealed <i>Threatened Species Conservation Act 1995</i> ) or a Biodiversity Stewardship agreement established under the <i>Biodiversity Conservation Act 2016</i> ?	No
Land subject to a Wildlife Refuge agreement under the <i>Biodiversity Conservation Act 2016</i> ?	No
Land subject to existing conservation agreements on private land under repealed legislation that continue to have effect (e.g. trust agreements under <i>Native Conservation Trust Act 2001</i> , Property vegetation plans under <i>Native Vegetation Act 2003</i> , Registered property agreements under <i>Native Vegetation Conservation Act 1997</i> )?	No
<b>Drinking water catchment protection areas</b>	
Land declared to be a 'controlled area' or a 'special area' under the <i>Water NSW Act 2014</i> ?	No
Land declared to be a 'special area' under the <i>Water Management Act 2000</i> or <i>Hunter Water Act 1991</i> ?	No
<b>Sensitive areas</b>	
Land declared as area of outstanding biodiversity value under the <i>Biodiversity Conservation Act 2016</i> or critical habitat under Part 7A of the <i>Fisheries Management Act 1994</i> ?	No
Wetlands of international significance listed under the Ramsar Wetlands Convention?	No
Land designated as a nationally important wetland in the Directory of Important Wetlands?	No
Coastal wetlands mapped under <i>State Environmental Planning Policy (Resilience and Hazards) 2021</i> ?	No
Littoral rainforests mapped under <i>State Environmental Planning Policy (Resilience and Hazards) 2021</i> ?	No
Coastal zone as defined in the <i>Coastal Management Act 2016</i> ?	No
Land identified in an environmental planning instrument as being of biodiversity/conservation significance or zoned for environmental conservation, protection and/or management?	No

Question	Yes/no
Waterfront land defined under the <i>Water Management Act 2000</i> ?	No
Land with a slope greater than 18 degrees measured from the horizontal?	No
<b>Land with potential for soil and water contamination</b>	
Land mapped as Actual Acid Sulfate Soils (AASS) or Potential Acid Sulfate Soils (PASS) on the Acid Sulfate Soils Risk Maps for NSW?	No
<b>Aboriginal protection areas</b>	
Land identified in an environmental planning instrument (such as a State Environmental Planning Policy or Local Environment Plan) as being of Aboriginal cultural significance?	No
Land declared as an Aboriginal place under the <i>National Parks and Wildlife Act 1974</i> ?	No
<b>Historic or natural heritage protection areas</b>	
Land listed on the World Heritage List, National Heritage List or Commonwealth Heritage List?	No
Land, places, buildings or structures listed on the NSW State Heritage Register?	No
Land identified in an environmental planning instrument (such as a State Environmental Planning Policy or Local Environment Plan) as being of heritage significance or a heritage conservation area?	No
<b>Critical industry clusters</b>	
Land identified as Critical Industry Cluster under <i>State Environmental Planning Policy (Resources and Energy) 2021</i> ?	No
<b>Community land</b>	
Public land classified as community land under the <i>Local Government Act 1993</i> ?	No
<b>Other areas</b>	
Land identified on the authority (e.g. exploration licence or assessment lease) as environmentally sensitive land?	No
<b>Ecology</b>	
Will the activity have a significant effect on threatened species or their habitats?	No
Will the activity have a significant effect on threatened ecological communities or their habitats?	No
Will vegetation be removed as part of access track upgrade works in waterfront land?	No
<b>Aboriginal and European heritage</b>	
Will the activity harm Aboriginal objects as defined under the <i>National Parks and Wildlife Act 1974</i> ?	No
Will the activity damage any listed heritage items?	No

## Attachment 1 – Statement of commitments

Item	Commitment
<b>Activity type</b>	<p>Exploration activity comprising:</p> <ul style="list-style-type: none"> <li>• 0 diamond drill holes</li> <li>• 2 reverse circulation drill holes</li> <li>• 0 other drill holes</li> <li>• 0 cubic metres of bulk sampling</li> <li>• 0 square metres of new access tracks</li> <li>• 0 lines of seismic testing</li> <li>• 0 square metres of air core drilling</li> <li>• 0 square metres of other drilling</li> </ul>
<b>Activity location</b>	50km SE of Broken Hill, within EL 9220 (1992).
<b>Activity scope (including any ancillary activities)</b>	<p>The RC program will require a multi purpose drilling rig, support truck with rods, truck mounted booster, support light vehicle. No new tracks or drill pads are required but below ground sumps will be utilised for drilling, excavations will be 3m X 3m X 3m (18m<sup>2</sup> surface disturbance and 54m<sup>3</sup> excavation for both proposed drill holes). There is no vegetation to clear and the soil is skeletal. The thin soil will be stockpiled adjacent to the sump and the sump will be filled back up when it is dry and as soon as practical following drilling, with the aim of returning the site to its original state. It is anticipated the drilling will commence on the 16th November 2024 and be completed on the 20th December 2024. Daily operational hours will be 0630 hours to 1630 hours.</p> <p>Water for drilling will be stored in below ground sumps and brought in from Broken Hill in a water truck. All water from the drilling operation will be contained in these below ground sumps. All drilling fluids and waste will be stored in containers in a bunded area and removed from site at the end of the program. All drilling fluids are 100% biodegradable and will be stored in bunded areas adjacent to the drilling operations.</p>
<b>Hours of operation</b>	Continuous work hours (24 hours a day, 7 days a week).
<b>Expected duration (weeks)</b>	3 weeks
<b>Anticipated start date</b>	1 June 2024
<b>Expected rehabilitation completion date</b>	Estimated 21 June 2024
<b>Maximum area of disturbance</b>	18 square metres
<b>Air quality</b>	The title holder must implement all measures to prevent, so far as practicable, pollution caused by dust and other air pollutants.
<b>Protection of water sources</b>	<p>The title holder must implement all measures to prevent, so far as practicable, causing adverse impacts on water quality and quantity, including groundwater levels and pressure.</p> <p>Prior to the construction and use of any borehole, the holder of a coal prospecting title must prepare a Groundwater Monitoring and Modelling Plan in consultation with the Water Division of the NSW Department of Planning and Environment.</p>
<b>Erosion, sediment and soil controls</b>	The title holder must implement all measures to prevent, so far as is practicable, causing any land degradation or pollution of land or water.



Item	Commitment
	The title holder must implement all practicable measures to prevent harm to the environment when disturbing land in areas of potential acid sulfate soils and actual acid sulfate soils.
<b>Noise and vibration</b>	The titleholder must implement all practicable noise management measures to ensure that noise levels meet acceptable noise criteria for sensitive receivers. Unless otherwise agreed with relevant landholders, the title holder must notify any potentially affected landholders at least 24 hours prior to detonating explosives.
<b>Use of chemicals, fuels and lubricants</b>	<p>The titleholder must implement all measures to prevent, so far as is practicable, causing contamination of the environment by the release of chemicals, fuels, lubricants and other potential pollutants.</p> <p>The title holder must ensure that all chemicals, fuels and lubricants, excluding those contained within plant and equipment, are:</p> <ol style="list-style-type: none"> <li>a. stored and handled in accordance with any relevant Safety Data Sheet and Australian Standards for the material, and</li> <li>b. stored in appropriate containers that are in good condition and labelled to clearly identify the stored product, and</li> <li>c. kept in a facility or area which is capable of containing at least 110% of the largest container capacity stored within that area.</li> </ol> <p>The title holder must:</p> <ol style="list-style-type: none"> <li>a. ensure that adequate spill prevention and absorbent materials required to manage spills and leaks for all potential pollutants which are on site are readily available at all times, and</li> <li>b. use appropriate equipment and materials to capture any drips and spills which occur during the transfer of potential pollutants, and when carrying out maintenance of hydrocarbon filled plant and equipment.</li> </ol>
<b>Waste</b>	The titleholder must manage all waste in a manner which does not cause harm to the environment.
<b>Vegetation clearing and surface disturbance</b>	<p>The title holder must minimise the extent of any vegetation clearing and surface disturbance to as low as practicable.</p> <p>The boundaries of any areas of vegetation clearing and surface disturbance must be demarcated.</p> <p>The title holder must implement all measures to prevent, so far as practicable, adverse impacts to fauna caused by vegetation clearing or surface disturbance.</p> <p>The title holder must inspect trees and canopy branches for fauna prior to felling or branch removal, and clearly demarcate any hollows or active bird nests.</p> <p>The title holder must not proceed with tree felling or branch removal until any resident fauna have been relocated by an ecologist or other competent party.</p>
<b>Roads and tracks</b>	<p>The title holder must consult with relevant landholders prior to establishing any new roads or tracks.</p> <p>The title holder must plan, design, construct, maintain and use roads and tracks in a manner which minimises the area and duration of disturbance to the environment and landholders to as low as practicable.</p> <p>The title holder must construct any crossings of rivers, permanent and intermittent water lands and wetlands to prevent, so far as practicable, impacts on fish habitats.</p> <p>The title holder must refrain from using any unsealed road or track during wet conditions to prevent damage to that road or track, unless the road or track has been designed and constructed for use in wet conditions, or the landholder expressly consented to the use of that road or track in wet conditions.</p>

Item	Commitment
	Unless otherwise agreed with the relevant landholder, the title holder must repair all damage to existing roads and tracks resulting from exploration activities.
<b>Aboriginal and other cultural heritage</b>	The titleholder must implement all measures to prevent, so far as practicable, harm to Aboriginal cultural heritage and non-indigenous cultural heritage.
<b>Weeds, pest animals and diseases</b>	The titleholder must implement all practicable measures to prevent the introduction and spread of weeds, pest animals and animal and plant diseases.
<b>Livestock protection</b>	The title holder must implement all measures to prevent, so far as practicable, causing adverse impacts to livestock.
<b>Fire prevention</b>	The title holder must implement all measures to prevent, as far as practicable, the ignition and spread of fire.
<b>Rehabilitation commitments</b>	The activity will be undertaken in accordance with the rehabilitation objectives and targets provided for this project.
<b>Risk assessments</b>	The title holder must monitor the risks associated with activities and, if the risk associated with an activity changes, implement revised environmental management controls.
<b>Incident management</b>	The NSW Resources Regulator will be notified of all incidents in accordance with the requirements of EL 9220 (1992).
<b>Reporting</b>	Reporting to the NSW Resources Regulator and Mining, Exploration and Geoscience – Department of Regional NSW will be in accordance with the legislation and conditions of EL 9220 (1992).
<b>Codes of Practice</b>	Kanbarra will be operated in accordance with: <ul style="list-style-type: none"> <li>• Exploration Code of Practice: Environmental Management    Exploration Code of Practice: Rehabilitation</li> </ul>
<b>Other (as applicable)</b>	1. No additional terms specified.

## Attachment 2 – Definitions

To search for NSW legislation, visit [www.legislation.nsw.gov.au](http://www.legislation.nsw.gov.au). Commonwealth legislation can be found at [www.legislation.gov.au](http://www.legislation.gov.au).

Word	Definition
<b>Aboriginal object</b>	Has the same meaning as it has in the <i>National Parks and Wildlife Act 1974</i> .
<b>Aboriginal place</b>	Has the same meaning as it has in the <i>National Parks and Wildlife Act 1974</i> .
<b>Acid Sulfate Soils</b>	Sediments and soils containing iron sulfides which, when exposed to oxygen, generate sulfuric acid.  Acid sulfate soils include actual acid sulfate soils (AASS) or potential acid sulfate soils (PASS).
<b>Activity</b>	Any activity carried out in connection with exploration, including: <ul style="list-style-type: none"> <li>• the use of land</li> <li>• means of accessing land</li> <li>• the carrying out of a work.</li> </ul>
<b>Activity approval</b>	An approval to carry out assessable prospecting operations granted under the <i>Mining Act 1992 / Petroleum (Onshore) Act 1991</i> – as relevant.
<b>Actual Acid Sulfate Soils (AASS)</b>	Sediments and soils containing highly acidic soil horizons or layers resulting from the aeration of sediments and soils that are rich in iron sulfides, primarily sulphide.
<b>Applicant</b>	In relation to an exploration activity, the person proposing to carry out the exploration activity.
<b>Aquatic reserve</b>	Has the same meaning as it has in the <i>Marine Estate Management Act 2014</i> .
<b>Areas of Outstanding Biodiversity Value (AOBVs)</b>	Has the same meaning as it has in the <i>Biodiversity Conservation Act 2016</i> .  Note: Areas of declared critical habitat under the now repealed <i>Threatened Species Conservation Act 1995</i> have become Areas of Outstanding Biodiversity Value (AOBVs) under the <i>Biodiversity Conservation Act 2016</i> .
<b>Assessable prospecting operation</b>	Any prospecting operation that is not exempt development within the meaning of <i>State Environmental Planning Policy (Resources and Energy) 2021</i> .
<b>Clearing of vegetation</b>	Any one or more of the following: <ul style="list-style-type: none"> <li>• cutting down, felling, thinning, lopping, logging or removing vegetation, or</li> <li>• killing, destroying, poisoning, ringbarking, uprooting or burning vegetation.</li> </ul>
<b>Complying exploration activities (CEA)</b>	Exploration activities that are considered unlikely to significantly affect the environment as set out in <i>Exploration guideline: Application and assessment process for exploration activities</i> .
<b>Critical habitat</b>	Has the same meaning as it has in the <i>Fisheries Management Act 1994</i> .  Areas of declared critical habitat under the now repealed <i>Threatened Species Conservation Act 1995</i> have become Areas of Outstanding Biodiversity Value (AOBVs) under the <i>Biodiversity Conservation Act 2016</i> .
<b>Drill hole</b>	A hole made by drilling or boring, but excludes: <ul style="list-style-type: none"> <li>• sampling and coring using handheld equipment</li> <li>• petroleum wells.</li> </ul>
<b>Drilling</b>	The perforation of the earth's surface crust by mechanical means to form a hole, whether the hole caused by the perforation is vertical, inclined or horizontal, and

Word	Definition
	includes all operations for preventing collapse of the sides of such hole or for preventing it from being filled with extraneous materials including water
<b>Environment</b>	Has the same meaning as it has in the <i>Mining Act 1992 / Petroleum (Onshore) Act 1991</i> – as relevant.
<b>Environmentally sensitive area of State significance</b>	Has the same meaning as it has in <i>State Environmental Planning Policy (Resources and Energy) 2021</i> .
<b>Excavation</b>	The removal of the surface layer to a depth greater than 500 mm from the natural surface level.
<b>Exempt development</b>	Has the same meaning as it has in <i>State Environmental Planning Policy (Resources and Energy) 2021</i> .
<b>Exploration</b>	Has the same meaning as it has in <i>State Environmental Planning Policy (Resources and Energy) 2021</i> .
<b>Fauna</b>	Has the same meaning as it has in the <i>National Parks and Wildlife Act 1974</i> .
<b>Groundwater</b>	Water that occurs beneath the ground surface in the saturated zone.
<b>Habitat</b>	Has the same meaning as it has in the <i>Biodiversity Conservation Act 2016</i> or the <i>Fisheries Management Act 1994</i> (as relevant).
<b>Harm</b>	<p>In relation to matters of national environmental significance, has the same meaning as 'significant impact' as provided by the 'Significant Impact Guidelines' used to determine whether assessment and approval is required under the <i>Commonwealth Environment Protection and Biodiversity Conservation Act 1999</i>.</p> <p>In relation to the environment, has the same meaning as it has in the <i>Protection of the Environment Operations Act 1997</i>.</p> <p>In relation to threatened species or ecological communities, has the same meaning as:</p> <ul style="list-style-type: none"> <li>• 'harm an animal' in the <i>National Parks and Wildlife Act 1974</i></li> <li>• 'pick a native plant' in the <i>National Parks and Wildlife Act 1974</i></li> <li>• 'harm' in the <i>Fisheries Management Act 1994</i>.</li> </ul> <p>In relation to an aquifer or waterfront land, has the same meaning as it has in the <i>Water Management Act 2000</i>.</p> <p>In relation to Aboriginal places or Aboriginal objects has the same meaning as it has in the <i>National Parks and Wildlife Act 1974</i>.</p> <p>In relation to items of heritage significance, has the same meaning as it has in the <i>Heritage Act 1977</i>.</p> <p>In relation to protected marine vegetation, has the same meaning as it has in the <i>Fisheries Management Act 1994</i>.</p>
<b>Items of heritage significance</b>	<p>Means:</p> <ul style="list-style-type: none"> <li>• any heritage items listed in one or more of the following: <ul style="list-style-type: none"> <li>— the Commonwealth Heritage List</li> <li>— the World Heritage List</li> <li>— the National Heritage List</li> <li>— the State Heritage Register</li> <li>— an Environmental Planning Instrument</li> </ul> </li> </ul>

Word	Definition
	<ul style="list-style-type: none"> <li>• any relic (being any deposit, object or material evidence which relates to the settlement of the area that comprises New South Wales, not being Aboriginal settlement, and which is 50 or more years old), or</li> <li>• within State Conservation Areas: <ul style="list-style-type: none"> <li>— items that are listed on the DECC Historic Heritage Information Management System, or</li> <li>— any deposit, object or material evidence relating to the settlement or occupation of New South Wales or a part of New South Wales (not being Aboriginal settlement or occupation) if the deposit, object or material evidence is more than 25 years old at the date of the interference or removal.</li> </ul> </li> </ul>
<b>Land</b>	<p>Includes:</p> <ul style="list-style-type: none"> <li>• the sea or an arm of the sea</li> <li>• a bay, inlet, lagoon, lake or body of water, whether inland or not and whether tidal or non-tidal</li> <li>• a river, stream or watercourse, whether tidal or non-tidal, and</li> <li>• a building erected on the land</li> </ul>
<b>Marine vegetation</b>	Has the same meaning as it has in the <i>Fisheries Management Act 1994</i> .
<b>Matters of national environmental significance</b>	'Matters of national environmental significance' protected under the <i>Commonwealth Environment Protection and Biodiversity Conservation Act 1999</i> .
<b>Minister</b>	The Minister administering the <i>Mining Act 1992 / Petroleum (Onshore) Act 1991</i> – as relevant.
<b>Native vegetation</b>	Has the same meaning as it has in the <i>Local Land Services Act 2013</i> .
<b>Potential acid sulphate soils (PASS)</b>	Sediments and soils that contain iron sulfides or sulfidic material which have not been exposed to air and oxidised
<b>Produced water</b>	Any form of groundwater that is actively extracted from a borehole or excavation, excluding incidental groundwater mixed with drilling fluids.
<b>Rehabilitation</b>	Has the same meaning as it has in the <i>Mining Act 1992 / Petroleum (Onshore) Act 1991</i> – as relevant.
<b>Seismic survey</b>	The use of shock waves (generated in the ground using either small explosive charges detonated below the surface, hand-held mechanical hammers or vehicle-mounted hammers) and an array of geophones, which are connected to measuring instruments, to differentiate the geophysical properties of the subsurface of the earth.
<b>Sensitive receiver</b>	<p>Includes:</p> <ul style="list-style-type: none"> <li>• dwellings</li> <li>• libraries</li> <li>• educational and research institutions (including schools, colleges and universities)</li> <li>• childcare centres</li> <li>• kindergartens</li> <li>• hospitals, surgeries and other medical institutions</li> <li>• places of worship</li> </ul>

Word	Definition
	<ul style="list-style-type: none"> <li>• milking sheds and holding yards associated with dairies</li> <li>• animal boarding or training establishments</li> <li>• aquaculture</li> <li>• intensive livestock agriculture</li> </ul>
<b>Site</b>	The land on which an activity is located.
<b>State Conservation Area</b>	Has the same meaning as it has in the <i>National Parks and Wildlife Act 1974</i> .
<b>Surface disturbance</b>	Means: <ul style="list-style-type: none"> <li>• disturbance or exposure of the soil or surface rock layer, or</li> <li>• degradation or deterioration in any manner of the physical surface of land.</li> </ul>
<b>Terms</b>	In relation to activity approvals, the terms imposed by the decision-maker on the grant of an activity approval.
<b>Threatened species or ecological communities</b>	Has the same meaning as it has in the <i>Biodiversity Conservation Act 2016</i> or <i>Fisheries Management Act 1994</i> (as relevant).
<b>Title</b>	An authority under the <i>Mining Act 1992</i> / a title under the <i>Petroleum (Onshore) Act 1991</i> – as relevant.
<b>Titleholder</b>	A person or company to whom a title has been issued.
<b>Track</b>	All unsealed routes that will be traversed multiple times, but does not include single pass (ingress and egress) routes or seismic shot and receiver lines.
<b>Waste</b>	Has the same meaning as it has in the <i>Protection of the Environment Operations Act 1997</i> .
<b>Water source</b>	Has the same meaning as it has in the <i>Water Management Act 2000</i> .
<b>Water land</b>	Has the same meaning as it has in the <i>Fisheries Management Act 1994</i> .
<b>Waterfront land</b>	Has the same meaning as it has in the <i>Water Management Act 2000</i> .
<b>Wetlands</b>	Has the same meaning as it has in the <i>Fisheries Management Act 1994</i> .
<b>Wilderness</b>	Lands identified as wilderness under the <i>Wilderness Act 1987</i> .
<b>Wilderness area</b>	Lands (including subterranean lands) declared to be a wilderness area under the <i>Wilderness Act 1987</i> or the <i>National Parks and Wildlife Act 1974</i> .

## Attachment 3 – List of supporting documents

- 10 SIAEEP Report - Eastborehole Threatened Impact Assessment - 23 Feb 2024 red.pdf
  - 4 AHIMS ExtensiveSearchReport.zip
  - 4 AHIMS ExtensiveSearchReport.zip
  - APO0001732\_Submission Report\_10 Apr 2024 5:20pm.pdf
  - APO0001732\_Submission Report\_13 Mar 2024 4:44pm.pdf
  - Drillhole Locations.jpg
  - Matters of National Environmental Significance Records.zip
  - Site Photos.pdf
  - Timber Reserve Correspondence - No Agreement Required.zip

FORM: APO\_C\_Apvl v3.1