

**PRELIMINARY SITE CONTAMINATION
INVESTIGATION**

1455 & 1475 BURRAGORANG ROAD & 1838 BARKERS LODGE ROAD
OAKDALE NSW

PREPARED FOR
COLLIERS INTERNATIONAL ENGINEERING & DESIGN
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EXECUTIVE SUMMARY

GEE was commissioned by Colliers International Engineering & Design (CED) to undertake a Preliminary Site (contamination) Investigation (PSI) for the site located at 1455 & 1475 St Burragorang Road & 1838 Barkers Lodge Road, Oakdale NSW 2570. The site covers an area of approximately 22.7 hectares and is legally described as Lot 6, Lot 2 and Lot 1 of DP 734561.

The investigation was requested to support a rezoning and subdivision submission to Wollondilly Shire Council which would enable urban development for new homes, while also protecting the existing forest. No development is proposed under the planning submission.

The objective of the PSI was to address the requirements of the State Environmental Planning Policy (Resilience and Hazards) 2021 (reference 1) including addressing the current and historical use of the land and identifying areas of potential for contamination and possible constraints on the planning proposal.

The investigation comprised a:

- ◇ Review of the history of the site and surrounding area to provide an understanding of past and present site activities which in turn may indicate sources and areas of potential contamination as well as potential chemicals of concern,
- ◇ Review of the environmental and physical setting in which the site lies, and
- ◇ Detailed site inspection for potential sources of contamination.

In summary, the PSI identified several areas and sources of potential contamination which are summarised in Section 5.1 of this report. The areas of potential contamination are unlikely to prevent the proposed development or future residential use. However, should be characterised by completing a Detailed Site (contamination) Investigation (DSI) be completed in accordance with the NSW EPA (2020) *Contaminated Land Guidelines: Consultants Reporting on Contaminated Land* and NEPM (2013) Schedule B(2) *Guideline on Site Characterisation*. Although such work is only considered to be relevant as part of any future development submissions in these areas of environmental concern.



1 PROJECT INFORMATION

1.1 INTRODUCTION AND OBJECTIVES

Geo-Environmental Engineering Pty Ltd (GEE) was commissioned by Colliers International Engineering & Design (CED) to undertake a Preliminary Site (contamination) Investigation (PSI) for the site located at 1455 & 1475 St Burragorang Road & 1838 Barkers Lodge Road, Oakdale NSW 2570 (herein referred to as the 'site' – **Figure 1**). The site covers an area of approximately 22.7 hectares and is legally described as Lot 6, Lot 2 and Lot 1 of DP 734561.

A plan showing the extent of each of the above allotments and addresses is shown on **Figure 2** along with a recent aerial photograph taken in August 2022.

The investigation was requested to support a rezoning and subdivision submission to Wollondilly Shire Council which would enable urban development for new homes, while also protecting the existing forest. No development is proposed under the planning submission. The objective of the PSI was to address the requirements of the State Environmental Planning Policy (Resilience and Hazards) 2021 (reference 1) including addressing the current and historical use of the land and identifying areas of potential for contamination and possible constraints on the planning proposal.

In this regard, GEE has completed a *Preliminary Site Investigation* (PSI) in accordance with the NSW Environment Protection Authority (NSW EPA) *Contaminated Land Guidelines: Consultants Reporting on Contaminated Land* (reference 1) and NEPM (2013) Schedule B(2) *Guideline on Site Characterisation* (reference 3).

1.2 PREVIOUS INVESTIGATIONS

GEE is not aware of any previous contamination site assessments that may have been conducted at the site, or part thereof.

1.3 PROPOSED DEVELOPMENT

As mentioned above, no specific development is currently proposed. However, this report was prepared to support a rezoning and subdivision submission to Wollondilly Shire Council which would enable urban development for new homes, while also protecting the existing forest. A plan of potential rezoning and future development is provided in **Appendix A**.



In summary the proposal would result in 208 low-density residential lots, 3 super lots for Environmental Conservation & Environmental Management purposes and 1 lot containing the Stormwater basin.

1.4 OBJECTIVES AND SCOPE OF WORK

The objective of the PSI was to identify past and present contaminating activities, potential contamination types and to assess the need for further investigation.

To achieve the above objectives, GEE completed the following scope of works:

- ◇ A review of the history of the site and surrounding land to provide an understanding of past and present site activities which in turn may indicate sources and areas of potential contamination as well as potential chemicals of concern,
- ◇ A review of the environmental and physical setting in which the site lies, including geology, hydrogeology and topography,
- ◇ A detailed site inspection for potential sources of contamination, and
- ◇ Preparation of this report, including a statement as to the risk of contamination beneath the site.



2 SITE IDENTIFICATION

A summary of the site identification details is provided below, while a site location map is provided as **Figure 1**:

Street Address:	1455 & 1475 Burragorang Road & 1838 Barkers Lodge Road, Oakdale NSW 2570.
Legal Description:	Lot 6, Lot 2 and Lot 1 of DP 734561.
Coordinates (MGA 56):	-34.081324870 Lat, 150.513876630 Long.
Site Area:	Approximately 22.7 hectares.
Current Zoning:	RU1 – Primary Production ¹ .
Current Use:	Semi-rural residential.
Proposed Zoning:	R2 – Residential and C2 - Environmental Conservation
Proposed Use:	Low density residential with lot sizes of between 450m ² and 700m ² , while also protecting the existing forest.

A site plan showing existing site allotments and addresses is provided as **Figure 2** along with a recent aerial photograph.

¹ Wollondilly Local Environmental Plan 2011.



3 HISTORY OF THE SITE AND SURROUNDING LAND

The history of the site was researched to provide an understanding of past and present site activities which in turn may indicate sources and areas of potential contamination.

Information obtained and reviewed included:

- ◇ Historical title information obtained from InfoTrack.
- ◇ Historical aerial photographs dating back to 1962, as supplied by the NSW Land and Property Information, or online sources such as Google Earth, and obtained by Lotsearch Pty Ltd.
- ◇ Historical business directory records from 1950, 1961, 1965, 1970, 1975, 1978, 1982, 1986, and 1991 which is provided by Lotsearch Pty Ltd.
- ◇ An internet search for any relevant historical information about the site.
- ◇ Council records of past development applications and approvals.
- ◇ A search of the contaminated land database, which is available on the NSW EPA website, was conducted which reveals if there have been any records of written notices issued on the site by EPA under the Contaminated Land Management Act 1997 (CLM Act), including preliminary investigation orders. Additionally, the search can reveal if the site has ever been notified to the EPA under Section 60 duty to report contaminated sites, of the CLM Act.
- ◇ A search of records under the PFAS investigation program.
- ◇ A search of the NSW EPA Protection of the Environment Act public register of licences, applications and notices that are maintained under Section 308 of the Protection of the Environment Operations (POEO) Act 1997.
- ◇ A search of dangerous goods licences held with SafeWork NSW. These licences often include information on past or present underground fuel storage tanks (USTs).
- ◇ A search of local and state heritage registers.

3.1 HISTORICAL TITLE INFORMATION

A summary of the title information provided below for each of the existing allotments is provided in **Appendix B** and includes a list of the registered proprietors and their occupations (where available) dating back to 1920.

In summary, the three allotments which currently form the site were created in the mid-1980s after subdivision from a larger parcel that included land to the east. A review of the registered proprietors of the current and former allotments did not reveal any information



on potential contaminating activities. Most proprietors were individuals which suggests rural / residential land-use rather than commercial/industrial land-use. The exceptions were likely property investment entities.

3.2 HISTORICAL AERIAL PHOTOGRAPHS

Historical aerial photography was sourced by Lotsearch Pty Ltd and included in their report, a copy of which is provided in **Appendix C**. This included aerial photographs from between 1962 and 2021. A summary of the findings from each photograph is provided below with information (where possible) from our site inspection.

<u>Year</u>	<u>Site</u>	<u>Surrounding Land</u>
1962	The entire site appears to be undeveloped and is covered by vegetation, including trees.	The surrounding land is predominately undeveloped, except for some rural/residential properties to the north and south. The property to the south appears to be an orchard. Both Burragorang Road & Barkers Lodge Road are formed.
1972	Most of the vegetations / trees across the southern part of the site, which forms the majority of 1838 Barkers Lodge Road (Lot 6), has been cleared and two earth farm dams constructed. One of the dams is located in the central part of this property and the other is at the eastern end. There are also some small structures / buildings located approximately midway along the southern boundary which include the existing dwelling, garage/shed and a small animal shelter. There are no obvious land-use activities other than potentially animal grazing.	No significant changes.
1983	No significant changes.	There is a quarry located immediately to the north-west of the site on land which will become the Willis Park sports fields. Land to the west has been cleared of trees. There are also some residential subdivisions being formed to the west.



1994	<p>Much of the trees on the northern part of the site (i.e. 1455 & 1475 Burragorang Road) have been cleared and the existing dwelling on No. 1455 (north-east corner allotment) has been constructed along with the detached garage/shed to the south-west of the dwelling. The existing small, earth farm dam in the north-western corner of this allotment has also been constructed.</p> <p>On No. 1475, the existing garage/shed was also constructed but not the existing dwelling. This suggests that 1455 & 1475 were once a combined property.</p>	<p>The former quarry has been filled.</p> <p>There is no longer evidence of an orchard on land to the south.</p> <p>There has been increased residential development to the north and west of the site.</p>
2006	<p>There is some disturbed ground in the centre of No. 1838 Barkers Lodge Road (Lot 6).</p> <p>The existing dwelling on No. 1475 Burragorang Road has been constructed which indicates that both Lots 1 and 2 are now formed.</p> <p>More trees have been cleared from the rear (southern end) of No. 1455 Burragorang Rd.</p>	<p>Land to the south appears to have some cultivated areas where the former orchard was located.</p>
2010	<p>No significant changes, although there appears to be some scattered debris surrounding the dwelling and garage/shed on 1475 Burragorang Road (Lot 1).</p>	<p>No significant changes</p>
2013	<p>No significant changes</p>	<p>No significant changes</p>
2013	<p>No significant changes.</p>	<p>No significant changes</p>
2016	<p>No significant changes although the existing metal shipping containers on Lot 1 are now visible.</p> <p>There also appears to be some scattered debris at the rear of 1475 Burragorang Road (Lot 1).</p>	<p>No significant changes</p>
2018	<p>No significant changes</p>	<p>No significant changes</p>
2021	<p>No significant changes. The former disturbed ground at the centre of No. 1838 Barkers Lodge Road has predominately been revegetated.</p>	<p>No significant changes</p>



A summary of the information obtained from the historical aerial photography is provided in the following subsections and has been separated into the three individual addresses / allotments that form the site.

3.2.1 1838 Barkers Lodge Road (Lot 6 DP734561)

In the earliest available photograph from 1962, this part of the site was almost entirely covered by trees and other vegetation. Between 1962 and 1972, most of the allotment was cleared except for the trees in the north-eastern portion which is the existing Shale transition forest referred to in this report. During this time, the existing dwelling, garage/shed and small animal shelter was constructed approximately midway along the southern boundary, and the two existing farm dams were also constructed.

Some metal shipping containers were added to the property between 2013 and 2016 just to the west of the garage/shed. Since then, there have been no significant changes observed in the aerial photographs.

Throughout all the available photographs there were no obvious land-use activities observed other than use of the site for general urban residential activities and potentially animal grazing.

3.2.2 1455 Burragorang Road (Lot 2 DP734561)

In the earliest available photograph from 1962, this part of the site was almost entirely covered by trees and other vegetation. Most of these trees were cleared between 1983 and 1994, and the existing dwelling and detached garage / shed were constructed centrally to the property, along with a small earth farm dam in the north-western corner of the allotment. Since then, there have been no significant changes observed in the aerial photographs.

Throughout all the available photographs there were no obvious land-use activities observed other than use of the site for general urban residential activities and potentially animal grazing.

3.2.3 1475 Burragorang Road (Lot 1 DP734561)

In the earliest available photograph from 1962, this part of the site was almost entirely covered by trees and other vegetation. Most of these trees were cleared between 1983 and 1994, and the existing garage/shed was constructed. With no dwelling visible, it is possible that both 1455 and 1475 Burragorang Road properties were combined.



This changed between 1994 and 2006 when the existing dwelling was constructed. Since then, there have been no significant changes observed in the aerial photographs apart from evidence of sporadic surface debris around the garage/shed and house, and at the rear of the site.

Throughout all the available photographs there were no obvious land-use activities observed other than use of the site for general urban residential activities and potentially animal grazing.

3.2.4 Surrounding Land

In the earliest available photograph from 1962, the surrounding land was predominately covered by trees except for some rural/residential properties to the north and south. The property to the south also appeared to be an orchard. Since then, there has been a gradual transition to smaller scale and predominately residential properties to the north and west. Land to the south and east has remained rural/residential and the original orchard to the south appeared to transition from an orchard to other crops and potentially market gardens.

The main exception was a former quarry at the location of the existing Willis Park sports field that adjoins the site to the west / north-west (**Figure 2**). The quarry was excavated between 1972 and 1983 and filled between 1983 and 1994. GEE has made an enquiry with Wollondilly Councils Environmental Officer for some background information on the quarry and what material was used to fill the quarry.

3.3 BUSINESS DIRECTORY LISTINGS

A search of available business directory records between 1950 and 1991, and within 150m of the site, was completed by Lotsearch Pty Ltd (**Appendix C**) to assist with determining any past land-use activities, and past land-use activities that may cause contamination. However, there were no available records within the buffer.

3.4 COUNCIL RECORDS

GEE made an enquiry with Wollondilly Shire Council about past development applications and approvals relating to the site which can provide an indication of past land-use activities. In summary, no additional and relevant records were obtained.



3.5 HISTORICAL INTERNET SEARCH

GEE completed a search of historical information relating to the site, but no relevant information was obtained apart from websites for the existing developments on the site which provided some background to the history of these developments.

3.6 CONTAMINATED LAND DATABASE

A search of the contaminated land database was conducted by Lotsearch Pty Ltd (**Appendix C**) and revealed there has been no record of written notices issued on the site, by the EPA, under the Contaminated Land Management Act 1997 (CLM Act), including preliminary investigation orders. Additionally, the site has never been notified to the EPA under Section 60 duty to report contaminated sites, of the CLM Act.

Additionally, there were no properties within 1km of the site which have been notified to the NSW EPA under Section 60 of the CLM Act or had contamination notices issued on them by the EPA.

3.7 EPA PFAS INVESTIGATION PROGRAM

A search of sites that are part of the EPA, Defence or Airservices Australia PFAS investigation programs was completed by Lotsearch (**Appendix C**) and it revealed no records within the search buffer of 1km.

3.8 POEO REGISTER SEARCH

A search of the NSW EPA Protection of the Environment Act public register of licence, applications and notices was undertaken which contains information on:

- ◇ environment protection licences.
- ◇ applications for new licences and to transfer or vary existing licences.
- ◇ environment protection and noise control notices.
- ◇ penalty notices issued by the EPA.
- ◇ convictions in prosecutions under the POEO Act.
- ◇ the results of civil proceedings.
- ◇ licence review information.
- ◇ exemptions from the provisions of the POEO Act or regulations.
- ◇ approvals granted under clause 9 of the POEO (Control of Burning) Regulation.
- ◇ approvals granted under clause 7A of the POEO (Clean Air) Regulation.



- ◇ any mandatory audits required to be undertaken in relation to a licence.
- ◇ each pollution study required by a condition of a licence.
- ◇ each pollution reduction program required by a condition of a licence; and
- ◇ each penalty notice issued in relation to a premises.

The search did not identify any records for the site, or for any properties located within 1km of the site.

3.9 HERITAGE REGISTERS

A search of commonwealth, state and local heritage registers was completed by Lotsearch (**Appendix C**) and the search found no heritage items associated with the site.

3.10 SUMMARY OF HISTORY INFORMATION

3.10.1 The Site

Based on review of the historical information, the three allotments which currently form the site were created in the mid-1980s after subdivision from a larger parcel that included land to the east.

Up until at least 1962, the site was undeveloped and covered by trees and other vegetation. Between 1962 and 1972, most of the southern allotment (No. 1838 Barkers Lodge Road) was cleared, and the existing dwelling and garage/shed on this property was constructed approximately midway along the southern boundary. The two existing earth, farm dams were also constructed during the same time.

After being formed in the mid-1980s, the northern two allotments (1455 & 1475 Burragorang Road) were predominately cleared of trees and other vegetation and the existing dwelling and detached garage shed on No. 1455 was constructed along with a small earth farm dam in the north-western corner of the allotment. The existing garage/shed on No. 1475 was also constructed around the same time with the dwelling on this property constructed between 1994 and 2006.

In summary, the site appears to have only been used for rural/residential purposes which is relatively benign from a land contamination perspective. However, the age of the original dwellings and garage/shed on 1838 Barkers Lodge Road suggests that Asbestos Containing Material (ACM) and/or lead based paints may have been used. Therefore, any renovations, maintenance or the demolition of these structures may have resulted in near surface soils being impacted with lead and/or ACM.



There was also an area of disturbed ground within the central part of No. 1838 Barkers Lodge Road (Lot 6) which may have included imported fill and potentially contaminated fill.

3.10.2 Surrounding Land

Surrounding land and land-use activities have the potential to cause contamination of the site via groundwater or surface water migration.

In the earliest available photograph from 1962, the surrounding land was predominately covered by trees except for some rural/residential properties to the north and south. The property to the south also appeared to be an orchard. Since then, there has been a gradual transition to smaller scale and predominately residential properties to the north and west, while the land to the south and east has remained rural/residential with the original orchard to the south transitioning from an orchard to other crops and potentially market gardens. The main exception was a former quarry at the location of the existing Willis Park sports field that adjoins the site to the west / north-west (**Figure 2**). The quarry was excavated between 1972 and 1983 and filled between 1983 and 1994.

GEE notes that orchards and market gardens are recognised as potentially contaminating because of historic use of pesticides (insecticides, fungicides, herbicides and soil fumigants). According to the NSW DEC (2005) *Guidelines for Assessing Former Orchards and Market Gardens* (reference 4), pesticides registered for use in orchards and market gardens in NSW include both organic and inorganic compounds. The document also states that many of the organic compounds are likely to have decomposed in the soil within a year. Organochlorines are more persistent although their use was restricted or prohibited in NSW in the 1980s and 1990. Furthermore, a 1995 review of soil sampling results from orchards and market gardens in NSW suggested that pesticide use has not resulted in significant contamination and that contamination is more likely to be the result of chemical spills or leaks. In summary, considering the likely depth to groundwater and relatively low permeability of the regional soils, it is highly unlikely that any pesticides use on the land to the south would have impacted on the site.

With respect to the former quarry, GEE has made an enquiry with Wollondilly Councils Environmental Officer for some background information on the quarry and what material was used to fill the quarry. If filled with waste material, including putrescible waste, then the quarry would represent a risk of contamination to the site, via potential groundwater or sub-surface gas migration. Although, GEE has not found any online reference to Willis Park being a former landfill and it is not listed on the NSW EPA contaminated land register.



4 SITE CONDITION AND SURROUNDING ENVIRONMENT

This section of the report provides a detailed description of the physical and environmental setting of the site, including a description of the site and the presence of any visible signs of contamination.

4.1 SITE DESCRIPTION

As previously mentioned, the site is currently an amalgamation of three predominantly vacant, semi-rural properties / allotments. Each of the lots contains a dwelling and various outbuilding and a more detailed description each of these properties/allotments is provided in the following sub-sections.

4.1.1 1838 Barkers Lodge Road (Lot 6 DP734561)

This parcel of land is at the southern end of the site and occupied by a one- and two-level fibro clad dwelling with a metal roof that is located approximately midway along the southern boundary. There was also detached metal garage/shed with a concrete floor just to the east of the dwelling, and both the dwelling and garage/shed were within a fenced compound. Between the two structures were several vehicles of which some appeared to be derelict. Access inside the fenced compound was not possible at the request of the tenant and because of a guard dog.

Immediately to the east and south-east of this compound were some metal shipping containers, a timber framed and metal clad animal shelter and some more derelict plant and equipment, including a large excavator. In the centre and western end of the property were two farm dams which appeared to have been constructed through local cut and fill earthworks. This is supported by our observations of the exposed banks which revealed a mixture clay and shale, which is local to this part of Sydney, and no visible foreign matter.

Elsewhere, most of the property is predominately covered by grass with some sporadic trees and appeared to be used for horse agistment. The exception was in the north-eastern corner of the property, and immediately east of Willis Park, where there is a Shale Sandstone Transition Forest and other vegetation.

During our site walkover inspection there was no unusual odours or surface staining that could be potentially associated with contamination and there was no evidence of significant earthworks including the importation of fill material. There was also no evidence of under-ground or above-ground, fuel or chemical, storage tanks observed across the site. However, of particular significance to this investigation was a stockpile in the central part of the property that included potential Asbestos Containing Materials (ACM) on the surface



in the form of fragments of fibrous cement sheeting. Much of the stockpile was covered by grass preventing a thorough inspection although other anthropogenic inclusions such as brick were visible. The Coordinates of the stockpile is -34.08235, 150.51115 (WGS84), while the volume was estimated to be approximately 50m³ (12m x 4m x 1m). A review of recent high resolution aerial photographs from Nearmap Limited (www.nearmap.com.au) indicates that the stockpile was formed Circa 2020.

Elsewhere there was sporadic surface anthropogenic waste debris noted, including car tyres and plastic within the forest area (Coordinates -34.08150, 150.513890). This waste debris was considered to be benign from a site contamination perspective. However, from an aesthetic perspective, and because it is intended to preserve this Forest, the waste debris should be removed.

A site plan showing the existing site features is provided as **Figure 3**, while photographs taken by GEE on the 30th May 2023 are provided for reference as Plates 1 to 14 below.



Plate 1: View towards the south showing the dwelling and garage/shed on Lot 6.



Plate 2: Some of the derelict vehicles to the east of the garage/shed. The timber framed and metal clad animal shelter is in the background.



Plate 3: View to the north showing some of the metal shipping containers on Lot 6.



Plate 4: View to the east showing entrance to Lot 6.



Plate 5: View to the west showing the stockpile on Lot 6 containing potential ACM.



Plate 6: Example of potential ACM on the stockpile on Lot 6.



Plate 7: Timber frames and metal clad shelter along the southern boundary of Lot 6.



Plate 8: Farm dam at the eastern end of Lot 6.



Plate 9: Farm dam in the centre of Lot 6.



Plate 10: View to the south along the eastern property boundary. Forest is to the right.



Plate 11: Example of car Tyres and plastic within the forest.



Plate 12: Example of car Tyres within the forest.

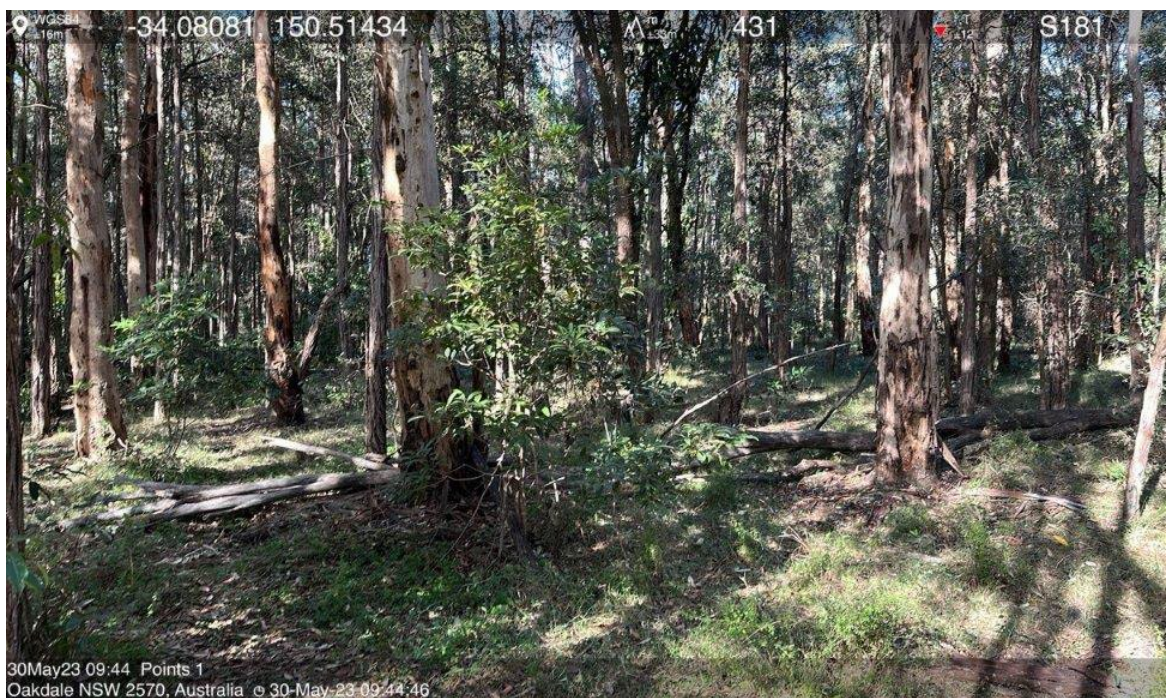


Plate 13: View south within the Forest.



Plate 14: View to the west across the western part of Lot 6.

4.1.2 1455 Burragorang Road (Lot 2 DP734561)

This parcel of land is in the north-eastern corner of the site and development on the site includes a one storey, brick dwelling with a tiled roof which is located at the end of a gravel driveway, approximately midway along the eastern boundary. There is also a detached metal garage/shed with a concrete floor located centrally to the property. Internal access to the was not possible during our site inspection but the owner advised that it was used for general storage and household items and gardening tools.

In the north-western corner of this allotment was a farm dam which appeared to have been constructed through local cut and fill earthworks. This is supported by our observations of the exposed banks which revealed a mixture clay and shale, which is local to this part of Sydney, and no visible foreign matter. Elsewhere, most of the property is predominately covered by grass with some sporadic trees.

During our site walkover inspection there were no unusual odours or surface staining that could be potentially associated with contamination and there was also no evidence of under-ground or above-ground, fuel or chemical, storage tanks observed across the site. Additionally, there was no evidence of significant earthworks, including the importation of fill material, and no visible presence of Asbestos Containing Materials (ACM) on the surface of the site.



A site plan showing the existing site features is provided as **Figure 4**, while photographs taken by GEE on the 30th May 2023 are provided for reference as Plates 15 to 20 below.



Plate 15: View towards the south from the front, north-western corner of Lot 2.



Plate 16: View to the north showing the farm dam on Lot 2.



Plate 17: View to the south-east showing the dwelling on Lot 2.



Plate 18: View to the south-west showing the metal clad garage/shed on Lot 2.



Plate 19: View to the north between the garage/shed and the dwelling on Lot 2.



Plate 20: View to the north from the southern boundary of Lot 2

4.1.3 1475 Burragorang Road (Lot 1 DP734561)

This parcel of land is in the north-western corner of the site and development on the site includes a one storey, brick dwelling with a tiled roof which is located centrally to the property. There is also a detached metal garage/shed with a concrete floor located to the east of the dwelling. Internal access to the shed was not possible during our site inspection,



however, the Lessor did advise that it was used for general storage of garden and plumbing tools associated with their plumbing business.

Surrounding the garage/shed was some piles of plumbing equipment, some old water heaters and other general waste debris. There was also a metal skip bin containing scrap metal. Amongst a cluster of trees in the south-eastern part of the property were two concrete water tanks and a metal clad, and timber framed, animal shelter. Adjacent to these trees and at the rear of the property were several piles of timber fence palings with one pile having been burnt, leaving some timber remnants and ash.

Elsewhere, most of the property was predominately covered by grass with some sporadic trees. Importantly there were no unusual odours or surface staining that could be potentially associated with contamination and there was also no evidence of under-ground or above-ground, fuel or chemical, storage tanks observed across the site. Additionally, there was no evidence of significant earthworks, including the importation of fill material, and no visible presence of Asbestos Containing Materials (ACM) on the surface of the site.

A site plan showing the existing site features is provided as **Figure 4**, while photographs taken by GEE on the 30th May 2023 are provided for reference as Plates 21 to 32 below.



Plate 21: View towards the north-west showing the rear of the dwelling and the detached garage/shed.



Plate 22: View to the west along the northern side of the garage/shed on Lot 1.



Plate 23: View to the south showing the garage/shed and scattered debris on Lot 1.

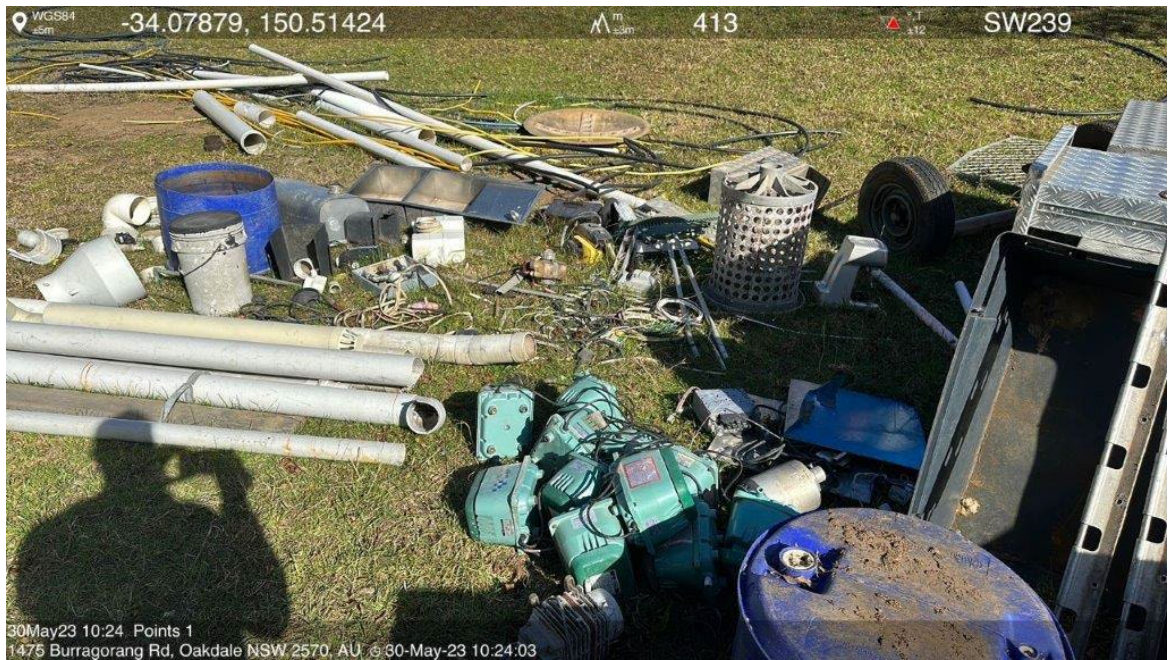


Plate 24: Example of scattered debris adjacent to the garage/shed on Lot 1.



Plate 25: Example of scattered debris adjacent to the garage/shed on Lot 1.



Plate 26: Timber framed and metal clad animal shelter amongst the trees on Lot 1.

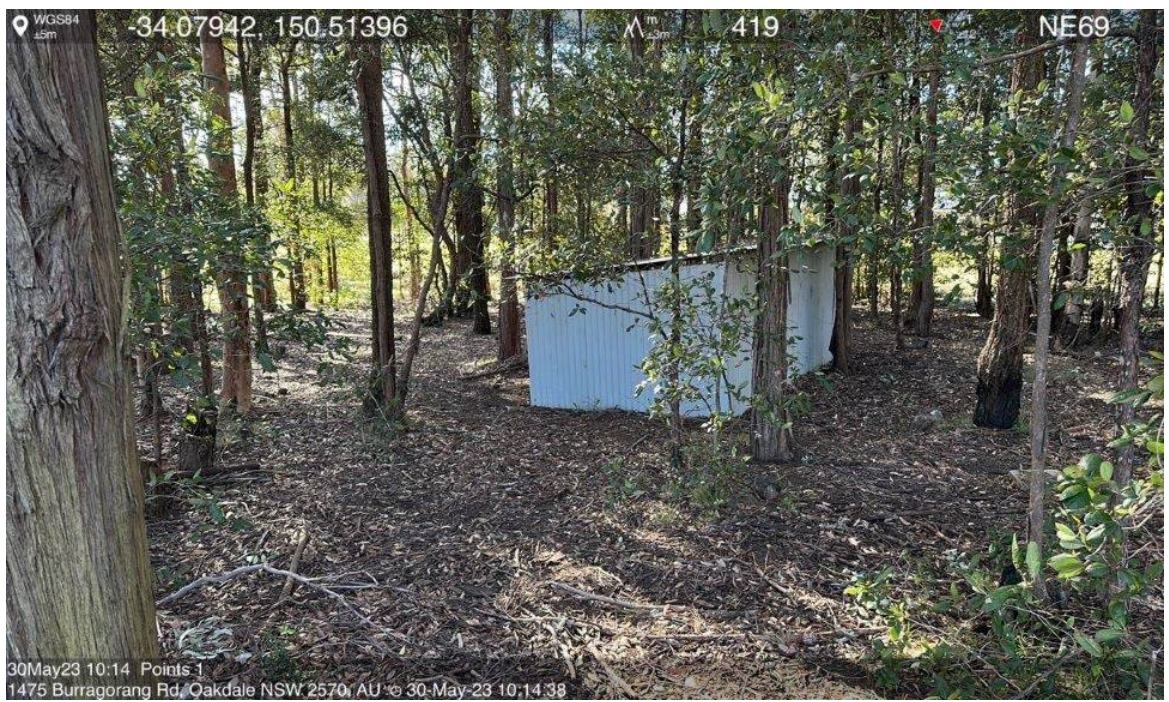


Plate 27: Timber framed and metal clad animal shelter amongst the trees on Lot 1.



Plate 28: Concrete water tanks amongst the trees on Lot 1.

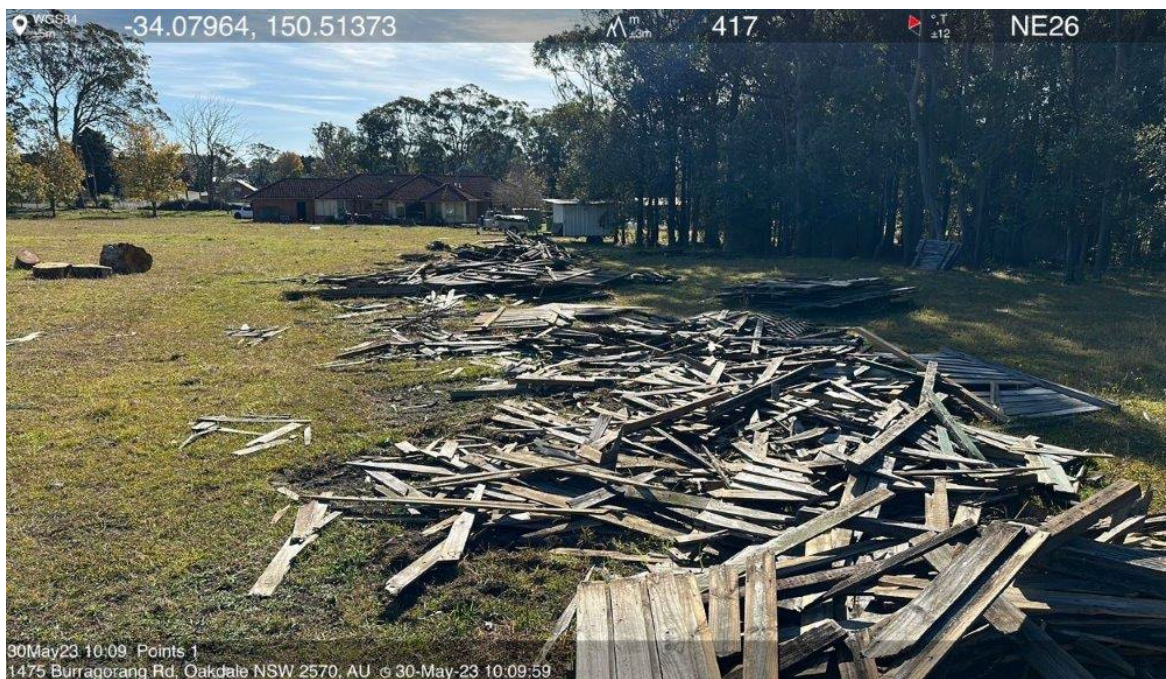


Plate 29: Scattered piles of timber fence palings at the rear of Lot 1.



Plate 30: Burnt pile of timber at the rear of Lot 1.



Plate 31: View to the west along the rear of Lot 1.



Plate 32: View to the north from the southern boundary of Lot 1.

4.2 ***SURROUNDING LAND USES AND ACTIVITIES***

Surrounding land uses observed from the aerial photographs and our site inspection were a mix of rural and residential properties with no obvious association with significantly contaminating activities.

4.3 ***TOPOGRAPHY***

Lots 1 & 2 gently fall towards Burragorang Road, while Lot 6 falls gently from Barkers Lodge Road to the east and drains to Back Creek via a first-order stream located centrally over the lot. According to the regional topographical map (reference 5) which provides contours at 10m intervals, the surface elevation is between 430m and 410m above Australian Height Datum (AHD).

4.4 ***REGIONAL GEOLOGY AND SOILS***

A review of the regional 1:100,000 geological map (reference 6) indicates that the northern and south-western portions of the site are underlain by the Late Triassic aged Bringelly Shale formation of the Wianamatta Group which typically consists of shale, carbonaceous claystone, laminite and coal in parts. The remainder (and majority) of the site is underlain by the Hawkesbury Sandstone Formation which typically comprises "...*Medium to coarse-grained quartz sandstone, very minor shale and laminite lenses*".



A review of the regional soils map (reference 7) indicates that the site is underlain by the Blacktown Soil Landscape Group (9029bt). This soil group is associated with gently undulating rises on the underlying shale formation. Local reliefs are up to 30m and slopes are usually less than 5% in gradient. Soils of the Blacktown Group typically comprise heavy clays that have been derived from the weathering process of shale bedrock, have low fertility and are often strongly acidic.

4.5 GROUNDWATER / HYDROGEOLOGY

Based on local knowledge and the regional geological information, it is expected that the groundwater in the vicinity of the site is likely to be confined, or partly confined, within discrete water-bearing zones within the bedrock formation. However, intermittent 'perched' water seepage is possible at the soil-bedrock interface following heavy and prolonged rainfall events.

A search of registered groundwater bores within 2km of the site was completed and the results are provided in the Lotsearch report (**Appendix B**). There are 24 registered bores within 2km of the site with the closest bore (GW028935) located 179m to the north of the site. This bore is 126.4m deep and used for irrigation purposes. A review of the bore information does not provide any useful information about specific groundwater levels beneath the site.

The direction of groundwater flow is expected to follow the surface and regional topography and flow towards the east and north-east. This is particularly relevant for the former quarry at Willis Park which would place it up-hydraulic gradient of the site.



5 CONCEPTUAL SITE MODEL

The conceptual site model (CSM) is a representation, or summary, of information obtained regarding potential contamination sources, receptors and exposure pathways between the sources and receptors. The key elements of a CSM include:

- ◇ known and potential sources of contamination, areas of environmental concern (AEC) and chemicals of potential concern (CoPC), including the mechanisms of contamination (such as 'top down' spills or sub-surface releases from corroded tanks or pipes),
- ◇ potentially affected media (such as soil, sediment, groundwater, surface water, indoor and ambient air),
- ◇ human and ecological receptors, and
- ◇ potential and complete exposure pathways.

GEE notes that this CSM is based on existing information and will require revision once more information is obtained.

5.1 *POTENTIAL CONTAMINATION SOURCES AND CoPC*

Based on the site history information, combined with a review of the site's physical and environmental setting, the Areas of Environmental Concern (AEC) and potential for contamination is summarised in **Table 1**.



Table 1: Potential Contamination Sources and CoPC

Potential / Known Contaminating Activity and Location	Details	Chemical of Potential Concern (CoPC)	Estimated Risk of Contamination
Lot 6 – 1838 Barkers Lodge Road (Figure 5)			
<u>Soil stockpile with anthropogenic inclusions</u>	There was a soil stockpile with anthropogenic inclusions such as brick and potential ACM in the form of fragments of fibrous cement sheeting located in the central part of this property and was formed Circa 2020. The soil may also be imported and when sourced from an unknown origin, the quality of the fill is not known and therefore may be contaminated.	Metals, Polycyclic Aromatic Hydrocarbons (PAHs), Total Recoverable Hydrocarbons (TRH), Benzene, Toluene, Ethylbenzene, Xylene and Naphthalene (BTEXN), Organochlorine Pesticides (OCPs), Polychlorinated Biphenyls (PCBs) and Asbestos ²	High
<u>Disturbed Ground / Area of Potential Filling</u>	A review of historical aerial photographs identified an area of disturbed ground in the central part of this property which commenced between 1994 and 2006. Disturbed ground can include imported soils and when sourced from an unknown origin, the quality of the fill is not known and therefore may be contaminated.	TRH, BTEXN, Metals, OCPs, PCBs, PAHs and Asbestos ²	Low
<u>Internal access road and on-site parking areas</u>	Vehicles accessing and parking on site may have resulted in top-down contamination from leaks and spillage of fuel and oils.	TRH, BTEXN, Lead and PAHs	Low
<u>External vehicle maintenance/repair areas</u>	Such activities may have resulted in top-down contamination from leaks and spillage of fuel and oils.	TRH, BTEXN, Lead and PAHs	Medium

² These are common contaminants of concern for developed areas across Sydney.



<u>Existing fibro clad dwelling</u>	The dwelling was likely constructed in the 1960s and is fibro clad. Therefore, any renovations or maintenance work over the years may have resulted in near surface soil being impacted with ACM. The age of the dwelling also suggests potential use of lead-based paints and the same renovations or maintenance work may have also resulted in in near surface soils being impacted with lead.	Asbestos and Lead	Low
<u>Waste Debris in the Shale Transition Forest</u>	There was surface debris (anthropogenic material) observed sporadically within the forest area. Because it is intended to preserve this Forest, the waste debris poses an aesthetic issue.	N/A	Actual Aesthetic Issue
Lot 2 – 1455 Burragorang Road (Figure 6)			
<u>Internal access road and parking areas</u>	Vehicles accessing and parking on site may have resulted in top-down contamination from leaks and spillage of fuel and oils.	TRH, BTEXN, Lead and PAHs	Low
Lot 1 – 1475 Burragorang Road (Figure 6)			
<u>Internal access road and parking areas</u>	Vehicles accessing and parking on site may have resulted in top-down contamination from leaks and spillage of fuel and oils.	TRH, BTEXN, Lead and PAHs	Low
<u>Workshop and Storage Area</u>	There is a workshop and several storage areas in this part of the site. Activities associated with the workshop and the storage of equipment (including paints and other chemicals) represent a potential of top-down contamination.	TRH, BTEXN, Metals, OCPs, PAHs and VOCs.	Medium
Off-Site Sources (Figure 5)			
Former Quarry now Willis Park	Depending on the materials used to fill the quarry, there is potential for contamination to impact on the site via groundwater or subsurface gas migration.	TRH, BTEXN, Metals and VOCs.	Low



5.2 POTENTIAL OR KNOWN CONTAMINATED MEDIA

The potential for contamination is predominately from to-down sources and therefore the primary potential contaminated media is the near fill and natural soils. Groundwater and soil gas vapour may also be impacted from any contamination associated with the filled quarry at the adjoining Willis Park. Finally, there is known adverse aesthetics associated with surface debris in the existing forest.

GEE notes that there are other areas of sporadic waste debris across the site, but these are within proposed redevelopment areas and therefore would be removed as part of redevelopment works.

5.3 CONTAMINANT RECEPTORS

Considering the existing and proposed land-uses and the potential subdivision and site layout, potential receptors to any contamination would include:

Human Receptors

- ◇ Workers (adults) engaged to construct the proposed development.
- ◇ Existing and future users of the site (adults and children).
- ◇ Workers (adults) engaged to maintain any buried services/utilities.

Environmental Receptors

- ◇ Soil environments beneath the site and their associated ecosystems.

5.4 POTENTIAL EXPOSURE PATHWAYS

At this preliminary stage, potential exposure pathways include:

- ◇ Ingestion of soil (workers) during redevelopment of the site and during future use from accessible areas.
- ◇ Direct (dermal) contact for users of the site (via the unpaved areas).
- ◇ Direct (dermal) contact for workers engaged to construct the proposed development or maintain any buried services/utilities.
- ◇ Inhalation of asbestos fibres from degraded ACM (if present).
- ◇ Inhalation of any contaminated ground gas/vapour.



6 CONCLUSION AND RECOMMENDATIONS

GEE was commissioned by CED to undertake a Preliminary Site (contamination) Investigation (PSI) for the site located at 1455 & 1475 St Burragorang Road & 1838 Barkers Lodge Road, Oakdale NSW 2570. The site covers an area of approximately 22.7 hectares and is legally described as Lot 6, Lot 2 and Lot 1 of DP 734561.

The investigation was requested to support a rezoning and subdivision submission to Wollondilly Shire Council which would enable urban development for new homes, while also protecting the existing forest. No development is proposed under the planning submission.

The objective of the PSI was to address the requirements of the State Environmental Planning Policy (Resilience and Hazards) 2021 (reference 1) including addressing the current and historical use of the land and identifying areas of potential for contamination and possible constraints on the planning proposal.

The investigation comprised a:

- ◇ Review of the history of the site and surrounding land to provide an understanding of past and present site activities which in turn may indicate sources and areas of potential contamination as well as potential chemicals of concern,
- ◇ Review of the environmental and physical setting in which the site lies, and
- ◇ Detailed site inspection for potential sources of contamination.

In summary, the PSI identified some potential areas and sources of contamination associated with the site. To characterise the contamination, GEE recommends that a Detailed Site (contamination) Investigation (DSI) be completed in accordance with the NSW EPA (2020) *Contaminated Land Guidelines: Consultants Reporting on Contaminated Land* (reference 1) and NEPM (2013) Schedule B(2) *Guideline on Site Characterisation* (reference 3). Although such work is only considered to be relevant as part of any future development submissions in these areas of environmental concern.



7 REFERENCES

1. NSW Government, 2021: *State Environmental Planning Policy (Resilience and Hazards) 2021*.
2. NSW EPA, 2020: Environment Protection Authority 2020: *Contaminated Land Guidelines: Consultants Reporting on Contaminated Land*. EPA NSW 5 May 2020.
3. NEPM, 2013: *National Environment Protection (Assessment of Site Contamination) Measure 1999 - Schedule B(2) Guideline of Site Characterisation*. As amended 16 May 2013.
4. New South Wales Department of Conservation (NSW DEC), 2005: *Contaminated Sites – guidelines for Assessing Former Orchards and Market Gardens*. DEC 2005/195 June 2005.
5. Land and Property Information NSW, 2002: *1:25,000 Camden topographical map (Sheet 9029-4N)*.
6. Department of Mineral Resources, 1985: Wollongong - Port Hacking 1:100,000 Geological Series Map Sheet 9029-9129 (Edition 1).
7. Soil Conservation Service of NSW, 1990: Wollongong - Port Hacking 1:100,000 Soil Landscape Series Sheet 9029-9129 (first edition).



FIGURES

- 1 – SITE LOCATION MAP
- 2 - SITE LAYOUT
- 3 – SITE PLAN (SOUTH)
- 4 – SITE PLAN (NORTH)
- 5 – AREAS OF ENVIRONMENTAL CONCERN (SOUTH)
- 6 - AREAS OF ENVIRONMENTAL CONCERN (NORTH)



Image Source: www.whereis.com Map data © OpenStreetMap contributors



82 BRIDGE STREET
LANE COVE NSW 2066
P - 61 (2) 9420 3361
E - info@geoenvironmental.com.au
www.geoenvironmental.com.au

TITLE:

SITE LOCATION MAP

SCALE:

N.T.S

DATE:

3 July 2023

FIGURE No.:

1

DRAWN:

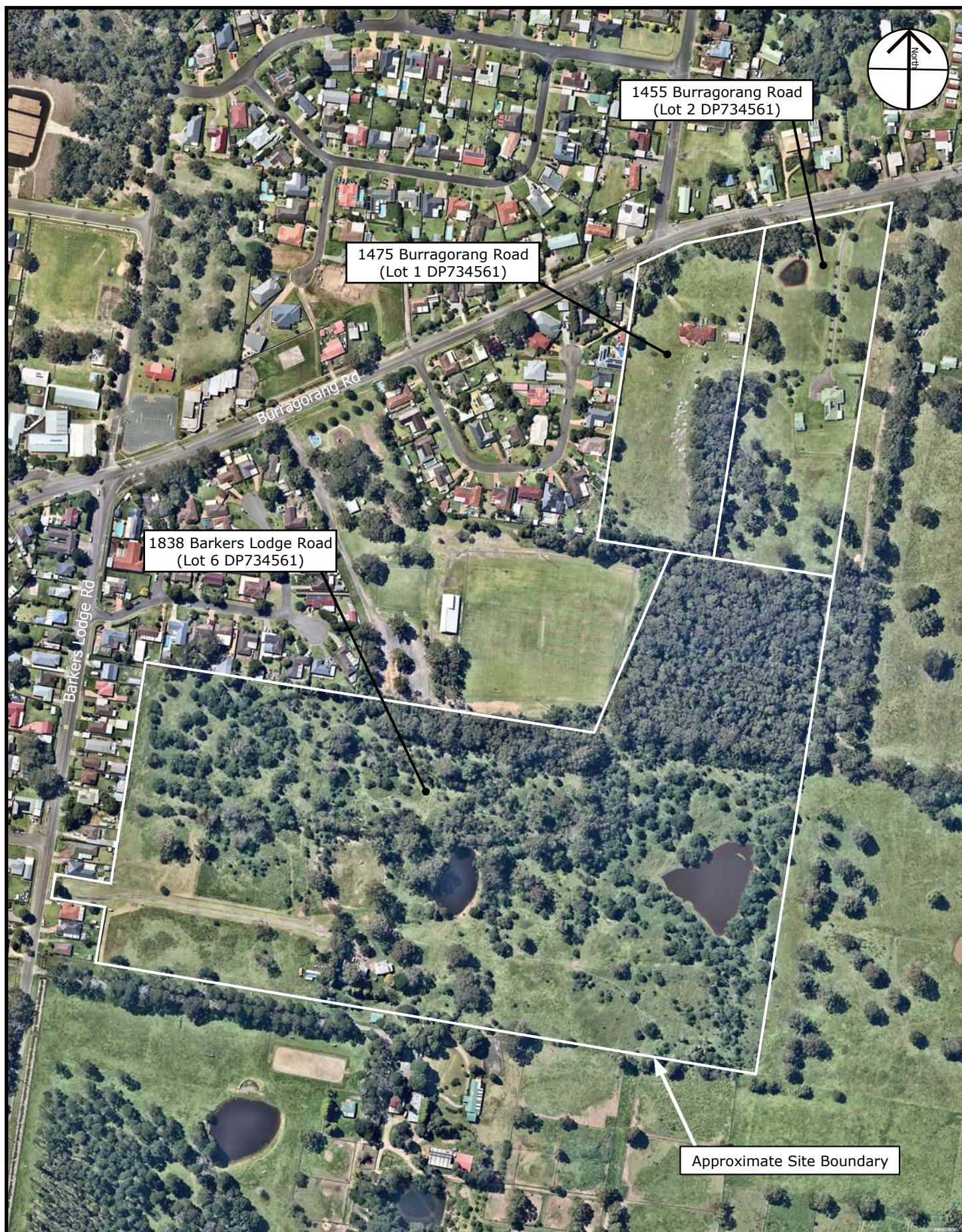
S. McC

JOB No.:

E230100AK

REVISION:

A



Aerial Image provided by Nearmap (<https://www.nearmap.com/au/en>) - Image Dated 20th February 2022

DRAWN: S. McC	SCALE: N.T.S	JOB No.: E23010OAK	DATE: 3 July 2023	REVISION: A	FIGURE No.: 2
geo-environmental ENGINEERING			TITLE: SITE LAYOUT		
82 BRIDGE STREET LANE COVE NSW 2066 P - 61 (2) 9420 3361 E - info@geoenvironmental.com.au www.geoenvironmental.com.au					

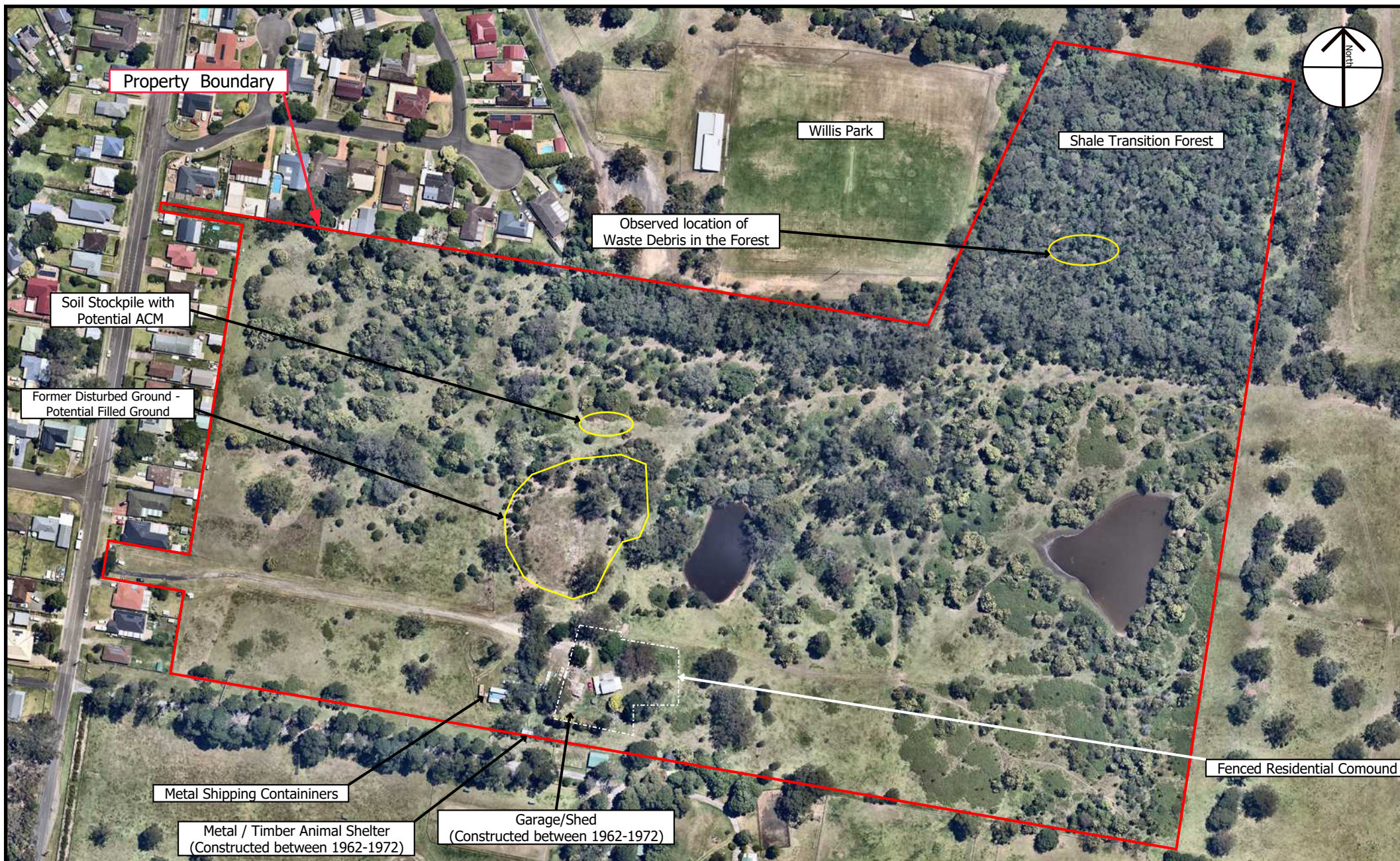


Image Source: Nearmap Limited (www.nearmap.com.au) - Image Date 9 Jan 2023



UNIT 2 / 5 - 7 MALTA STREET
FAIRFIELD EAST NSW 2165
P - 61 (2) 9420 3361
E - info@geoenvironmental.com.au
www.geoenvironmental.com.au

TITLE:

SITE PLAN (South)
1838 Barkers Lodge Road, Oakdale NSW

SCALE:

N.T.S

DRAWN:

S. McC

DATE:

12 July 23

JOB No.:

E230100AK

FIGURE No.:

3

REVISION:

A



Aerial Image provided by Nearmap (<https://www.nearmap.com/au/en>) - Image Dated 20th February 2022

DRAWN: S. McC	SCALE: N.T.S	JOB No.: E23010OAK	DATE: 3 July 2023	REVISION: A	FIGURE No.: 4
geo-environmental ENGINEERING			TITLE: SITE PLAN (North) 1455 & 1475 Burragorang Road		
UNIT 2 / 5 - 7 MALTA STREET FAIRFIELD EAST NSW 2165 P - 61 (2) 9420 3361 E - info@geoenvironmental.com.au www.geoenvironmental.com.au					

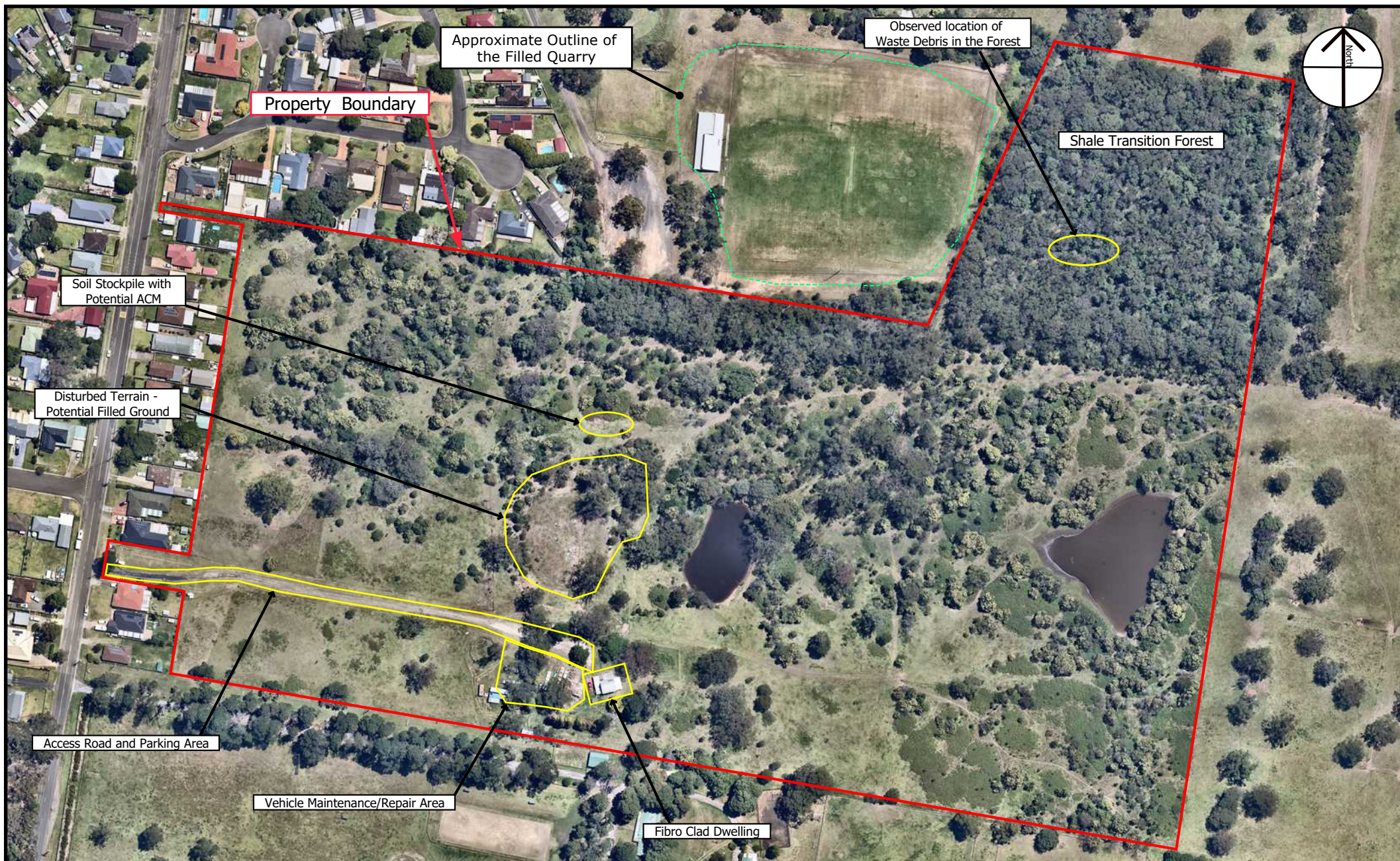


Image Source: Nearmap Limited (www.nearmap.com.au) - Image Date 9 Jan 2023



UNIT 2 / 5 - 7 MALTA STREET
FAIRFIELD EAST NSW 2165
P - 61 (2) 9420 3361
E - info@geoenvironmental.com.au
www.geoenvironmental.com.au

TITLE:
AREAS OF ENVIRONMENTAL CONCERN
(South)

SCALE: **N.T.S**
DRAWN: **S. McC**

DATE: **12 July 23**
JOB No.: **E230100AK**

FIGURE No.: **5**
REVISION: **A**



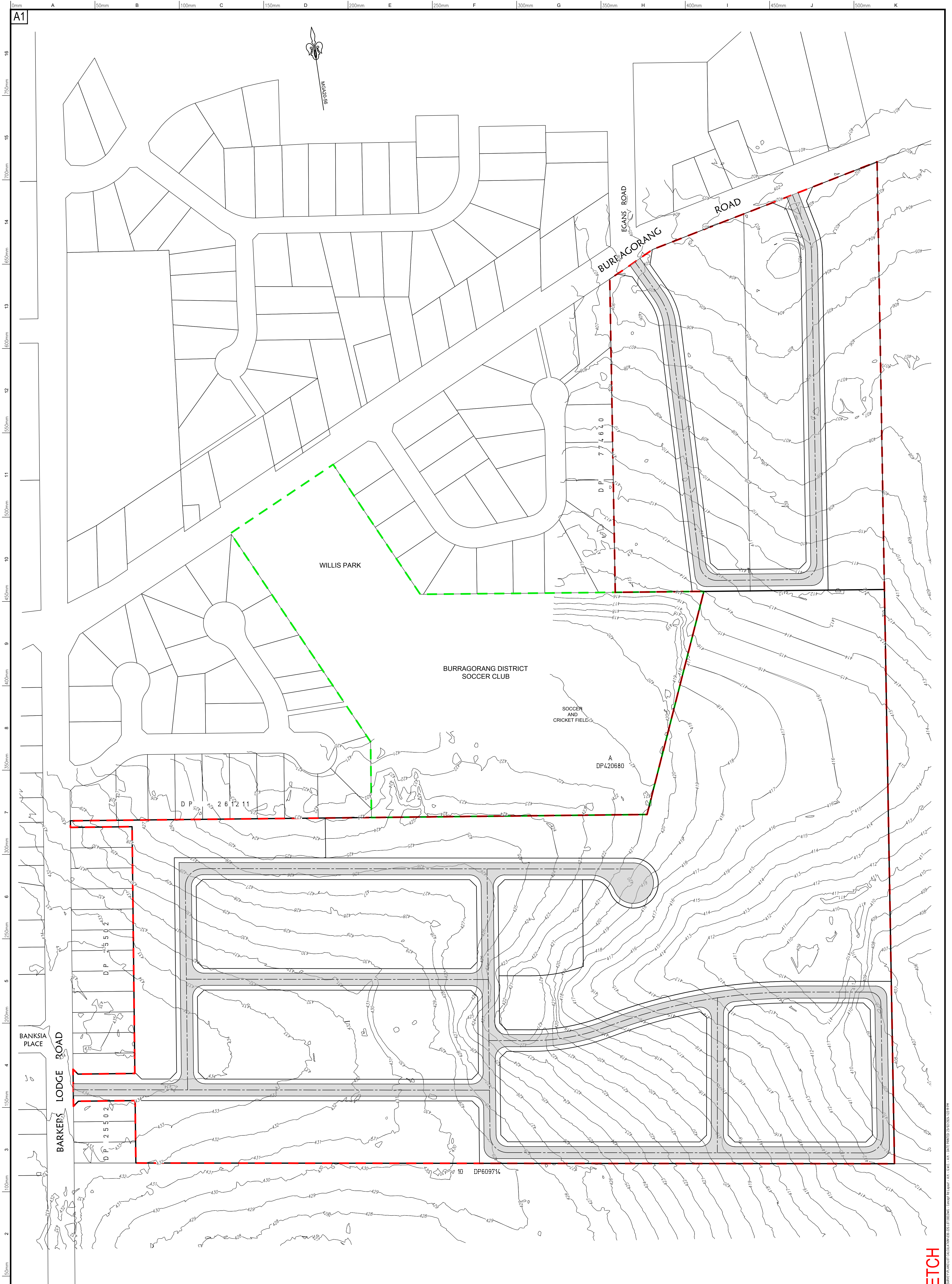
Aerial Image provided by Nearmap (<https://www.nearmap.com/au/en>) - Image Dated 20th February 2022

DRAWN: S. McC	SCALE: N.T.S	JOB No.: E230100AK	DATE: 12 July 2023	REVISION: A	FIGURE No.: 6
geo-environmental ENGINEERING			TITLE: AREAS OF ENVIRONMENTAL CONCERN (North)		
UNIT 2 / 5 - 7 MALTA STREET FAIRFIELD EAST NSW 2165 P - 61 (2) 9420 3361 E - info@geoenvironmental.com.au www.geoenvironmental.com.au					



APPENDIX A

PROPOSED RE-ZONING PLAN



REVISIONS

NO	DATE	BY	CHKD	REASON
1	12.02.2024	N.P.	G.W.E.	ORIGINAL ISSUE

BEFORE YOU DIG

APPROVED COMPANY

APPROVED COMPANY

APPROVED COMPANY

Project:

SKETCH OVER
LOTS 1, 2 & 6 DP734561
BARKERS LODGE ROAD AND BURRAGORANG ROAD,
OAKDALE

Principal:		Date: 11/10/2023		Council Ref:	
Scale: 1:1250	Datum: AHD	L.G.A. WOLLONDILLY SHIRE COUNCIL			
Calc's: A.H.	Drawn: G.W.E.	Proj.Man:	A.H.	Client Ref:	

Colliers

Colliers International Engineering & Design NSW PTY LTD
ABN 77 050 209 991 ACN 050 209 991
Suite 701, Level 7, 3 Rider Boulevard, Rhodes, NSW, 2138
PO Box 3220, Rhodes NSW 2138
Tel. 9869-1855
nsw.ed.reception@colliers.com
www.colliers.com.au

Our Ref: 030-22
Dwg File Ref. [Rev] - Sheet Ref.
030-22G L07 [00]
- Concept Rd Layout

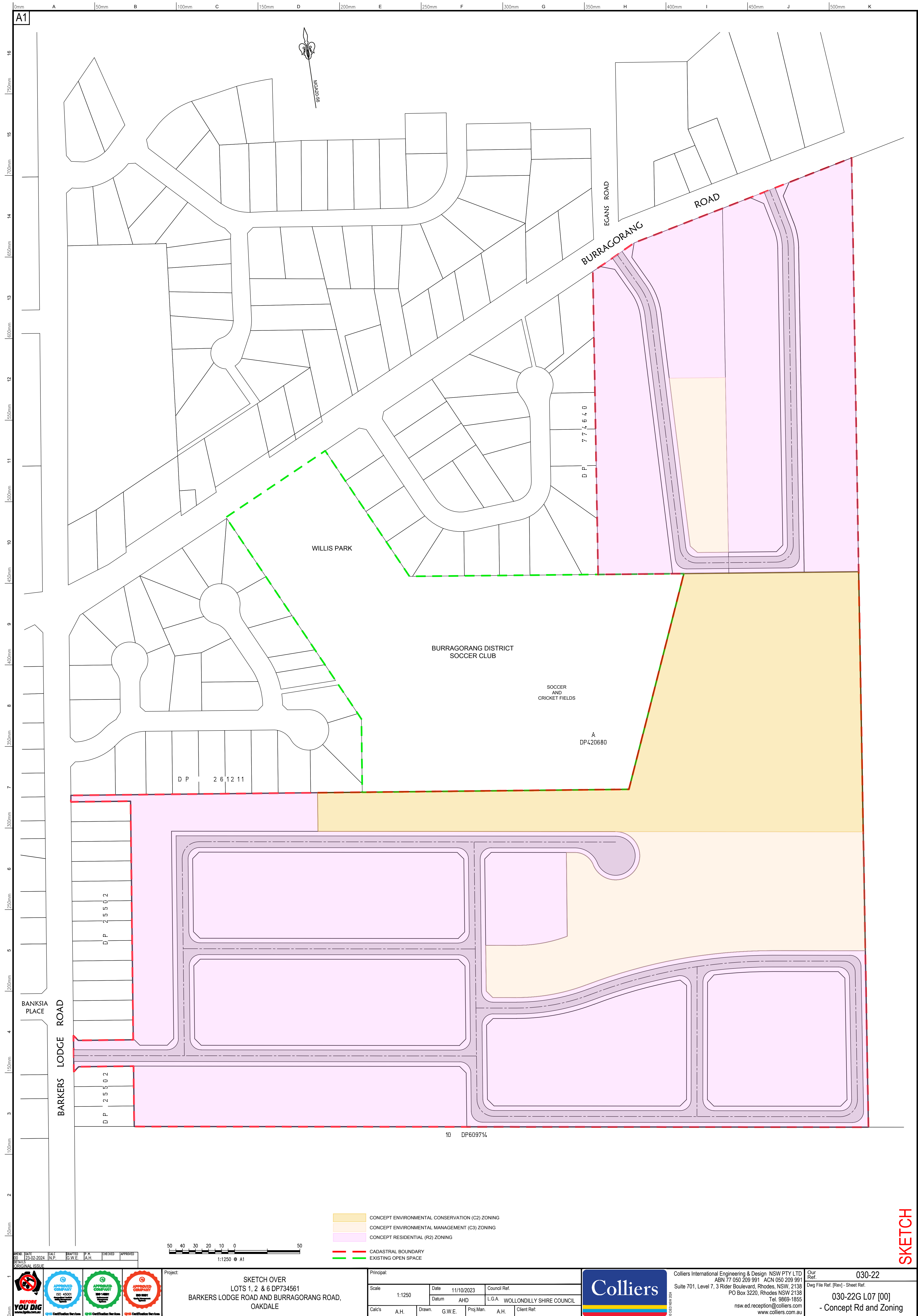
50 40 30 20 10 0 50

1:1250 @ A1

— CADASTRAL BOUNDARY

— EXISTING OPEN SPACE

SKETCH



SKETCH



APPENDIX B

HISTORICAL TITLE SEARCH RESULTS



ABN: 36 092 724 251
Ph: 02 9099 7400
(Ph: 0413 400 020)

Level 14, 135 King Street, Sydney
Sydney 2000
GPO Box 4103 Sydney NSW 2001
DX 967 Sydney

Summary of Owners Report

Address: - 1838 Barkers Lodge Road, 1455-1457 Burragorang Road, Oakdale NSW 2570

Description: - Lots 1, 2 & 6 in D.P. 734561

As regards the whole Lots 1, 2 & 6 in D.P. 734561

<u>Date of Acquisition and term held</u>	<u>Registered Proprietor(s) & Occupations where available</u>	<u>Reference to Title at Acquisition and sale</u>
02.03.1920 (1920 to 1941)	Elizabeth Willis (Married Woman)	Volume 3030 Folio 122
13.01.1941 (1941 to 1963)	Roland Cherry Willis (Radiographer)	Volume 3030 Folio 122 Now Volume 8398 Folio 217
04.02.1963 (1963 to 1973)	Douglas Rodney Hedberg (Dentist)	Volume 8398 Folio 217 Now Volume 12231 Folio 230
05.12.1973	Blakeberg (Otherwise Blakeburg) Nominees Pty Limited	Volume 12231 Folio 230

Continued as regards Lot 1 in D.P. 734561

<u>Date of Acquisition and term held</u>	<u>Registered Proprietor(s) & Occupations where available</u>	<u>Reference to Title at Acquisition and sale</u>
05.12.1973 (1973 to 1986)	Blakeberg (Otherwise Blakeburg) Nominees Pty Limited	Volume 12231 Folio 230 Then Volume 14588 Folio 250 201/713860 Now 1/734561
27.10.1986 (1986 to 2000)	Adam Buhinjak Maria Buhinjak	1/734561
14.01.2000 (2000 to 2018)	Delart Pty. Limited	1/734561
02.08.2018 (2018 to 2022)	Mark William Geraghty	1/734561
29.09.2022 (2022 to Date)	# Morehuman Oakdale Pty Ltd	1/734561

Denotes current registered proprietor

Leases & Easements: – Nil



ABN: 36 092 724 251
Ph: 02 9099 7400
(Ph: 0413 400 020)

Level 14, 135 King Street, Sydney
Sydney 2000
GPO Box 4103 Sydney NSW 2001
DX 967 Sydney

Continued as regards Lot 2 in D.P. 734561

<u>Date of Acquisition and term held</u>	<u>Registered Proprietor(s) & Occupations where available</u>	<u>Reference to Title at Acquisition and sale</u>
05.12.1973 (1973 to 1987)	Blakeberg (Otherwise Blakeburg) Nominees Pty Limited	Volume 12231 Folio 230 Then Volume 14588 Folio 250 201/713860 Now 2/734561
25.03.1987 (1987 to Date)	# Brian Raymond Russell # Elaine Joan Russell	2/734561

Denotes current registered proprietor

Leases & Easements: – Nil

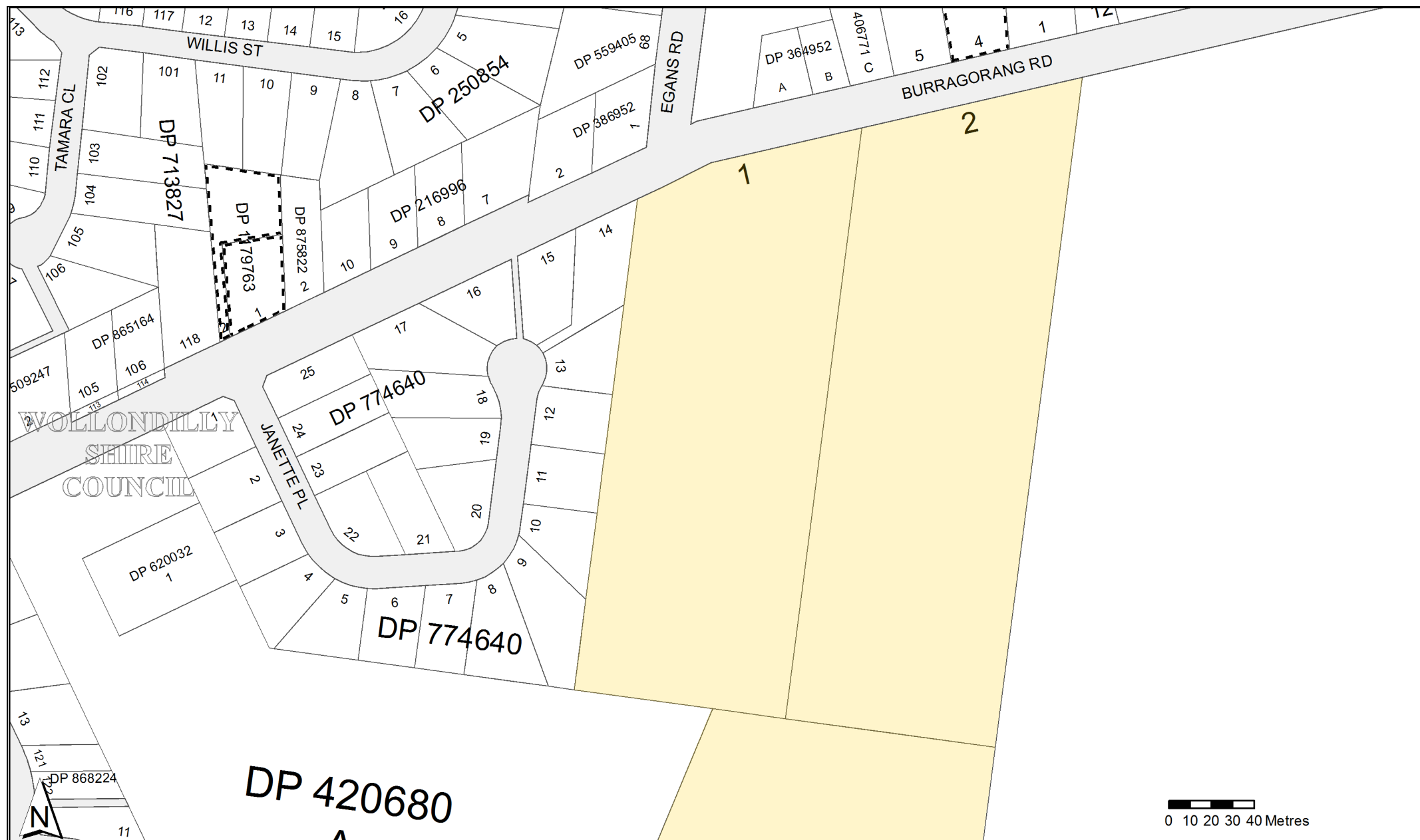
Continued as regards Lot 6 in D.P. 734561

<u>Date of Acquisition and term held</u>	<u>Registered Proprietor(s) & Occupations where available</u>	<u>Reference to Title at Acquisition and sale</u>
05.12.1973 (1973 to 1998)	Blakeberg (Otherwise Blakeburg) Nominees Pty Limited	Volume 12231 Folio 230 Then Volume 14588 Folio 250 201/713860 Now 6/734561
29.07.1998 (1998 to 2022)	Delart Pty. Limited	6/734561
29.09.2022 (2022 to Date)	# Morehuman Oakdale Pty Ltd	6/734561

Denotes current registered proprietor

Leases & Easements: – Nil

Yours Sincerely
Harrison Byrne
8th May 2023



CERTIFICATE OF TITLE

NEW SOUTH WALES

PROPERTY ACT, 1900



12231230

Crown Grant Vol.3030 Fol.122

Prior Title Vol.8398 Fol.217

Vol. **12231** Fol. **230**

Edition issued 10-10-1973.



CANCELLED

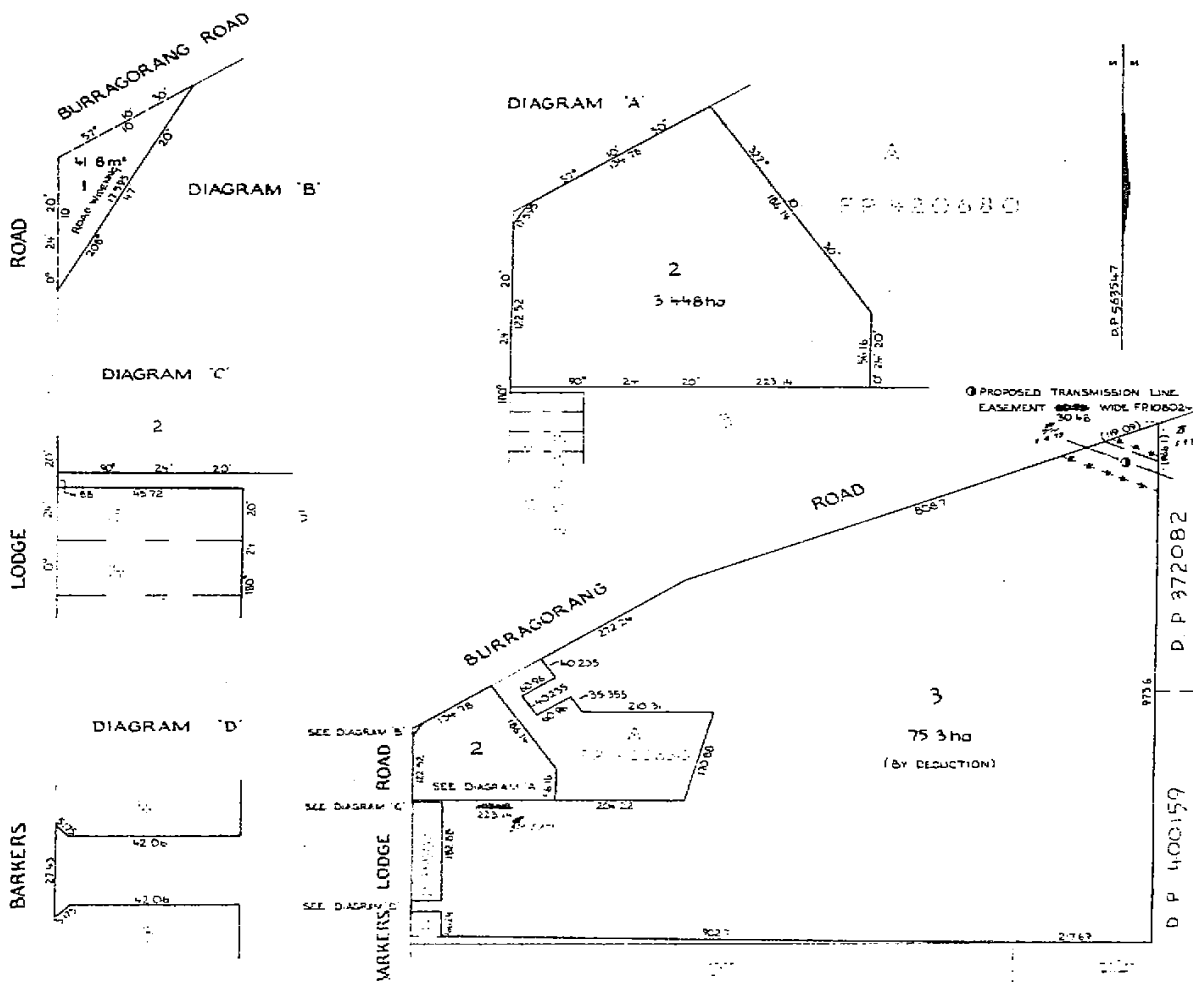
I certify that the person described in the First Schedule is the registered proprietor of the undermentioned estate in the land within described subject nevertheless to such exceptions encumbrances and interests as are shown in the Second Schedule.

Jawatson
Registrar General.



PLAN SHOWING LOCATION OF LAND

LENGTHS ARE IN METRES



ESTATE AND LAND REFERRED TO

Estate in Fee Simple in Lot 3 in Deposited Plan 563547 at Oakdale in the Shire of Wollondilly Parish of Burracorang and County of Camden. EXCEPTING THEREOUT the minerals reserved by the Crown Grant.

FIRST SCHEDULE

~~DOUGLAS RODNEY WEDBERG of Blackhurst, Dentist.~~

SECOND SCHEDULE

1. Reservations and conditions, if any, contained in the Crown Grant above referred to.
2. Easement for Transmission Line created by Resumption No. H588160 affecting the piece of land 30.48 wide shown in the plan hereon.

Jawatson
Registrar General

NOTE: ENTRIES RULED THROUGH AND AUTHENTICATED BY THE SEAL OF THE REGISTRAR GENERAL ARE CANCELLED.

WARNING: THIS DOCUMENT MUST NOT BE REMOVED FROM THE LAND TITLES OFFICE.

PERSONS ARE CAUTIONED AGAINST ALTERING OR ADDING TO THIS CERTIFICATE OR ANY NOTIFICATION HEREON

12231 230
Fol. 230
(Page 1) Vol.

8.1.1974

NEW CERTIFICATE(S) OF TITLE ISSUED ON DP 620032
 ISSUED USING TO WHOM, OR TO WHOM IN TRUST, REFERENCE TO
 (Name of Beneficiary)

CANCELLATION

REGISTRAR GENERAL

NOTE: ENTRIES RULED THROUGH AND AUTHENTICATED BY THE SEAL OF THE REGISTRAR GENERAL ARE CANCELLED

NEW SOUTH WALES

Crown Grant Vol. 3030 Fol.127

Prior Title Vol.12231 Fol.230

CIFICATE OF TITLE

REAL PROPERTY ACT, 1900



14588250

Vol. 14588 Fol. 250

EDITION ISSUED

9 11 1981

I certify that the person described in the First Schedule is the registered proprietor of the undermentioned estate in the land within described subject nevertheless to such exceptions encumbrances and interests as are shown in the Second Schedule.

CANCELLED

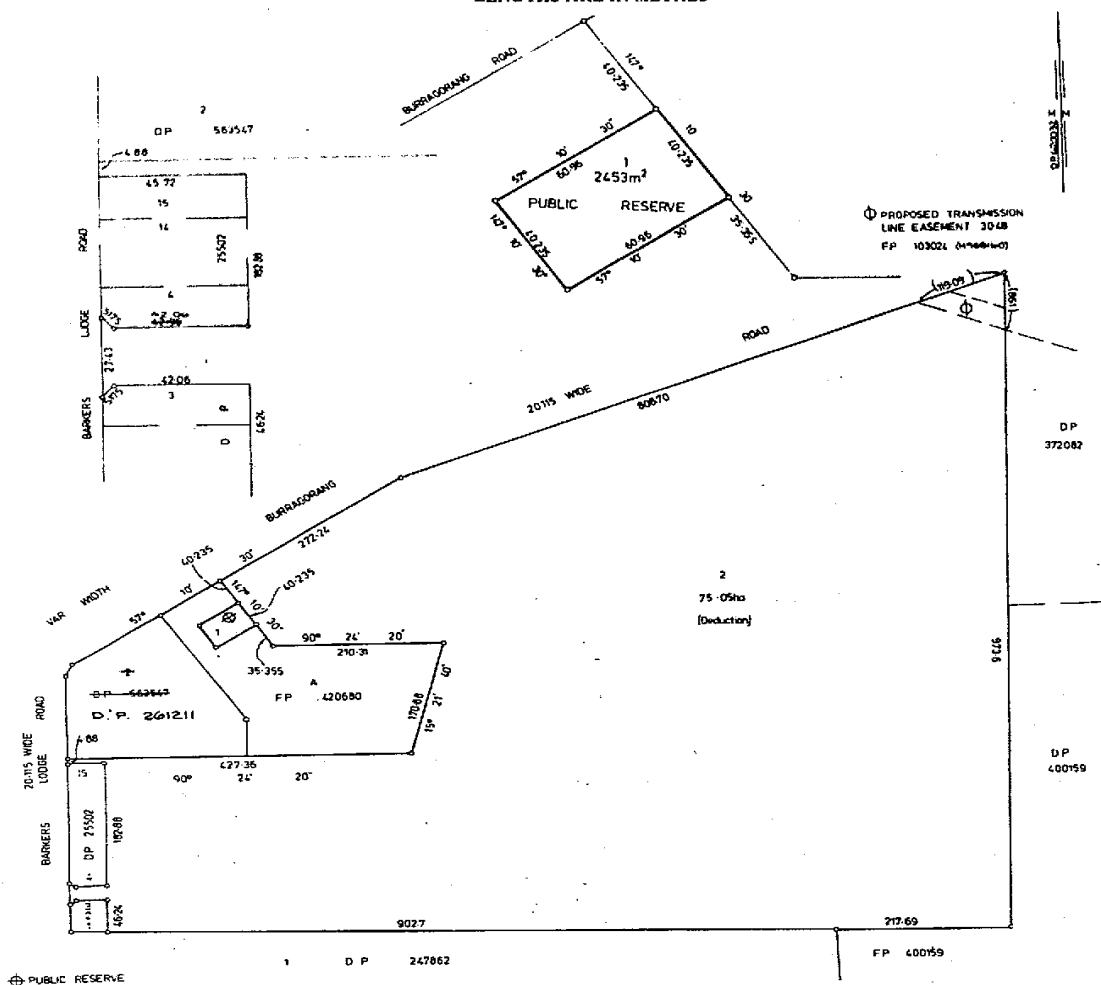
[Signature]

Registrar General.



PLAN SHOWING LOCATION OF LAND

LENGTHS ARE IN METRES



ESTATE AND LAND REFERRED TO

Estate in Fee Simple in Lot 2 in Deposited Plan 620032 at Oakdale in the Shire of Wollondilly Parish of Burragarang and County of Camden. EXCEPTING THEREOUT the minerals reserved by the Crown Grant.

FIRST SCHEDULE

BLAKEBERG NOMINEES PTY. LIMITED.

SECOND SCHEDULE

1. Reservations and conditions, if any, contained in the Crown Grant above referred to.
2. H588160 Easement for transmission line affecting the part of the land above described shown so burdened in Deposited Plan 620032.

NOTE: ENTRIES RULED THROUGH AND AUTHENTICATED BY THE SEAL OF THE REGISTRAR GENERAL ARE CANCELLED

FIRST SCHEDULE (continued)
REGISTERED PROPRIETOR

Registrar General

SECOND SCHEDULE (continued)

PARTICULARS

Registrar General

CANCELLATION

DPISA 713860 Registered 26-6-1985
 This folio is cancelled as to whole/part upon completion
 of computer folios for lots 200/201 in the
 abovementioned plan.



NOTATIONS AND UNREGISTERED DEALINGS

DP 713860



NEW SOUTH WALES LAND REGISTRY SERVICES - HISTORICAL SEARCH

SEARCH DATE

8/5/2023 3:45PM

FOLIO: 201/713860

First Title(s): VOL 3030 FOL 122

Prior Title(s): VOL 14588 FOL 250

Recorded	Number	Type of Instrument	C.T. Issue
27/6/1985	DP713860	DEPOSITED PLAN	FOLIO CREATED EDITION 1
22/7/1986	DP734561	DEPOSITED PLAN	FOLIO CANCELLED

*** END OF SEARCH ***



SEARCH DATE

8/5/2023 3:43PM

FOLIO: 1/734561

First Title(s): VOL 3030 FOL 122

Prior Title(s): 201/713860

Recorded -----	Number -----	Type of Instrument -----	C.T. Issue -----
21/7/1986	DP734561	DEPOSITED PLAN	FOLIO CREATED EDITION 1
27/10/1986	W581794	TRANSFER	
27/10/1986	W581795	MORTGAGE	EDITION 2
20/8/1991	Z859971	DISCHARGE OF MORTGAGE	
20/8/1991	Z859972	MORTGAGE	EDITION 3
16/10/1995	O609968	DISCHARGE OF MORTGAGE	
16/10/1995	O609969	MORTGAGE	EDITION 4
14/1/2000	6487524	DISCHARGE OF MORTGAGE	
14/1/2000	6487525	TRANSFER	
14/1/2000	6487526	MORTGAGE	EDITION 5
30/1/2006	AC73754	DISCHARGE OF MORTGAGE	
30/1/2006	AC73757	MORTGAGE	EDITION 6
24/7/2018	AN527917	DISCHARGE OF MORTGAGE	EDITION 7
24/7/2018	AN528869	DEPARTMENTAL DEALING	EDITION 8
2/8/2018	AN552100	TRANSFER	EDITION 9
28/8/2018	AN665025	MORTGAGE	EDITION 10
5/5/2021	AR20320	CAVEAT	
18/3/2022	AR971367	CAVEAT	EDITION 11
29/9/2022	AS506930	WITHDRAWAL OF CAVEAT	
29/9/2022	AS506931	DISCHARGE OF MORTGAGE	
29/9/2022	AS506932	TRANSFER	EDITION 12
29/9/2022	AS509913	CAVEAT	EDITION 13

*** END OF SEARCH ***

RP 13A

STAMP DUTY

\$1.00



W
581794 K

TRANSFER
(INCLUDING EASEMENT/COVENANTS)

REAL PROPERTY ACT, 1900
(See instructions for Completion on back of form)

CB	1	2	X
\$	35	e	

R1/2

DESCRIPTION
OF LAND
Note (a)

TENEMENTS
PANEL
Note (b)

TRANSFEROR
Note (c)

Note (d)

TRANSFeree
Note (e)

TENANCY
Note (f)

PRIOR
ENCUMBRANCES
Note (g)

Note (h)

Note (i)

EXECUTION
Note (j)

Note (k)

TO BE COMPLETED
BY LODGING PARTY
Notes (l) and (m)

OFFICE USE ONLY

LAND being transferred			
Torrens Title Reference		If Part Only, Delete Whole and Give Details	
FOLIO IDENTIFIER: 1/734561		WHOLE	
		Location Shire of Wollondilly Parish of Burragorang County of Camden	
Servient Tenement (Land burdened by easement)		Dominant Tenement (Land benefited by easement)	
Torrens Title Reference	Torrens Title Reference	Torrens Title Reference	Torrens Title Reference
BLAKEBURG NOMINEES PTY. LIMITED 51 Lynwood Street, Blakehurst			OFFICE USE ONLY N

(the abovenamed TRANSFEROR) hereby acknowledges receipt of the consideration of \$59,500.00
and transfers an estate in fee simple in the land being transferred above described to the TRANSFeree

ADAM BUHINJAK of 55 Captain Cook Drive, Mt. Druitt, in the State of New
South Wales and MARIA BUHINJAK of the same address, Cleaner.

as joint tenants/tenants in common

subject to the following PRIOR ENCUMBRANCES 1. _____
2. _____ 3. _____

AND the TRANSFEROR:-

- (i) GRANTS/RESERVES an easement as set out in SCHEDULE ONE hereto
- (ii) COVENANTS with the TRANSFeree as set out in SCHEDULE TWO hereto

AND the TRANSFeree COVENANTS with the TRANSFEROR as set out in SCHEDULE THREE hereto

DATE OF TRANSFER 10.10.1986.

We hereby certify this dealing to be correct for the purposes of the Real Property Act, 1900.

Signed in my presence by the Transferor who is personally known to me.
THE COMMON SEAL OF BLAKEBURG NOMINEES
PTY LIMITED was hereunto affixed by
authority of the Board in the
presence of:

Name of Witness (BLOCK LETTERS)

Address and occupation of Witness

Signed in my presence by the Transferee who is personally known to me.

Signature of Witness

Name of Witness (BLOCK LETTERS)

Address and occupation of Witness



Michael Radin
Director
Michael Radin
Signature of Transferor
SECRET
Michael Radin
MICHAEL RADIN
Signature of Transferee

LODGED BY		LOCATION OF DOCUMENTS	
CREDIT UNION BANK SERVICE EX 111 BURYWOOD 198 X		CT	OTHER
Delivery Box Number		Herewith, In R.G.O. with Produced by	
Extra Fee	Checked by es en?	REGISTERED	-19
27 OCT 1986		ONICV	
Registrar General			

RP 13A

SCHEDULE THREE HEREBY REFERRED TO

Notes (n) and (l)

The Transferee hereby covenants with the Transferor that for the benefit of the adjoining land owned by the Transferor being Lots 2 & 6 in Deposited Plan 734561 but only during the ownership thereof by the Transferor its successors and assigns other than purchasers on sale no fence shall be erected on a boundary of the land hereby transferred to divide same from such adjoining land without the consent of the transferor but such consent shall not be withheld if such fence is erected without expense to the Transferor and in favour of any person dealing with the Transferee such consent shall be deemed to have been give in respect of every such fence for the time being erected.

The land having the benefit of this covenant is Lot 2 in Deposited Plan 734561 being the land comprised in Folio Identifier 2/734561 and Lot 6 in Deposited Plan 734561 comprised in Folio Identifier 6/734561. The land subject to the burden of this covenant is Lot 1 in Deposited Plan 734561 being the land comprised in Folio Identifier 1/734561. The person having the right to release, modify or vary this covenant is the Transferor without the consent of any other person.

(For continuation of SCHEDULE(S) see annexure(s) hereto)

Form: 01T
Release: 6-2

①

TRANSFER

New South Wales
Real Property Act 1900



AN552100N

PRIVACY NOTE: Section 31B of the Real Property Act 1900 (RP Act) authorises the Registrar to use the information provided by this form for the establishment and maintenance of the Real Property Act Register. Section 96B of the RP Act requires that the Register is made available to any person for search upon payment of a fee, if any.

STAMP DUTY

Revenue NSW use only

NSW Treasury
Client No: 1390C54

Duty: 110.00 Trans No: 9413318001

Assd details:

(A) TORRENS TITLE

1/734561

(B) LODGED BY

Document
Collection
Box
1W

Name, Address or DX, Telephone, and Customer Account Number if any

Telemon Lawyers
PO Box 997
MANLY NSW 1655

Reference: 180059

CODES

T
TW

(C) TRANSFEROR

Delart Pty. Limited ACN 069 096 402

(D) CONSIDERATION The transferor acknowledges receipt of the consideration of \$ 1,350,000.00 and as regards

(E) ESTATE the abovementioned land transfers to the transferee an estate in fee simple

(F) SHARE TRANSFERRED

(G) Encumbrances (if applicable):

(H) TRANSFEREE

MARK WILLIAM GERAGHTY

(I) TENANCY:

DATE

30.06.2018

(J) Certified correct for the purposes of the Real Property Act 1900 and executed on behalf of the company named below by the authorised person(s) whose signature(s) appear(s) below pursuant to the authority specified.

Company: Delart Pty. Limited

Authority: section 127 of the Corporations Act 2001

Signature of authorised person:

Signature of authorised person:

Name of authorised person:

Office held: Sole Director/Secretary

Name of authorised person:

Office held:

Janise Michelle McKinley
Sole Director/Secretary

Certified correct for the purposes of the Real Property Act 1900 on behalf of the transferee by the person whose signature appears below.

Signature:

Signatory's name:

Signatory's capacity:

CAMERON JAMES SHAW

solicitor

(K) The transferee

certifies that the eNOS data relevant to this dealing has been submitted and stored under

eNOS ID No.

1632882

Full name: CAMERON JAMES SHAW

Signature:

* s117 RP Act requires that you must have known the signatory for more than 12 months or have sighted identifying documentation.

ALL HANDWRITING MUST BE IN BLOCK CAPITALS

Page 1 of

1708



FOLIO: 1/734561

SEARCH DATE	TIME	EDITION NO	DATE
8/5/2023	3:43 PM	13	29/9/2022

LAND

LOT 1 IN DEPOSITED PLAN 734561
AT OAKDALE
LOCAL GOVERNMENT AREA WOLLONDILLY
PARISH OF BURRAGORANG COUNTY OF CAMDEN
TITLE DIAGRAM DP734561

FIRST SCHEDULE

MOREHUMAN OAKDALE PTY LTD

(T AS506932)

SECOND SCHEDULE (4 NOTIFICATIONS)

- 1 LAND EXCLUDES MINERALS AND IS SUBJECT TO RESERVATIONS AND
CONDITIONS IN FAVOUR OF THE CROWN - SEE CROWN GRANT(S)
- 2 DP734561 RESTRICTION(S) ON THE USE OF LAND
- 3 W581794 COVENANT
- * 4 AS509913 CAVEAT BY MARK WILLIAM GERAGHTY

NOTATIONS

UNREGISTERED DEALINGS: NIL

*** END OF SEARCH ***



SEARCH DATE

8/5/2023 3:42PM

FOLIO: 2/734561

First Title(s): VOL 3030 FOL 122

Prior Title(s): 201/713860

Recorded	Number	Type of Instrument	C.T. Issue
21/7/1986	DP734561	DEPOSITED PLAN	FOLIO CREATED EDITION 1
25/3/1987	W808145	TRANSFER	EDITION 2

*** END OF SEARCH ***



FOLIO: 2/734561

SEARCH DATE	TIME	EDITION NO	DATE
8/5/2023	3:42 PM	2	25/3/1987

LAND

LOT 2 IN DEPOSITED PLAN 734561
AT OAKDALE
LOCAL GOVERNMENT AREA WOLLONDILLY
PARISH OF BURRAGORANG COUNTY OF CAMDEN
TITLE DIAGRAM DP734561

FIRST SCHEDULE

BRIAN RAYMOND RUSSELL
ELAINE JOAN RUSSELL
AS JOINT TENANTS

(T W808145)

SECOND SCHEDULE (3 NOTIFICATIONS)

- 1 LAND EXCLUDES MINERALS AND IS SUBJECT TO RESERVATIONS AND CONDITIONS IN FAVOUR OF THE CROWN - SEE CROWN GRANT(S)
- 2 DP734561 RESTRICTION(S) ON THE USE OF LAND
- 3 W808145 COVENANT

NOTATIONS

UNREGISTERED DEALINGS: NIL

*** END OF SEARCH ***



SEARCH DATE

8/5/2023 3:42PM

FOLIO: 6/734561

First Title(s): VOL 3030 FOL 122

Prior Title(s): 201/713860

Recorded -----	Number -----	Type of Instrument -----	C.T. Issue -----
21/7/1986	DP734561	DEPOSITED PLAN	FOLIO CREATED EDITION 1
26/8/1996	2409353	APPLICATION FOR REPLACEMENT CERTIFICATE OF TITLE	EDITION 2
29/7/1998	5159684	TRANSFER	
29/7/1998	5159685	MORTGAGE	EDITION 3
30/1/2006	AC73756	DISCHARGE OF MORTGAGE	
30/1/2006	AC73757	MORTGAGE	EDITION 4
15/9/2018	AN713161	DEPARTMENTAL DEALING	EDITION 5 CORD ISSUED
18/3/2022	AR971366	CAVEAT	EDITION 6
10/5/2022	AS98998	DISCHARGE OF MORTGAGE	EDITION 7
29/9/2022	AS506929	TRANSFER	EDITION 8
29/9/2022	AS509914	CAVEAT	EDITION 9

*** END OF SEARCH ***

Licence: AUS/0634/96

TRANSFER

New South Wales
Real Property Act 1900



Instructions for filling out
this form are available
from the Land Titles Office

Office of State Revenue use only

0072* 62 20/030844102 40 SZ98 86509Z
AND DATE "N" S "N"

(A) **LAND TRANSFERRED**

If appropriate, specify the
share or part transferred.

6/734561

(B) **LODGED BY**

LTO Box

Name, Address or DX and Telephone

374

WBC

Reference (15 character maximum): 6460648-SW-F

(C) **TRANSFEROR** BLAKEBERG NOMINEES PTY. LIMITED (A.C.N.; 001 068 515)

(D) acknowledges receipt of the consideration of THREE HUNDRED and SEVENTY-FIVE THOUSAND DOLLARS (\$375,000.00)
and as regards the land specified above transfers to the transferee an estate in fee simple.

(E) Encumbrances (if applicable): 1. 2. 3.

(F) **TRANSFEE**

T
TS
(\$713 LGA)

DELART PTY. LIMITED (A.C.N.: 069 096 402)

(G)

TW
(Sheriff)

TENANCY:

(H) We certify this dealing correct for the purposes of the Real Property Act 1900. DATE

Signed in my presence by the transferor who is personally known to me.

The Common Seal of Blakeberg
Nominees Pty Ltd was hereunto
affixed by authority of the
Board in the presence of:

Name of Witness (BLOCK LETTERS)

Address of Witness



Signature of Transferor
Blakeberg
Secretary

Signed in my presence by the transferee who is personally known to me.

Signature of Witness

Name of Witness (BLOCK LETTERS)

Address of Witness

Signature of Transferee
Barry Geraghty, Solicitor

If signed on the transferee's behalf by a solicitor or licensed
conveyancer, show the signatory's full name in block letters.



FOLIO: 6/734561

SEARCH DATE	TIME	EDITION NO	DATE
8/5/2023	3:42 PM	9	29/9/2022

LAND

LOT 6 IN DEPOSITED PLAN 734561
AT OAKDALE
LOCAL GOVERNMENT AREA WOLLONDILLY
PARISH OF BURRAGORANG COUNTY OF CAMDEN
TITLE DIAGRAM DP734561

FIRST SCHEDULE

MOREHUMAN OAKDALE PTY LTD

(T AS506929)

SECOND SCHEDULE (2 NOTIFICATIONS)

- 1 LAND EXCLUDES MINERALS AND IS SUBJECT TO RESERVATIONS AND
CONDITIONS IN FAVOUR OF THE CROWN - SEE CROWN GRANT(S)
- * 2 AS509914 CAVEAT BY DELART PTY LIMITED

NOTATIONS

UNREGISTERED DEALINGS: NIL

*** END OF SEARCH ***



APPENDIX C

LOTSEARCH REPORT



LOTSEARCH

LOTSEARCH ENVIRO PROFESSIONAL

Date: 08 May 2023 10:07:07

Reference: LS043207 EP

**Address: 1838 Barkers Lodge Road, 1455-1457 Burragorang Road, Oakdale
NSW 2570**

Disclaimer:

The purpose of this report is to provide an overview of some of the site history, environmental risk and planning information available, affecting an individual address or geographical area in which the property is located. It is not a substitute for an on-site inspection or review of other available reports and records. It is not intended to be, and should not be taken to be, a rating or assessment of the desirability or market value of the property or its features.

You should obtain independent advice before you make any decision based on the information within the report.

The detailed terms applicable to use of this report are set out at the end of this report.

Dataset Listing

Datasets contained within this report, detailing their source and data currency:

Dataset Name	Custodian	Supply Date	Currency Date	Update Frequency	Dataset Buffer (m)	No. Features On-site	No. Features within 100m	No. Features within Buffer
Cadastre Boundaries	NSW Department of Customer Service - Spatial Services	14/02/2023	14/02/2023	Quarterly	-	-	-	-
Topographic Data	NSW Department of Customer Service - Spatial Services	22/08/2022	22/08/2022	Annually	-	-	-	-
List of NSW contaminated sites notified to EPA	Environment Protection Authority	02/05/2023	11/04/2023	Monthly	1000m	0	0	0
Contaminated Land Records of Notice	Environment Protection Authority	04/05/2023	04/05/2023	Monthly	1000m	0	0	0
Former Gasworks	Environment Protection Authority	06/12/2022	14/07/2021	Quarterly	1000m	0	0	0
National Waste Management Facilities Database	Geoscience Australia	26/05/2022	07/03/2017	Annually	1000m	0	0	0
National Liquid Fuel Facilities	Geoscience Australia	23/08/2022	13/07/2012	Annually	1000m	0	0	0
EPA PFAS Investigation Program	Environment Protection Authority	02/05/2023	23/09/2022	Monthly	2000m	0	0	0
Defence PFAS Investigation & Management Program - Investigation Sites	Department of Defence	14/02/2023	14/02/2023	Monthly	2000m	0	0	0
Defence PFAS Investigation & Management Program - Management Sites	Department of Defence	14/02/2023	14/02/2023	Monthly	2000m	0	0	0
Airservices Australia National PFAS Management Program	Airservices Australia	30/03/2023	30/03/2023	Monthly	2000m	0	0	0
Defence 3 Year Regional Contamination Investigation Program	Department of Defence	02/09/2022	02/09/2022	Quarterly	2000m	0	0	0
EPA Other Sites with Contamination Issues	Environment Protection Authority	16/02/2022	13/12/2018	Annually	1000m	0	0	0
Licensed Activities under the POEO Act 1997	Environment Protection Authority	04/05/2023	04/05/2023	Monthly	1000m	0	0	0
Delicensed POEO Activities still regulated by the EPA	Environment Protection Authority	04/05/2023	04/05/2023	Monthly	1000m	0	0	0
Former POEO Licensed Activities now revoked or surrendered	Environment Protection Authority	04/05/2023	04/05/2023	Monthly	1000m	5	5	5
UBD Business Directories (Premise & Intersection Matches)	Hardie Grant			Not required	150m	0	0	0
UBD Business Directories (Road & Area Matches)	Hardie Grant			Not required	150m	-	0	0
UBD Business Directory Dry Cleaners & Motor Garages/Service Stations (Premise & Intersection Matches)	Hardie Grant			Not required	500m	0	0	0
UBD Business Directory Dry Cleaners & Motor Garages/Service Stations (Road & Area Matches)	Hardie Grant			Not required	500m	-	0	0
Points of Interest	NSW Department of Customer Service - Spatial Services	19/10/2022	19/10/2022	Quarterly	1000m	0	4	13
Tanks (Areas)	NSW Department of Customer Service - Spatial Services	19/10/2022	19/10/2022	Quarterly	1000m	0	0	0
Tanks (Points)	NSW Department of Customer Service - Spatial Services	19/10/2022	19/10/2022	Quarterly	1000m	0	0	0
Major Easements	NSW Department of Customer Service - Spatial Services	16/02/2023	16/02/2023	Quarterly	1000m	0	0	6
State Forest	Forestry Corporation of NSW	16/08/2022	14/08/2022	Annually	1000m	0	0	0
NSW National Parks and Wildlife Service Reserves	NSW Office of Environment & Heritage	16/02/2023	31/12/2022	Annually	1000m	0	0	1
Hydrogeology Map of Australia	Commonwealth of Australia (Geoscience Australia)	29/08/2022	19/08/2019	As required	1000m	1	1	1
Temporary Water Restriction (Botany Sands Groundwater Source) Order 2018	NSW Department of Planning, Industry and Environment	28/03/2022	23/02/2018	Annually	1000m	0	0	0
National Groundwater Information System (NGIS) Boreholes	Bureau of Meteorology; Water NSW	18/04/2023	13/07/2022	Annually	2000m	0	0	25

Dataset Name	Custodian	Supply Date	Currency Date	Update Frequency	Dataset Buffer (m)	No. Features On-site	No. Features within 100m	No. Features within Buffer
NSW Seamless Geology Single Layer: Rock Units	Department of Regional NSW	17/02/2022	01/05/2021	Annually	1000m	2	2	2
NSW Seamless Geology – Single Layer: Trendlines	Department of Regional NSW	17/02/2022	01/05/2021	Annually	1000m	0	0	0
NSW Seamless Geology – Single Layer: Geological Boundaries and Faults	Department of Regional NSW	17/02/2022	01/05/2021	Annually	1000m	0	0	0
Naturally Occurring Asbestos Potential	NSW Dept. of Industry, Resources & Energy	04/12/2015	24/09/2015	Unknown	1000m	0	0	0
Atlas of Australian Soils	Australian Bureau of Agriculture and Resource Economics and Sciences (ABARES)	19/05/2017	17/02/2011	As required	1000m	1	1	2
Soil Landscapes of Central and Eastern NSW	NSW Department of Planning, Industry and Environment	18/08/2022	27/07/2020	Annually	1000m	1	2	4
Environmental Planning Instrument Acid Sulfate Soils	NSW Department of Planning, Industry and Environment	28/02/2023	02/12/2022	Monthly	500m	0	-	-
Atlas of Australian Acid Sulfate Soils	CSIRO	19/01/2017	21/02/2013	As required	1000m	1	1	1
Dryland Salinity - National Assessment	National Land and Water Resources Audit	18/07/2014	12/05/2013	None planned	1000m	0	0	0
Dryland Salinity Potential of Western Sydney	NSW Department of Planning, Industry and Environment	12/05/2017	01/01/2002	None planned	1000m	3	3	7
Mining Subsidence Districts	NSW Department of Customer Service - Subsidence Advisory NSW	14/02/2023	14/02/2023	Quarterly	1000m	0	0	0
Current Mining Titles	NSW Department of Industry	13/02/2023	13/02/2023	Monthly	1000m	0	0	0
Mining Title Applications	NSW Department of Industry	13/02/2023	13/02/2023	Monthly	1000m	0	0	0
Historic Mining Titles	NSW Department of Industry	13/02/2023	13/02/2023	Monthly	1000m	9	11	15
Environmental Planning Instrument SEPP State Significant Precincts	NSW Department of Planning, Industry and Environment	15/11/2021	07/12/2018	Monthly	1000m	0	0	0
Environmental Planning Instrument Land Zoning	NSW Department of Planning, Industry and Environment	15/12/2022	02/12/2022	Monthly	1000m	2	9	19
Commonwealth Heritage List	Australian Government Department of the Agriculture, Water and the Environment	03/06/2022	13/04/2022	Annually	1000m	0	0	0
National Heritage List	Australian Government Department of the Agriculture, Water and the Environment	03/06/2022	13/04/2022	Annually	1000m	0	0	0
State Heritage Register - Curtilages	NSW Department of Planning, Industry and Environment	18/10/2022	01/07/2022	Quarterly	1000m	0	0	0
Environmental Planning Instrument Local Heritage	NSW Department of Planning, Industry and Environment	28/02/2023	17/02/2023	Monthly	1000m	0	1	4
Bush Fire Prone Land	NSW Rural Fire Service	08/05/2023	25/10/2022	Weekly	1000m	3	3	3
Remnant Vegetation of the Cumberland Plain	NSW Office of Environment & Heritage	07/10/2014	04/08/2011	Unknown	1000m	6	8	14
Ramsar Wetlands of Australia	Australian Government Department of Agriculture, Water and the Environment	28/03/2022	19/03/2020	Annually	1000m	0	0	0
Groundwater Dependent Ecosystems	Bureau of Meteorology	28/10/2022	26/10/2022	Annually	1000m	1	1	3
Inflow Dependent Ecosystems Likelihood	Bureau of Meteorology	28/10/2022	26/10/2022	Annually	1000m	1	1	3
NSW BioNet Species Sightings	NSW Office of Environment & Heritage	08/05/2023	08/05/2023	Weekly	10000m	-	-	-

Site Diagram

1838 Barkers Lodge Road, 1455-1457 Burragorang Road, Oakdale NSW 2570



Legend <div><div></div> Site Boundary</div> <div><div></div> Internal Parcel Boundaries</div>	Total Area: 226802m ² Total Perimeter: 2.73km		Scale: 0 25 50 100 150 200 Meters	
	Disclaimers: Measurements are approximate only and may have been simplified or smaller lengths removed for readability. Parcels that make up a small percentage of the total site area have not been labelled for increased legibility.		Data Source Aerial Imagery: © Aerometrex Pty Ltd	
	Coordinate System: GDA 1994 MGA Zone 56		Date: 08 May 2023	

Contaminated Land

1838 Barkers Lodge Road, 1455-1457 Burratorang Road, Oakdale NSW 2570

List of NSW contaminated sites notified to EPA

Records from the NSW EPA Contaminated Land list within the dataset buffer:

Map Id	Site	Address	Suburb	Activity	Management Class	Status	Location Confidence	Dist	Direction
N/A	No records in buffer								

The values within the EPA site management class in the table above, are given more detailed explanations in the table below:

EPA site management class	Explanation
Contamination being managed via the planning process (EP&A Act)	The EPA has completed an assessment of the contamination and decided that the contamination is significant enough to warrant regulation. The contamination of this site is managed by the consent authority under the Environmental Planning and Assessment Act 1979 (EP&A Act) planning approval process, with EPA involvement as necessary to ensure significant contamination is adequately addressed. The consent authority is typically a local council or the Department of Planning and Environment.
Contamination currently regulated under CLM Act	The EPA has completed an assessment of the contamination and decided that the contamination is significant enough to warrant regulation under the Contaminated Land Management Act 1997 (CLM Act). Management of the contamination is regulated by the EPA under the CLM Act. Regulatory notices are available on the EPA's Contaminated Land Public Record of Notices.
Contamination currently regulated under POEO Act	The EPA has completed an assessment of the contamination and decided that the contamination is significant enough to warrant regulation. Management of the contamination is regulated under the Protection of the Environment Operations Act 1997 (POEO Act). The EPA's regulatory actions under the POEO Act are available on the POEO public register.
Contamination formerly regulated under the CLM Act	The EPA has determined that the contamination is no longer significant enough to warrant regulation under the Contaminated Land Management Act 1997 (CLM Act). The contamination was addressed under the CLM Act.
Contamination formerly regulated under the POEO Act	The EPA has determined that the contamination is no longer significant enough to warrant regulation. The contamination was addressed under the Protection of the Environment Operations Act 1997 (POEO Act).
Contamination was addressed via the planning process (EP&A Act)	The EPA has determined that the contamination is no longer significant enough to warrant regulation. The contamination was addressed by the appropriate consent authority via the planning process under the Environmental Planning and Assessment Act 1979 (EP&A Act).
Ongoing maintenance required to manage residual contamination (CLM Act)	The EPA has determined that ongoing maintenance, under the Contaminated Land Management Act 1997 (CLM Act), is required to manage the residual contamination. Regulatory notices under the CLM Act are available on the EPA's Contaminated Land Public Record of Notices.
Regulation being finalised	The EPA has completed an assessment of the contamination and decided that the contamination is significant enough to warrant regulation under the Contaminated Land Management Act 1997. A regulatory approach is being finalised.
Regulation under the CLM Act not required	The EPA has completed an assessment of the contamination and decided that regulation under the Contaminated Land Management Act 1997 is not required.
Under assessment	The contamination is being assessed by the EPA to determine whether regulation is required. The EPA may require further information to complete the assessment. For example, the completion of management actions regulated under the planning process or Protection of the Environment Operations Act 1997. Alternatively, the EPA may require information via a notice issued under s77 of the Contaminated Land Management Act 1997 or issue a Preliminary Investigation Order.

NSW EPA Contaminated Land List Data Source: Environment Protection Authority
© State of New South Wales through the Environment Protection Authority

Contaminated Land

1838 Barkers Lodge Road, 1455-1457 Burragorang Road, Oakdale NSW 2570

Contaminated Land: Records of Notice

Record of Notices within the dataset buffer:

Map Id	Name	Address	Suburb	Notices	Area No	Location Confidence	Distance	Direction
N/A	No records in buffer							

Contaminated Land Records of Notice Data Source: Environment Protection Authority

© State of New South Wales through the Environment Protection Authority

Terms of use and disclaimer for Contaminated Land: Record of Notices, please visit

<http://www.epa.nsw.gov.au/clm/clmdisclaimer.htm>

Former Gasworks

Former Gasworks within the dataset buffer:

Map Id	Location	Council	Further Info	Location Confidence	Distance	Direction
N/A	No records in buffer					

Former Gasworks Data Source: Environment Protection Authority

© State of New South Wales through the Environment Protection Authority

Waste Management & Liquid Fuel Facilities

1838 Barkers Lodge Road, 1455-1457 Burragorang Road, Oakdale NSW 2570

National Waste Management Site Database

Sites on the National Waste Management Site Database within the dataset buffer:

Site Id	Owner	Name	Address	Suburb	Class	Landfill	Reprocess	Transfer	Comments	Loc Conf	Dist	Direction
N/A	No records in buffer											

Waste Management Facilities Data Source: Geoscience Australia
Creative Commons 3.0 © Commonwealth of Australia <http://creativecommons.org/licenses/by/3.0/au/deed.en>

National Liquid Fuel Facilities

National Liquid Fuel Facilities within the dataset buffer:

Map Id	Owner	Name	Address	Suburb	Class	Operational Status	Operator	Revision Date	Loc Conf	Dist	Direction
N/A	No records in buffer										

National Liquid Fuel Facilities Data Source: Geoscience Australia
Creative Commons 3.0 © Commonwealth of Australia <http://creativecommons.org/licenses/by/3.0/au/deed.en>

PFAS Investigation & Management Programs

1838 Barkers Lodge Road, 1455-1457 Burragorang Road, Oakdale NSW 2570

EPA PFAS Investigation Program

Sites that are part of the EPA PFAS investigation program, within the dataset buffer:

Map ID	Site	Address	Loc Conf	Dist	Dir
N/A	No records in buffer				

EPA PFAS Investigation Program: Environment Protection Authority
© State of New South Wales through the Environment Protection Authority

Defence PFAS Investigation Program

Sites being investigated by the Department of Defence for PFAS contamination within the dataset buffer:

Map ID	Base Name	Address	Loc Conf	Dist	Dir
N/A	No records in buffer				

Defence PFAS Investigation Program Data Custodian: Department of Defence, Australian Government

Defence PFAS Management Program

Sites being managed by the Department of Defence for PFAS contamination within the dataset buffer:

Map ID	Base Name	Address	Loc Conf	Dist	Dir
N/A	No records in buffer				

Defence PFAS Management Program Data Custodian: Department of Defence, Australian Government

Airservices Australia National PFAS Management Program

Sites being investigated or managed by Airservices Australia for PFAS contamination within the dataset buffer:

Map ID	Site Name	Impacts	Loc Conf	Dist	Dir
N/A	No records in buffer				

Airservices Australia National PFAS Management Program Data Custodian: Airservices Australia

Defence Sites

1838 Barkers Lodge Road, 1455-1457 Burragorang Road, Oakdale NSW 2570

Defence 3 Year Regional Contamination Investigation Program

Sites which have been assessed as part of the Defence 3 Year Regional Contamination Investigation Program within the dataset buffer:

Property ID	Base Name	Address	Known Contamination	Loc Conf	Dist	Dir
N/A	No records in buffer					

Defence 3 Year Regional Contamination Investigation Program, Data Custodian: Department of Defence, Australian Government

EPA Other Sites with Contamination Issues

1838 Barkers Lodge Road, 1455-1457 Burragorang Road, Oakdale NSW 2570

EPA Other Sites with Contamination Issues

This dataset contains other sites identified on the EPA website as having contamination issues. This dataset currently includes:

- James Hardie asbestos manufacturing and waste disposal sites
- Radiological investigation sites in Hunter's Hill
- Pasminco Lead Abatement Strategy Area

Sites within the dataset buffer:

Site Id	Site Name	Site Address	Dataset	Comments	Location Confidence	Distance	Direction
N/A	No records in buffer						

EPA Other Sites with Contamination Issues: Environment Protection Authority
© State of New South Wales through the Environment Protection Authority

EPA Activities

1838 Barkers Lodge Road, 1455-1457 Burragorang Road, Oakdale NSW 2570

Licensed Activities under the POEO Act 1997

Licensed activities under the Protection of the Environment Operations Act 1997, within the dataset buffer:

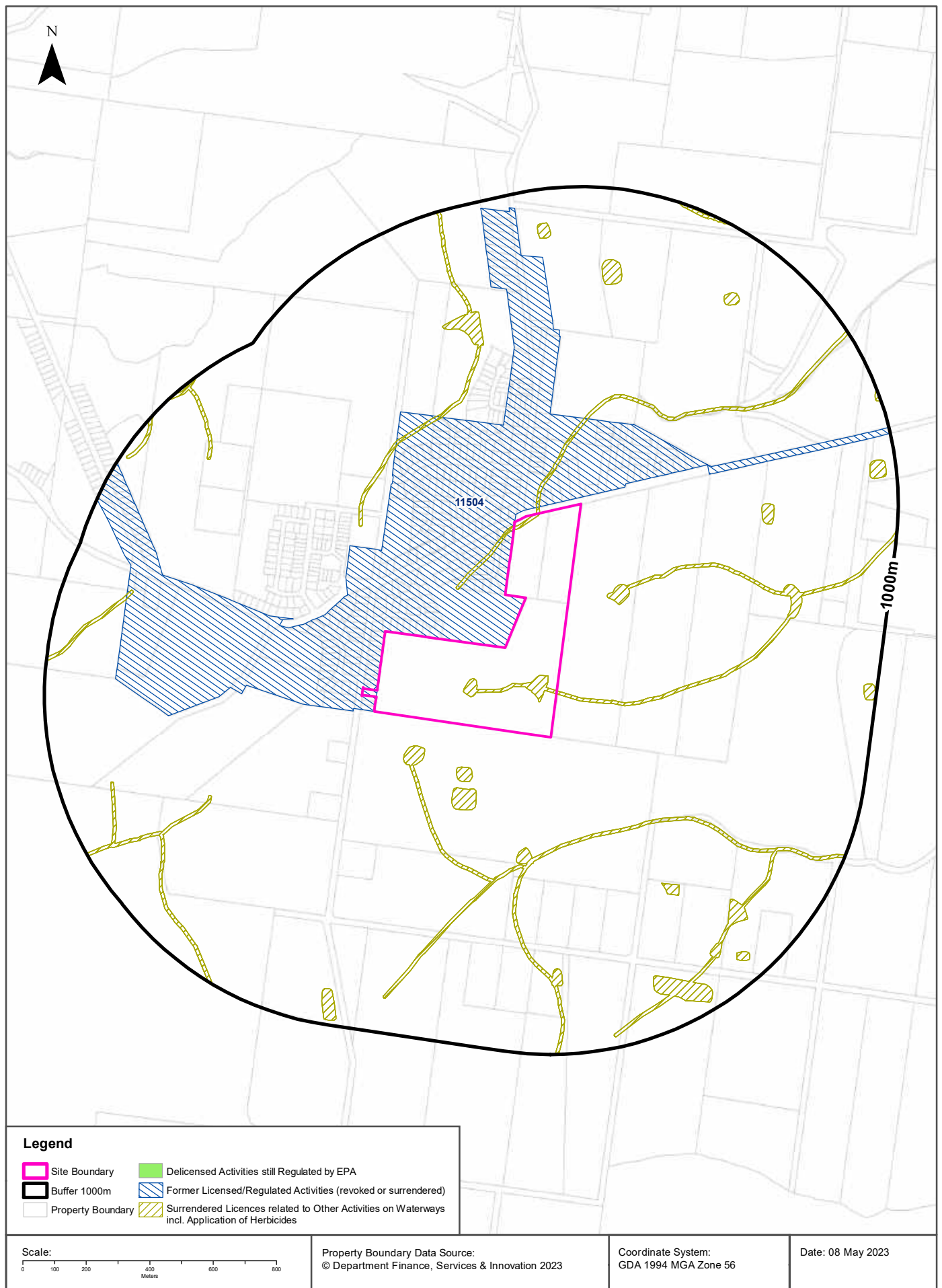
EPL	Organisation	Name	Address	Suburb	Activity	Loc Conf	Distance	Direction
N/A	No records in buffer							

POEO Licence Data Source: Environment Protection Authority

© State of New South Wales through the Environment Protection Authority

Delicensed & Former Licensed EPA Activities

1838 Barkers Lodge Road, 1455-1457 Burragorang Road, Oakdale NSW 2570



EPA Activities

1838 Barkers Lodge Road, 1455-1457 Burragorang Road, Oakdale NSW 2570

Delicensed Activities still regulated by the EPA

Delicensed activities still regulated by the EPA, within the dataset buffer:

Licence No	Organisation	Name	Address	Suburb	Activity	Loc Conf	Distance	Direction
N/A	No records in buffer							

Delicensed Activities Data Source: Environment Protection Authority
© State of New South Wales through the Environment Protection Authority

Former Licensed Activities under the POEO Act 1997, now revoked or surrendered

Former Licensed activities under the Protection of the Environment Operations Act 1997, now revoked or surrendered, within the dataset buffer:

Licence No	Organisation	Location	Status	Issued Date	Activity	Loc Conf	Distance	Direction
4390	WOLLONDILLY SHIRE COUNCIL	WATERWAYS OF WOLLONDILLY SHIRE COUNCIL	Surrendered	07/09/2000	Other Activities	Network of Features	0m	On-site
4653	LUHRMANN ENVIRONMENT MANAGEMENT PTY LTD	WATERWAYS THROUGHOUT NSW	Surrendered	06/09/2000	Other Activities / Non Scheduled Activity - Application of Herbicides	Network of Features	0m	On-site
4838	Robert Orchard	Various Waterways throughout New South Wales - SYDNEY NSW 2000	Surrendered	07/09/2000	Other Activities / Non Scheduled Activity - Application of Herbicides	Network of Features	0m	On-site
6630	SYDNEY WEED & PEST MANAGEMENT PTY LTD	WATERWAYS THROUGHOUT NSW - PROSPECT, NSW, 2148	Surrendered	09/11/2000	Other Activities / Non Scheduled Activity - Application of Herbicides	Network of Features	0m	On-site
11504	SYDNEY WATER CORPORATION	THE OAKS, OAKDALE AND BELIMBLA PARK SEWERAGE SCHEME THE TOWNSHIP OF, BELIMBLA PARK, NSW, 2570	Surrendered	13/11/2001	Sewage Treatment Processing by Small Plants	Network of Features	0m	On-site

Former Licensed Activities Data Source: Environment Protection Authority
© State of New South Wales through the Environment Protection Authority

Historical Business Directories

1838 Barkers Lodge Road, 1455-1457 Burragorang Road, Oakdale NSW 2570

Business Directory Records 1950-1991 Premise or Road Intersection Matches

Universal Business Directory records from years 1991, 1982, 1970, 1961 & 1950, mapped to a premise or road intersection within the dataset buffer:

Map Id	Business Activity	Premise	Ref No.	Year	Location Confidence	Distance to Property Boundary or Road Intersection	Direction
N/A	No records in buffer						

Reproduced with permission of UBD and Hardie Grant Media Pty Ltd DD 01/08/2018

Business Directory Records 1950-1991 Road or Area Matches

Universal Business Directory records from years 1991, 1982, 1970, 1961 & 1950, mapped to a road or an area, within the dataset buffer. Records are mapped to the road when a building number is not supplied, cannot be found, or the road has been renumbered since the directory was published:

Map Id	Business Activity	Premise	Ref No.	Year	Location Confidence	Distance to Road Corridor or Area
N/A	No records in buffer					

Reproduced with permission of UBD and Hardie Grant Media Pty Ltd DD 01/08/2018

Historical Business Directories

1838 Barkers Lodge Road, 1455-1457 Burragorang Road, Oakdale NSW 2570

Dry Cleaners, Motor Garages & Service Stations Premise or Road Intersection Matches

Dry Cleaners, Motor Garages & Service Stations from UBD Business Directories, mapped to a premise or road intersection, within the dataset buffer.

Map Id	Business Activity	Premise	Ref No.	Year	Location Confidence	Distance to Property Boundary or Road Intersection	Direction
N/A	No records in buffer						

Reproduced with permission of UBD and Hardie Grant Media Pty Ltd DD 01/08/2018

Dry Cleaners, Motor Garages & Service Stations Road or Area Matches

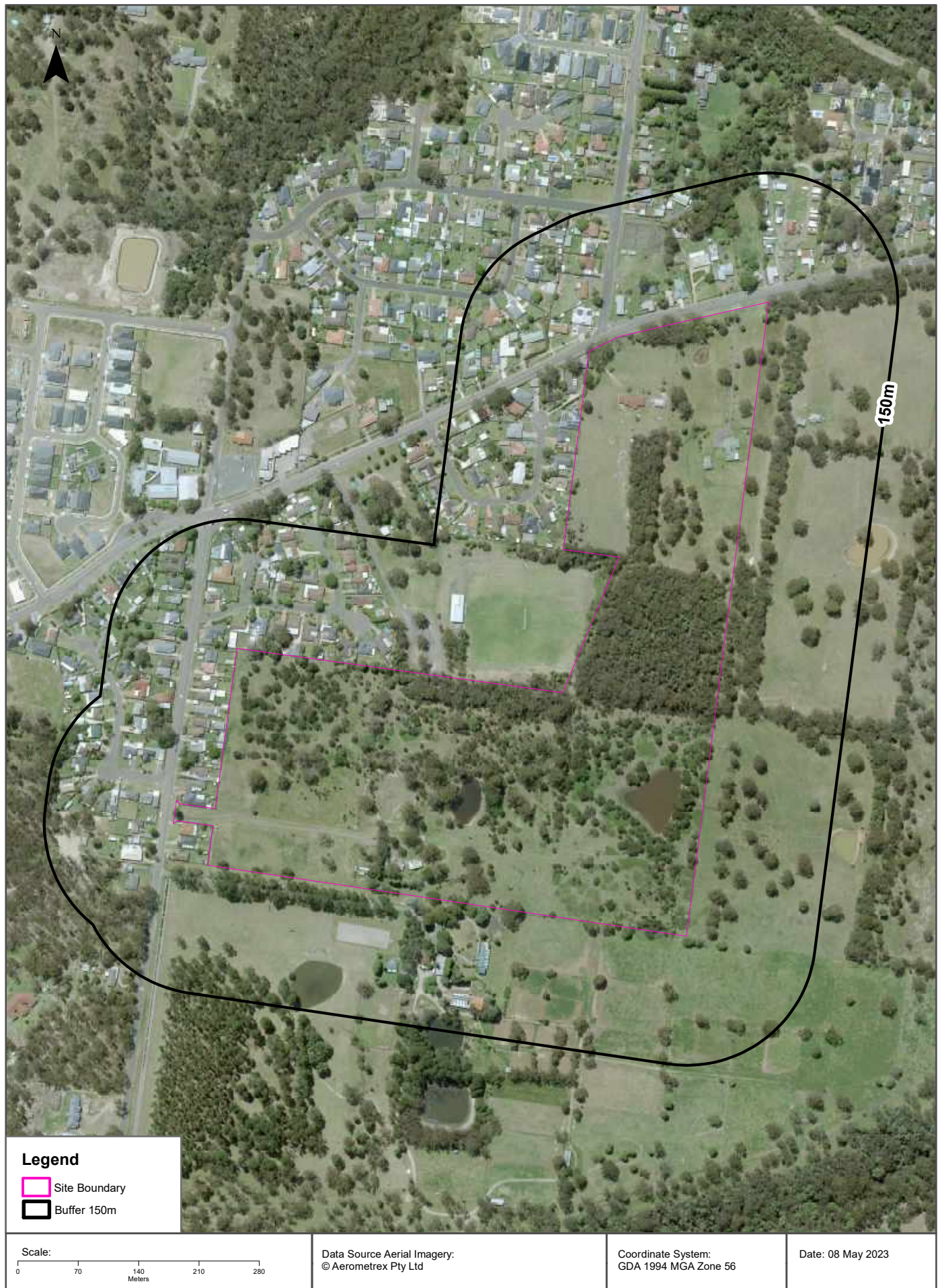
Dry Cleaners, Motor Garages & Service Stations from UBD Business Directories, mapped to a road or an area, within the dataset buffer. Records are mapped to the road when a building number is not supplied, cannot be found, or the road has been renumbered since the directory was published.

Map Id	Business Activity	Premise	Ref No.	Year	Location Confidence	Distance to Road Corridor or Area
N/A	No records in buffer					

Reproduced with permission of UBD and Hardie Grant Media Pty Ltd DD 01/08/2018

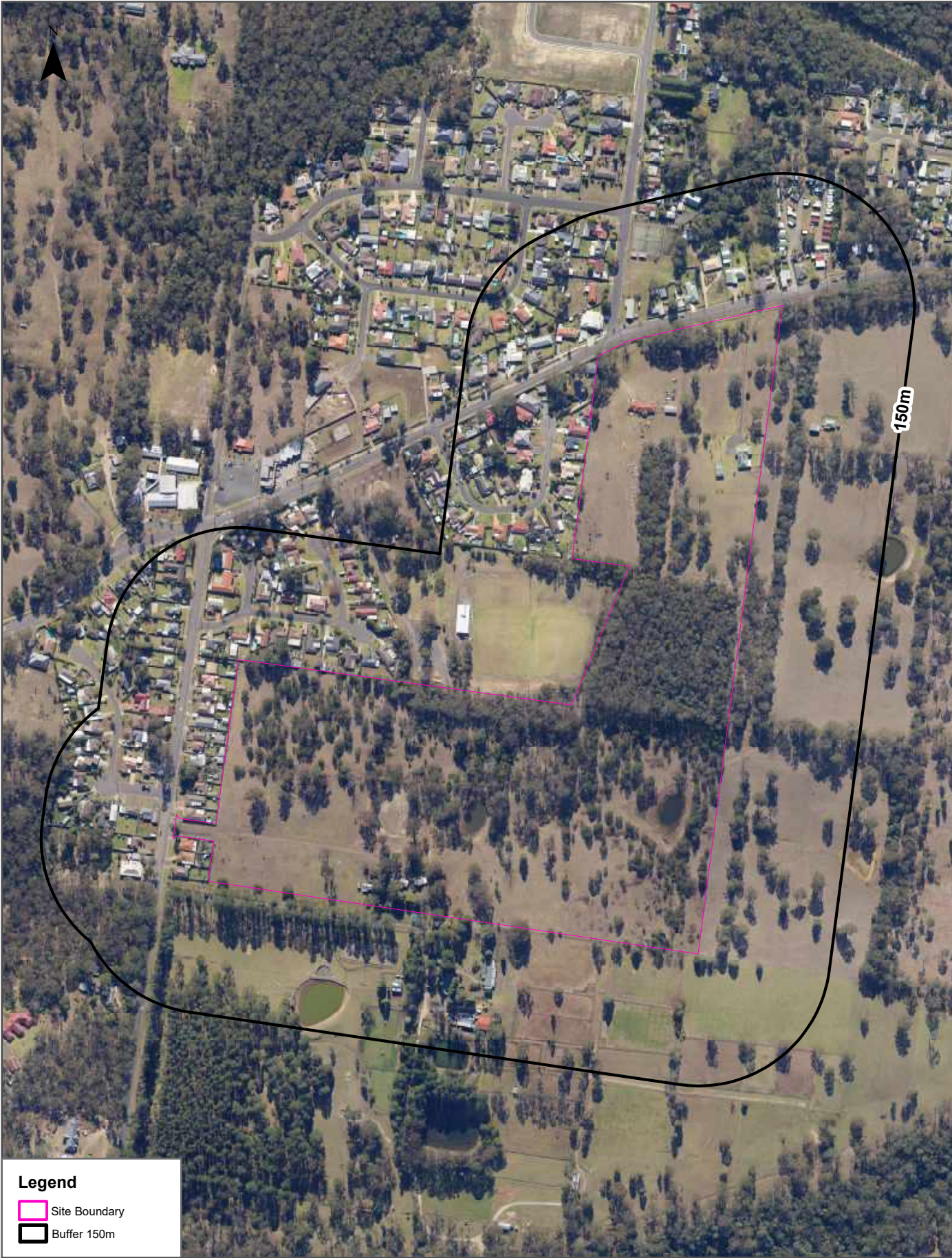
Aerial Imagery 2021

1838 Barkers Lodge Road, 1455-1457 Burragorang Road, Oakdale NSW 2570



Aerial Imagery 2018

1838 Barkers Lodge Road, 1455-1457 Burragorang Road, Oakdale NSW 2570



Scale: 0 70 140 210 280 Meters	Data Source Aerial Imagery: © Aerometrex Pty Ltd	Coordinate System: GDA 1994 MGA Zone 56	Date: 08 May 2023
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Aerial Imagery 2016

1838 Barkers Lodge Road, 1455-1457 Burragorang Road, Oakdale NSW 2570



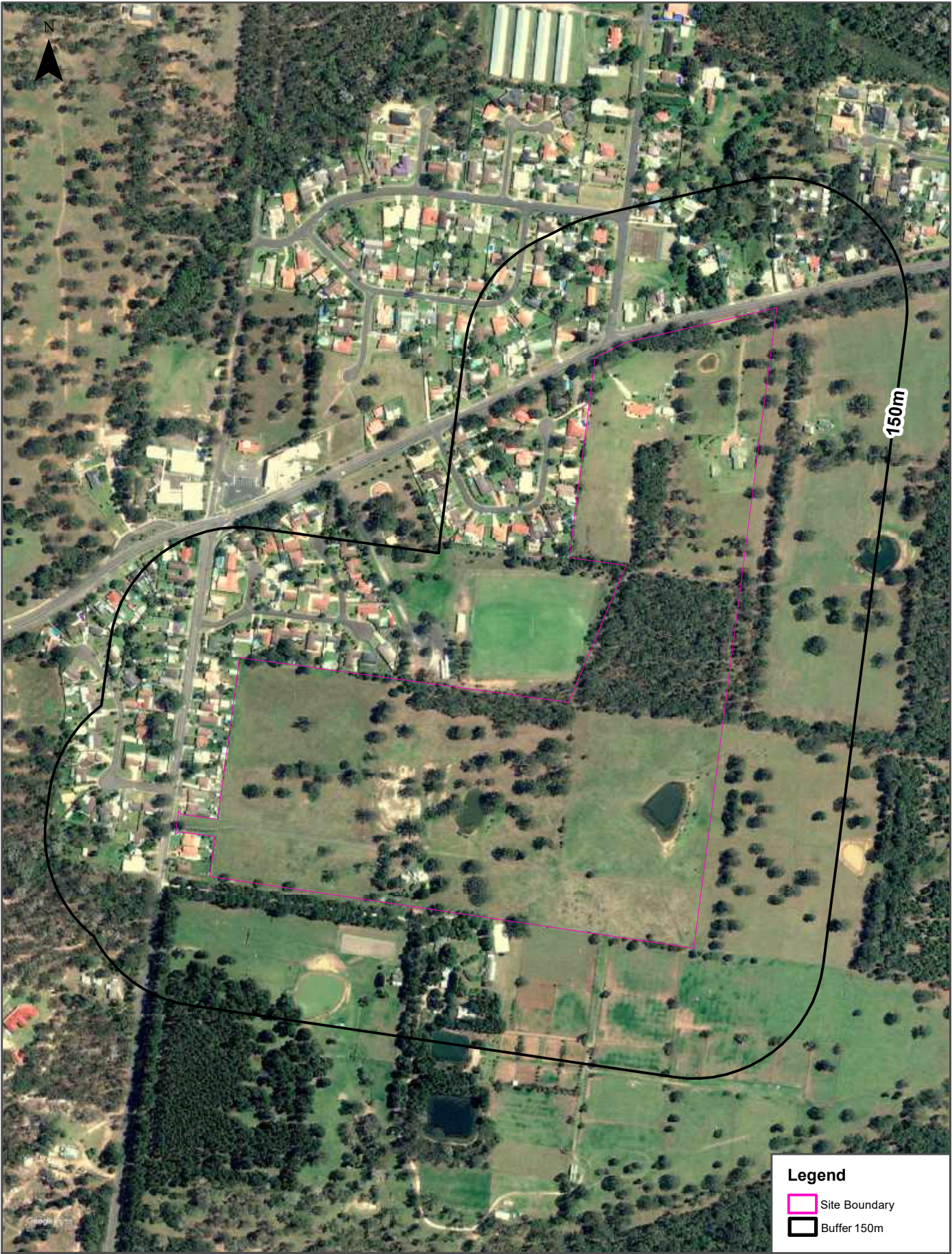
Aerial Imagery 2013

1838 Barkers Lodge Road, 1455-1457 Burragorang Road, Oakdale NSW 2570



Aerial Imagery 2010

1838 Barkers Lodge Road, 1455-1457 Burragorang Road, Oakdale NSW 2570



<p>Scale:</p> <p>0 70 140 210 280</p> <p>Meters</p>	<p>Data Source Aerial Imagery: © 2023 Google Inc, used with permission. Google and the Google logo are registered trademarks of Google Inc.</p>	<p>Coordinate System: GDA 1994 MGA Zone 56</p>	<p>Date: 05 May 2023</p>
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Aerial Imagery 2006

1838 Barkers Lodge Road, 1455-1457 Burragorang Road, Oakdale NSW 2570



Aerial Imagery 1994

1838 Barkers Lodge Road, 1455-1457 Burragorang Road, Oakdale NSW 2570



Scale: 0 70 140 210 280 Meters	Data Source Aerial Imagery: © NSW Department of Customer Service	Coordinate System: GDA 1994 MGA Zone 56	Date: 09 May 2023
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Aerial Imagery 1983

1838 Barkers Lodge Road, 1455-1457 Burragorang Road, Oakdale NSW 2570



Aerial Imagery 1972

1838 Barkers Lodge Road, 1455-1457 Burragorang Road, Oakdale NSW 2570



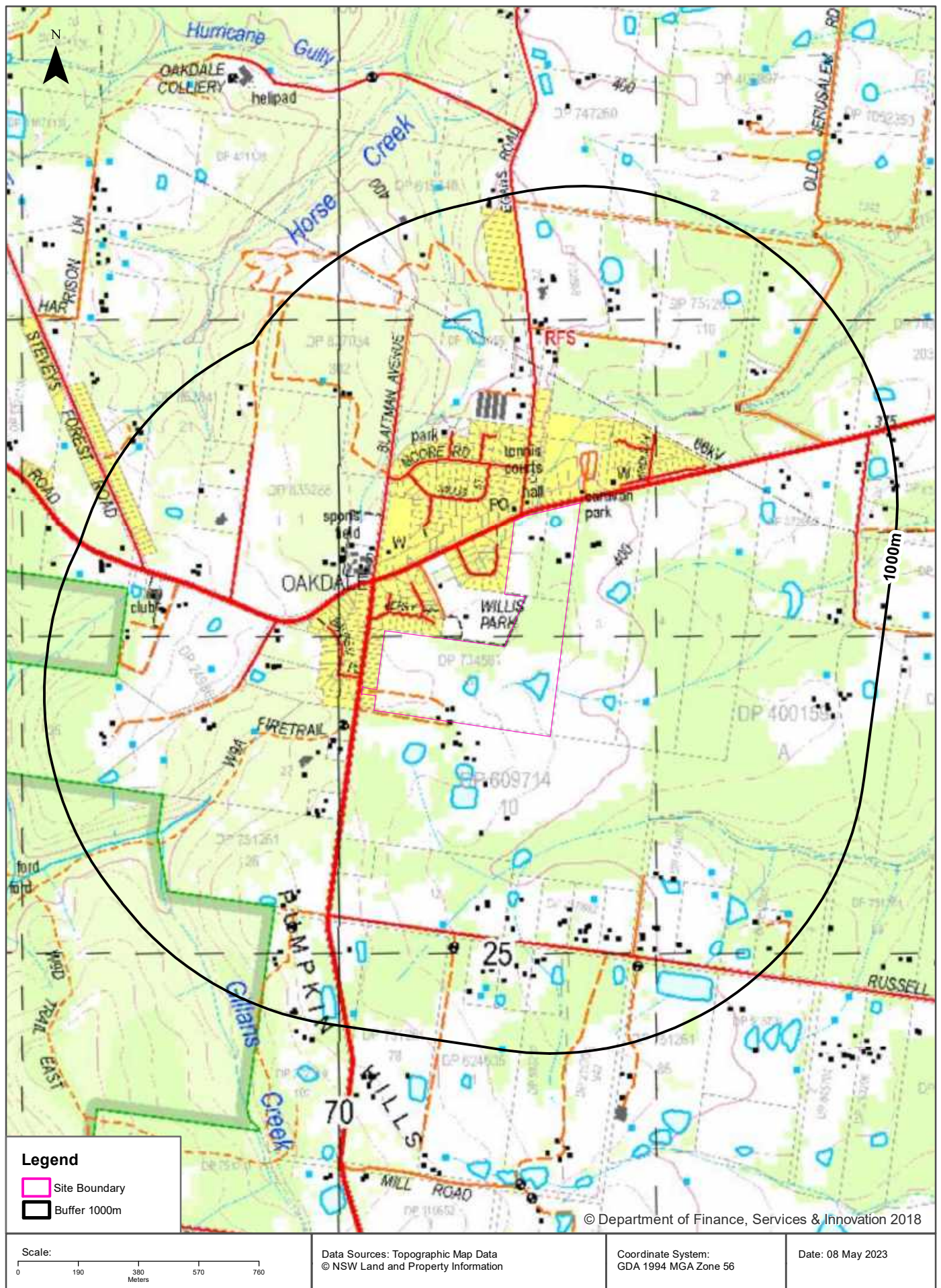
Aerial Imagery 1962

1838 Barkers Lodge Road, 1455-1457 Burragorang Road, Oakdale NSW 2570



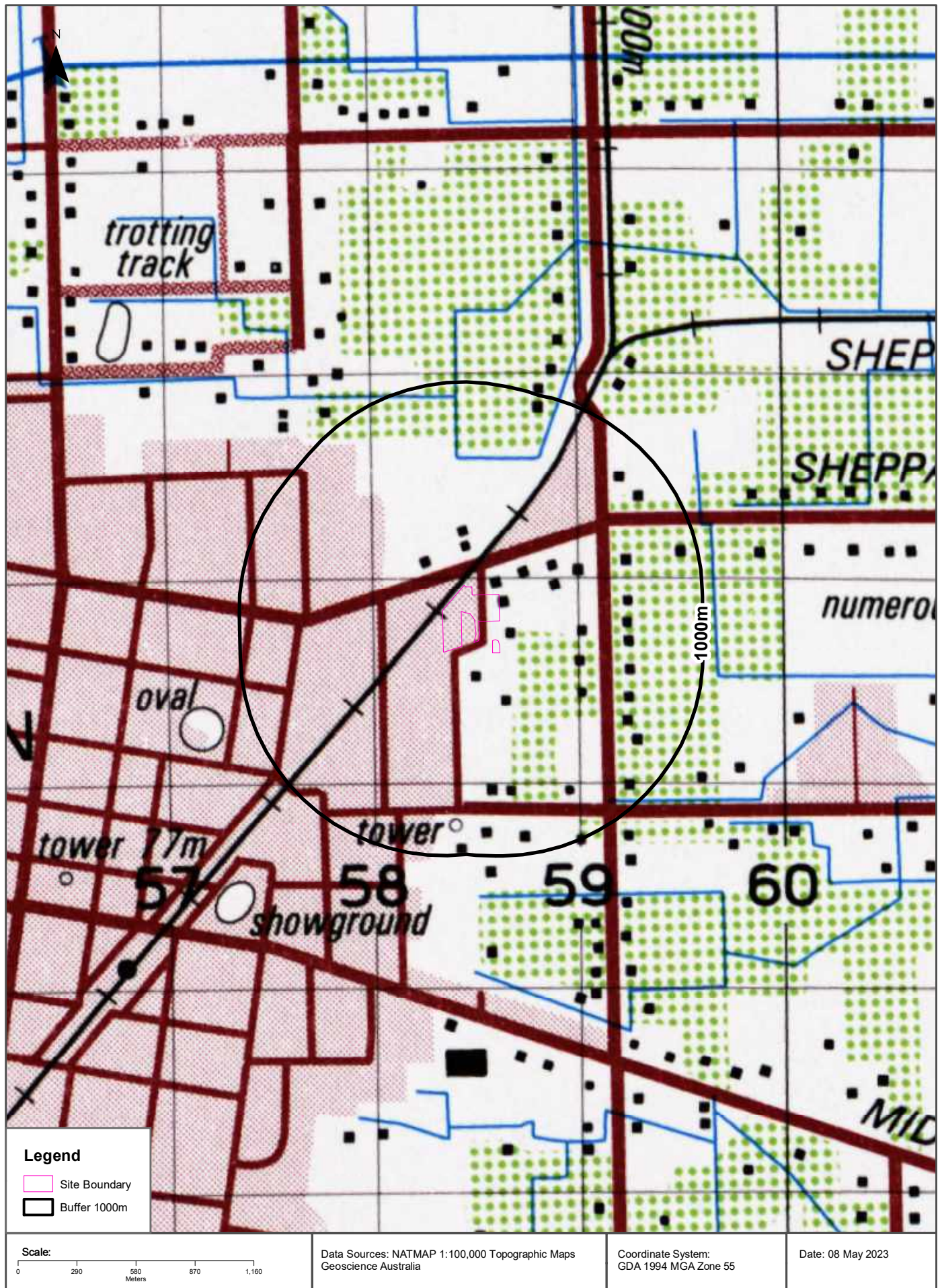
Topographic Map 2015

1838 Barkers Lodge Road, 1455-1457 Burragorang Road, Oakdale NSW 2570



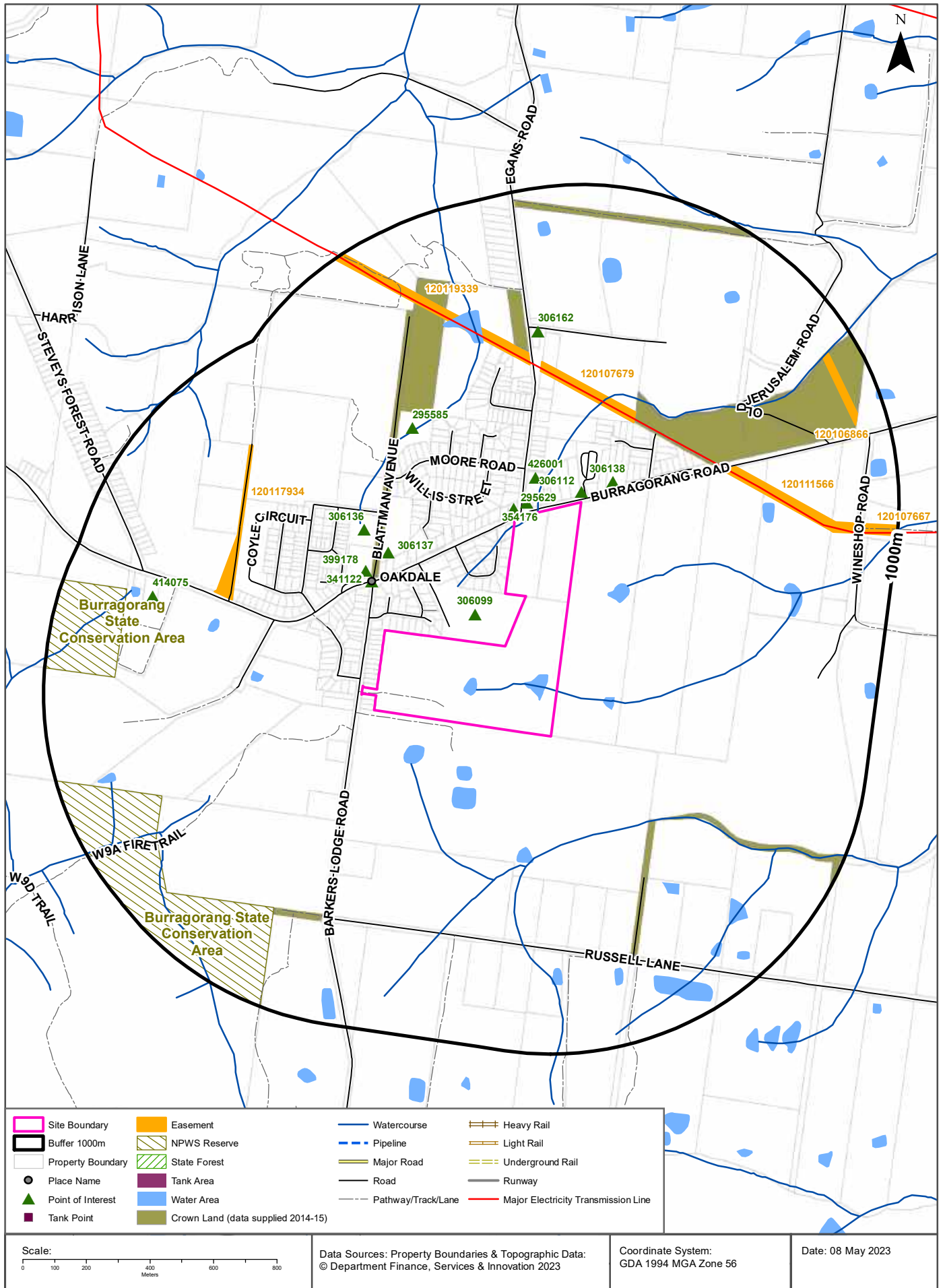
Historical Map 1984

1838 Barkers Lodge Road, 1455-1457 Burragorang Road, Oakdale NSW 2570



Topographic Features

1838 Barkers Lodge Road, 1455-1457 Burragorang Road, Oakdale NSW 2570



Topographic Features

1838 Barkers Lodge Road, 1455-1457 Burragorang Road, Oakdale NSW 2570

Points of Interest

What Points of Interest exist within the dataset buffer?

Map Id	Feature Type	Label	Distance	Direction
306112	Tourist Park / Home Village	OAKDALE CARAVAN PARK	34m	North East
295629	Post Office	OAKDALE POST OFFICE	35m	North
354176	Community Facility	OAKDALE COMMUNITY HALL	38m	North
306099	Park	WILLIS PARK	88m	North West
426001	Sports Court	Sports Court	108m	North
306138	Place Of Worship	UNITING CHURCH	119m	North East
341122	Suburb	OAKDALE	158m	North West
399178	Primary School	OAKDALE PUBLIC SCHOOL	197m	North West
306137	Place Of Worship	CATHOLIC CHURCH	243m	North West
306136	Sports Field	Sports Field	322m	North West
295585	Park	Park	434m	North
306162	Firestation - Bush	OAKDALE RFB	554m	North
414075	Club	OAKDALE WORKERS SPORTING AND RECREATION CLUB	719m	West

Topographic Data Source: © Land and Property Information (2015)

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Topographic Features

1838 Barkers Lodge Road, 1455-1457 Burragorang Road, Oakdale NSW 2570

Tanks (Areas)

What are the Tank Areas located within the dataset buffer?

Note. The large majority of tank features provided by LPI are derived from aerial imagery & are therefore primarily above ground tanks.

Map Id	Tank Type	Status	Name	Feature Currency	Distance	Direction
N/A	No records in buffer					

Tanks (Points)

What are the Tank Points located within the dataset buffer?

Note. The large majority of tank features provided by LPI are derived from aerial imagery & are therefore primarily above ground tanks.

Map Id	Tank Type	Status	Name	Feature Currency	Distance	Direction
N/A	No records in buffer					

Tanks Data Source: © Land and Property Information (2015)

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Major Easements

What Major Easements exist within the dataset buffer?

Note. Easements provided by LPI are not at the detail of local governments. They are limited to major easements such as Right of Carriageway, Electrical Lines (66kVa etc.), Easement to drain water & Significant subterranean pipelines (gas, water etc.).

Map Id	Easement Class	Easement Type	Easement Width	Distance	Direction
120107679	Primary	Undefined		300m	North
120111566	Primary	Undefined		454m	North East
120119339	Primary	Undefined		459m	North
120117934	Primary	Undefined		491m	West
120106866	Primary	Undefined		883m	North East
120107667	Primary	Undefined		888m	East

Easements Data Source: © Land and Property Information (2015)

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Topographic Features

1838 Barkers Lodge Road, 1455-1457 Burragorang Road, Oakdale NSW 2570

State Forest

What State Forest exist within the dataset buffer?

State Forest Number	State Forest Name	Distance	Direction
N/A	No records in buffer		

State Forest Data Source: © NSW Department of Finance, Services & Innovation (2018)

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National Parks and Wildlife Service Reserves

What NPWS Reserves exist within the dataset buffer?

Reserve Number	Reserve Type	Reserve Name	Gazetted Date	Distance	Direction
N0624	STATE CONSERVATION AREA	Burragorang State Conservation Area	13/12/1991	696m	South West

NPWS Data Source: © NSW Department of Finance, Services & Innovation (2018)

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Elevation Contours (m AHD)

1838 Barkers Lodge Road, 1455-1457 Burragorang Road, Oakdale NSW 2570



Hydrogeology & Groundwater

1838 Barkers Lodge Road, 1455-1457 Burragorang Road, Oakdale NSW 2570

Hydrogeology

Description of aquifers within the dataset buffer:

Description	Distance	Direction
Porous, extensive highly productive aquifers	0m	On-site

Hydrogeology Map of Australia : Commonwealth of Australia (Geoscience Australia)

Creative Commons 3.0 © Commonwealth of Australia <http://creativecommons.org/licenses/by/3.0/au/deed.en>

Temporary Water Restriction (Botany Sands Groundwater Source) Order 2018

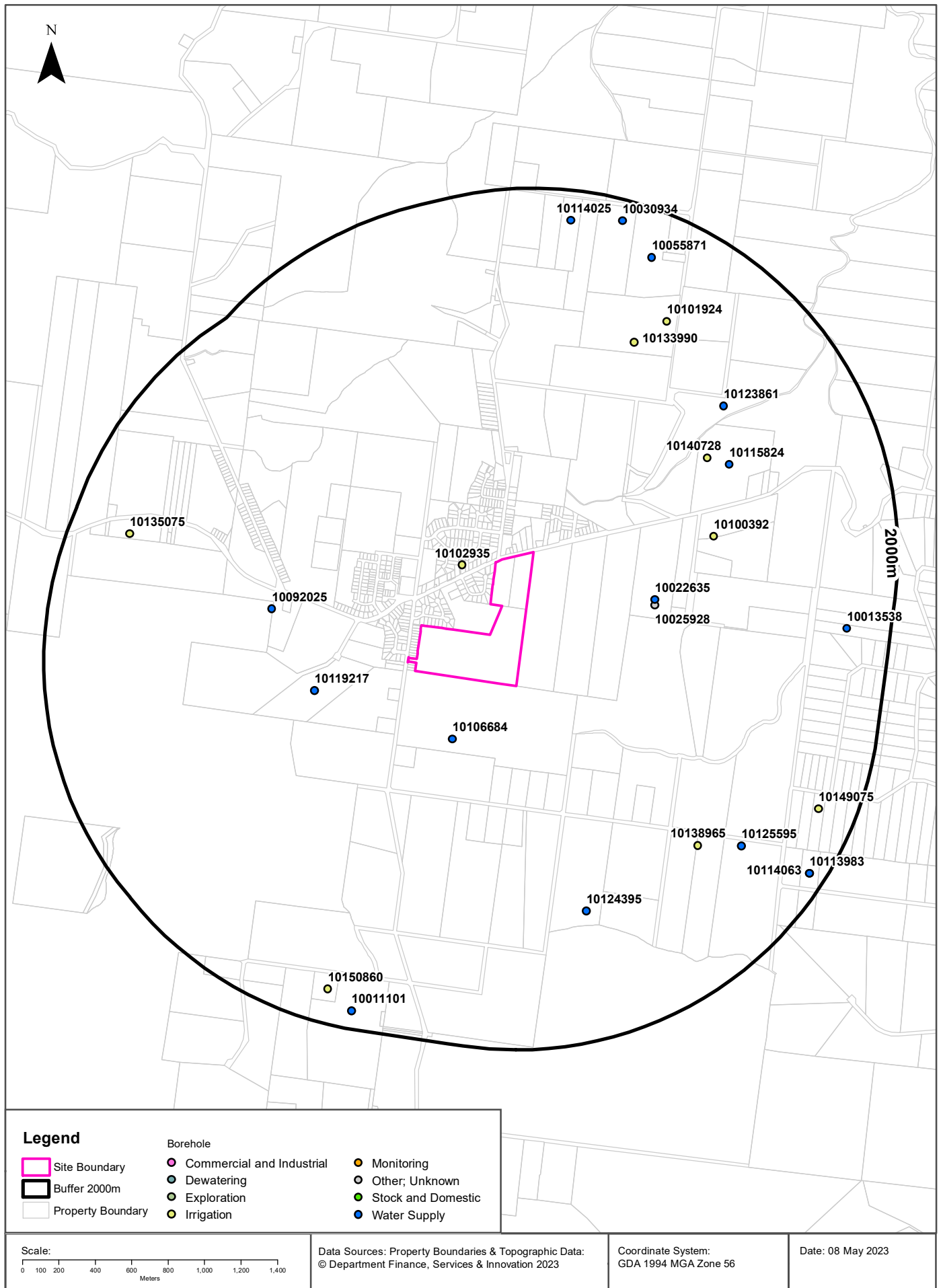
Temporary water restrictions relating to the Botany Sands aquifer within the dataset buffer:

Prohibition Area No.	Prohibition	Distance	Direction
N/A	No records in buffer		

Temporary Water Restriction (Botany Sands Groundwater Source) Order 2018 Data Source : NSW Department of Primary Industries

Groundwater Boreholes

1838 Barkers Lodge Road, 1455-1457 Burragorang Road, Oakdale NSW 2570



Hydrogeology & Groundwater

1838 Barkers Lodge Road, 1455-1457 Burraborang Road, Oakdale NSW 2570

Groundwater Boreholes

Boreholes within the dataset buffer:

NGIS Bore ID	NSW Bore ID	Bore Type	Status	Drill Date	Bore Depth (m)	Reference Elevation	Height Datum	Salinity (mg/L)	Yield (L/s)	SWL (mbgl)	Distance	Direction
10102935	GW028935	Irrigation	Unknown	01/05/1968	126.40		AHD				179m	North
10106684	GW025594	Water Supply	Unknown	01/01/1942	54.80		AHD				341m	South
10119217	GW108786	Water Supply	Functioning	16/12/2007	114.00		AHD	95	3.000	40.00	536m	West
10022635	GW058431	Water Supply	Unknown	01/11/1983	91.40		AHD	Good			693m	East
10025928	GW101175	Unknown	Unknown	31/12/1976	137.20		AHD			18.30	698m	East
10092025	GW033872	Water Supply	Unknown	01/04/1971	137.70		AHD				795m	West
10100392	GW037745	Irrigation	Unknown	01/02/1974	128.00		AHD				994m	North East
10140728	GW023483	Irrigation	Unknown	01/11/1965	88.30		AHD				1084m	North East
10115824	GW102927	Water Supply	Unknown	01/01/1980	100.00		AHD		1.250	30.48	1177m	North East
10133990	GW065084	Irrigation	Unknown	24/02/1990	96.00		AHD				1279m	North East
10124395	GW106334	Water Supply	Unknown	20/12/2002	180.00		AHD		3.000	56.00	1295m	South
10123861	GW111298	Water Supply	Functioning	27/01/2011	102.00		AHD	fresh	1.920	44.00	1316m	North East
10138965	GW060375	Irrigation	Functioning	01/04/1986	118.90		AHD	0-500 ppm	0.880		1329m	South East
10101924	GW103037	Irrigation	Unknown	01/01/1995	200.00		AHD			38.00	1461m	North East
10125595	GW108276	Water Supply	Functioning	12/10/2006	144.00		AHD		2.700	66.00	1518m	South East
10135075	GW026934	Irrigation	Non-functional	01/01/1966	160.90		AHD				1673m	West
10055871	GW100817	Water Supply	Functioning	09/12/1994	104.00		AHD	Good	1.300	42.50	1743m	North East
10013538	GW038551	Water Supply	Unknown	01/04/1974	120.30		AHD				1761m	East
10149075	GW034615	Irrigation	Unknown	01/05/1972	123.40		AHD				1793m	South East
10150860	GW047933	Irrigation	Unknown	01/03/1981	130.00		AHD	Fresh			1813m	South West
10114025	GW047710	Water Supply	Unknown	01/09/1980	134.00		AHD	Fresh			1834m	North
10030934	GW103614	Water Supply	Unknown	13/01/2001	110.00		AHD	130			1883m	North
10011101	GW017627	Water Supply	Unknown	01/01/1938	82.90		AHD				1901m	South
10113983	GW115799	Water Supply	Functioning	09/08/2013	112.00		AHD			41.00	1912m	South East
10114063	GW115799	Water Supply	Functioning	09/08/2013	112.00		AHD			41.00	1912m	South East

Borehole Data Source: Bureau of Meteorology; Water NSW. Creative Commons 3.0 © Commonwealth of Australia <http://creativecommons.org/licenses/by/3.0/au/deed.en>

Hydrogeology & Groundwater

1838 Barkers Lodge Road, 1455-1457 Burragorang Road, Oakdale NSW 2570

Driller's Logs

Drill log data relevant to the boreholes within the dataset buffer:

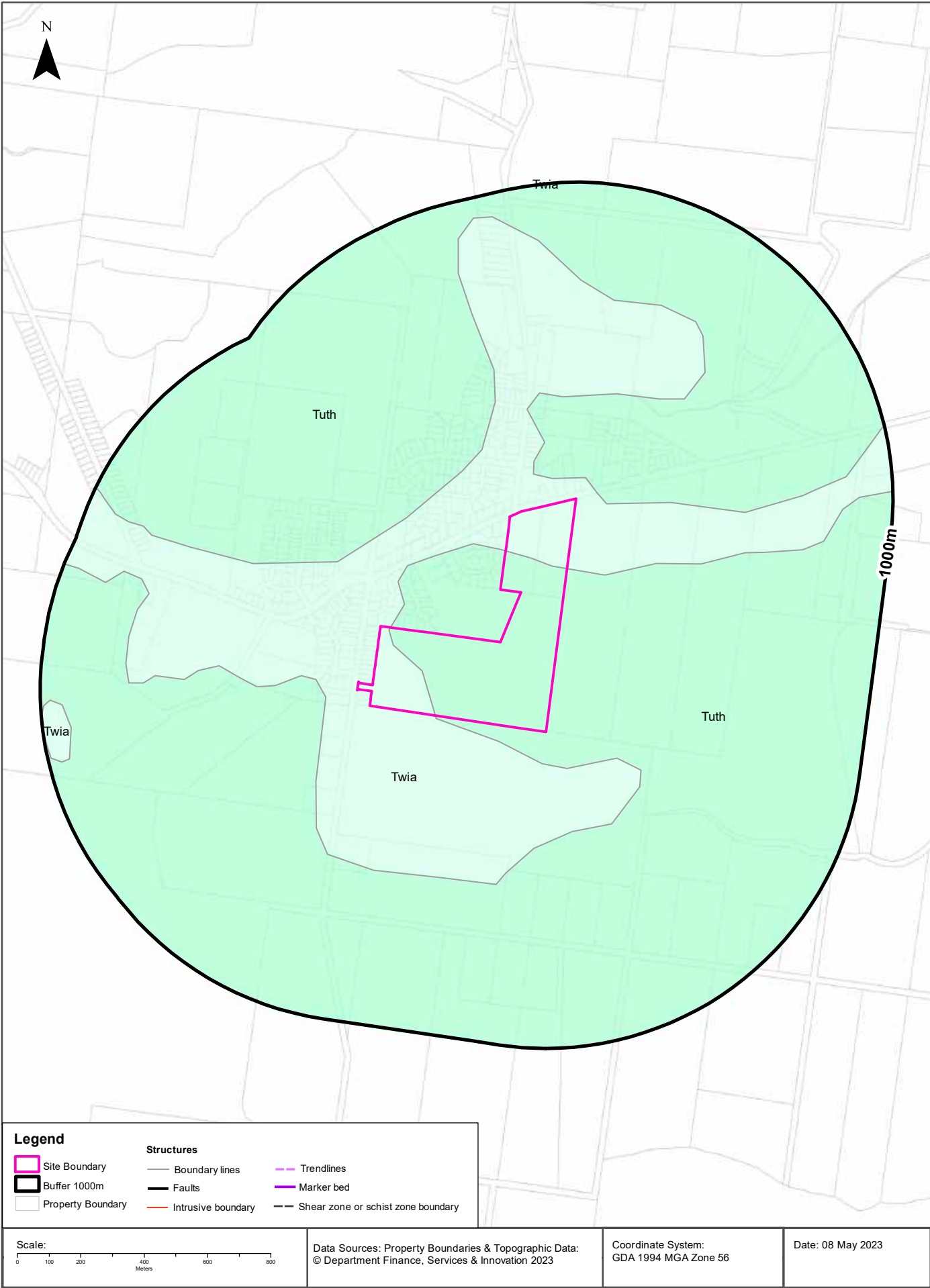
NGIS Bore ID	Drillers Log	Distance	Direction
10102935	0.00m-1.52m Topsoil Dark 1.52m-18.28m Sandstone 18.28m-18.59m Sandstone Dark Brown Hard 18.59m-31.24m Sandstone 31.24m-32.00m Sandstone Dark Brown Hard 32.00m-36.88m Sandstone 36.88m-37.18m Sandstone Dark Brown Hard 37.18m-44.19m Sandstone Water Supply 44.19m-45.72m Sandstone White 45.72m-56.38m Sandstone White Hard 56.38m-57.91m Sandstone Light Brown 57.91m-64.00m Sandstone Dark Brown 64.00m-65.53m Sandstone Light Brown 65.53m-67.36m Sandstone Dark Brown 67.36m-69.49m Sandstone Light Brown 69.49m-69.79m Clay 69.79m-73.76m Sandstone Light Brown 73.76m-82.29m Sandstone White 82.29m-82.90m Clay White 82.90m-84.12m Clay Sandstone 84.12m-89.00m Sandstone White 89.00m-89.30m Clay White 89.30m-106.07m Sandstone White 106.07m-106.68m Sandstone White 106.68m-120.09m Sandstone White 120.09m-120.70m Clay White 120.70m-124.05m Sandstone White 124.05m-126.49m Sandstone White Coarse Water Supply	179m	North
10119217	0.00m-52.00m sandstone, 52.00m-54.00m shale 54.00m-114.00m sandstone,	536m	West
10022635	0.00m-0.30m Topsoil 0.30m-91.40m Sandstone Water Supply	693m	East
10092025	0.00m-0.61m Topsoil 0.61m-5.49m Shale 5.49m-36.58m Sandstone Grey 36.58m-65.53m Sandstone Yellow Water Supply 65.53m-68.58m Sandstone Grey 68.58m-71.32m Driller 71.32m-109.73m Sandstone Yellow 109.73m-115.82m Sandstone White Water Supply 115.82m-131.06m Sandstone Light Grey 131.06m-137.16m Sandstone White Water Supply 137.16m-137.77m Shale Grey	795m	West
10100392	0.00m-0.60m Topsoil Dark 0.60m-1.52m Clay Shale 1.52m-5.18m Sandstone White 5.18m-32.30m Sandstone Yellow Hard Water Supply 32.30m-36.57m Sandstone Grey Hard 36.57m-42.36m Sandstone Yellow Hard 42.36m-74.67m Sandstone Grey Hard 74.67m-76.50m Sandstone Grey Open Coarse Water Supply 76.50m-117.04m Sandstone Grey Silty 117.04m-126.18m Sandstone Grey Open Water Supply 126.18m-128.01m Sandstone Grey Hard	994m	North East

NGIS Bore ID	Drillers Log	Distance	Direction
10140728	0.00m-0.45m Soil 0.45m-1.82m Sandstone White 1.82m-2.74m Sandstone Cream 2.74m-3.04m Sandstone 3.04m-4.87m Sandstone Orange 4.87m-5.48m Sandstone White 5.48m-7.01m Sandstone Light Brown 7.01m-7.62m Sandstone White 7.62m-9.44m Sandstone Dark Brown 9.44m-11.27m Sandstone White 11.27m-11.88m Sandstone Orange 11.88m-12.80m Sandstone White 12.80m-13.10m Sandstone Orange 13.10m-13.41m Sandstone White 13.41m-15.54m Sandstone Orange 15.54m-15.84m Sandstone White 15.84m-16.45m Sandstone Cream 16.45m-16.91m Sandstone White 16.91m-17.06m Sandstone 17.06m-17.37m Shale Grey 17.37m-17.52m Shale Grey Sandy 17.52m-18.13m Sandstone Grey 18.13m-18.59m Sandstone Orange 18.59m-20.42m Sandstone Cream 20.42m-20.72m Sandstone Orange 20.72m-21.03m Sandstone Cream Grey 21.03m-21.18m Shale Grey 21.18m-24.07m Sandstone Grey 24.07m-25.60m Sandstone 25.60m-29.26m Sandstone Grey 29.26m-42.06m Sandstone 42.06m-45.72m Sandstone Cream 45.72m-60.50m Sandstone Grey White 60.50m-60.96m Sandstone Cream 60.96m-74.98m Sandstone Grey White Water Supply 74.98m-75.28m Sandstone Shaley Coarse Water Supply 75.28m-75.59m Sandstone Cream Water Supply 75.59m-75.89m Shale Grey Slatey Water Supply 75.89m-83.21m Sandstone Cream Fine Water Supply 83.21m-83.51m Fissure Water Supply 83.51m-88.39m Sandstone Cream Fine	1084m	North East
10124395	0.00m-1.00m SOIL 1.00m-10.00m SHALE 10.00m-30.00m SANDSTONE 30.00m-36.00m SHALE 36.00m-102.00m SANDSTONE 102.00m-108.00m SHALE 108.00m-132.00m SANDSTONE 132.00m-138.00m SHALE 138.00m-169.00m SANDSTONE 169.00m-172.00m SHALE 172.00m-180.00m SHALE	1295m	South
10123861	0.00m-0.20m ROAD BASE 0.20m-0.50m SANDSTONE FLOATER 0.50m-1.00m CLAY ORANGE 1.00m-2.70m CLAY SANDY 2.70m-35.00m SANDSTONES COLOURED 35.00m-50.00m SANDSTONE WHITE 50.00m-54.00m SANDSTONE CREAM 54.00m-102.00m SANDSTONE WHITE	1316m	North East
10138965	0.00m-0.30m Topsoil 0.30m-2.74m Clay 2.74m-7.32m Sandstone Hard 7.32m-21.34m Sandstone 21.34m-27.43m Sandstone Hard Water Supply 27.43m-51.21m Sandstone 51.21m-53.64m Shale 53.64m-82.60m Water Supply 82.60m-83.82m Shale 83.82m-106.68m Sandstone Water Supply 106.68m-108.51m Shale 108.51m-113.69m Sandstone 113.69m-114.30m Shale 114.30m-118.87m Sandstone Water Supply	1329m	South East

NGIS Bore ID	Drillers Log	Distance	Direction
10125595	0.00m-6.00m shale, clay 6.00m-30.00m sandstone, white 30.00m-46.00m sandstone, yellow 46.00m-52.00m sandstone, shale 52.00m-56.00m sandstone, yellow 56.00m-62.00m sandstone, shale 62.00m-94.00m sandstone, yellow 94.00m-99.00m sandstone, shale 99.00m-101.00m sandstone, yellow 101.00m-114.00m sandstone, shale 114.00m-121.00m sandstone, quartz 121.00m-125.00m sandstone, yellow 125.00m-141.00m sandstone, quartz 141.00m-144.00m sandstone, shale	1518m	South East
10135075	0.00m-0.91m Soil 0.91m-6.09m Sandstone White 6.09m-8.53m Sandstone Light Brown 8.53m-9.14m Sandstone White 9.14m-12.19m Sandstone Light Brown 12.19m-12.80m Sandstone Dark Brown 12.80m-15.24m Sandstone White 15.24m-19.81m Sandstone 19.81m-24.38m Sandstone White 24.38m-28.34m Sandstone Light Brown 28.34m-31.08m Sandstone 31.08m-32.91m Sandstone Cream 32.91m-35.35m Sandstone 35.35m-35.66m Sandstone Cream 35.66m-46.63m Sandstone 46.63m-49.98m Sandstone Grey Cream 49.98m-53.64m Sandstone 53.64m-53.94m Sandstone Soft 53.94m-56.38m Sandstone 56.38m-56.69m Sandstone Soft 56.69m-67.36m Sandstone 67.36m-70.10m Sandstone Soft 70.10m-74.37m Sandstone 74.37m-74.67m Sandstone Very Hard 74.67m-77.72m Sandstone Cream 77.72m-79.85m Sandstone Light Brown 79.85m-80.77m Sandstone Cream 80.77m-81.38m Sandstone Light Brown 81.38m-94.48m Sandstone Cream 94.48m-95.09m Sandstone Yellow 95.09m-98.45m Sandstone Light Brown 98.45m-99.97m Shale Light Grey 99.97m-102.71m Sandstone White 102.71m-103.63m Sandstone Cream 103.63m-104.85m Sandstone 104.85m-132.89m Sandstone Cream 132.89m-134.41m Sandstone Cream Coarse Water Supply 134.41m-136.24m Sandstone Cream Fine 136.24m-145.69m Sandstone Fine 145.69m-147.82m Sandstone Coarse Water Supply 147.82m-156.05m Sandstone Fine 156.05m-157.27m Sandstone Coarse Water Supply 157.27m-160.93m Shale	1673m	West
10055871	0.00m-0.30m TOPSOIL 0.30m-3.50m CLAY (REDISH) 3.50m-6.30m CLAY (GREY) 6.30m-82.50m SANDSTONE (WHITE) 82.50m-85.30m SHALE (BLACK) 85.30m-104.00m SANDSTONE	1743m	North East
10013538	0.00m-0.60m Soil Black Sandy 0.60m-1.52m Shale Clay 1.52m-9.75m Sandstone Yellow Water Supply 9.75m-13.10m Sandstone White 13.10m-18.89m Sandstone Yellow 18.89m-22.55m Sandstone White 22.55m-35.05m Sandstone Yellow 35.05m-66.75m Sandstone White 66.75m-68.27m Sandstone Grey Water Supply 68.27m-69.49m Shale 69.49m-70.10m Sandstone Yellow 70.10m-89.91m Sandstone Grey 89.91m-94.18m Sandstone Grey 89.91m-94.18m Shale Bands 94.18m-112.77m Sandstone White 112.77m-120.39m Sandstone White 112.77m-120.39m Shale Bands	1761m	East

NGIS Bore ID	Drillers Log	Distance	Direction
10149075	0.00m-0.91m Topsoil 0.91m-4.27m Clay Shale 4.27m-19.51m Sandstone Yellow 19.51m-28.65m Sandstone White Water Supply 28.65m-29.57m Shale 29.57m-40.84m Sandstone White 40.84m-44.20m Sandstone Yellow 44.20m-53.64m Sandstone White 53.64m-54.56m Shale 54.56m-77.11m Sandstone White Water Supply 77.11m-81.69m Shale Sandstone 81.69m-92.05m Sandstone White 92.05m-96.32m Sandstone Yellow 96.32m-107.90m Sandstone White 107.90m-114.60m Sandstone Yellow 114.60m-116.13m Sandstone White 116.13m-119.48m Sandstone White Coarse Water Supply 119.48m-123.44m Sandstone White	1793m	South East
10150860	0.00m-0.80m Topsoil Dark 0.80m-5.30m Shale Clay 5.30m-13.50m Sandstone White 13.50m-20.30m Sandstone Yellow 20.30m-25.80m Sandstone Grey 25.80m-43.40m Sandstone Yellow 43.40m-43.70m Shale 43.70m-52.10m Sandstone Yellow 52.10m-52.30m Shale 52.30m-80.20m Sandstone Yellow 80.20m-80.50m Sandstone Yellow Coarse Water Supply 80.50m-116.70m Sandstone Yellow 116.70m-117.50m Ironstone 117.50m-121.00m Sandstone Yellow 121.00m-122.50m Sandstone Yellow Coarse Water Supply 122.50m-123.80m Sandstone Yellow 123.80m-124.90m Shale 124.90m-130.00m Sandstone Yellow	1813m	South West
10114025	0.00m-0.90m Topsoil Coarse Sandy 0.90m-4.30m Shale Clay 4.30m-11.80m Sandstone White 11.80m-43.10m Sandstone Yellow 43.10m-44.80m Sandstone Orange 44.80m-51.60m Shale Grey Clay 51.60m-56.70m Sandstone Grey 56.70m-60.20m Sandstone Yellow 60.20m-80.30m Sandstone Grey 80.30m-80.50m Sandstone Grey Coarse Water Supply 80.50m-80.90m Shale 80.90m-85.40m Sandstone Grey 85.40m-91.10m Shale 91.10m-124.20m Sandstone Grey 124.20m-124.60m Sandstone Grey Coarse Water Supply 124.60m-131.00m Sandstone Grey 131.00m-132.50m Sandstone Grey Coarse Water Supply 132.50m-134.00m Sandstone Grey Water Supply	1834m	North
10030934	0.00m-1.00m TOPSOIL 1.00m-36.00m SANDSTONE FINE 36.00m-48.00m SANDSTONE ORANGE FINE 48.00m-66.00m SANDSTONE WHITE 66.00m-84.00m SANDSTONE WHITE COARSE 84.00m-90.00m SHALE BAND 90.00m-110.00m SANDSTONE WHITE COARSE	1883m	North

Drill Log Data Source: Bureau of Meteorology; Water NSW. Creative Commons 3.0 © Commonwealth of Australia <http://creativecommons.org/licenses/by/3.0/au/deed.en>



Geology

1838 Barkers Lodge Road, 1455-1457 Burraborang Road, Oakdale NSW 2570

Geological Units

What are the Geological Units within the dataset buffer?

Unit Code	Unit Name	Description	Unit Stratigraphy	Age	Dominant Lithology	Distance
Tuth	Hawkesbury Sandstone	Medium- to coarse-grained quartz sandstone with minor shale and laminite lenses.	/Ungrouped Triassic units//Hawkesbury Sandstone//	Anisian (base) to Anisian (top)	Sandstone	0m
Twia	Ashfield Shale	Black to light grey shale and laminite.	/Wianamatta Group//Ashfield Shale//	Middle Triassic (base) to Middle Triassic (top)	Shale	0m

Linear Geological Structures

What are the Dyke, Sill, Fracture, Lineament and Vein trendlines within the dataset buffer?

Map ID	Feature Description	Map Sheet Name	Distance
No Features			

What are the Faults, Shear zones or Schist zones, Intrusive boundaries & Marker beds within the dataset buffer?

Map ID	Boundary Type	Description	Map Sheet Name	Distance
No Features				

Geological Data Source: Statewide Seamless Geology v2.1, Department of Regional NSW

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Naturally Occurring Asbestos Potential

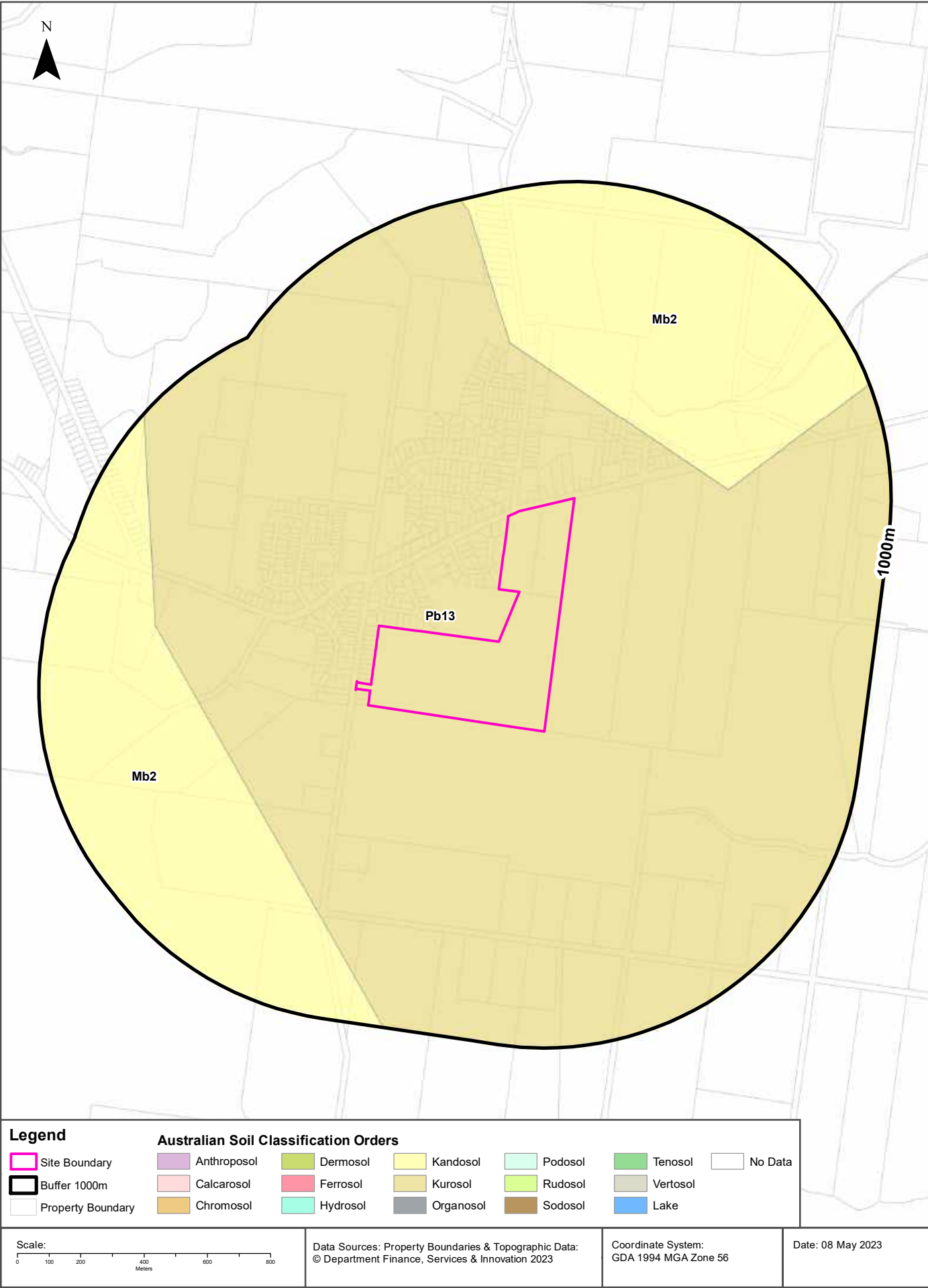
1838 Barkers Lodge Road, 1455-1457 Burragorang Road, Oakdale NSW 2570

Naturally Occurring Asbestos Potential

Naturally Occurring Asbestos Potential within the dataset buffer:

Potential	Sym	Strat Name	Group	Formation	Scale	Min Age	Max Age	Rock Type	Dom Lith	Description	Dist	Dir
No records in buffer												

Naturally Occurring Asbestos Potential Data Source: © State of New South Wales through NSW Department of Industry, Resources & Energy



Soils

1838 Barkers Lodge Road, 1455-1457 Burratorang Road, Oakdale NSW 2570

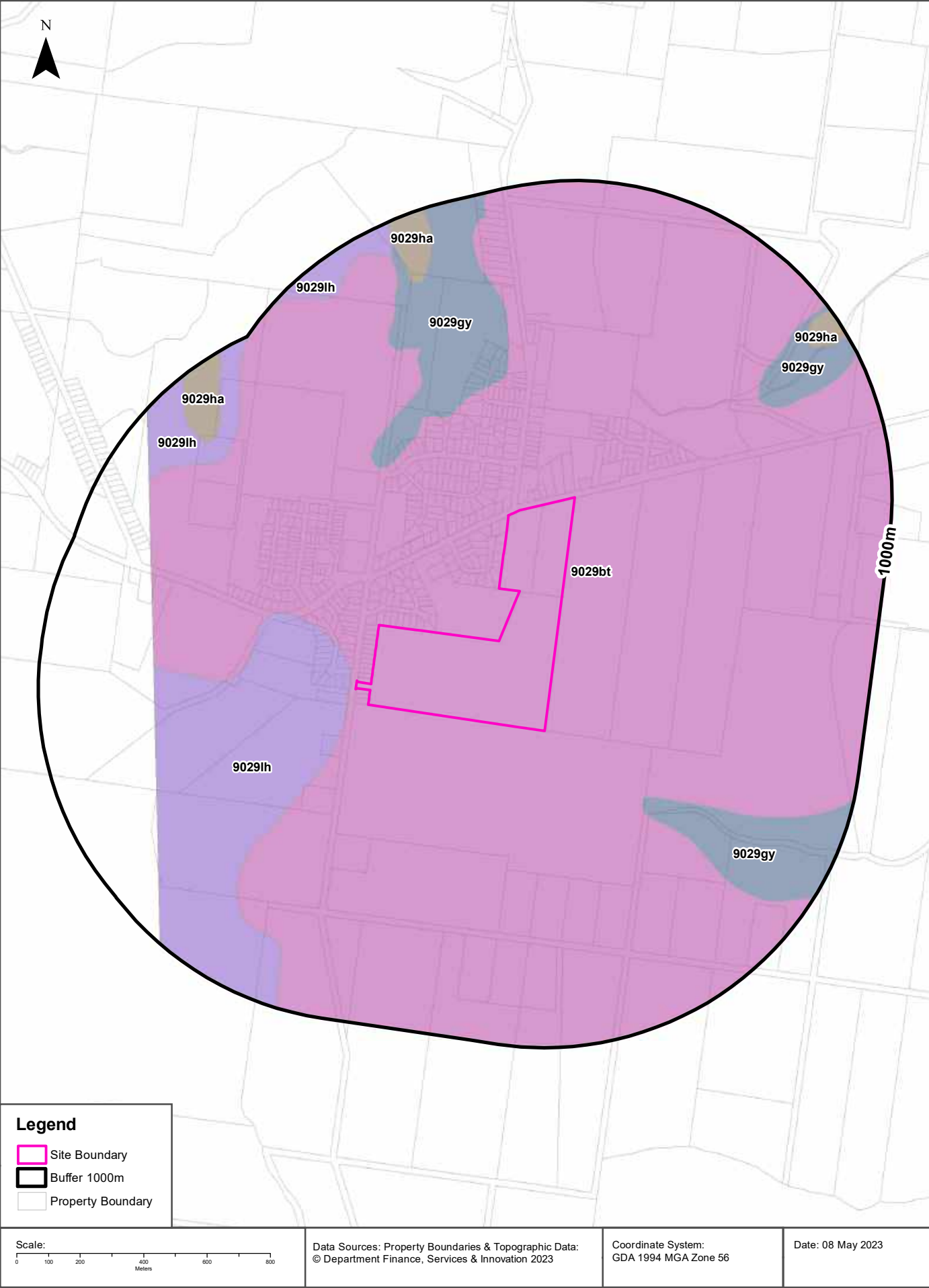
Atlas of Australian Soils

Soil mapping units and Australian Soil Classification orders within the dataset buffer:

Map Unit Code	Soil Order	Map Unit Description	Distance	Direction
Pb13	Kurosol	Ridge and valley country of gently undulating ridge tops and steep side slopes often with slumping, also rounded hilly to steep hilly areas and relatively narrow valleys: chief soils are hard acidic red soils (Dr2.21) with hard acidic yellow mottled soils (Dy3.41); in places some ironstone gravels occur in both these soils. Associated are hard neutral and alkaline red soils (Dr2.22 and Dr2.23) in saddles and some mid-slope positions; (Dy3.42 and Dy3.43) soils, usually in depressions; and small areas of undescribed soils in wet soaks and valley areas. Small areas of other soils are likely throughout.	0m	On-site
Mb2	Kandosol	Dissected sandstone plateau of moderate to strong relief with sandstone pillars, ledges, and slabs-- level to undulating ridges, irregularly benched slopes, steep ridges, cliffs, canyons, narrow sandy valleys: chief soils are (i) on areas of gentle to moderate relief, acid yellow leached earths (Gn2.74) and (Gn2.34) and acid leached yellow earths (Gn2.24)- sometimes these soils contain ironstone gravel; and (ii) on, or adjacent to, areas of strong relief, siliceous sands (Uc1.2), leached sands (Uc2.12) and (Uc2.2), and shallow forms of the above (Gn2) soils. Associated are: (i) on flat to gently undulating remnants of the original plateau surface, leached sands (Uc2.3), siliceous sands (Uc1.2), sandy earths (Uc5.22), and (Gn2) soils as for (i) above (these areas are in part comparable with unit Cb29); (ii) on flat ironstone gravelly remnants of the original plateau surface, (Gn2) soils as for unit Mb5(i); (iii) on gently undulating ridges where interbedded shales are exposed, shallow, often stony (Dy3.41), (Dr2.21), and related soils similar to unit Tb35; (iv) narrow valleys of (Uc2.3) soils flanked by moderate slopes of (Dy3.41) soils; (v) escarpments of steep hills with shallow (Dy) and (Dr) soils between sandstone pillars; and (vi) shallow (Um) soils, such as (Um6.21) on steep hills of basic rocks. As mapped, minor areas of units Mg20, Mm1, and Mw8 are included. Data are limited.	292m	North

Atlas of Australian Soils Data Source: CSIRO

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Soils

1838 Barkers Lodge Road, 1455-1457 Burragorang Road, Oakdale NSW 2570

Soil Landscapes of Central and Eastern NSW

Soil Landscapes of Central and Eastern NSW within the dataset buffer:

Soil Code	Name	Distance	Direction
9029bt	Blacktown	0m	On-site
9029lh	Lucas Heights	23m	South West
9029gy	Gymea	365m	North
9029ha	Hawkesbury	784m	North

Soil Landscapes of Central and Eastern NSW: NSW Department of Planning, Industry and Environment

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Acid Sulfate Soils

1838 Barkers Lodge Road, 1455-1457 Burragorang Road, Oakdale NSW 2570

Environmental Planning Instrument - Acid Sulfate Soils

What is the on-site Acid Sulfate Soil Plan Class that presents the largest environmental risk?

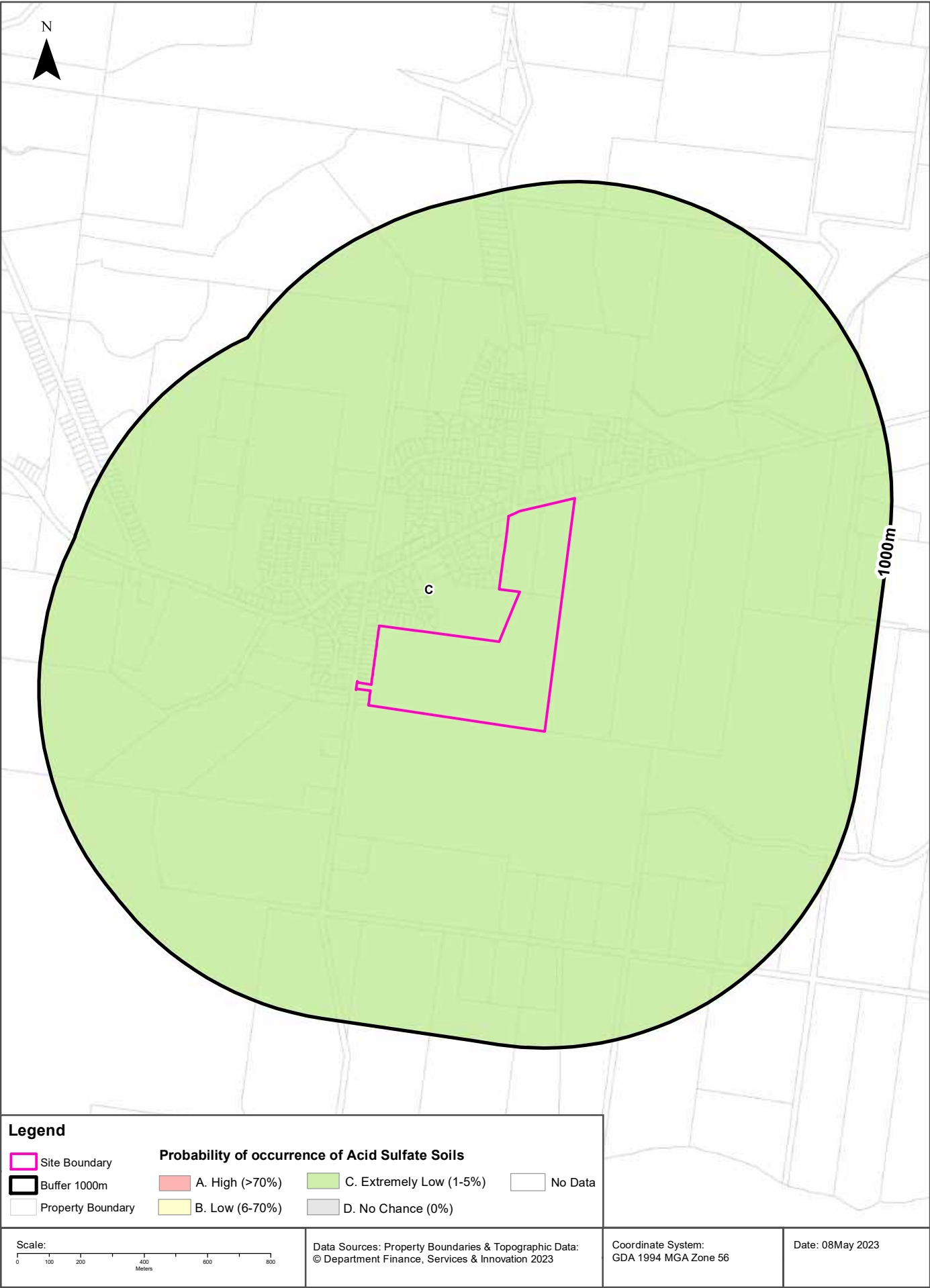
Soil Class	Description	EPI Name
N/A		

If the on-site Soil Class is 5, what other soil classes exist within 500m?

Soil Class	Description	EPI Name	Distance	Direction
N/A				

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Acid Sulfate Soils

1838 Barkers Lodge Road, 1455-1457 Burragorang Road, Oakdale NSW 2570

Atlas of Australian Acid Sulfate Soils

Atlas of Australian Acid Sulfate Soil categories within the dataset buffer:

Class	Description	Distance	Direction
C	Extremely low probability of occurrence. 1-5% chance of occurrence with occurrences in small localised areas.	0m	On-site

Atlas of Australian Acid Sulfate Soils Data Source: CSIRO

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Dryland Salinity

1838 Barkers Lodge Road, 1455-1457 Burragorang Road, Oakdale NSW 2570



Dryland Salinity

1838 Barkers Lodge Road, 1455-1457 Burragorang Road, Oakdale NSW 2570

Dryland Salinity - National Assessment

Is there Dryland Salinity - National Assessment data onsite?

No

Is there Dryland Salinity - National Assessment data within the dataset buffer?

No

What Dryland Salinity assessments are given?

Assessment 2000	Assessment 2020	Assessment 2050	Distance	Direction
N/A	N/A	N/A		

Dryland Salinity Data Source : National Land and Water Resources Audit

The Commonwealth and all suppliers of source data used to derive the maps of "Australia, Forecast Areas Containing Land of High Hazard or Risk of Dryland Salinity from 2000 to 2050" do not warrant the accuracy or completeness of information in this product. Any person using or relying upon such information does so on the basis that the Commonwealth and data suppliers shall bear no responsibility or liability whatsoever for any errors, faults, defects or omissions in the information. Any persons using this information do so at their own risk.

In many cases where a high risk is indicated, less than 100% of the area will have a high hazard or risk.

Dryland Salinity Potential of Western Sydney

Dryland Salinity Potential of Western Sydney within the dataset buffer?

Feature Id	Classification	Description	Distance	Direction
595	MODERATE	Area of Moderate Salinity Potential	0m	On-site
370	LOW	Area of Very Low Salinity Potential	0m	On-site
45	MODERATE	Area of Moderate Salinity Potential	0m	On-site
592	MODERATE	Area of Moderate Salinity Potential	364m	South
44	MODERATE	Area of Moderate Salinity Potential	483m	North East
40	MODERATE	Area of Moderate Salinity Potential	529m	East
46	MODERATE	Area of Moderate Salinity Potential	626m	North

Dryland Salinity Potential of Western Sydney Data Source : NSW Office of Environment and Heritage

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Mining

1838 Barkers Lodge Road, 1455-1457 Burragorang Road, Oakdale NSW 2570

Mining Subsidence Districts

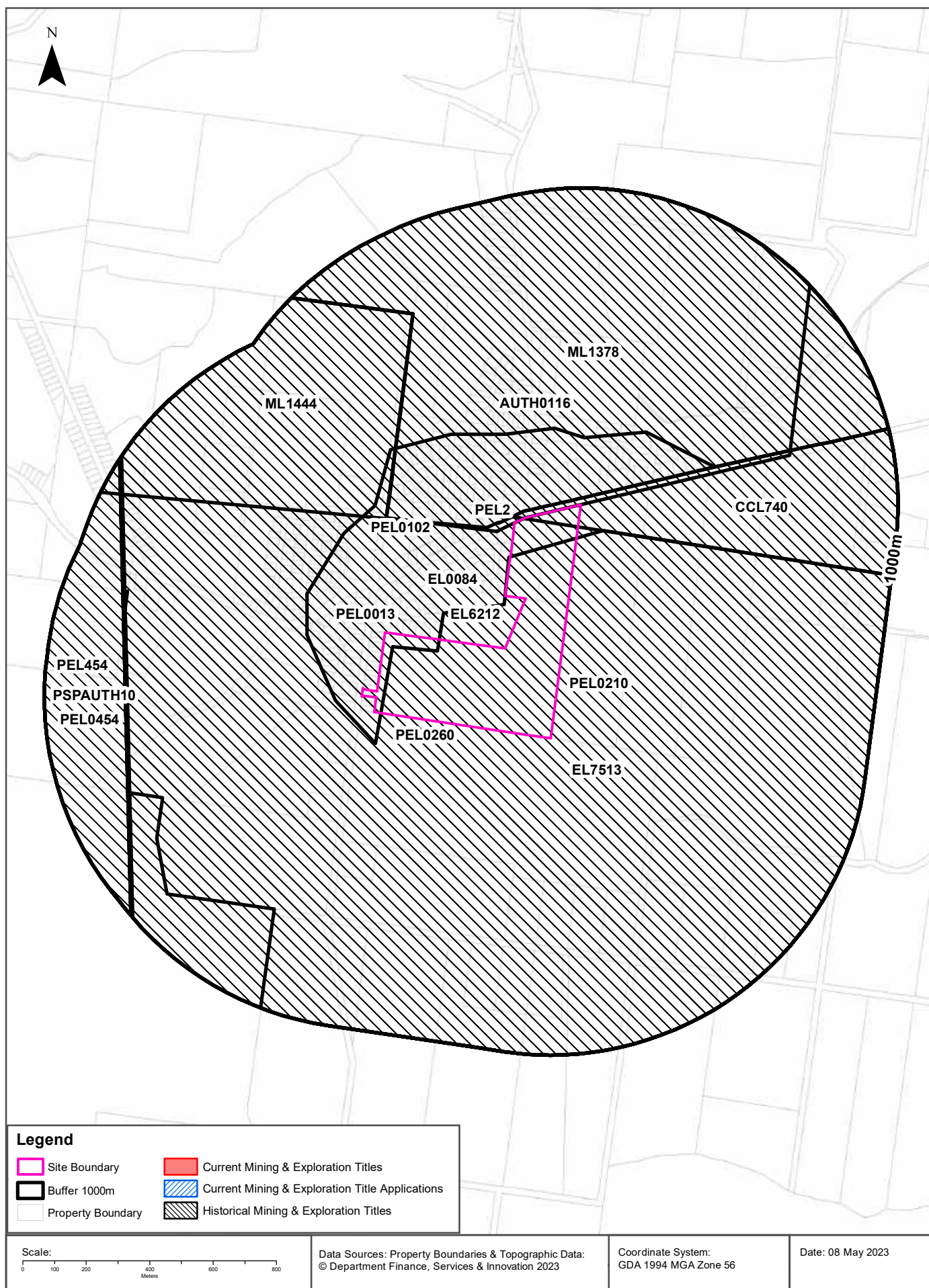
Mining Subsidence Districts within the dataset buffer:

District	Distance	Direction
There are no Mining Subsidence Districts within the report buffer		

Mining Subsidence District Data Source: © Land and Property Information (2016)
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Mining & Exploration Titles

1838 Barkers Lodge Road, 1455-1457 Burragorang Road, Oakdale NSW 2570



Mining

1838 Barkers Lodge Road, 1455-1457 Burragorang Road, Oakdale NSW 2570

Current Mining & Exploration Titles

Current Mining & Exploration Titles within the dataset buffer:

Title Ref	Holder	Grant Date	Expiry Date	Last Renewed	Operation	Resource	Minerals	Dist	Dir
N/A	No records in buffer								

Current Mining & Exploration Titles Data Source: © State of New South Wales through NSW Department of Industry

Current Mining & Exploration Title Applications

Current Mining & Exploration Title Applications within the dataset buffer:

Application Ref	Applicant	Application Date	Operation	Resource	Minerals	Dist	Dir
N/A	No records in buffer						

Current Mining & Exploration Title Applications Data Source: © State of New South Wales through NSW Department of Industry

Mining

1838 Barkers Lodge Road, 1455-1457 Burragorang Road, Oakdale NSW 2570

Historical Mining & Exploration Titles

Historical Mining & Exploration Titles within the dataset buffer:

Title Ref	Holder	Start Date	End Date	Resource	Minerals	Dist	Dir
EL0084	CONTINENTAL OIL CO OF AUSTRALIA LIMITED	19670201	19680201	MINERALS		0m	On-site
CCL740	BURRAGORANG VALLEY COAL PTY LIMITED	19951031	20111114	MINERALS		0m	On-site
PEL0102	AUSTRALIAN OIL AND GAS CORPORATION LTD			PETROLEUM	Petroleum	0m	On-site
PEL2	AGL UPSTREAM INVESTMENTS PTY LIMITED	20000120	20001108	MINERALS		0m	On-site
EL6212	HOT ROCK ENERGY PTY LTD, LONGREACH OIL LIMITED	20040304	20130303	MINERALS	Geothermal	0m	On-site
PEL0210	THE AUSTRALIAN GAS LIGHT COMPANY (AGL), NORTH BULLI COLLIERIES PTY LTD			PETROLEUM	Petroleum	0m	On-site
PEL0013	AUSTRALIAN OIL AND GAS CORPORATION LTD			PETROLEUM	Petroleum	0m	On-site
PEL0260	NORTH BULLI COLLIERIES PTY LTD, AGL PETROLEUM OPERATIONS PTY LTD, THE AUSTRALIAN GAS LIGHT CO.	19810909	19930803	PETROLEUM	Petroleum	0m	On-site
EL7513	GRADIENT ENERGY LIMITED	20100407	20110415	MINERALS	Geothermal	0m	On-site
AUTH0116	CLINTONS NATTAI COLLIERIES PTY LTD	19780618	19820619	COAL	Coal	0m	North
ML1378	OAKDALE COLLIERIES PTY LIMITED	19951031	30000101	MINERALS		20m	North
ML1444	OAKDALE COLLIERIES PTY LIMITED	19990301	30000101	MINERALS		359m	North West
PEL0454	APEX ENERGY NL	20090403	20160403	PETROLEUM	Petroleum	744m	West
PSPA0110	APEX ENERGY NL, AUSTRALIAN COALBED METHANE PTY LIMITED, SUN RESOURCES (NSW) PTY LTD	20050412	20060312	PETROLEUM	Petroleum	744m	West
PEL454	APEX ENERGY NL, SYDNEY BASIN CBM PTY LTD	20070328	20101123	MINERALS		744m	West

Historical Mining & Exploration Titles Data Source: © State of New South Wales through NSW Department of Industry

State Environmental Planning Policy

1838 Barkers Lodge Road, 1455-1457 Burragorang Road, Oakdale NSW 2570

State Significant Precincts

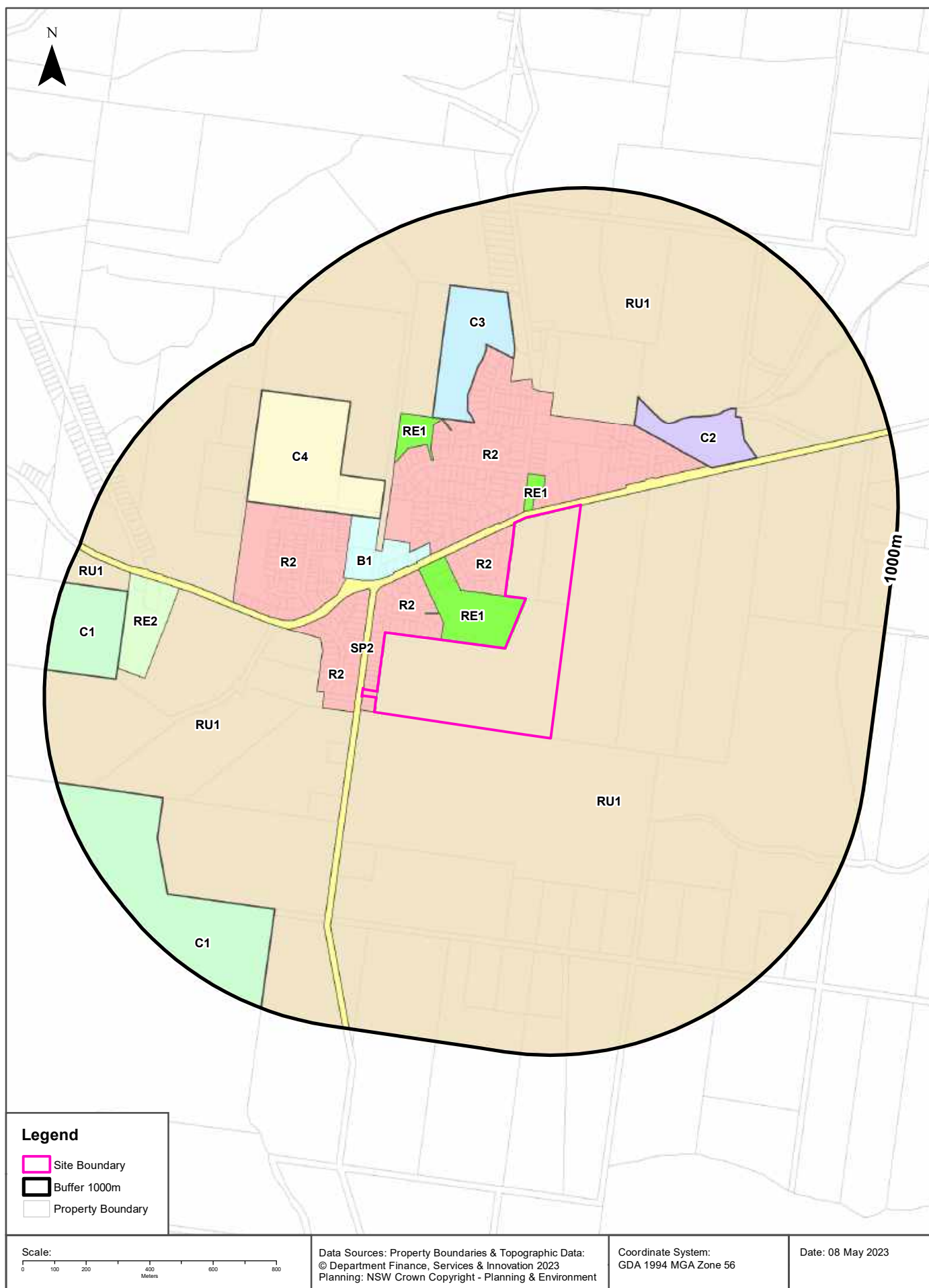
What SEPP State Significant Precincts exist within the dataset buffer?

Map Id	Precinct	EPI Name	Published Date	Commenced Date	Currency Date	Amendment	Distance	Direction
N/A	No records in buffer							

State Environment Planning Policy Data Source: NSW Crown Copyright - Planning & Environment
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EPI Planning Zones

1838 Barkers Lodge Road, 1455-1457 Burragorang Road, Oakdale NSW 2570



Environmental Planning Instrument

1838 Barkers Lodge Road, 1455-1457 Burragorang Road, Oakdale NSW 2570

Land Zoning

What EPI Land Zones exist within the dataset buffer?

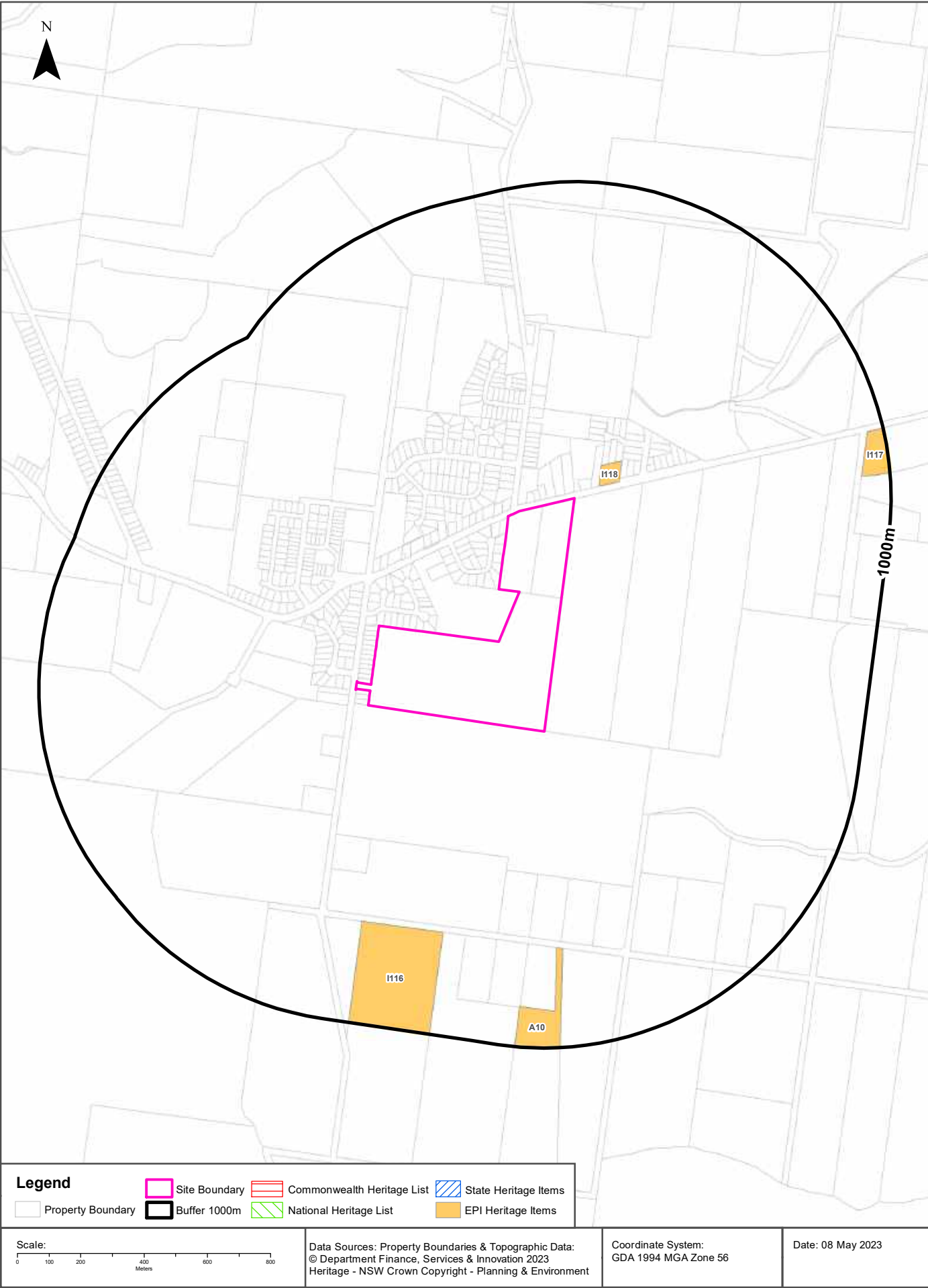
Zone	Description	Purpose	EPI Name	Published Date	Commenced Date	Currency Date	Amendment	Distance	Direction
RU1	Primary Production		Wollondilly Local Environmental Plan 2011	01/10/2021	01/10/2021	01/12/2021	Map Amendment No 1	0m	On-site
R2	Low Density Residential		Wollondilly Local Environmental Plan 2011	01/10/2021	01/10/2021	01/12/2021	Map Amendment No 1	0m	On-site
R2	Low Density Residential		Wollondilly Local Environmental Plan 2011	01/10/2021	01/10/2021	01/12/2021	Map Amendment No 1	0m	North
RE1	Public Recreation		Wollondilly Local Environmental Plan 2011	01/10/2021	01/10/2021	01/12/2021	Map Amendment No 1	0m	North West
SP2	Infrastructure	Road	Wollondilly Local Environmental Plan 2011	01/10/2021	01/10/2021	01/12/2021	Map Amendment No 1	0m	North West
R2	Low Density Residential		Wollondilly Local Environmental Plan 2011	01/10/2021	01/10/2021	01/12/2021	Map Amendment No 1	20m	North
RE1	Public Recreation		Wollondilly Local Environmental Plan 2011	01/10/2021	01/10/2021	01/12/2021	Map Amendment No 1	20m	North
R2	Low Density Residential		Wollondilly Local Environmental Plan 2011	01/10/2021	01/10/2021	01/12/2021	Map Amendment No 1	20m	West
RU1	Primary Production		Wollondilly Local Environmental Plan 2011	01/10/2021	01/10/2021	01/12/2021	Map Amendment No 1	55m	South West
B1	Neighbourhood Centre		Wollondilly Local Environmental Plan 2011	01/10/2021	01/10/2021	01/12/2021	Map Amendment No 1	168m	North West
R2	Low Density Residential		Wollondilly Local Environmental Plan 2011	01/10/2021	01/10/2021	01/12/2021	Map Amendment No 1	193m	North West
RU1	Primary Production		Wollondilly Local Environmental Plan 2011	01/10/2021	01/10/2021	01/12/2021	Map Amendment No 1	256m	North
C2	Environmental Conservation		Wollondilly Local Environmental Plan 2011	05/11/2021	01/12/2021	01/12/2021	Standard Instrument (Local Environmental Plans) Amendment (Land Use Zones) Order 2021	301m	North East
RE1	Public Recreation		Wollondilly Local Environmental Plan 2011	01/10/2021	01/10/2021	01/12/2021	Map Amendment No 1	325m	North
C3	Environmental Management		Wollondilly Local Environmental Plan 2011	05/11/2021	01/12/2021	01/12/2021	Standard Instrument (Local Environmental Plans) Amendment (Land Use Zones) Order 2021	342m	North

Zone	Description	Purpose	EPI Name	Published Date	Commenced Date	Currency Date	Amendment	Distance	Direction
C4	Environmental Living		Wollondilly Local Environmental Plan 2011	05/11/2021	01/12/2021	01/12/2021	Standard Instrument (Local Environmental Plans) Amendment (Land Use Zones) Order 2021	360m	North West
RE2	Private Recreation		Wollondilly Local Environmental Plan 2011	01/10/2021	01/10/2021	01/12/2021	Map Amendment No 1	654m	West
C1	National Parks and Nature Reserves		Wollondilly Local Environmental Plan 2011	05/11/2021	01/12/2021	01/12/2021	Standard Instrument (Local Environmental Plans) Amendment (Land Use Zones) Order 2021	696m	South West
RU1	Primary Production		Wollondilly Local Environmental Plan 2011	01/10/2021	01/10/2021	01/12/2021	Map Amendment No 1	802m	West

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Heritage Items

1838 Barkers Lodge Road, 1455-1457 Burragorang Road, Oakdale NSW 2570



Heritage

1838 Barkers Lodge Road, 1455-1457 Burragorang Road, Oakdale NSW 2570

Commonwealth Heritage List

What are the Commonwealth Heritage List Items located within the dataset buffer?

Place Id	Name	Address	Place File No	Class	Status	Register Date	Distance	Direction
N/A	No records in buffer							

Heritage Data Source: Australian Government Department of the Environment and Energy - Heritage Branch
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National Heritage List

What are the National Heritage List Items located within the dataset buffer?

Note. Please click on Place Id to activate a hyperlink to online website.

Place Id	Name	Address	Place File No	Class	Status	Register Date	Distance	Direction
N/A	No records in buffer							

Heritage Data Source: Australian Government Department of the Environment and Energy - Heritage Branch
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State Heritage Register - Curtilages

What are the State Heritage Register Items located within the dataset buffer?

Map Id	Name	Address	LGA	Listing Date	Listing No	Plan No	Distance	Direction
N/A	No records in buffer							

Heritage Data Source: NSW Crown Copyright - Office of Environment & Heritage
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Environmental Planning Instrument - Heritage

What are the EPI Heritage Items located within the dataset buffer?

Map Id	Name	Classification	Significance	EPI Name	Published Date	Commenced Date	Currency Date	Distance	Direction
I118	Oakdale Uniting Church	Item - General	Local	Wollondilly Local Environmental Plan 2011	01/10/2021	01/10/2021	18/03/2022	84m	North East
I116	Slab Cottage	Item - General	Local	Wollondilly Local Environmental Plan 2011	01/10/2021	01/10/2021	18/03/2022	675m	South
A10	Oakdale timber mill	Item - Archaeological	Local	Wollondilly Local Environmental Plan 2011	01/10/2021	01/10/2021	18/03/2022	684m	South

Map Id	Name	Classification	Significance	EPI Name	Published Date	Commenced Date	Currency Date	Distance	Direction
I117	Oakdale Winery Cottage	Item - General	Local	Wollondilly Local Environmental Plan 2011	01/10/2021	01/10/2021	18/03/2022	907m	North East

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Natural Hazards - Bush Fire Prone Land

1838 Barkers Lodge Road, 1455-1457 Burragorang Road, Oakdale NSW 2570



Natural Hazards

1838 Barkers Lodge Road, 1455-1457 Burragorang Road, Oakdale NSW 2570

Bush Fire Prone Land

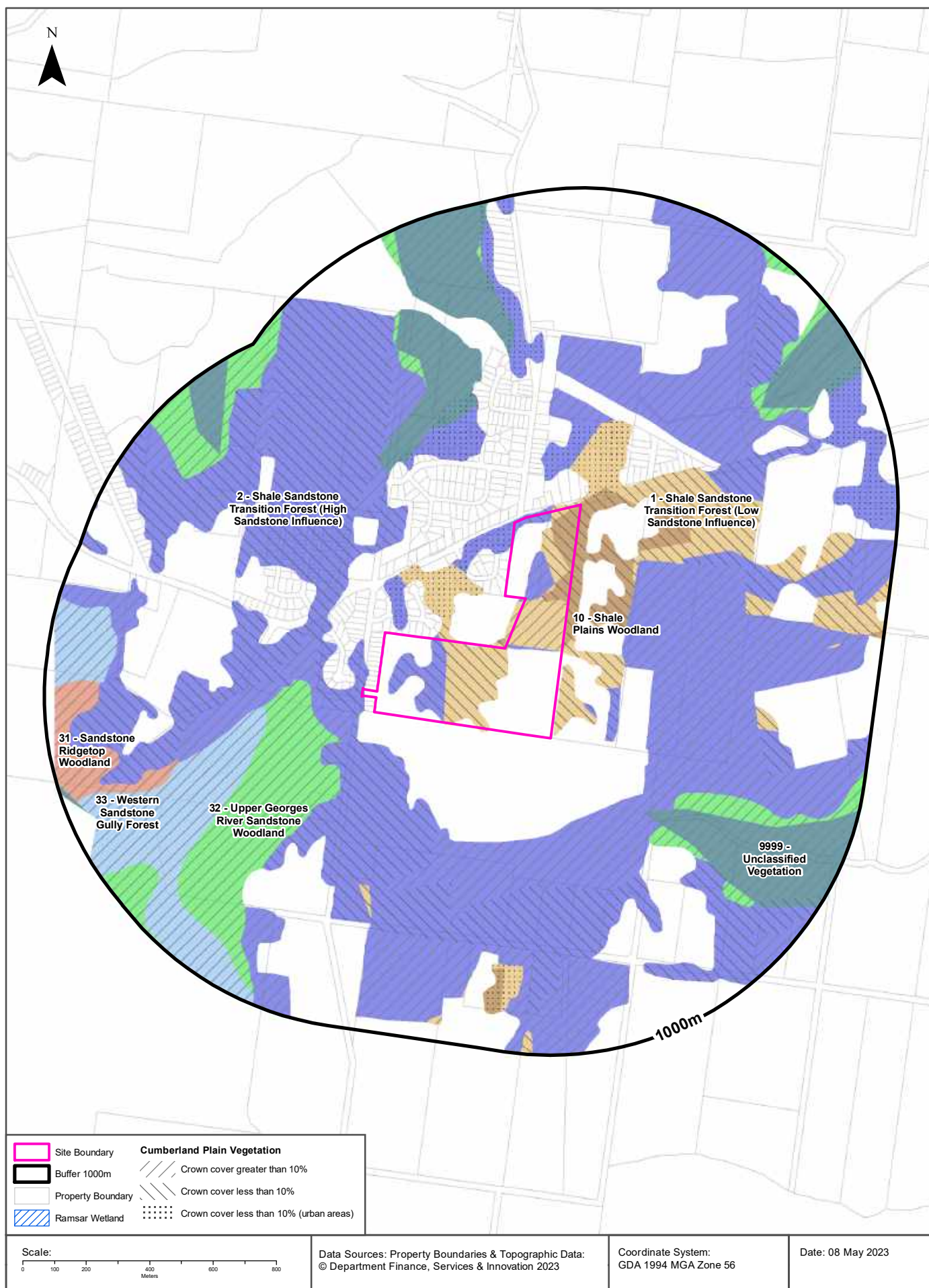
What are the nearest Bush Fire Prone Land Categories that exist within the dataset buffer?

Bush Fire Prone Land Category	Distance	Direction
Vegetation Category 1	0m	On-site
Vegetation Category 2	0m	On-site
Vegetation Buffer	0m	On-site

NSW Bush Fire Prone Land - © NSW Rural Fire Service under Creative Commons 4.0 International Licence

Ecological Constraints - Vegetation & Ramsar Wetlands

1838 Barkers Lodge Road, 1455-1457 Burragarang Road, Oakdale NSW 2570



Ecological Constraints

1838 Barkers Lodge Road, 1455-1457 Burragorang Road, Oakdale NSW 2570

Remnant Vegetation of the Cumberland Plain

What remnant vegetation of the Cumberland Plain exists within the dataset buffer?

Description	Crown Cover	Distance	Direction
2 - Shale Sandstone Transition Forest (High Sandstone Influence)	Crown cover less than 10%	0m	On-site
10 - Shale Plains Woodland	Crown cover less than 10%	0m	On-site
1 - Shale Sandstone Transition Forest (Low Sandstone Influence)	Crown cover less than 10%	0m	On-site
2 - Shale Sandstone Transition Forest (High Sandstone Influence)	Crown cover greater than 10%	0m	On-site
2 - Shale Sandstone Transition Forest (High Sandstone Influence)	Crown cover less than 10% (urban areas)	0m	On-site
1 - Shale Sandstone Transition Forest (Low Sandstone Influence)	Crown cover greater than 10%	0m	On-site
1 - Shale Sandstone Transition Forest (Low Sandstone Influence)	Crown cover less than 10% (urban areas)	36m	North East
10 - Shale Plains Woodland	Crown cover less than 10% (urban areas)	51m	North East
32 - Upper Georges River Sandstone Woodland	Crown cover greater than 10%	141m	South West
33 - Western Sandstone Gully Forest	Crown cover greater than 10%	305m	South West
9999 - Unclassified Vegetation	Crown cover greater than 10%	368m	South East
9999 - Unclassified Vegetation	Crown cover less than 10% (urban areas)	374m	North
9999 - Unclassified Vegetation	Crown cover less than 10%	466m	North West
31 - Sandstone Ridgetop Woodland	Crown cover greater than 10%	611m	West

Remnant Vegetation of the Cumberland Plain : NSW Office of Environment and Heritage

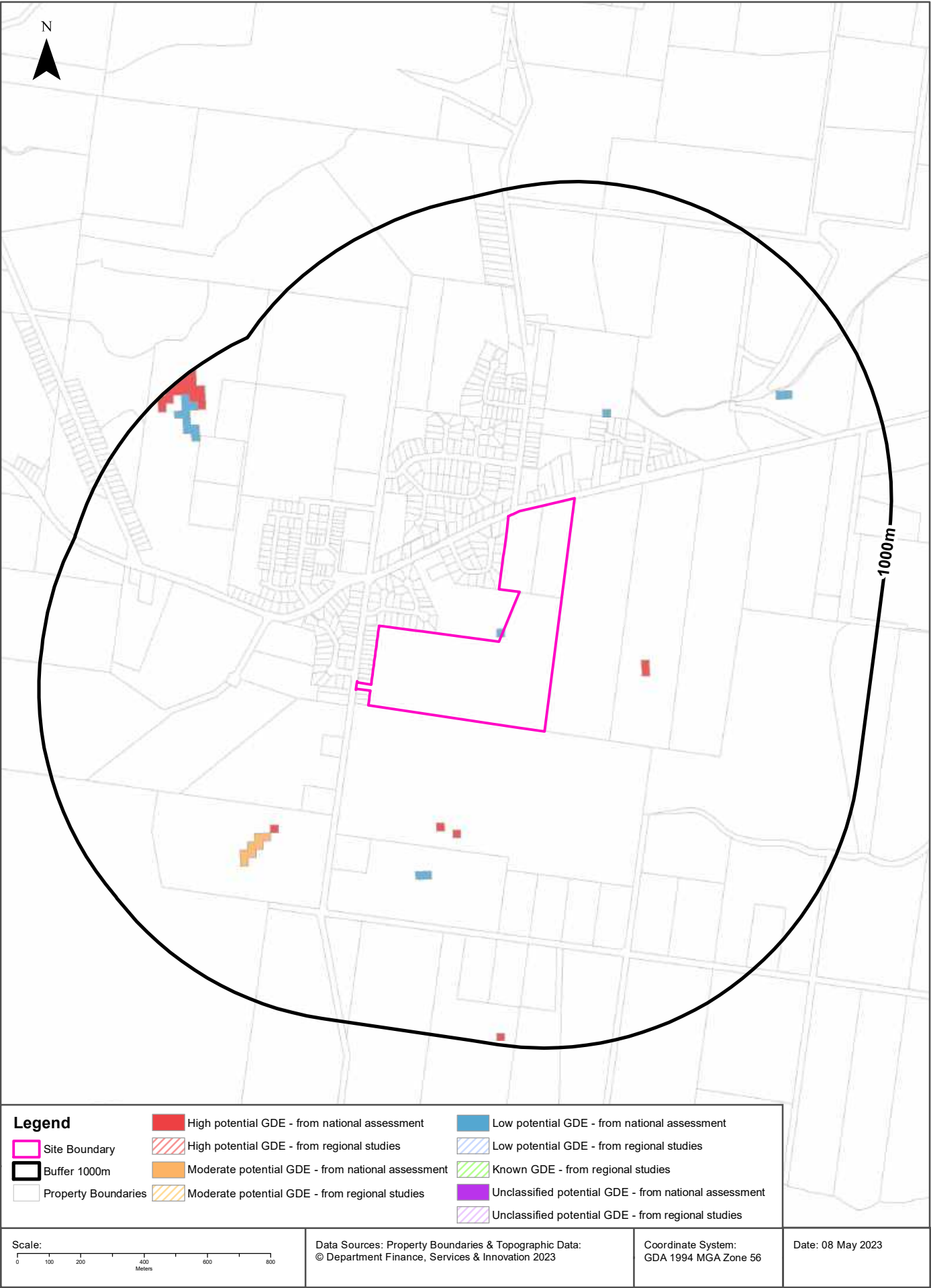
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Ramsar Wetlands

What Ramsar Wetland areas exist within the dataset buffer?

Map Id	Ramsar Name	Wetland Name	Designation Date	Source	Distance	Direction
N/A	No records in buffer					

Ramsar Wetlands Data Source: © Commonwealth of Australia - Department of Agriculture, Water and the Environment



Ecological Constraints

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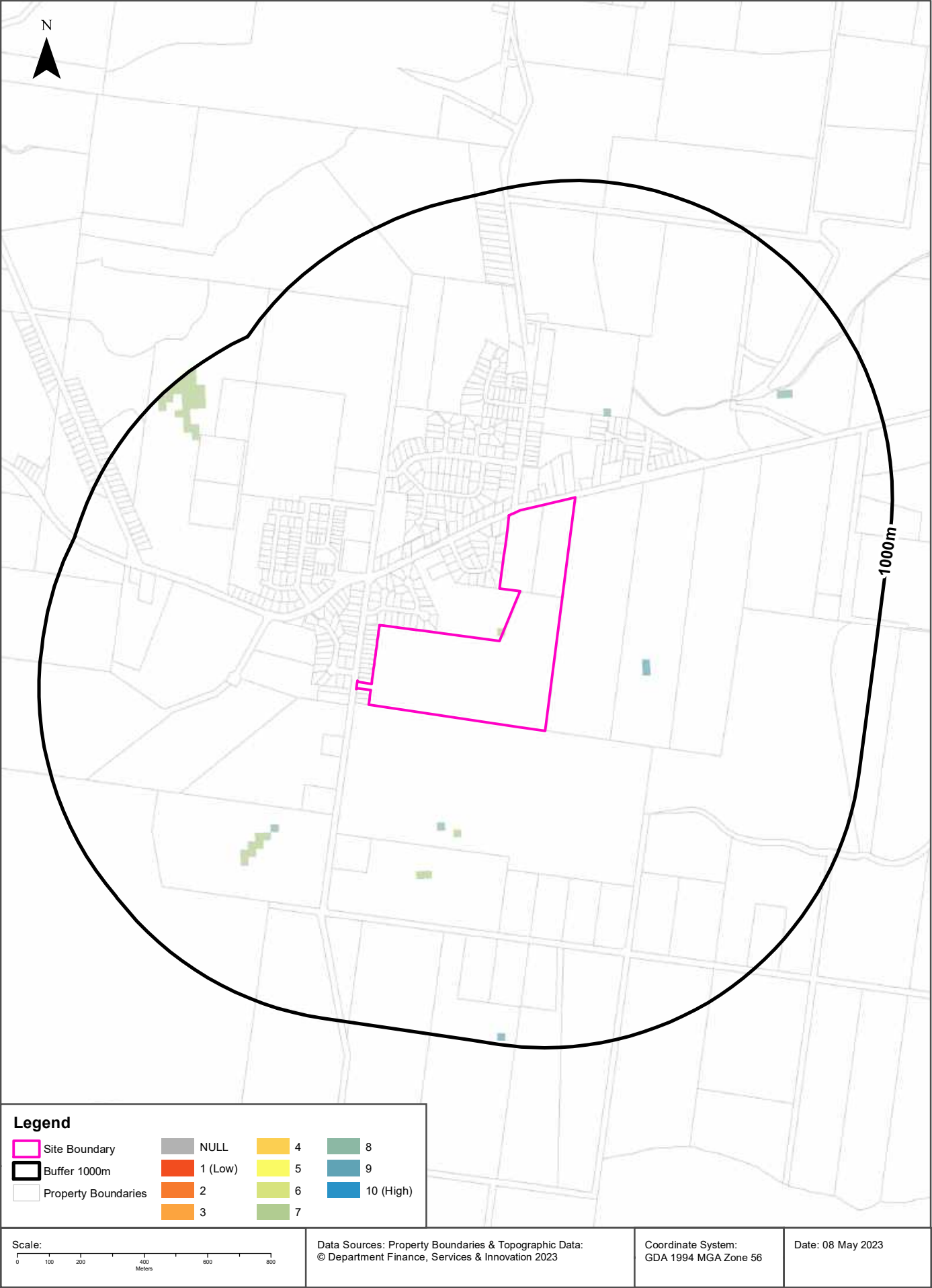
Groundwater Dependent Ecosystems Atlas

Type	GDE Potential	Geomorphology	Ecosystem Type	Aquifer Geology	Distance	Direction
Terrestrial	Low potential GDE - from national assessment	Deeply dissected sandstone plateaus.	Vegetation	Consolidated sedimentary	0m	On-site
Terrestrial	High potential GDE - from national assessment	Deeply dissected sandstone plateaus.	Vegetation	Consolidated sedimentary	272m	East
Terrestrial	Moderate potential GDE - from national assessment	Deeply dissected sandstone plateaus.	Vegetation	Consolidated sedimentary	509m	South West

Groundwater Dependent Ecosystems Atlas Data Source: The Bureau of Meteorology
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Ecological Constraints - Inflow Dependent Ecosystems Likelihood

1838 Barkers Lodge Road, 1455-1457 Burragorang Road, Oakdale NSW 2570



Ecological Constraints

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Inflow Dependent Ecosystems Likelihood

Type	IDE Likelihood	Geomorphology	Ecosystem Type	Aquifer Geology	Distance	Direction
Terrestrial	7	Deeply dissected sandstone plateaus.	Vegetation	Consolidated sedimentary	0m	On-site
Terrestrial	8	Deeply dissected sandstone plateaus.	Vegetation	Consolidated sedimentary	270m	North East
Terrestrial	9	Deeply dissected sandstone plateaus.	Vegetation	Consolidated sedimentary	272m	East

Inflow Dependent Ecosystems Likelihood Data Source: The Bureau of Meteorology

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Ecological Constraints

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NSW BioNet Atlas

Species on the NSW BioNet Atlas that have a NSW or federal conservation status, a NSW sensitivity status, or are listed under a migratory species agreement, and are within 10km of the site?

Kingdom	Class	Scientific	Common	NSW Conservation Status	NSW Sensitivity Class	Federal Conservation Status	Migratory Species Agreements
Animalia	Amphibia	Heleioporus australiacus	Giant Burrowing Frog	Vulnerable	Not Sensitive	Vulnerable	
Animalia	Amphibia	Litoria littlejohni	Littlejohn's Tree Frog	Endangered	Not Sensitive	Endangered	
Animalia	Amphibia	Pseudophryne australis	Red-crowned Toadlet	Vulnerable	Not Sensitive	Not Listed	
Animalia	Aves	Artamus cyanopterus cyanopterus	Dusky Woodswallow	Vulnerable	Not Sensitive	Not Listed	
Animalia	Aves	Botaurus poiciloptilus	Australasian Bittern	Endangered	Not Sensitive	Endangered	
Animalia	Aves	Callocephalon fimbriatum	Gang-gang Cockatoo	Vulnerable	Category 3	Endangered	
Animalia	Aves	Calyptorhynchus lathamii	Glossy Black-Cockatoo	Vulnerable	Category 2	Vulnerable	
Animalia	Aves	Chthonicola sagittata	Speckled Warbler	Vulnerable	Not Sensitive	Not Listed	
Animalia	Aves	Climacteris picumnus victoriae	Brown Treecreeper (eastern subspecies)	Vulnerable	Not Sensitive	Not Listed	
Animalia	Aves	Daphoenositta chrysoptera	Varied Sittella	Vulnerable	Not Sensitive	Not Listed	
Animalia	Aves	Haliaeetus leucogaster	White-bellied Sea-Eagle	Vulnerable	Not Sensitive	Not Listed	
Animalia	Aves	Hieraaetus morphnoides	Little Eagle	Vulnerable	Not Sensitive	Not Listed	
Animalia	Aves	Hirundapus caudacutus	White-throated Needletail	Not Listed	Not Sensitive	Vulnerable	ROKAMBA;CAMBA; JAMBA
Animalia	Aves	Lathamus discolor	Swift Parrot	Endangered	Not Sensitive	Critically Endangered	
Animalia	Aves	Lophoictinia isura	Square-tailed Kite	Vulnerable	Category 3	Not Listed	
Animalia	Aves	Melanodryas cucullata cucullata	Hooded Robin (south-eastern form)	Vulnerable	Not Sensitive	Not Listed	
Animalia	Aves	Neophema pulchella	Turquoise Parrot	Vulnerable	Category 3	Not Listed	
Animalia	Aves	Ninox connivens	Barking Owl	Vulnerable	Category 3	Not Listed	
Animalia	Aves	Ninox strenua	Powerful Owl	Vulnerable	Category 3	Not Listed	
Animalia	Aves	Pezoporus wallicus wallicus	Eastern Ground Parrot	Vulnerable	Category 3	Not Listed	
Animalia	Aves	Pycnophilus floccosus	Pilotbird	Not Listed	Not Sensitive	Vulnerable	
Animalia	Aves	Stagonopleura guttata	Diamond Firetail	Vulnerable	Not Sensitive	Not Listed	
Animalia	Aves	Tyto novaehollandiae	Masked Owl	Vulnerable	Category 3	Not Listed	
Animalia	Aves	Tyto tenebricosa	Sooty Owl	Vulnerable	Category 3	Not Listed	
Animalia	Gastropoda	Meridolum corneovirens	Cumberland Plain Land Snail	Endangered	Not Sensitive	Not Listed	
Animalia	Mammalia	Chalinolobus dwyeri	Large-eared Pied Bat	Vulnerable	Not Sensitive	Vulnerable	

Kingdom	Class	Scientific	Common	NSW Conservation Status	NSW Sensitivity Class	Federal Conservation Status	Migratory Species Agreements
Animalia	Mammalia	Dasyurus maculatus	Spotted-tailed Quoll	Vulnerable	Not Sensitive	Endangered	
Animalia	Mammalia	Falsistrellus tasmaniensis	Eastern False Pipistrelle	Vulnerable	Not Sensitive	Not Listed	
Animalia	Mammalia	Micronomus norfolkensis	Eastern Coastal Free-tailed Bat	Vulnerable	Not Sensitive	Not Listed	
Animalia	Mammalia	Miniopterus australis	Little Bent-winged Bat	Vulnerable	Not Sensitive	Not Listed	
Animalia	Mammalia	Miniopterus orianae oceanensis	Large Bent-winged Bat	Vulnerable	Not Sensitive	Not Listed	
Animalia	Mammalia	Myotis macropus	Southern Myotis	Vulnerable	Not Sensitive	Not Listed	
Animalia	Mammalia	Petauroides volans	Southern Greater Glider	Endangered	Not Sensitive	Endangered	
Animalia	Mammalia	Petaurus australis	Yellow-bellied Glider	Vulnerable	Not Sensitive	Vulnerable	
Animalia	Mammalia	Petaurus australis	Yellow-bellied Glider	Vulnerable	Not Sensitive	Not Listed	
Animalia	Mammalia	Petaurus norfolkensis	Squirrel Glider	Vulnerable	Not Sensitive	Not Listed	
Animalia	Mammalia	Petrogale penicillata	Brush-tailed Rock-wallaby	Endangered	Not Sensitive	Vulnerable	
Animalia	Mammalia	Phascolarctos cinereus	Koala	Endangered	Not Sensitive	Endangered	
Animalia	Mammalia	Pteropus poliocephalus	Grey-headed Flying-fox	Vulnerable	Not Sensitive	Vulnerable	
Animalia	Mammalia	Scoteanax rueppellii	Greater Broad-nosed Bat	Vulnerable	Not Sensitive	Not Listed	
Animalia	Reptilia	Chelonia mydas	Green Turtle	Vulnerable	Not Sensitive	Vulnerable	
Animalia	Reptilia	Varanus rosenbergi	Rosenberg's Goanna	Vulnerable	Not Sensitive	Not Listed	
Plantae	Flora	Acacia pubescens	Downy Wattle	Vulnerable	Not Sensitive	Vulnerable	
Plantae	Flora	Bossiaea oligosperma	Few-seeded Bossiaea	Vulnerable	Not Sensitive	Vulnerable	
Plantae	Flora	Callistemon linearifolius	Netted Bottle Brush	Vulnerable	Category 3	Not Listed	
Plantae	Flora	Eucalyptus benthamii	Camden White Gum	Critically Endangered	Not Sensitive	Vulnerable	
Plantae	Flora	Eucalyptus glaucina	Slaty Red Gum	Vulnerable	Not Sensitive	Vulnerable	
Plantae	Flora	Grevillea parviflora subsp. parviflora	Small-flower Grevillea	Vulnerable	Not Sensitive	Vulnerable	
Plantae	Flora	Leucopogon exolasius	Woronora Beard-heath	Vulnerable	Not Sensitive	Vulnerable	
Plantae	Flora	Melaleuca biconvexa	Biconvex Paperbark	Vulnerable	Not Sensitive	Vulnerable	
Plantae	Flora	Persoonia hirsuta	Hairy Geebung	Endangered	Category 3	Endangered	
Plantae	Flora	Pimelea spicata	Spiked Rice-flower	Endangered	Not Sensitive	Endangered	
Plantae	Flora	Pomaderris brunnea	Brown Pomaderris	Endangered	Not Sensitive	Vulnerable	
Plantae	Flora	Tetradlea glandulosa		Vulnerable	Not Sensitive	Not Listed	

Data does not include NSW category 1 sensitive species.

NSW BioNet: © State of NSW and Office of Environment and Heritage

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Premise Match	Georeferenced to the site location / premise or part of site
Area Match	Georeferenced to an approximate or general area
Road Match	Georeferenced to a road or rail corridor
Road Intersection	Georeferenced to a road intersection
Buffered Point	A point feature buffered to x metres
Adjacent Match	Land adjacent to a georeferenced feature
Network of Features	Georeferenced to a network of features
Suburb Match	Georeferenced to a suburb boundary
As Supplied	Spatial data supplied by provider

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