

# **PHASE 1 PRELIMINARY ENVIRONMENTAL SITE ASSESSMENT**

## **79, 95 & 100 BELLS LANE AND 457 BELLS LINE OF ROAD, KURMOND NSW 2757**

PREPARED FOR:

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REFERENCE:

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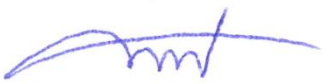

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## EXECUTIVE SUMMARY

EnviroTech Pty. Ltd. was engaged by ADW Johnson to conduct a Preliminary Phase 1 Environmental Site Assessment at the following properties (hereafter referred to as the site);

- 79 Bells Lane, Kurmond NSW 2757
- 95 Bells Lane, Kurmond NSW 2757
- 100 Bells Lane, Kurmond NSW 2757
- 457 Bells Line of Road, Kurmond NSW 2757

The investigation will accompany a proposed application for the subdivision of existing allotments into smaller rural residential allotments.

The total area of investigation for each property was as follows;

- 79 Bells Lane, Kurmond NSW 2757 – 27340 m<sup>2</sup> (2.734 Ha)
- 95 Bells Lane, Kurmond NSW 2757 – 29360 m<sup>2</sup> (2.936 Ha)
- 100 Bells Lane, Kurmond NSW 2757 – 48600 m<sup>2</sup> (4.860 Ha)
- 457 Bells Line of Road, Kurmond NSW 2757 - 23290 m<sup>2</sup> (2.329 Ha)

A site inspection was carried out on 12<sup>th</sup> September 2018 which involved a visual assessment of each the areas of investigation and surrounding areas. Details of the findings are presented within the body of this report, as well as an assessment of significance with regards to the findings of the investigation.

This report was completed in accordance with the *Guidelines for Consultants Reporting on Contaminated Sites, NSW EPA, September 2000*.

Based on the data and evidence collected during the site inspection and site history review, the findings of the Environmental Site Assessments are as follows:

**79 Bells Lane, Kurmond:** The site displayed a semi-rural setting with numerous fenced open grassed paddocks, scattered mature trees and an empty small dam towards the rear of the property (north-east). Towards the front of the property (south-west to Bells Lane) displayed a residential dwelling, small sheds and stables. The property was gently to moderate sloping to the north-east.

**95 Bells Lane, Kurmond:** The site was situated adjacent to 79 bells lane and consisted of open grassed paddocks with smaller fenced off areas at the front half of the property. A small dam was observed at approximately the bottom half of the property including a small shed along the eastern edge boundary. A residential dwelling, garage and an inground pool was present at the property entrance adjacent to Bells Lane. The property was gently sloping to the north-east.

**100 Bells Lane, Kurmond:** The site displayed a semi-rural setting with numerous fenced open grass paddocks (horse yards) with a small empty dam towards the middle of the property. Clusters of open-woodland mature trees were present towards the rear of the property (south) which lined an existing creek-line which flowed across the property (east-west). The front half of the property showed an existing dam towards the front site boundary with a large shed and a residential dwelling occupying a fenced off area directly behind the front paddock. The property was gently sloping to the south toward the creek-line.

**457 Bells Line of Road, Kurmond:** The site was bounded by Bells Line of Road to the north and Bells Lane to the south. A dilapidated house was situated toward the centre of the property (nearby the dam) including numerous surrounding sheds in poor condition. The majority of the property consisted of open grassed areas and clumps of mature trees. The property was gently sloping toward the south (Bells Lane).

The sites are not listed on any EPA records.

#### **Areas of Concern**

##### **79 Bells Lane, Kurmond:**

- Unbundled storage of building materials including storage drums.

##### **95 Bells Lane, Kurmond:**

- Nil

##### **100 Bells Lane, Kurmond:**

- Nil

##### **457 Bells Line of Road, Kurmond:**

- Remnant residence and farm shed.
  - Stockpiled rubbish
1. Taking into consideration all the above, it is considered that further investigation in the form of a targeted Phase 2 Investigation on allotments 79 bells Lane and 457 Bells Line of Road of the areas of concern for the contaminants of concern is warranted.
  2. Subject to outcome of the above items, it is considered that the site is or can be remediated suitable to the proposed land use.

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## **1. INTRODUCTION**

### **1.1 Background**

EnviroTech Pty. Ltd. was engaged by Montgomery Planning Solutions to conduct a Preliminary Phase 1 Environmental Site Assessment at the following properties (hereafter referred to as the site);

- 79 Bells Lane, Kurmond NSW 2757
- 95 Bells Lane, Kurmond NSW 2757
- 100 Bells Lane, Kurmond NSW 2757
- 457 Bells Line of Road, Kurmond NSW 2757

The investigation will accompany a proposed application for the subdivision of existing allotments into smaller rural residential allotments.

The total area of investigation for each property inspected is as follows;

- 79 Bells Lane, Kurmond NSW 2757 – 27340 m<sup>2</sup> (2.734 Ha)
- 95 Bells Lane, Kurmond NSW 2757 – 29360 m<sup>2</sup> (2.936 Ha)
- 100 Bells Lane, Kurmond NSW 2757 – 48600 m<sup>2</sup> (4.860 Ha)
- 457 Bells Line of Road, Kurmond NSW 2757 - 23290 m<sup>2</sup> (2.329 Ha)

A site inspection was carried out on 12<sup>th</sup> September 2018 which involved a visual assessment of the area of investigation and surrounding areas. Details of the findings are presented within the body of this report, as well as an assessment of significance with regards to the findings of the investigation.

This report was completed in accordance with the *Guidelines for Consultants Reporting on Contaminated Sites, NSW EPA, September 2000*.

### **1.2 Objectives**

The objectives of this PSI were to:

1. Identify past and present potentially contaminating activities;
2. Identify potential contaminants of concern;
3. Provide a preliminary assessment of the condition of the site and potential for contamination; and
4. Assess the need for further investigation.

### **1.3 Scope of Works**

The scope of works included the following:

1. A desktop search comprising;
  - Cadastre & Topography
  - Aerial Imagery
  - EPA Contaminated Land
  - EPA Records of Notice
  - National Waste
  - Groundwater Bores
  - Geology & Soils

- Planning Zones
2. A review of past and current site uses;
  3. A review of past and current adjacent site uses;
  4. An integrity assessment;
  5. A site inspection; and
  6. Reporting in accordance with the associated legislations and guidelines.

#### 1.4 Legislative Requirements

The legislative framework for the report is based on guidelines that have been set out by the NSW Environmental Protection Agency (EPA) formerly the Office of Environment and Heritage (OEH) in the form of the following Acts/Regulations:

1. *Protection of the Environment Operations Act (1997);*
2. *Protection of the Environment Operations Regulation (2008);*
3. *Contaminated Land Management Act (1998).*

In addition, the following guidelines and technical documents have been reviewed and applied where applicable:

1. *Guidelines for the NSW Site Auditor Scheme (NSW DEC, 2006).*
2. *Guidelines for Consultants Reporting on Contaminated Sites (NSW EPA, 2000).*
3. *Guidelines on the Investigation Levels for Soil and Groundwater, National Environmental Protection Measure 1999, 2013 Amendment (NEPC, 2013).*
4. Australian Standard AS 4482.1 *Guide to the sampling and investigation of potentially contaminated soil. Part 1: Non-volatile and semi-volatile compounds.*
5. Australian Standard AS 4482.2 *Guide to the sampling and investigation of potentially contaminated soil. Part 2: Volatile substances.*
6. *Sampling Design Guidelines (NSW EPA, 1995).*
7. *Waste Classification Guidelines Part 1: Classifying Waste (NSW DECCW, 2014).*
8. *Guidelines for Implementing the Protection of the Environment Operations (Underground Petroleum Storage Systems) Regulation 2008 (NSW DECCW, 2009).*
9. *Guidelines for the Assessment and Management of Groundwater Contamination (NSW DEC, 2007).*

#### 1.5 Context of report

This report is to be read in its entirety and should not be review in individual section to provide any level of information independently. Each section of the report relates to the rest of the document and as such is to be read in conjunction, including its appendices and attachments.



## 2. SITE IDENTIFICATION

The study sites are listed below and displayed in the following figures. Figures 5, 6, 7 & 8 shows an aerial photograph of the individual sites and the surrounding land.

## 3. PROPOSED DEVELOPMENT

The investigation will accompany a proposed development application for the provision of a new subdivision.



**Figure 1** 79 Bells lane, Kurmond (Six Maps)



**Figure 2: 95 Bells lane, Kurmond (Six Maps)**





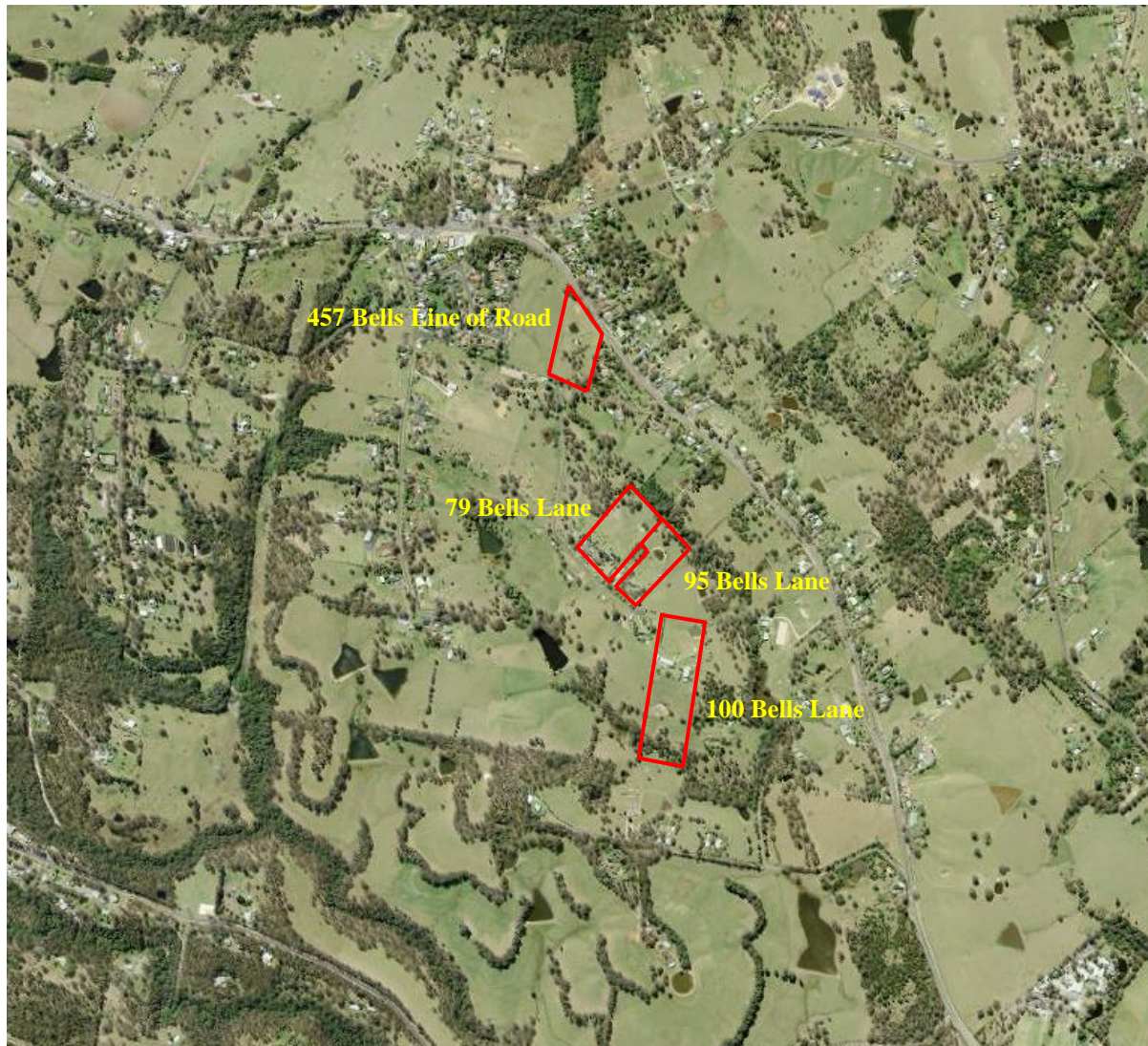
**Figure 3:** 100 Bells Lane, Kurmond (Six Maps)





**Figure 4:** 457 Bells Line of Road, Kurmond (Six Maps)





**Figure 5: Surrounding Land (Six Maps)**

## **4. SITE DESCRIPTION**

### **4.1 Site inspection**

On the 12<sup>th</sup> September 2018, a site inspection at each of the properties was conducted by Envirotech consultant Simon Doberer. Field work was carried out in accordance with the methodology described in AS 4482.1 – 2005 and the NEPM (2013).

**79 Bells Lane, Kurmond:** The site displayed a semi-rural setting with numerous fenced open grassed paddocks, scattered mature trees and an empty small dam towards the rear of the property (north-east). Towards the front of the property (south-west to Bells Lane) displayed a residential dwelling, small sheds and stables. The property was gently to moderate sloping to the north-east.

**95 Bells Lane, Kurmond:** The site was situated adjacent to 79 bells lane and consisted of open grassed paddocks with smaller fenced off areas at the front half of the property. A small dam was observed at approximately the bottom half of the property including a small shed along the eastern edge boundary. A residential dwelling, garage and an inground pool was present at the property entrance adjacent to Bells Lane. The property was gently sloping to the north-east.

**100 Bells Lane, Kurmond:** The site displayed a semi-rural setting with numerous fenced open grass paddocks (horse yards) with a small empty dam towards the middle of the property. Clusters of open-woodland mature trees were present towards the rear of the property (south) which lined an existing creek-line which flowed across the property (east-west). The front half of the property showed an existing dam towards the front site boundary with a large shed and a residential dwelling occupying a fenced off area directly behind the front paddock. The property was gently sloping to the south toward the creek-line.

**457 Bells Line of Road, Kurmond:** The site was bounded by Bells Line of Road to the north and Bells Lane to the south. A dilapidated house was situated toward the centre of the property (nearby the dam) including numerous surrounding sheds in poor condition. The majority of the property consisted of open grassed areas and clumps of mature trees. The property was gently sloping toward the south (Bells Lane).

## 4.2 Surrounding land use

The sites are located within a semi-rural setting and bordered by:

- Adjacent semi-rural properties to the north, south, east and west
- A moderately densely populated residential area close-by to the west of property - 457 Bells Line of Road

## 4.3 Topography

With reference to the Sydney Soils Map Index (Luddenham) the area within the vicinity of the subject sites display; low rolling to steep hills. Local relief 50-120 m, slopes 5-20%. Convex narrow (20-300 m) ridges and hillcrests grade into a moderately inclined sideslopes with narrow concave drainage lines. Moderately inclined slopes of 10-15% are the dominate landform elements.

**79 Bells Lane, Kurmond:** Gently to moderate sloping up to ~ 10% to the north with an average elevation of approximately 81 m AHD.

**95 Bells Lane, Kurmond:** Gently to moderate sloping up to ~ 10% to the north with an average elevation of approximately 77 m AHD.

**100 Bells Lane, Kurmond:** Gently to moderate sloping up to ~ 7.5% to the south with an average elevation of approximately 72 m AHD.

**457 Bells Line of Road, Kurmond:** Gently to moderate sloping up to ~ 13% to the south with an average elevation of approximately 94 m AHD.

## 4.4 Geology and Soils

The soil landscape is underlain by Wianamatta Group Ashfield Shale and Bringelly Shale formations. The Ashfield Shale consists of laminite and dark grey shale. Bringelly Shale consists of shale, calcareous claystone, and laminite. Between these two shale members is the Minchinbury Sandstone consisting of fine to medium-grained lithic quartz sandstone.

The soils consist of an upper layer of friable dark brown silty loam or silty clay loam with moderate to strong structure and porous rough-faced ped fabric occurring a topsoil. The pH varies from moderately acid (pH 5.0) to slightly acid (pH 6.5). A few smaller sub-rounded to rounded weakly weathered shale fragments occur and roots are common.

Underlying the topsoil consists of clay loam to fine sandy clay loam with an apedal massive or weakly pedal structure and an earthy porous, rough-faced ped fabric. Colour is brown but can range between dull yellowish brown and reddish brown. The pH varies between strongly acid (pH 4.0) and slightly acid (pH 6.5). Shale rock fragments, charcoal fragments and roots are present.

Subsoil consists of a medium clay with strong structure and smooth-faced dense fabric. Texture is commonly medium clay but can range between silty clay to heavy clay. Apedal massive brown, sandy clay to light clay with dense earthy fabric can also occur. Colour is reddish brown but can range from bright reddish brown to bright yellowish brown. The pH varies from strongly acid (pH 4.0) to moderately acid (pH 5.5). Shale rock fragments are common. Roots are rare.

Deep subsoil consists of a grey, mottled, medium clay with strongly pedal structure and dense, smooth-ped fabric. Texture ranges to heavy clay. Colour is usually light grey but ranges to light reddish grey. Yellow and red mottles are common. The pH varies between strongly acidic (pH 4.0) to moderately acidic (pH 5.5). Shale fragments and gravels are common, but roots are rare and other inclusions are absent.

#### 4.5 Surface Water Hydrology

**79 Bells Lane, Kurmond:** Two dams are present toward the northern end of the site which captures surface water flowing from the south. The site is traversed from an overland flow path, situated at the northern boundary of the property, from the southeast to the northwest.

**95 Bells Lane, Kurmond:** Two dams are present toward the centre and northern end of the site which captures surface water flowing from the south. The site is traversed from an overland flow path, at the northern boundary of the property, from the southeast to the northwest.

**100 Bells Lane, Kurmond:** Three small dams are spread across the property, one on the upslope (northern end) with another two dams situated toward the southern end of the site. The dams capture surface water flows flowing from the north (upslope) to the south of the site. The site is also traversed from several connected overland flow paths. One at the southern boundary of the property, from the southeast to the northwest and another which flows to the southwest.

**457 Bells Line of Road, Kurmond:** One small dam exists on the site toward the northern end of the site. An overland flow path traverses adjacent to the site on the southern and western boundaries, flowing from the northwest to the southeast.

#### 4.6 Hydrogeology

A search of the NSW Office of Water 'Continuous Water Monitoring Network' Groundwater Map displayed the following boreholes within a 500m buffer of the subject sites;

##### 79 Bells Lane, Kurmond

- GW108100 – Authorised Purpose: Stock, Domestic – Licence Status: Converted

##### 95 Bells Lane, Kurmond

- GW108100 – Authorised Purpose: Stock, Domestic – Licence Status: Converted



#### **100 Bells Lane, Kurmond**

- GW108100 – Authorised Purpose: Stock, Domestic – Licence Status: Converted
- GW101552 – Authorised Purpose: Stock, Domestic – Licence Status: Converted
- GW101195 – Authorised Purpose: Stock, Domestic – Licence Status: Converted

#### **457 Bells Line of Road, Kurmond**

- GW034552 – Intended Purpose: Domestic – Licence Status: Not listed

### **4.7 Receptors and Sensitive Environments**

**79 Bells Lane, Kurmond:** Sensitive receptors would include future residents to occupy the proposed. The closest sensitive environmental receptors would include the two dams on the subject site, neighbouring dams to the north and east, and a creek-line which traverses west-east across the northern boundary of the site.

**95 Bells Lane, Kurmond:** Sensitive receptors would include future residents to occupy the proposed. The closest sensitive environmental receptors would include the two dams on the subject site, neighbouring dams to the north and east, and a creek-line which traverses west-east across the northern boundary of the site.

**100 Bells Lane, Kurmond:** Sensitive receptors would include future residents to occupy the proposed. The closest sensitive environmental receptors would include the two dams on the subject site, neighbouring dams to the west and south, and a dual creek-line which traverses west-east and north-east at the southern boundary of the site.

**457 Bells Line of Road, Kurmond:** Sensitive receptors would include future residents to occupy the proposed. The closest sensitive environmental receptors would include an existing dam on the site, a neighbouring dam to the east, and a neighbouring creek-line which traverses west-east across the southern end of the site.

### **4.8 Areas of Concern**

#### **79 Bells Lane, Kurmond:**

- Unbundled storage of building materials including storage drums.

#### **95 Bells Lane, Kurmond:**

- Nil

#### **100 Bells Lane, Kurmond:**

- Nil

#### **457 Bells Line of Road, Kurmond:**

- Remnant residence and farm shed.
- Stockpiled rubbish.



**Figure 6:** Area of concern within 79 bells Lane (dashed rectangle in the north western portion of the site)



**Figure 7:** Areas of concern within 457 Bells Line of Road (inside red lines)

## **5. SITE RECORDS**

A search of 79, 95, 100 Bells Lane and 457 Bells Line of Road Kurmond, NSW on the following records was undertaken;

### **5.1 List of NSW Contaminated Sites - Notified to the EPA**

- BP Service Station – Location: 501 Bells Line of Road, Kurmond – Management Class: Contamination formerly regulated under the CLM Act - Activity: Service Station – Status: Current EPA List

### **5.2 List of NSW Contaminated Sites - Record of Notices**

- BP Service Station – Location: 501 Bells Line of Road, Kurmond

### **5.3 National Waste Management Site Database**

- No records

### **5.4 List of Current EPA Licensed Activities**

- No records

### **5.5 Delicensed Activities still regulated by the EPA**

- No records

### **5.6 Former Licensed Activities under the POEO Act 1997, now surrendered**

- Luhrmann Environment Management Pty Ltd – Location: Waterways throughout NSW – Contamination activity type: Other activities / Non-scheduled activity – application of herbicides – Status: Surrendered
- Robert Orchard – Location: Various waterways throughout NSW, Sydney NSW 2000 – Contamination activity type: Other activities / Non-scheduled activity – application of herbicides – Status: Surrendered
- Sydney Weed & Pest Management Pty Ltd – Location: Waterways Throughout NSW, Prospect, NSW, 2148 – Contamination activity type: Other activities / Non-scheduled activity – application of herbicides – Status: Surrendered

### **5.7 Historical Business Directories**

No matches for Dry Cleaners, Motor Garages & Service Stations Premise or Road Intersection Matches. Current matches for Dry Cleaners, Motor Garages & Service Stations mapped to a road or an area are as follows;

- Motor Garages & Engineers – Bells Line Garage, Bells Line Rd, Kurmond – Year: 1970
- Motor Garages & Engineers – Bells Line Garage, Bells Line Rd, Kurmond – Year: 1961
- Motor Service Stations-Petrol, Oil, Etc. – Bells Line Garage, Bells Line Rd, Kurmond – Year: 1961
- Motor Garages & Service Stations – Amoco North Richmond Service Station, Bells Line Rd, North Richmond – Year: 1986



- Motor Garages &/or Engineers &/or Service Stations (M6860) – Amoco North Richmond Service Station, Bells Line Rd, North Richmond – Year: 1982
- Motor Garages & Service Stations – Calico Richmond Service Station, Bells line Rd, North Richmond – Year: 1986
- Motor Garages &/or Engineers &/or Service Stations (M6860) – Caltex Richmond Service Station, Bells Line Rd, North Richmond – Year: 1982
- Motor Garages & Engineers – Cedbank Service Station, Bells Line Rd, North Richmond – Year: 1961
- Motor Garages & Service Stations – Erics Auto Electrics, Bells Line Rd, North Richmond – Year: 1991
- Dry Cleaners and Pressers – North Richmond Dry Cleaners, Shop 6 North Richmond Plaza, North Richmond – Year: 1986
- Motor Garages & Engineers – North Richmond Garage (L. W. Shepherd, Propr.), Kurrajong Rd, North Richmond – Year: 1950
- Motor Garages & Engineers – North Richmond Garage, Bells Line Rd, North Richmond – Year: 1970
- Motor Service Stations-Petrol, Etc. – Redbank Service Station, Bells Line Rd, North Richmond – Year: 1961
- Motor Service Stations-Petrol, Oils, Etc. – Redbank Service Station, Bells Line Rd, North Richmond – Year: 1970
- Motor Garages & Engineers - Redbank Service Station, Bells Line Rd, North Richmond – Year: 1961
- Motor Service Stations – Carr, W and I.G., Bells Line Rd, Kurrajong – Year: 1950
- Motor Service Stations – Minturn N. A., Bells Line Rd, Kurrajong – Year: 1950
- Motor Service Stations-Petrol, Oils, Etc. - Minturn N. A., Bells Line Rd, Kurrajong – Year: 1970
- Motor Service Stations-Petrol, Oils, Etc. - Minturn N. A., Bells Line Rd, Kurrajong – Year: 1961

## 6 SITE HISTORY

### 6.1 Aerial Photographs

A review of historical aerial photographs (Appendix A) was undertaken. The results of which are summarized in the following tables;

**Table 1:** A summary of the historical photograph review - 79 Bells Lane Kurmond

Year	Description
1965	<ul style="list-style-type: none"> <li>• Moderate resolution black and white aerial photo</li> <li>• Subject site appears to contain no residential dwellings or other structures</li> <li>• Mostly cleared, scattered trees toward the rear of property (northern end)</li> <li>• Vacant land surrounding subject site apart from adjacent property to the north consisting of small cluster of buildings and a dam</li> </ul>
1970	<ul style="list-style-type: none"> <li>• Low resolution black and white aerial photo</li> <li>• No significant changes other than small increase in vegetation</li> <li>• Bells Line Rd has been upgraded from dirt to asphalt</li> </ul>



1976	<ul style="list-style-type: none"> <li>• Moderate resolution colour aerial photo</li> <li>• Residential property and a pool have been added to the southern end of the site</li> <li>• Adjacent property to the east and have residential properties added</li> <li>• Addition of a dam added to the subject site</li> </ul>
1991	<ul style="list-style-type: none"> <li>• Moderate resolution colour aerial photo</li> <li>• No other significant changes to the subject site</li> <li>• Market garden at adjacent property to the north</li> <li>• Small addition of infrastructure on neighboring properties</li> </ul>
2002	<ul style="list-style-type: none"> <li>• Moderate resolution aerial colour photo</li> <li>• Addition of farm shed/stables to the subject site – dam has been filled in</li> <li>• Increase in vegetation around infrastructure on the subject site</li> <li>• No other significant changes to the subject site</li> <li>• Small increases in vegetation and infrastructure on properties in the vicinity of the subject site</li> <li>• No significant changes</li> </ul>
2013	<ul style="list-style-type: none"> <li>• Moderate resolution aerial colour photo</li> <li>• Additional residential structure added on to existing structure on the subject site – dam added to property on eastern boundary</li> <li>• Market garden appears to have been removed and transformed into a farming lot at the adjacent property to the north</li> <li>• No other significant changes to the subject site and surrounding properties</li> </ul>
2016	<ul style="list-style-type: none"> <li>• High resolution aerial colour photo</li> <li>• No significant changes to subject site</li> <li>• A few add-on buildings to adjacent properties</li> </ul>
2017	<ul style="list-style-type: none"> <li>• Moderate resolution aerial colour photo</li> <li>• Increase in vegetation on subject site and surrounding lands</li> <li>• No significant changes to the site or surroundings</li> </ul>

**Table 2:** A summary of the historical photograph review - 95 Bells Lane Kurmond

Year	Description
1965	<ul style="list-style-type: none"> <li>• Moderate resolution black and white aerial photo</li> <li>• Subject site appears to contain no residential dwellings or other structures</li> <li>• Mostly cleared, scattered trees toward the rear of property (northern end)</li> <li>• Vacant land surrounding subject site apart from some dam structures and some buildings on adjacent properties to the north and south</li> </ul>
1970	<ul style="list-style-type: none"> <li>• Low resolution black and white aerial photo</li> <li>• No significant changes other than small increase in vegetation</li> <li>• Market garden on adjacent property to the north</li> <li>• Bells Line Rd has been upgraded from dirt to asphalt</li> </ul>

1982	<ul style="list-style-type: none"> <li>• Moderate resolution colour aerial photo</li> <li>• Residential property and additional building structures added to the southern end of the site</li> <li>• Addition of dam at centre of subject site</li> <li>• Adjacent property to the west has residential properties added</li> <li>• Market garden added to adjacent property on the eastern side of subject site</li> <li>• Creek-line appears to traverse through northern end of property which was not clear in previous historical photographs</li> <li>• Small addition of infrastructure on surrounding lands</li> </ul>
1991	<ul style="list-style-type: none"> <li>• Moderate resolution colour aerial photo</li> <li>• A pool and large shed have been added to site at southern end</li> <li>• Market garden at adjacent property to the west appears to have been removed</li> <li>• Large infrastructure has been added to adjacent property to the south-east</li> </ul>
2002	<ul style="list-style-type: none"> <li>• Moderate resolution aerial colour photo</li> <li>• No significant changes to subject site or surrounding properties</li> </ul>
2013	<ul style="list-style-type: none"> <li>• Moderate resolution aerial colour photo</li> <li>• Increase in vegetation at the creek-line and around the infrastructure at the subject site</li> <li>• Market garden removed on northern adjacent property</li> <li>• No other significant changes to the subject site and surrounding properties</li> </ul>
2016	<ul style="list-style-type: none"> <li>• High resolution aerial colour photo</li> <li>• No significant changes to subject site although vegetation appears to be less</li> <li>• A few add-on buildings to adjacent properties</li> </ul>
2017	<ul style="list-style-type: none"> <li>• Moderate resolution aerial colour photo</li> <li>• Increase in vegetation on subject site and along creek-line</li> <li>• No significant changes to the site or surroundings</li> </ul>

**Table 3:** A summary of the historical photograph review - 100 Bells Lane Kurmond

Year	Description
1965	<ul style="list-style-type: none"> <li>• Moderate resolution black and white aerial photo</li> <li>• Subject site appears to contain no residential dwellings</li> <li>• Two dams present on subject site</li> <li>• Mostly cleared, scattered trees toward the rear of property (southern end)</li> <li>• Creek-line appears to traverse across the southern end of the subject site (north-west to south-east)</li> <li>• Vacant land surrounding subject site apart from some dam structures and some buildings on adjacent properties to the north and south</li> <li>• Market gardens on surrounding properties to the west, south and east</li> </ul>
1970	<ul style="list-style-type: none"> <li>• Moderate resolution black and white aerial photo</li> <li>• No significant changes other than increase in vegetation along creek-line</li> </ul>

1982	<ul style="list-style-type: none"> <li>• Moderate resolution colour aerial photo</li> <li>• No significant changes to subject property</li> <li>• Most market gardens have been cleared from surrounding properties apart from small garden on the eastern side</li> <li>• Small building additions to surrounding properties</li> </ul>
1991	<ul style="list-style-type: none"> <li>• Moderate resolution colour aerial photo</li> <li>• Residential property and additional building structures added to the northern end of the site</li> <li>• Farming activities have occurred on southern boundary of subject site behind creek-line</li> <li>• Addition of residential building added to adjacent property to the east</li> <li>• Increased vegetation on surrounding lands</li> <li>• Other small additions of infrastructure on surrounding lands</li> </ul>
2002	<ul style="list-style-type: none"> <li>• Moderate resolution colour aerial photo</li> <li>• Large shed has been added to the existing infrastructure</li> <li>• A fenced paddock area has been added to front (northern end) of property</li> <li>• Market garden at adjacent property to the east appears to have been removed</li> <li>• Areas of surrounding land has been cleared of vegetation</li> </ul>
2013	<ul style="list-style-type: none"> <li>• Moderate resolution aerial colour photo</li> <li>• No significant changes to the subject site and surrounding properties</li> </ul>
2016	<ul style="list-style-type: none"> <li>• High resolution aerial colour photo</li> <li>• No significant changes to subject site</li> <li>• Significant infrastructure has been added to southern adjacent property</li> <li>• No other significant changes to surrounding lands</li> </ul>
2017	<ul style="list-style-type: none"> <li>• Moderate resolution aerial colour photo</li> <li>• Increase in vegetation on subject site and along creek-line</li> <li>• No significant changes to the site or surroundings</li> </ul>

**Table 4:** A summary of the historical photograph review - 457 Bells Line of Road Kurmond

Year	Description
1965	<ul style="list-style-type: none"> <li>• Moderate resolution black and white aerial photo</li> <li>• Subject site appears to contain numerous buildings</li> <li>• Three dams present on subject site</li> <li>• Mostly cleared, scattered trees surrounding main property and some toward the south-east corner of the property</li> <li>• Surrounding properties to the north contain residential infrastructure and dense bushland</li> <li>• Vacant land surrounding subject site to the south</li> </ul>
1970	<ul style="list-style-type: none"> <li>• Low resolution black and white aerial photo</li> <li>• No significant changes to subject site</li> <li>• Increased infrastructure to surrounding properties to the north</li> </ul>

1982	<ul style="list-style-type: none"> <li>• Moderate resolution colour aerial photo</li> <li>• No significant changes to subject property</li> <li>• Some of the trees have been cleared on the subject site</li> <li>• Residential properties have been added to surrounding lands to the west, south and east</li> <li>• Increase in infrastructure to the north of the subject site</li> <li>• Appearance of market gardens to the adjacent properties to the north</li> <li>• Significant bushland has been cleared to the north and south of the subject site</li> </ul>
1991	<ul style="list-style-type: none"> <li>• Moderate resolution colour aerial photo</li> <li>• Residential estate has been added to the western end of the site</li> <li>• Most of the market garden areas have been removed</li> <li>• No significant changes to the subject site apart from sum increase in vegetation surrounding the buildings and small dam removed</li> <li>• No other significant changes to surrounding properties</li> </ul>
2002	<ul style="list-style-type: none"> <li>• Moderate resolution colour aerial photo</li> <li>• No significant changes to the subject site apart from increase in trees</li> <li>• Increase in vegetation on surrounding properties</li> </ul>
2013	<ul style="list-style-type: none"> <li>• Moderate resolution aerial colour photo</li> <li>• No significant changes to the subject site and surrounding properties</li> <li>• Slight increase in vegetation (trees) within the subject site</li> </ul>
2016	<ul style="list-style-type: none"> <li>• High resolution aerial colour photo</li> <li>• No significant changes to subject site</li> <li>• No other significant changes to surrounding lands</li> </ul>

## 6.2 Information Gaps

A site history has been established using the various sources as outlined above. However, the following information gaps have been identified:

1. Inferences have been drawn based on 'point in time' aerial photographs;
2. No information pertaining to the sites pre-1965 was viewed;

Regarding the information available, it is considered that the quality of the information is consistent with industry standards and that the information is of high integrity with respect to the historical use of the site overall.

## 7.0 RESULTS

### 7.1. Site Observations

**79 Bells Lane, Kurmond:** The site displayed a semi-rural setting with numerous fenced open grassed paddocks, scattered mature trees and an empty small dam towards the rear of the property (north-east). Towards the front of the property (south-west to Bells Lane) displayed a residential dwelling, small sheds and stables. The property was gently to moderate sloping to the north-east.

**95 Bells Lane, Kurmond:** The site was situated adjacent to 79 bells lane and consisted of open grassed paddocks with smaller fenced off areas at the front half of the property. A small dam was observed at approximately the bottom half of the property including a small shed along the eastern edge boundary. A residential dwelling, garage and an inground pool was present at the property entrance adjacent to Bells Lane. The property was gently sloping to the north-east.

**100 Bells Lane, Kurmond:** The site displayed a semi-rural setting with numerous fenced open grass paddocks (horse yards) with a small empty dam towards the middle of the property. Clusters of open-woodland mature trees were present towards the rear of the property (south) which lined an existing creek-line which flowed across the property (east-west). The front half of the property showed an existing dam towards the front site boundary with a large shed and a residential dwelling occupying a fenced off area directly behind the front paddock. The property was gently sloping to the south toward the creek-line.

**457 Bells Line of Road, Kurmond:** The site was bounded by Bells Line of Road to the north and Bells Lane to the south. A dilapidated house was situated toward the centre of the property (nearby the dam) including numerous surrounding sheds in poor condition. The majority of the property consisted of open grassed areas and clumps of mature trees. The property was gently sloping toward the south (Bells Lane).

### 7.2 Potential Risks to Onsite Receptors

It is considered that:

There is a risk that contaminants associated with unbounded storage on 79 Bells Lane, the contaminants include:

- Hydrocarbons;
- Heavy metals;
- Pesticides;
- Asbestos.

There is a risk that contaminants associated with previous historical farm shed and residence on 457 Bells Line of Road, the contaminants include:

- Heavy Metals;
- Pesticides;
- Hydrocarbons
- Asbestos.

## **7.3 Receptors and Pathways**

### **7.3.1 Human Health**

Human exposure to the potential contaminants identified is currently considered *LOW* as:

- The site is privately owned;
- Access is limited;

This risk would increase too *High* for any personnel involved in building demolition works or surface excavations without appropriate safe work methods and personal protective equipment.

### **7.3.2 Sensitive Receptors**

Future inhabitants and persons working on the civil portions of the proposed subdivisions across all the proposed allotments.

#### **79 Bells Lane, Kurmond:**

- An overland flowpath traversing the north western property boundary of the site

#### **95 Bells Lane, Kurmond:**

- An overland flowpath traversing the north western property boundary of the site

#### **100 Bells Lane, Kurmond:**

- An overland flowpath traversing the allotment within the southern portion of the allotment

#### **457 Bells Line of Road, Kurmond:**

- An overland flowpath approximately 20m to the south west of the proposed.

### **7.3.3 Potential for Migration of Contaminants**

The potential for contaminants to migrate is currently considered *Low*.

## **7.4 Recommendations**

Further investigation in the form of a Targeted Phase 2 Investigation of the areas of concern on allotments 79 bells Lane and 457 Bells Line of Road for the contaminants of concern is warranted.

## 8 CONCLUSIONS AND RECOMMENDATIONS

Based on the data and evidence collected during the site inspections and site history review, the findings of the Environmental Site Assessments are as follows:

**79 Bells Lane, Kurmond:** The site displayed a semi-rural setting with numerous fenced open grassed paddocks, scattered mature trees and an empty small dam towards the rear of the property (north-east). Towards the front of the property (south-west to Bells Lane) displayed a residential dwelling, small sheds and stables. The property was gently to moderate sloping to the north-east.

**95 Bells Lane, Kurmond:** The site was situated adjacent to 79 bells lane and consisted of open grassed paddocks with smaller fenced off areas at the front half of the property. A small dam was observed at approximately the bottom half of the property including a small shed along the eastern edge boundary. A residential dwelling, garage and an inground pool was present at the property entrance adjacent to Bells Lane. The property was gently sloping to the north-east.

**100 Bells Lane, Kurmond:** The site displayed a semi-rural setting with numerous fenced open grass paddocks (horse yards) with a small empty dam towards the middle of the property. Clusters of open-woodland mature trees were present towards the rear of the property (south) which lined an existing creek-line which flowed across the property (east-west). The front half of the property showed an existing dam towards the front site boundary with a large shed and a residential dwelling occupying a fenced off area directly behind the front paddock. The property was gently sloping to the south toward the creek-line.

**457 Bells Line of Road, Kurmond:** The site was bounded by Bells Line of Road to the north and Bells Lane to the south. A dilapidated house was situated toward the centre of the property (nearby the dam) including numerous surrounding sheds in poor condition. The majority of the property consisted of open grassed areas and clumps of mature trees. The property was gently sloping toward the south (Bells Lane).

The sites are not listed on any EPA records.

### Areas of Concern

#### **79 Bells Lane, Kurmond:**

- Unbundled storage of building materials including storage drums.

#### **95 Bells Lane, Kurmond:**

- Nil

#### **100 Bells Lane, Kurmond:**

- Nil

#### **457 Bells Line of Road, Kurmond:**

- Remnant residence and farm shed.
- Stockpiled rubbish

3. Taking into consideration all the above, it is considered that further investigation in the form of a targeted Phase 2 Investigation on allotments 79 bells Lane and 457 Bells Line of Road of the areas of concern for the contaminants of concern is warranted.
4. Subject to outcome of the above items, it is considered that the site is or can be remediated suitable to the proposed land use.



## 9 LIMITATIONS STATEMENT

EnviroTech Pty. Ltd. Pty. Ltd. has undertaken the following report in accordance with the scope of works set out between EnviroTech Pty. Ltd. and the client. EnviroTech Pty. Ltd. derived the data in this report primarily from the site and soil assessment conducted on the date of site inspection. The impacts of future events may require future investigation of the site and subsequent data analysis, together with a re-evaluation of the conclusions and recommendations of this report.

In preparing this report, EnviroTech Pty. Ltd has relied upon, and assumed accurate, certain site information provided by the client and other persons. Except as otherwise stated in the report, we have not attempted to verify the accuracy or completeness of any such information. EnviroTech Pty. Ltd. accepts no liability or responsibility whatsoever for or in respect to any use or reliance upon this report by any third party.

The information contained within this report have been prepared exclusively for the client. Envirotech have prepared the report to address the risk associated with scale of the works. The report has been prepared with a degree of care and skill ordinarily exercised in similar investigations by reputable members of the environmental industry in Australia. No other warranty, expressed or implied, is made or intended. This report is to be read in its entirety including attachments and appendices and should not read in individual sections.

A third party should not rely upon the information prior to making an assessment that the scope of work conducted meets their specific needs. Envirotech cannot be held liable for third party reliance on this document.

Envirotech's professional opinions are based upon its professional judgment, experience, training and results from analytical data. In some cases, further testing and analysis may be required, thus producing different results and/or opinions. Envirotech Pty Ltd has limited its investigation to the scope agreed upon with its client.

- *Guidelines for the NSW Site Auditor Scheme* (NSW DEC, 2006).
- *Guidelines for Consultants Reporting on Contaminated Sites* (NSW EPA, 2000).
- *Guidelines on the Investigation Levels for Soil and Groundwater*, National Environmental Protection Measure 1999, 2013 Amendment (NEPC, 2013).
- Australian Standard AS 4482.1 *Guide to the sampling and investigation of potentially contaminated soil. Part 1: Non-volatile and semi-volatile compounds.*
- Australian Standard AS 4482.2 *Guide to the sampling and investigation of potentially contaminated soil. Part 2: Volatile substances.*
- *Sampling Design Guidelines* (NSW EPA, 1995).
- *Waste Classification Guidelines Part 1: Classifying Waste* (NSW DECCW, 2014).
- *Guidelines for Implementing the Protection of the Environment Operations (Underground Petroleum Storage Systems) Regulation 2008* (NSW DECCW, 2009).
- *Guidelines for the Assessment and Management of Groundwater Contamination* (NSW DEC, 2007).
- NSW Spatial Information Exchange (<http://maps.six.nsw.gov.au/>)

## **APPENDIX A: SITE PHOTOS**



## 79 Bells Lane Kurmond



View looking north



View looking south from dam towards residence





Open grassed paddocks and woodland forest



Looking north to creek





Abandoned pile of concrete, rock and Besser block



Stored pile of steel, plastic and cement tile





Small corrugated iron shed/tack room



View inside shed



## 95 Bells Lane Kurmond



View looking downslope to the north-east



View of open grassed paddocks east-west facing



## 100 Bells Lane Kormondy



Fenced grazing paddocks looking upslope towards the north



Fenced grazing paddocks looking downslope towards the south





Non-grazed land



Open woodlands and grassed areas





Stored wood, ceramics, plastic and steel



Steel shed and fencing



## 457 Bells Line of Road Kurmond



Looking downslope to the south



Looking upslope to the north – Unidentified piles of material





Old corrugated iron shed



Inside shed – scattered tyres, plastics, bricks and furniture





Old fuel storage tank and container



Rubbish build-up along fence-line including tyres and wood





Rubbish stockpile of old car parts, sheets of corrugated iron, steel fencing and wire



Uninhabited dilapidated house





Property in very poor condition



Scattered rubbish lying around perimeter of house





More rubbish including an old steel drum



Scattered and fragmented plasterboard – potential asbestos contaminant



## **APPENDIX B: LOTSEARCH**



# LOTSEARCH

LOTSEARCH ENVIRO PROFESSIONAL

**Date: 11 Sep 2018 14:21:30**

**Reference: LS004141**

**Address: 457 Bells Line of Road, Kurmond, NSW 2757**

**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.

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## Location Confidences

Where Lotsearch has had to georeference features from supplied addresses, a location confidence has been assigned to the data record. This indicates a confidence to the positional accuracy of the feature. Where applicable, a confidence is given under the field heading “LocConf” or “Location Confidence”.

Location Confidence	Description
Premise Match	Georeferenced to the site location / premise or part of site
Area Match	Georeferenced with the confidence of the general/approximate area
Road Match	Georeferenced to the road or rail
Road Intersection	Georeferenced to the road intersection
Buffered Point	Feature is a buffered point
Network of Features	Georeferenced to a network of features



## 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 Onsite	No. Features within 100m	No. Features within Buffer
Cadastre Boundaries	Dept. Finance, Services & Innovation	11/09/2018	11/09/2018	Daily	-	-	-	-
Topographic Data	Dept. Finance, Services & Innovation	17/07/2018	17/07/2018	As required	-	-	-	-
List of NSW contaminated sites notified to EPA	Environment Protection Authority	30/08/2018	02/08/2018	Monthly	1000	0	0	1
Contaminated Land Records of Notice	Environment Protection Authority	04/09/2018	04/09/2018	Monthly	1000	0	0	1
Former Gasworks	Environment Protection Authority	30/08/2018	11/10/2017	Monthly	1000	0	0	0
National Waste Management Site Database	Geoscience Australia	07/08/2018	07/03/2017	Quarterly	1000	0	0	0
EPA PFAS Investigation Program	Environment Protection Authority	27/08/2018	27/08/2018	Monthly	2000	0	0	0
EPA Other Sites with Contamination Issues	Environment Protection Authority	11/01/2018	11/01/2018	As required	1000	0	0	0
Licensed Activities under the POEO Act 1997	Environment Protection Authority	31/08/2018	31/08/2018	Monthly	1000	0	0	0
Delicensed POEO Activities still Regulated by the EPA	Environment Protection Authority	31/08/2018	31/08/2018	Monthly	1000	0	0	0
Former POEO Licensed Activities now revoked or surrendered	Environment Protection Authority	31/08/2018	31/08/2018	Monthly	1000	0	3	3
UPSS Environmentally Sensitive Zones	Environment Protection Authority	14/04/2015	12/01/2010	As required	1000	1	1	1
UBD Business to Business Directory 1991 (Premise & Intersection Matches)	Hardie Grant			Not required	150	0	0	0
UBD Business to Business Directory 1991 (Road & Area Matches)	Hardie Grant			Not required	150	-	8	8
UBD Business to Business Directory 1986 (Premise & Intersection Matches)	Hardie Grant			Not required	150	0	0	0
UBD Business to Business Directory 1986 (Road & Area Matches)	Hardie Grant			Not required	150	-	0	0
UBD Business Directory 1982 (Premise & Intersection Matches)	Hardie Grant			Not required	150	0	0	0
UBD Business Directory 1982 (Road & Area Matches)	Hardie Grant			Not required	150	-	0	0
UBD Business Directory 1970 (Premise & Intersection Matches)	Hardie Grant			Not required	150	0	0	0
UBD Business Directory 1970 (Road & Area Matches)	Hardie Grant			Not required	150	-	4	4
UBD Business Directory 1961 (Premise & Intersection Matches)	Hardie Grant			Not required	150	0	0	0
UBD Business Directory 1961 (Road & Area Matches)	Hardie Grant			Not required	150	-	5	5
UBD Business Directory 1950 (Premise & Intersection Matches)	Hardie Grant			Not required	150	0	0	0
UBD Business Directory 1950 (Road & Area Matches)	Hardie Grant			Not required	150	-	2	2
UBD Business Directory Drycleaners & Motor Garages/Service Stations (Premise & Intersection Matches)	Hardie Grant			Not required	500	0	0	0
UBD Business Directory Drycleaners & Motor Garages/Service Stations (Road & Area Matches)	Hardie Grant			Not required	500	-	3	19
Points of Interest	Dept. Finance, Services & Innovation	17/07/2018	17/07/2018	Quarterly	1000	0	0	6
Tanks (Areas)	Dept. Finance, Services & Innovation	17/07/2018	17/07/2018	Quarterly	1000	0	0	0
Tanks (Points)	Dept. Finance, Services & Innovation	17/07/2018	17/07/2018	Quarterly	1000	0	0	0

Dataset Name	Custodian	Supply Date	Currency Date	Update Frequency	Dataset Buffer (m)	No. Features Onsite	No. Features within 100m	No. Features within Buffer
Major Easements	Dept. Finance, Services & Innovation	17/07/2018	17/07/2018	As required	1000	0	0	2
State Forest	Dept. Finance, Services & Innovation	18/01/2018	18/01/2018	As required	1000	0	0	0
NSW National Parks and Wildlife Service Reserves	NSW Office of Environment & Heritage	18/01/2018	30/09/2017	Annually	1000	0	0	0
Hydrogeology Map of Australia	Commonwealth of Australia (Geoscience Australia)	08/10/2014	17/03/2000	As required	1000	1	1	1
Botany Groundwater Management Zones	NSW Department of Primary Industries	15/03/2018	01/10/2005	As required	1000	0	0	0
Groundwater Boreholes	NSW Dept. of Primary Industries - Water NSW; Commonwealth of Australia (Bureau of Meteorology)	24/07/2018	23/07/2018	Annually	2000	0	0	32
Geological Units 1:100,000	NSW Dept. of Industry, Resources & Energy	20/08/2014		None planned	1000	1	-	2
Geological Structures 1:100,000	NSW Dept. of Industry, Resources & Energy	20/08/2014		None planned	1000	0	-	2
Naturally Occurring Asbestos Potential	NSW Dept. of Industry, Resources & Energy	04/12/2015	24/09/2015	Unknown	1000	0	0	0
Soil Landscapes	NSW Office of Environment & Heritage	12/08/2014		None planned	1000	1	-	2
Atlas of Australian Soils	CSIRO	19/05/2017	17/02/2011	As required	1000	1	1	2
Standard Local Environmental Plan Acid Sulfate Soils	NSW Planning and Environment	07/10/2016	07/10/2016	As required	500	1	-	-
Atlas of Australian Acid Sulfate Soils	CSIRO	19/01/2017	21/02/2013	As required	1000	1	1	2
Dryland Salinity - National Assessment	National Land and Water Resources Audit	18/07/2014	12/05/2013	None planned	1000	0	0	0
Dryland Salinity Potential of Western Sydney	NSW Office of Environment & Heritage	12/05/2017	01/01/2002	None planned	1000	1	1	3
Mining Subsidence Districts	Dept. Finance, Services & Innovation	13/07/2017	01/07/2017	As required	1000	0	0	0
SEPP 14 - Coastal Wetlands	NSW Planning and Environment	17/12/2015	24/10/2008	Annually	1000	0	0	0
SEPP 26 - Littoral Rainforest	NSW Planning and Environment	17/12/2015	05/02/1988	Annually	1000	0	0	0
SEPP 71 - Coastal Protection	NSW Planning and Environment	17/12/2015	01/08/2003	Annually	1000	0	0	0
SEPP Major Developments 2005	NSW Planning and Environment	09/03/2013	25/05/2005	Under Review	1000	0	0	0
SEPP Strategic Land Use Areas	NSW Planning and Environment	01/08/2017	28/01/2014	Annually	1000	0	0	1
LEP - Land Zoning	NSW Planning and Environment	23/07/2018	29/06/2018	Quarterly	1000	2	3	9
LEP - Minimum Subdivision Lot Size	NSW Planning and Environment	23/07/2018	13/07/2018	Quarterly	0	1	-	-
LEP - Height of Building	NSW Planning and Environment	09/08/2018	22/06/2018	Quarterly	0	1	-	-
LEP - Floor Space Ratio	NSW Planning and Environment	23/07/2018	06/07/2018	Quarterly	0	0	-	-
LEP - Land Application	NSW Planning and Environment	23/07/2018	29/06/2018	Quarterly	0	1	-	-
LEP - Land Reservation Acquisition	NSW Planning and Environment	23/07/2018	13/07/2018	Quarterly	0	0	-	-
State Heritage Items	NSW Office of Environment & Heritage	04/04/2018	30/09/2016	Quarterly	1000	0	0	0
Local Heritage Items	NSW Planning and Environment	04/04/2018	23/03/2018	Quarterly	1000	0	0	2
Bush Fire Prone Land	NSW Rural Fire Service	08/08/2018	31/07/2018	Quarterly	1000	1	2	3
Remnant Vegetation of the Cumberland Plain	NSW Office of Environment & Heritage	07/10/2014	04/08/2011	Unknown	1000	3	4	14
RAMSAR Wetlands	Commonwealth of Australia Department of the Environment	08/10/2014	24/06/2011	As required	1000	0	0	0
Groundwater Dependent Ecosystems	Bureau of Meteorology	14/08/2017	15/05/2017	Unknown	1000	0	0	2
Inflow Dependent Ecosystems Likelihood	Bureau of Meteorology	14/08/2017	15/05/2017	Unknown	1000	0	0	4

Dataset Name	Custodian	Supply Date	Currency Date	Update Frequency	Dataset Buffer (m)	No. Features Onsite	No. Features within 100m	No. Features within Buffer
NSW BioNet Species Sightings	NSW Office of Environment & Heritage	29/08/2018	29/08/2018	Daily	10000	-	-	-



Aerial Imagery 2017

457 Bells Line of Road, Kurmond, NSW 2757



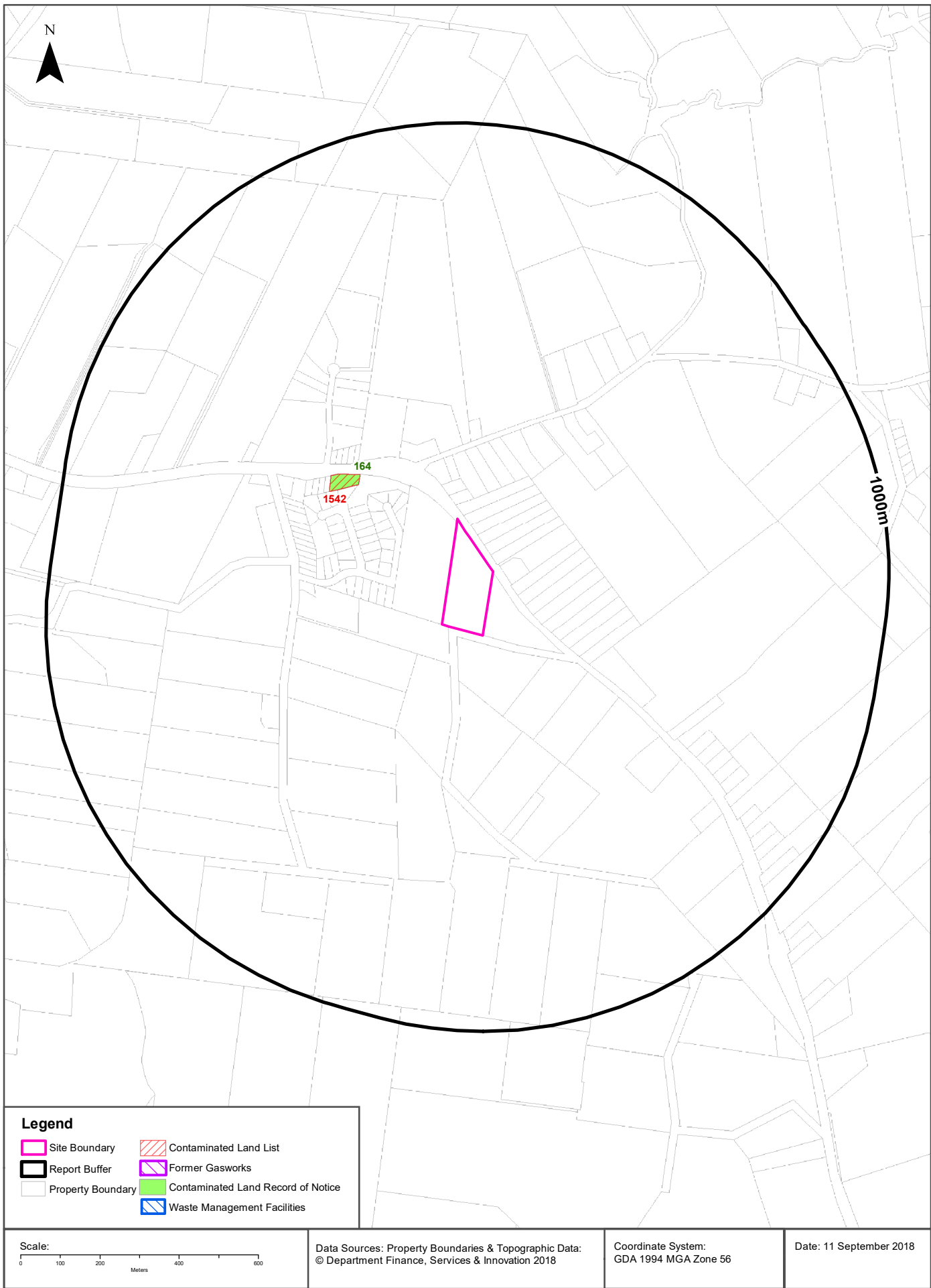
**Legend**

- Site Boundary
- Buffer 150m

<p>Scale:</p>	<p>Data Source Aerial Imagery: © 2018 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: 10 September 2018</p>
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# Contaminated Land & Waste Management Facilities

457 Bells Line of Road, Kurmond, NSW 2757





# Contaminated Land & Waste Management Facilities

457 Bells Line of Road, Kurmond, NSW 2757

## 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 (m)	Direction
1542	BP Service Station	501 Bells Line of road ROAD	Kurmond	Service Station	Contamination formerly regulated under the CLM Act	Current EPA List	Premise Match	265m	North West

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 & Waste Management Facilities

457 Bells Line of Road, Kurmond, NSW 2757

## Contaminated Land: Records of Notice

Record of Notices within the dataset buffer:

Map Id	Name	Address	Suburb	Notices	Area No	Location Confidence	Distance	Direction
164	BP Service Station	501 Bells Line Road	Kurmond	1 former	3341	Premise Match	265m	North West

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

## 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 (m)	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>



# EPA PFAS Investigation Program

457 Bells Line of Road, Kurmond, NSW 2757

## EPA PFAS Investigation Program

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

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

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

# EPA Other Sites with Contamination Issues

457 Bells Line of Road, Kurmond, NSW 2757

## 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

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

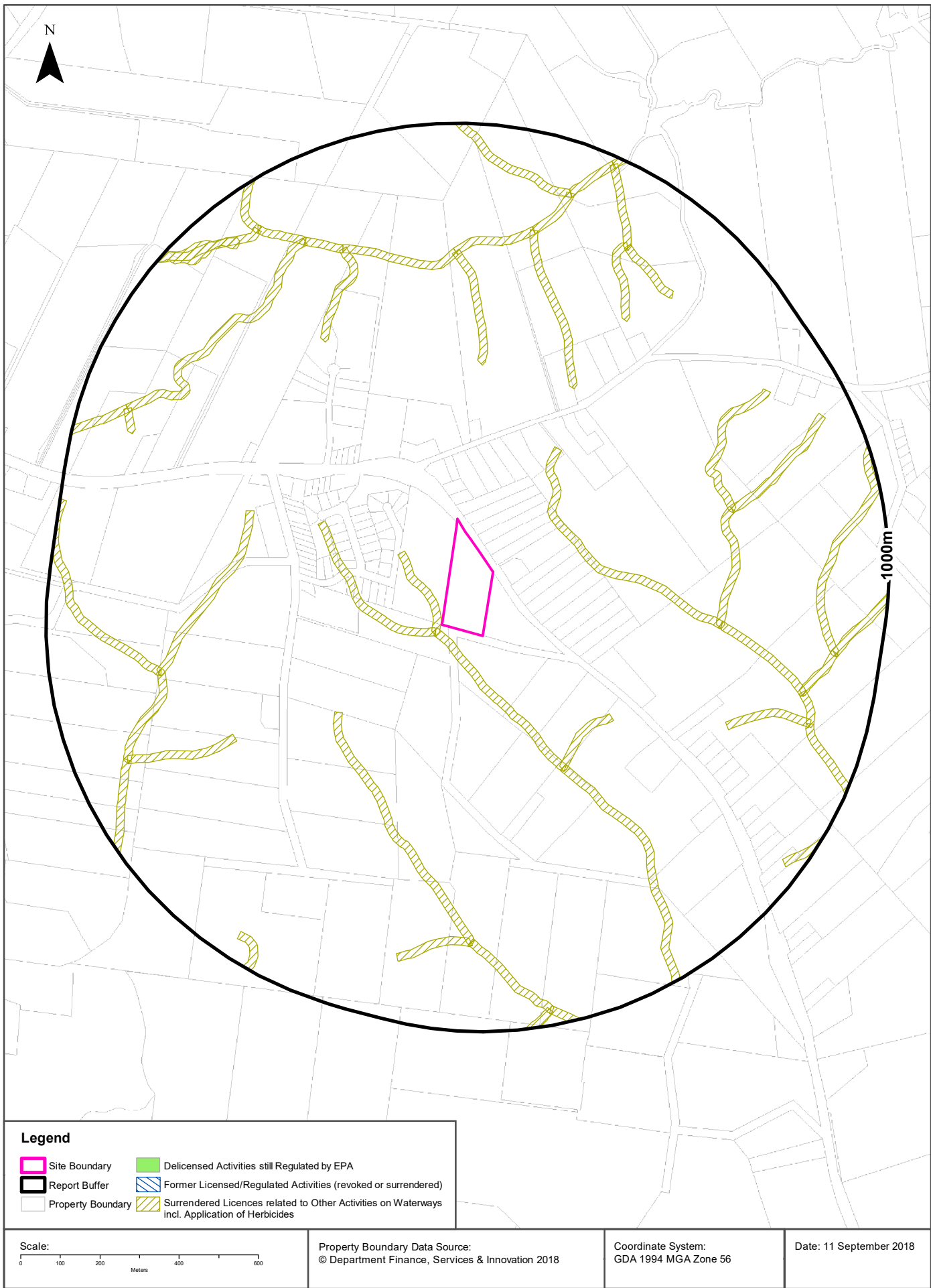
457 Bells Line of Road, Kurmond, NSW 2757

## 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





## EPA Activities

457 Bells Line of Road, Kurmond, NSW 2757

### 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:

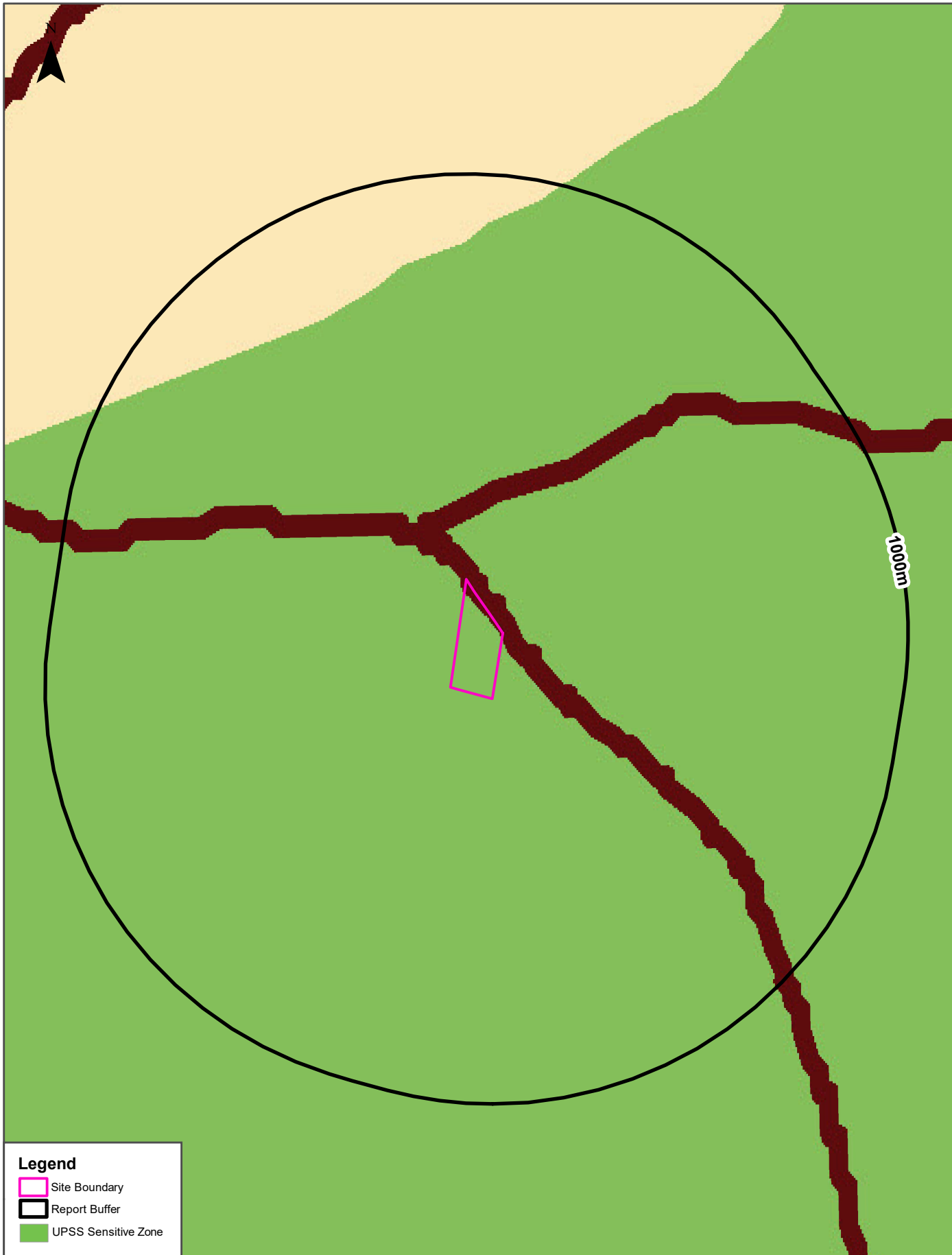
Licence No	Organisation	Location	Status	Issued Date	Activity	Loc Conf	Distance	Direction
4653	LUHRMANN ENVIRONMENT MANAGEMENT PTY LTD	WATERWAYS THROUGHOUT NSW	Surrendered		Other Activities / Non Scheduled Activity - Application of Herbicides	Network of Features	2m	-
4838	Robert Orchard	Various Waterways throughout New South Wales - SYDNEY NSW 2000	Surrendered		Other Activities / Non Scheduled Activity - Application of Herbicides	Network of Features	2m	-
6630	SYDNEY WEED & PEST MANAGEMENT PTY LTD	WATERWAYS THROUGHOUT NSW - PROSPECT, NSW, 2148	Surrendered		Other Activities / Non Scheduled Activity - Application of Herbicides	Network of Features	2m	-

Former Licensed Activities Data Source: Environment Protection Authority

© State of New South Wales through the Environment Protection Authority

# UPSS Sensitive Zones

457 Bells Line of Road, Kurmond, NSW 2757



## Legend

- Site Boundary
- Report Buffer
- UPSS Sensitive Zone

Scale:  
0 100 200 400 600  
Meters

UPSS Data Source: Environment Protection Authority  
© Dept of Environment, Climate Change & Water (NSW)

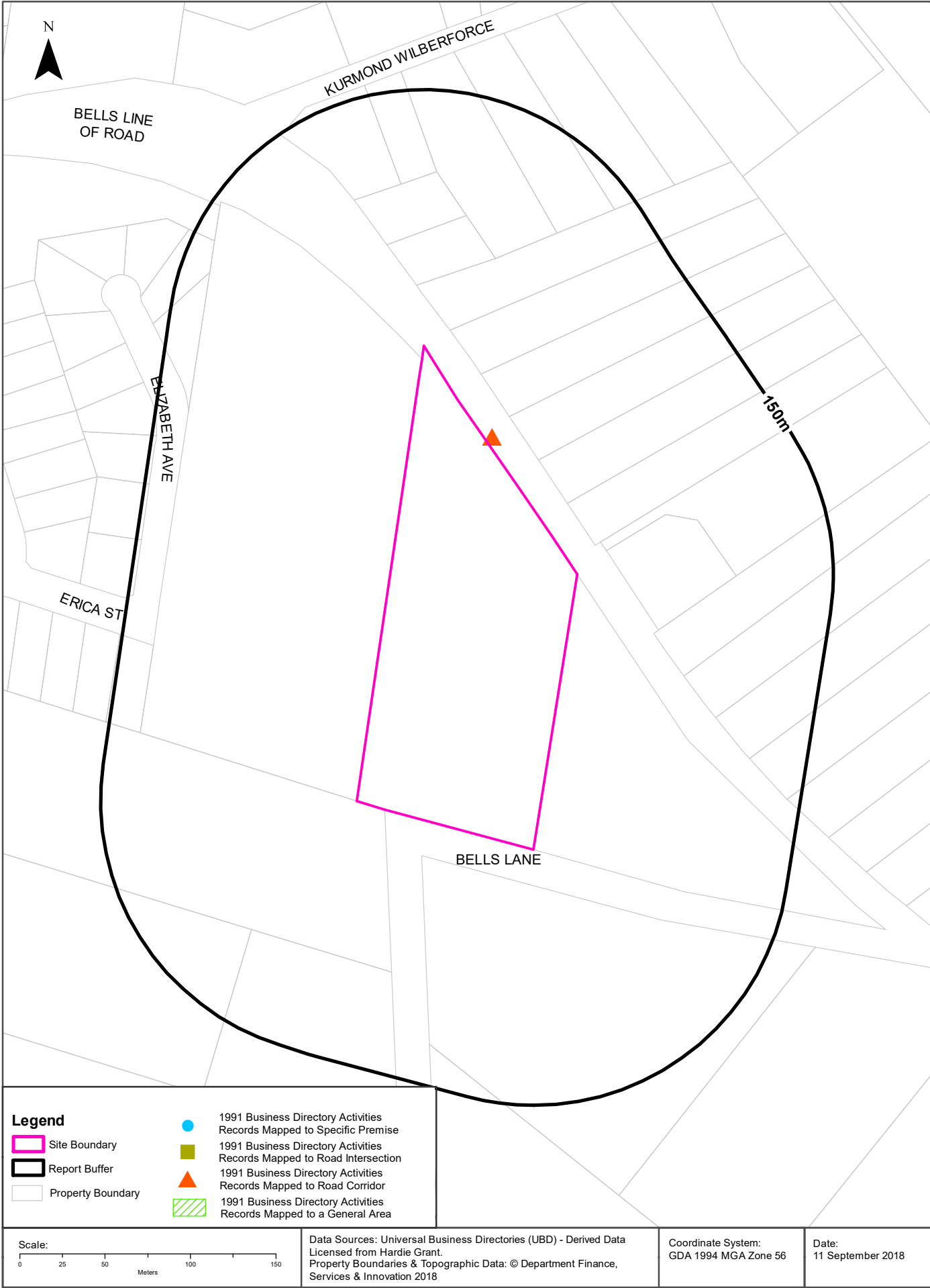
Coordinate System:  
GDA 1994 MGA Zone 56

Date: 11 September 2018



# 1991 Historical Business Directory Records

457 Bells Line of Road, Kurmond, NSW 2757



# Historical Business Directories

457 Bells Line of Road, Kurmond, NSW 2757

## 1991 Business to Business Directory Records Premise or Road Intersection Matches

Records from the 1991 UBD Business to Business Directory, mapped to a premise or road intersection, within the dataset buffer:

Business Activity	Premise	Ref No.	Location Confidence	Distance to Feature Point	Direction
N/A	No records in buffer				

Business Directory Content Derived from Universal Business Directories (UBD) - Licensed from Hardie Grant

## 1991 Business to Business Directory Records Road or Area Matches

Records from the 1991 UBD Business to Business Directory, 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:

Business Activity	Premise	Ref No.	Location Confidence	Distance to Road Corridor or Area
Business Agents &/or Brokers	Combined Real Estate, Lot 1, Bells Line of Rd., Kurmond. 2757	37702	Road Match	0m
Agricultural Machinery Dealers & Hirers	Kurmond Farm Machinery, Bells Line of Rd., Kurmond 2757	33666	Road Match	0m
Agricultural Machinery Repairs	Kurmond Farm Machinery, Bells Line of Rd., Kurmond 2757	33671	Road Match	0m
Agricultural Spray Equipment Mfrs &/or Dists	Kurmond Farm Machinery, Bells Line of Rd., Kurmond 2757	33674	Road Match	0m
Tractor Mfrs &/or Imps &/or Dists	Kurmond Farm Machinery, Bells Line of Road Kurmond 2757	64777	Road Match	0m
Tractor Repair Specialists	Kurmond Farm Machinery, Bells Line of Road Kurmond 2757	64783	Road Match	0m
Tractor Sales &/or Service	Kurmond Farm Machinery, Bells Line of Road Kurmond 2757	64789	Road Match	0m
Tractor Spare Parts Mfrs &/or Imps &/or Dists	Kurmond Farm Machinery, Bells Line of Road Kurmond 2757	64793	Road Match	0m

Business Directory Content Derived from Universal Business Directories (UBD) - Licensed from Hardie Grant



## Historical Business Directories

457 Bells Line of Road, Kurmond, NSW 2757

### 1986 Business to Business Directory Records Premise or Road Intersection Matches

Records from the 1986 UBD Business to Business Directory, mapped to a premise or road intersection, within the dataset buffer:

Business Activity	Premise	Ref No.	Location Confidence	Distance to Feature Point	Direction
N/A	No records in buffer				

Business Directory Content Derived from Universal Business Directories (UBD) - Licensed from Hardie Grant

### 1986 Business to Business Directory Records Road or Area Matches

Records from the 1986 UBD Business to Business Directory, 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:

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

Business Directory Content Derived from Universal Business Directories (UBD) - Licensed from Hardie Grant

## Historical Business Directories

457 Bells Line of Road, Kurmond, NSW 2757

### 1982 Business Directory Records Premise or Road Intersection Matches

Records from the 1982 UBD Business Directory, mapped to a premise or road intersection, within the dataset buffer:

Business Activity	Premise	Ref No.	Location Confidence	Distance to Feature Point	Direction
N/A	No records in buffer				

Business Directory Content Derived from Universal Business Directories (UBD) - Licensed from Hardie Grant

### 1982 Business Directory Records Road or Area Matches

Records from the 1982 UBD Business Directory, 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:

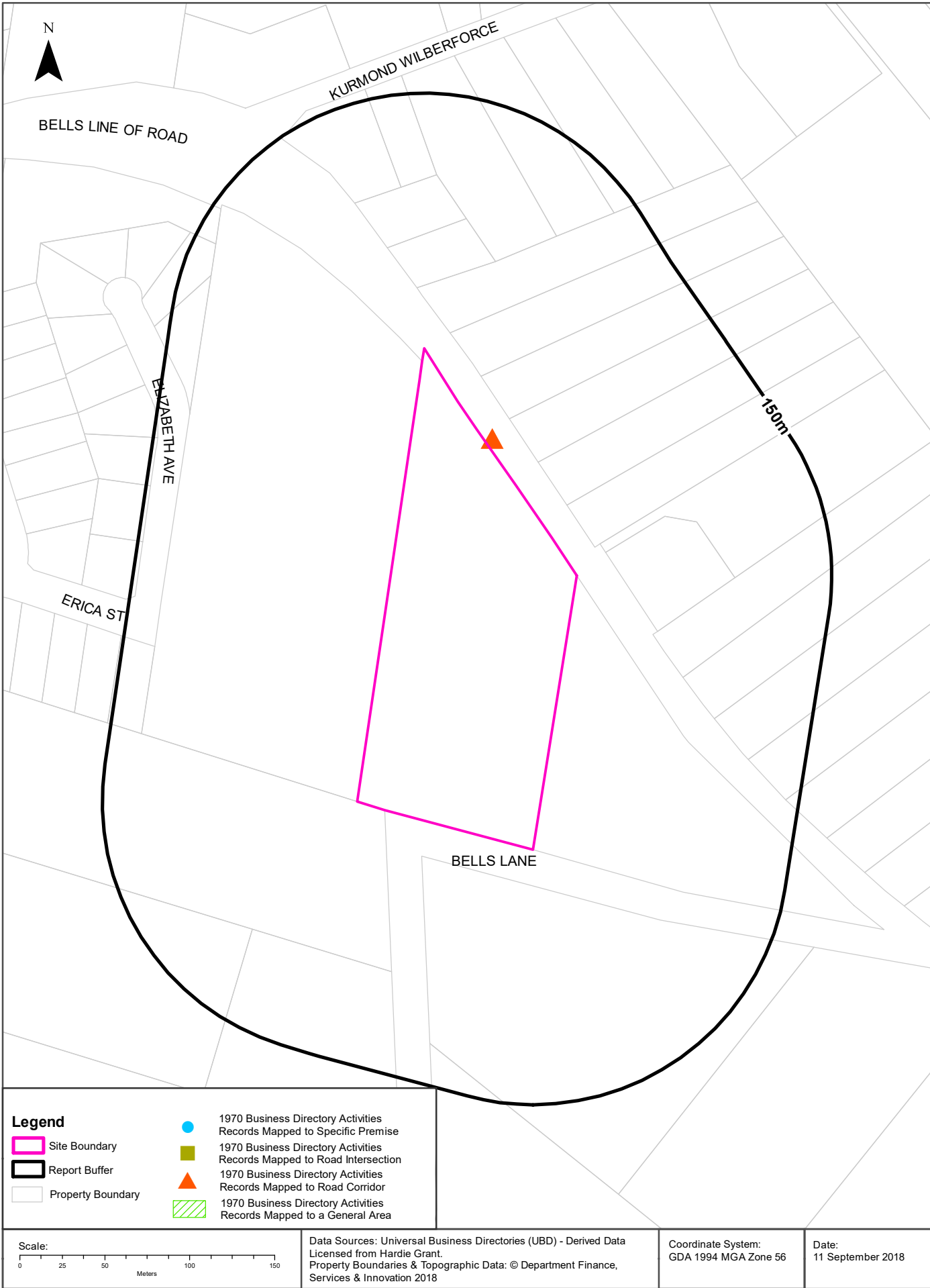
Business Activity	Premise	Ref No.	Location Confidence	Distance to Road Corridor or Area
N/A	No records in buffer			

Business Directory Content Derived from Universal Business Directories (UBD) - Licensed from Hardie Grant



# 1970 Historical Business Directory Records

457 Bells Line of Road, Kurmond, NSW 2757



## Historical Business Directories

457 Bells Line of Road, Kurmond, NSW 2757

### 1970 Business Directory Records Premise or Road Intersection Matches

Records from the 1970 UBD Business Directory, mapped to a premise or road intersection, within the dataset buffer:

Business Activity	Premise	Ref No.	Location Confidence	Distance to Feature Point	Direction
N/A	No records in buffer				

Business Directory Content Derived from Universal Business Directories (UBD) - Licensed from Hardie Grant

### 1970 Business Directory Records Road or Area Matches

Records from the 1970 UBD Business Directory, 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:

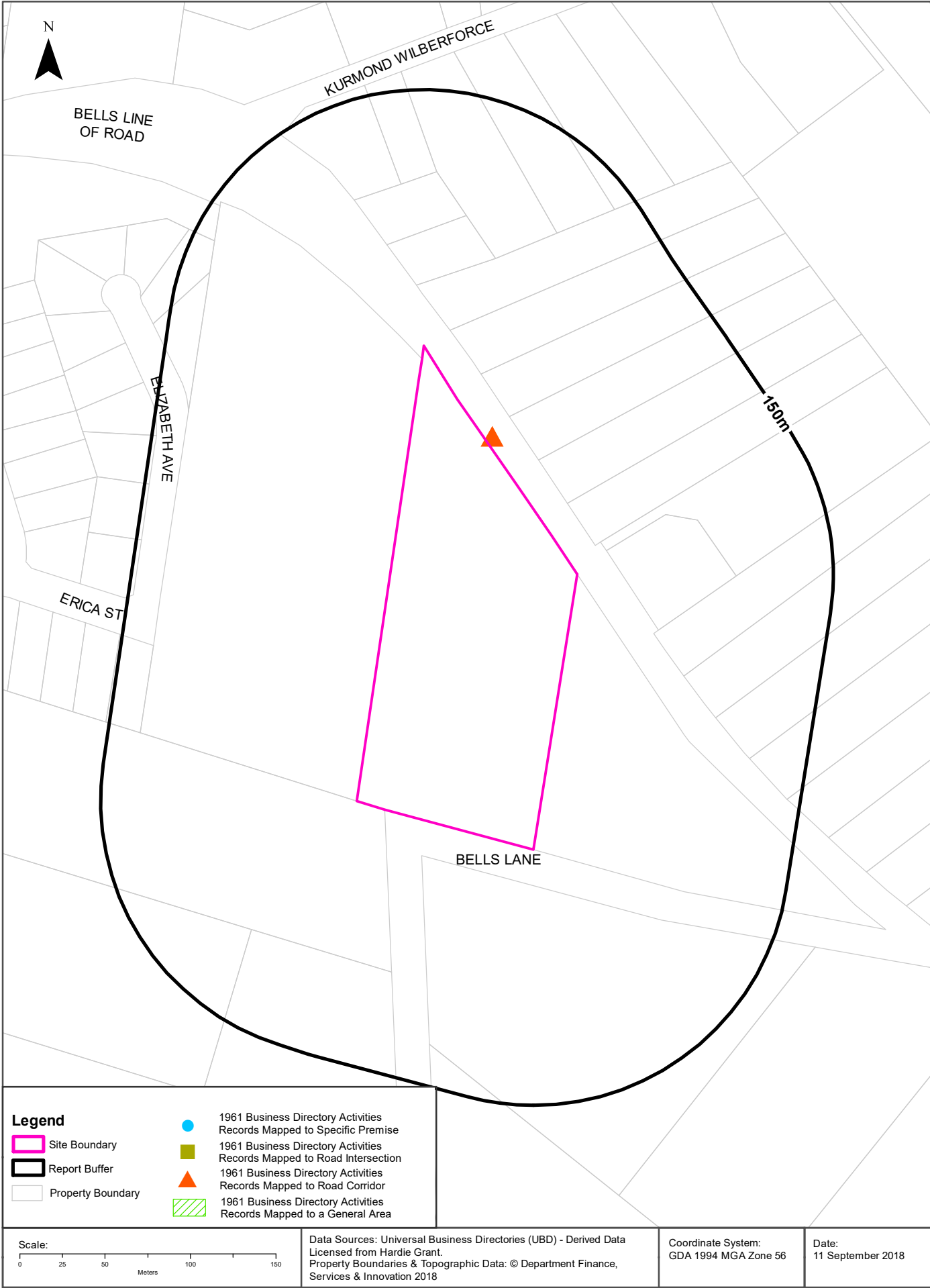
Business Activity	Premise	Ref No.	Location Confidence	Distance to Road Corridor or Area
GROCERS & GENERAL STOREKEEPERS	Armstrong, E., Main Rd. Kurmond	543179	Road Match	0m
MOTOR GARAGES & ENGINEERS	Bells Line Garage, Bells Line Rd. Kurmond	543181	Road Match	0m
MOTOR TOWING SERVICES	Bells Line Garage, Bells Line Rd. Kurmond	543183	Road Match	0m
BUILDERS &/OR BUILDING CONTRACTORS	Carr, W. L., Main Rd. Kurmond	543174	Road Match	0m

Business Directory Content Derived from Universal Business Directories (UBD) - Licensed from Hardie Grant



# 1961 Historical Business Directory Records

457 Bells Line of Road, Kurmond, NSW 2757



# Historical Business Directories

457 Bells Line of Road, Kurmond, NSW 2757

## 1961 Business Directory Records Premise or Road Intersection Matches

Records from the 1961 UBD Business Directory, mapped to a premise or road intersection, within the dataset buffer:

Business Activity	Premise	Ref No.	Location Confidence	Distance to Feature Point	Direction
N/A	No records in buffer				

Business Directory Content Derived from Universal Business Directories (UBD) - Licensed from Hardie Grant

## 1961 Business Directory Records Road or Area Matches

Records from the 1961 UBD Business Directory, 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:

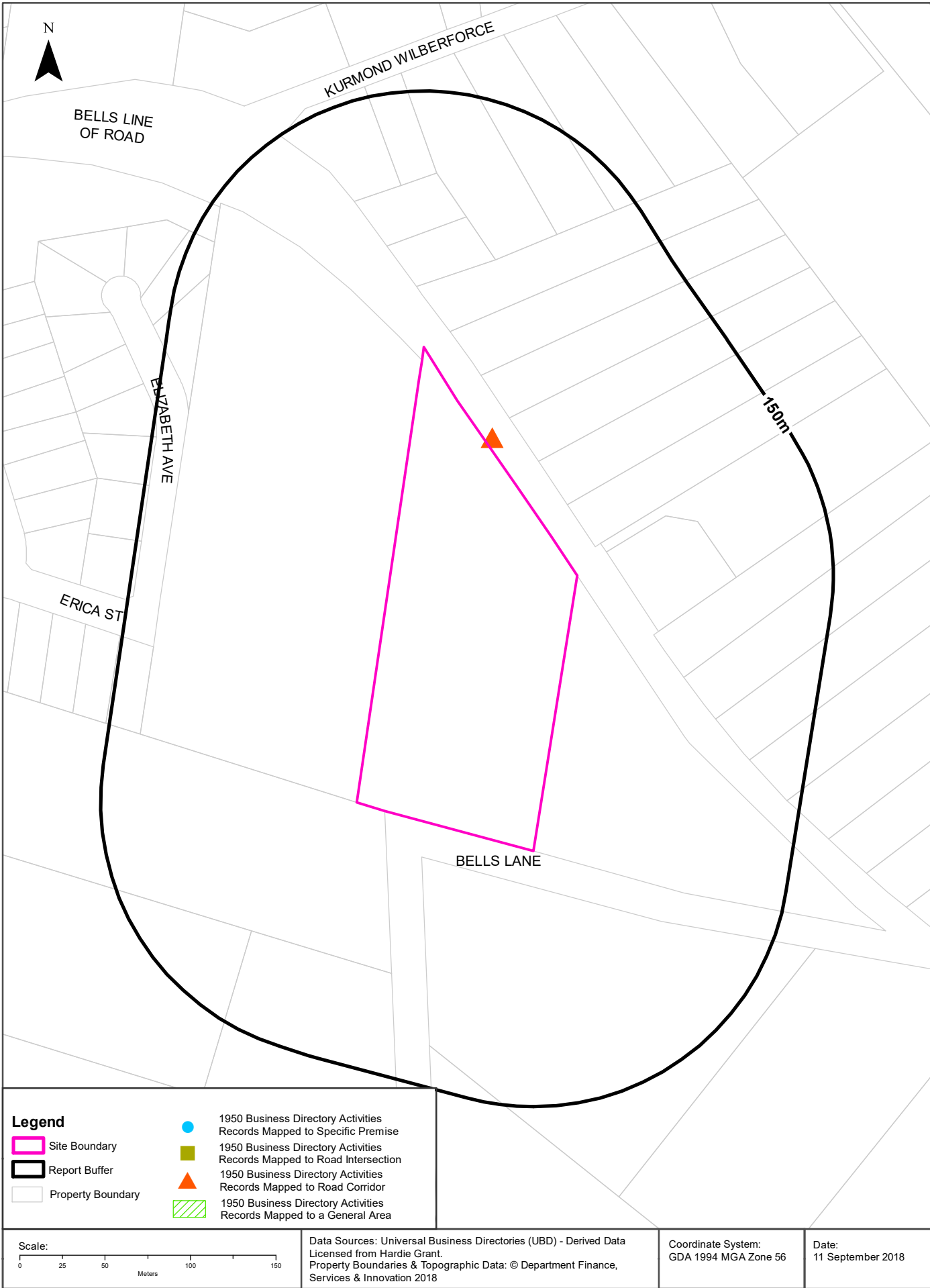
Business Activity	Premise	Ref No.	Location Confidence	Distance to Road Corridor or Area
GROCERS & GENERAL STOREKEEPERS	Armstrong, E., Main Rd., Kurmond	211493	Road Match	0m
MOTOR GARAGES & ENGINEERS	Bells Line Garage, Bells Line Rd., Kurmond	211495	Road Match	0m
MOTOR SERVICE STATIONS- PETROL, ETC.	Bells Line Garage, Bells Line Rd., Kurmond	211496	Road Match	0m
MOTOR TOWING SERVICES	Bells Line Garage, Bells Line Rd., Kurmond	211498	Road Match	0m
BUILDERS & CONTRACTORS	Carr, W. L., Main Rd., Kurmond	211487	Road Match	0m

Business Directory Content Derived from Universal Business Directories (UBD) - Licensed from Hardie Grant



# 1950 Historical Business Directory Records

457 Bells Line of Road, Kurmond, NSW 2757



## Historical Business Directories

457 Bells Line of Road, Kurmond, NSW 2757

### 1950 Business Directory Records Premise or Road Intersection Matches

Records from the 1950 UBD Business Directory, mapped to a premise or road intersection, within the dataset buffer:

Business Activity	Premise	Ref No.	Location Confidence	Distance to Feature Point	Direction
N/A	No records in buffer				

Business Directory Content Derived from Universal Business Directories (UBD) - Licensed from Hardie Grant

### 1950 Business Directory Records Road or Area Matches

Records from the 1950 UBD Business Directory, 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:

Business Activity	Premise	Ref No.	Location Confidence	Distance to Road Corridor or Area
GROCERS & GENERAL STOREKEEPERS	Armstrong, E., Main Rd. Kurmond	201653	Road Match	0m
BUILDING CONTRACTORS	Carr, W. L., Main Rd. Kurmond	201651	Road Match	0m

Business Directory Content Derived from Universal Business Directories (UBD) - Licensed from Hardie Grant

# Historical Business Directories

457 Bells Line of Road, Kurmond, NSW 2757

## 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:

Business Activity	Premise	Ref No.	Year	Location Confidence	Distance to Feature Point	Direction
N/A	No records in buffer					

Business Directory Content Derived from Universal Business Directories (UBD) - Licensed from Hardie Grant

## 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:

Business Activity	Premise	Ref No.	Year	Location Confidence	Distance to Road Corridor or Area
MOTOR GARAGES & ENGINEERS	Bells Line Garage, Bells Line Rd. Kurmond	543181	1970	Road Match	0m
MOTOR GARAGES & ENGINEERS	Bells Line Garage, Bells Line Rd., Kurmond	211495	1961	Road Match	0m
MOTOR SERVICE STATIONS-PETROL, ETC.	Bells Line Garage, Bells Line Rd., Kurmond	211496	1961	Road Match	0m
MOTOR GARAGES & SERVICE STATIONS.	Amoco North Richmond Service Station, Bells Line Rd., North Richmond.	63897	1986	Road Match	249m
MOTOR GARAGES &/OR ENGINEERS &/OR SERVICE STATIONS. (M6860)	Amoco North Richmond Service Station, Bells Line Rd., North Richmond. 2754.	55978	1982	Road Match	249m
MOTOR GARAGES & SERVICE STATIONS.	Calico Richmond Service Station, Bells Line Rd., North Richmond.	64381	1986	Road Match	249m
MOTOR GARAGES &/OR ENGINEERS &/OR SERVICE STATIONS. (M6860)	Caltex Richmond Service Station, Bells Line Rd., North Richmond.2754.	56449	1982	Road Match	249m
MOTOR GARAGES & ENGINEERS	Cedbank Service Station, Bells Line Rd., North Richmond, Richmond	224169	1961	Road Match	249m
Motor Garages & Service Stations	Eric's Auto Electrics Bells Line of Rd, North Richmond 2754	53706	1991	Road Match	249m
DRY CLEANERS & PRESSERS.	North Richmond Dry Cleaners, Shop 6 North Richmond Plaza, Bells Line Rd., North Richmond. .	25460	1986	Road Match	249m
MOTOR GARAGES & ENGINEERS	North Richmond Garage (L. W. Shepherd, Propr.), Kurrajong Rd. Richmond North	155787	1950	Road Match	249m
MOTOR GARAGES & ENGINEERS	North Richmond Garage, Bells Line Rd., N. Richmond Richmond	536477	1970	Road Match	249m
MOTOR SERVICE STATIONS-PETROL, ETC.	Redbank Service Station, Bells Line Rd., North , Richmond	224189	1961	Road Match	249m
MOTOR SERVICE STATIONS-PETROL, OILS, Etc.	Redbank Service Station, Bells Line Rd., North Richmond Richmond	536489	1970	Road Match	249m
MOTOR GARAGES & ENGINEERS	Redbank Service Station, Bells Line Rd., North Richmond, Richmond	224174	1961	Road Match	249m
MOTOR SERVICE STATIONS	Carr, W. and I.G., Bells Line Rd. Kurrajong	201708	1950	Road Match	492m
MOTOR SERVICE STATIONS	Minturn N. A., Bells Line Rd. Kurrajong	201710	1950	Road Match	492m
MOTOR SERVICE STATIONS-PETROL, OIL, Etc.	Minturn, N. A., Bells Line Rd. Kurrajong	543223	1970	Road Match	492m
MOTOR SERVICE STATIONS-PETROL, OIL, Etc.	Minturn, N. A., Bells Line Rd., Kurrajong	211526	1961	Road Match	492m

Business Directory Content Derived from Universal Business Directories (UBD) - Licensed from Hardie Grant



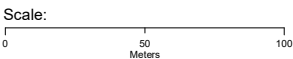
# Aerial Imagery 2016

457 Bells Line of Road, Kurmond, NSW 2757



**Legend**

- Site Boundary
- Buffer 150m



Data Sources: Aerial Imagery © Department Finance, Services & Innovation

Coordinate System:  
GDA 1994 MGA Zone 56

Date: 11 September 2018



# Aerial Imagery 2013

457 Bells Line of Road, Kurmond, NSW 2757



Google Earth

Scale:  
0 25 50 100  
Meters

Data Source Aerial Imagery: © 2018 Google Inc, used with permission. Google and the Google logo are registered trademarks of Google Inc.

Coordinate System:  
GDA 1994 MGA Zone 56

Date: 10 September 2018



# Aerial Imagery 2002

457 Bells Line of Road, Kurmond, NSW 2757



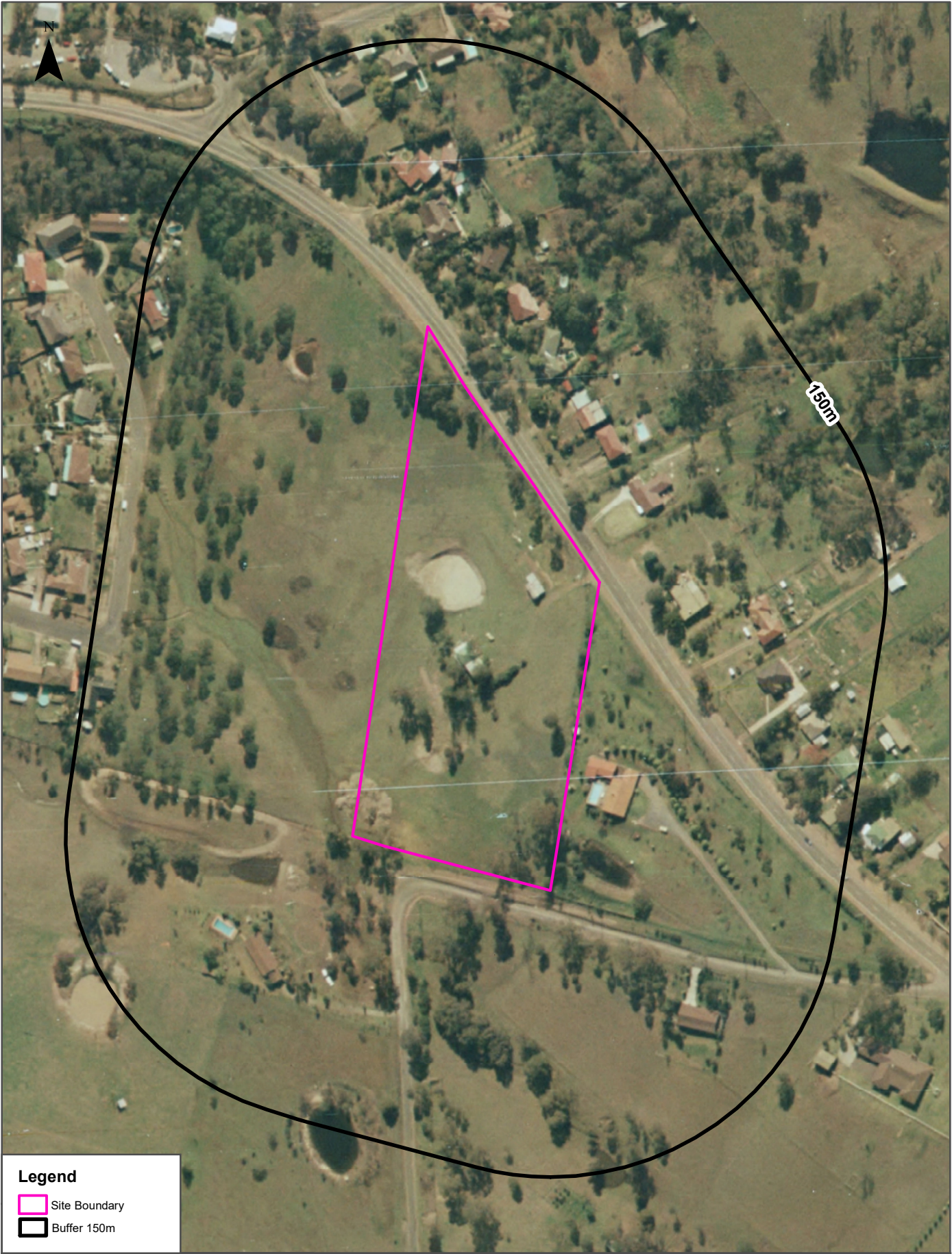
- Legend**
- Site Boundary
  - Buffer 150m

<p>Scale:</p> <p>0 25 50 100</p> <p>Meters</p>	<p>Data Source Aerial Imagery: © 2018 Google Inc, used with permission. Google and the Google logo are registered trademarks of Google Inc.</p>	<p>Coordinate System:</p> <p>GDA 1994 MGA Zone 56</p>	<p>Date: 10 September 2018</p>
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# Aerial Imagery 1991

457 Bells Line of Road, Kurmond, NSW 2757



**Legend**

 Site Boundary

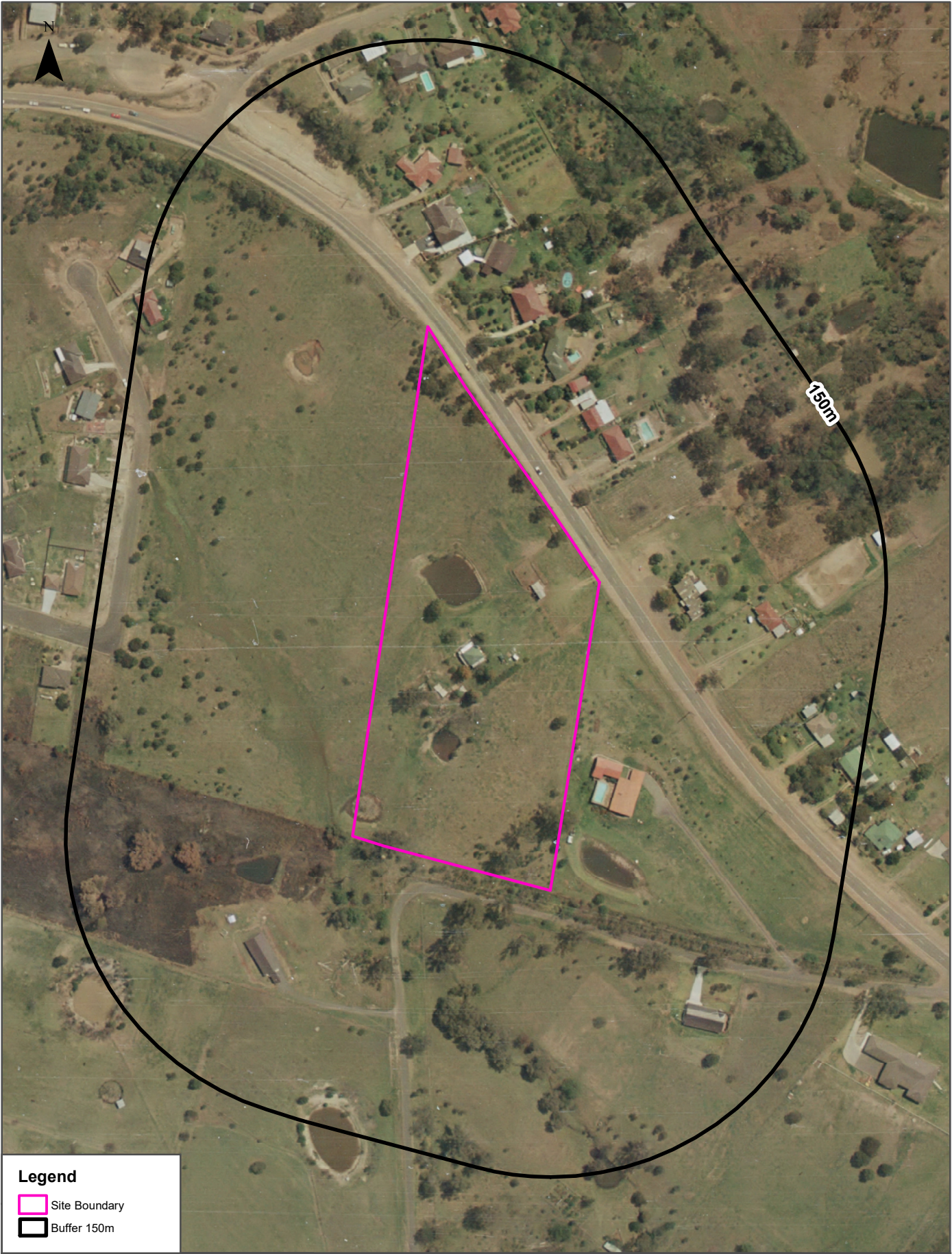
 Buffer 150m

<p>Scale:</p> <p>0 25 50 100</p> <p>Meters</p>	<p>Data Sources: Aerial Imagery © Department Finance, Services &amp; Innovation</p>	<p>Coordinate System: GDA 1994 MGA Zone 56</p>	<p>Date: 11 September 2018</p>
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# Aerial Imagery 1982

457 Bells Line of Road, Kurmond, NSW 2757



**Legend**

 Site Boundary

 Buffer 150m

<div>Scale:</div> <div><div>0</div><div>25</div><div>50</div><div>100</div></div> <div>Meters</div>	Data Sources: Aerial Imagery © Department Finance, Services & Innovation	Coordinate System: GDA 1994 MGA Zone 56	Date: 11 September 2018
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Aerial Imagery 1970

457 Bells Line of Road, Kurmond, NSW 2757



**Legend**

- Site Boundary
- Buffer 150m

**Scale:**

0 25 50 100  
Meters

Data Sources: Aerial Imagery © Department Finance,  
Services & Innovation

Coordinate System:  
GDA 1994 MGA Zone 56

Date: 11 September 2018



Aerial Imagery 1965

457 Bells Line of Road, Kurmond, NSW 2757

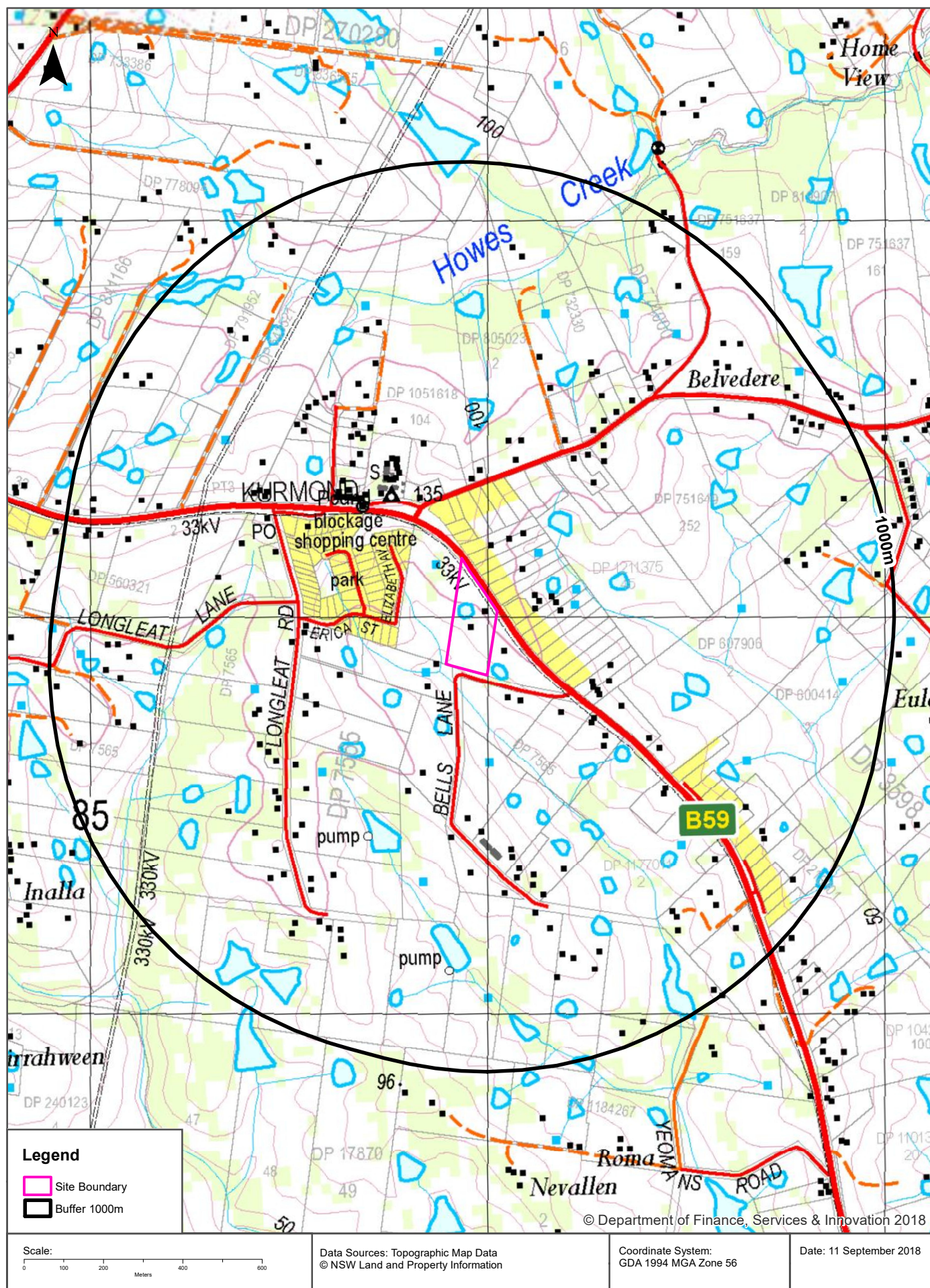


<p>Scale:</p> <p>0 25 50 100 Meters</p>	<p>Data Source Aerial Imagery: © NSW Department of Finance, Services &amp; Innovation</p>	<p>Coordinate System: GDA 1994 MGA Zone 56</p>	<p><b>Legend</b></p> <ul style="list-style-type: none"><li> Site Boundary</li><li> Buffer 150m</li></ul> <p>Date: 14 September 2018</p>
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# Topographic Map 2015

457 Bells Line of Road, Kurmond, NSW 2757





# Historical Map 1975

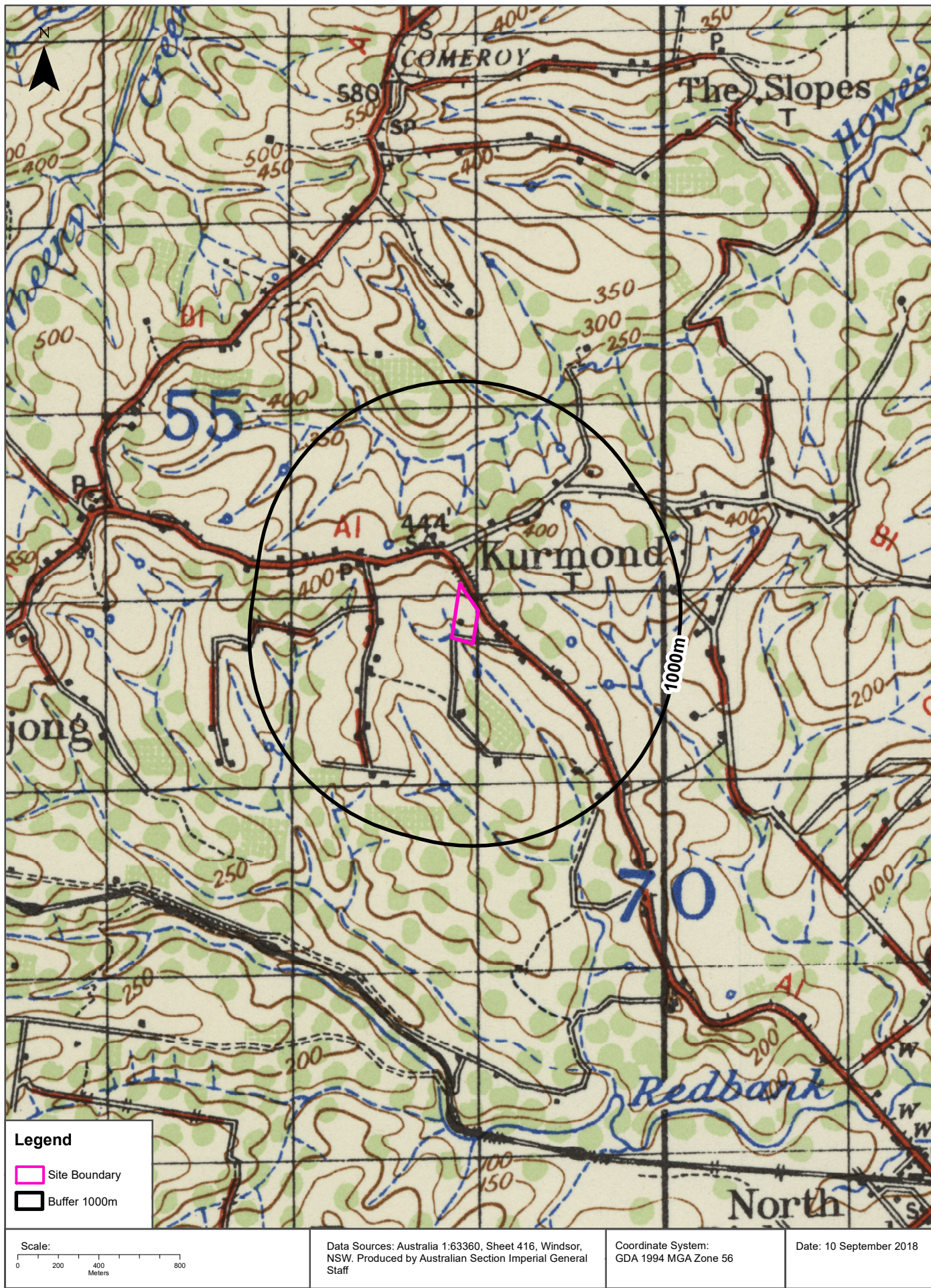
457 Bells Line of Road, Kurmond, NSW 2757





# Historical Map 1942

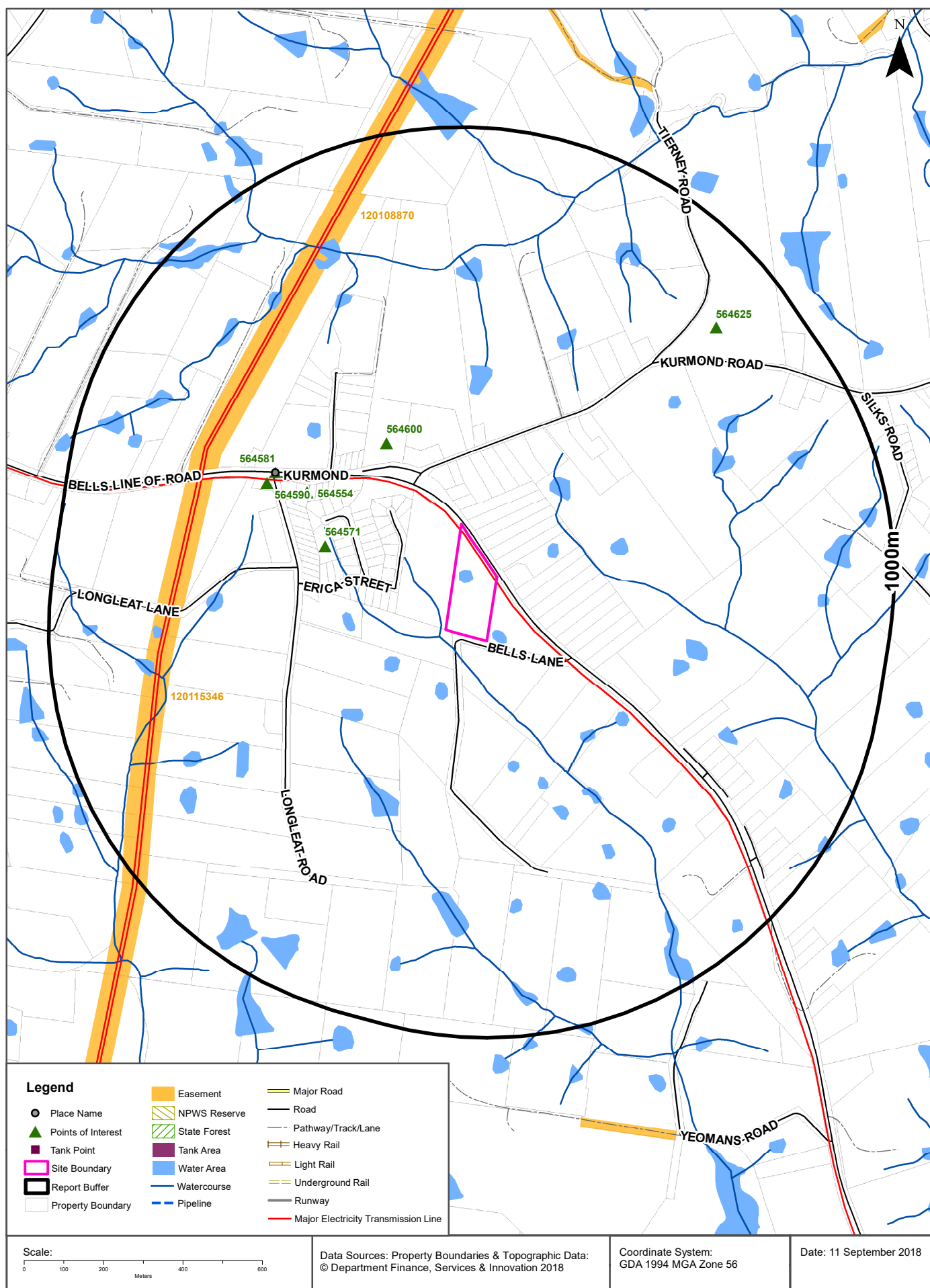
457 Bells Line of Road, Kurmond, NSW 2757





# Topographic Features

457 Bells Line of Road, Kurmond, NSW 2757



# Topographic Features

457 Bells Line of Road, Kurmond, NSW 2757

## Points of Interest

What Points of Interest exist within the dataset buffer?

Map Id	Feature Type	Label	Distance	Direction
564600	Primary School	KURMOND PUBLIC SCHOOL	277m	North West
564571	Park	Park	331m	West
564554	Shopping Centre	KURMOND VILLAGE SHOPPING CENTRE	396m	North West
564581	Suburb	KURMOND	486m	North West
564590	Post Office	KURMOND POST OFFICE	500m	North West
564625	Homestead	BELVEDERE	810m	North East

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

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## Topographic Features

457 Bells Line of Road, Kurmond, NSW 2757

### 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
	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
	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
120108870	Primary	Undefined		615m	North West
120115346	Primary	Undefined		637m	North

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

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# Topographic Features

457 Bells Line of Road, Kurmond, NSW 2757

## 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: © Land and Property Information (2015)

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## National Parks and Wildlife Service Reserves

What NPWS Reserves exist within the dataset buffer?

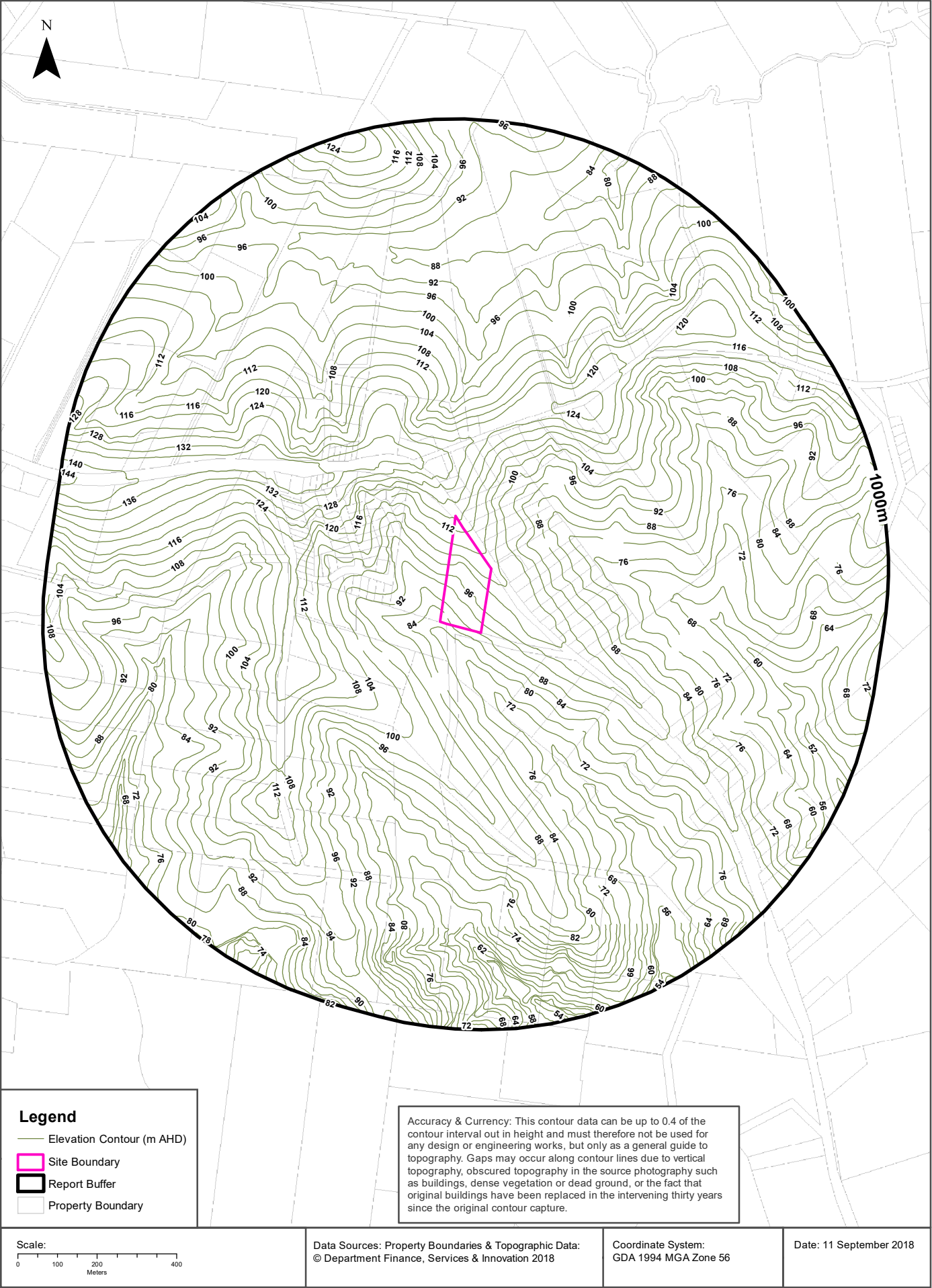
Reserve Number	Reserve Type	Reserve Name	Gazetted Date	Distance	Direction
N/A	No records in buffer				

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

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



Elevation Contours (m AHD)  
457 Bells Line of Road, Kurmond, NSW 2757



# Hydrogeology & Groundwater

457 Bells Line of Road, Kurmond, NSW 2757

## Hydrogeology

Description of aquifers on-site:

Description
Porous, extensive aquifers of low to moderate productivity

Description of aquifers within the dataset buffer:

Description
Porous, extensive aquifers of low to moderate productivity

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>

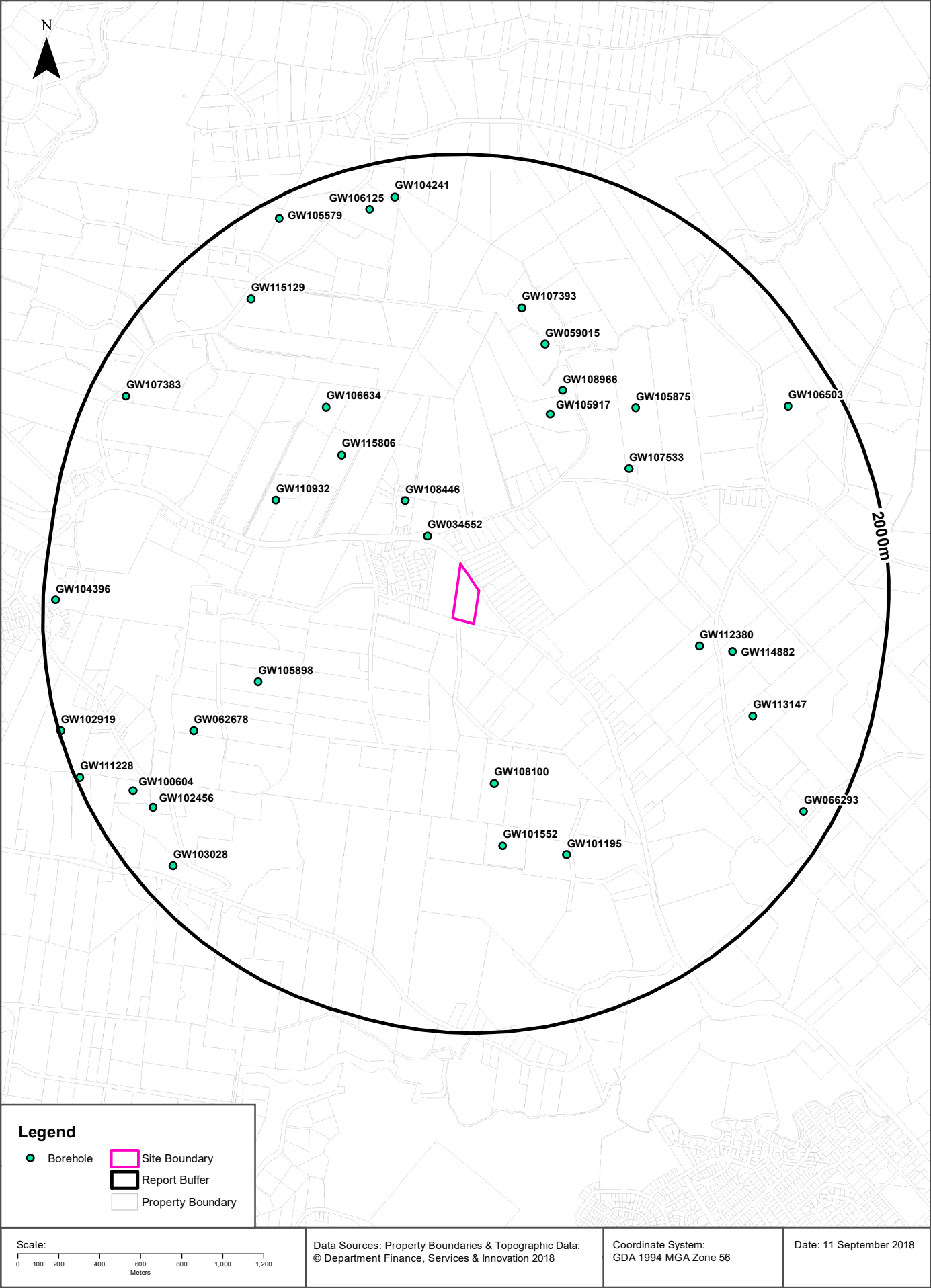
## Botany Groundwater Management Zones

Groundwater management zones relating to the Botany Sand Beds aquifer within the dataset buffer:

Management Zone No.	Restriction	Distance	Direction
N/A	No records in buffer		

Botany Groundwater Management Zones Data Source : NSW Department of Primary Industries





# Hydrogeology & Groundwater

457 Bells Line of Road, Kurmond, NSW 2757

## Groundwater Boreholes

Boreholes within the dataset buffer:

GW No.	Licence No	Work Type	Owner Type	Authorised Purpose	Intended Purpose	Name	Complete Date	Final Depth (m)	Drilled Depth (m)	Salinity (mg/L)	SWL (m)	Yield (L/s)	Elev (AHD)	Dist	Dir
GW034 552	10BL027 664, 10WA10 6754	Bore		Waste Disposal	Domestic		01/09/1971	79.20	106.37					208m	North West
GW108 446	10BL601 033, 10WA10 7270	Bore	Private	Domestic, Stock	Domestic, Stock		16/01/2007	132.00	132.00	500	38.0 0	6.700		407m	North West
GW115 806					Domestic, Stock		11/08/2017				38.0 0			785m	North West
GW108 100	10BL162 282, 10WA10 7173	Bore	Private	Domestic, Stock	Domestic, Stock		07/10/2004	162.00	162.00		96.0 0	2.750		787m	South
GW105 917	10BL161 909, 10WA10 7152	Bore		Domestic, Stock			13/05/2005							850m	North East
GW107 533	10BL163 734, 10WA10 7206	Bore	Private	Domestic	Domestic		30/07/2004	150.00	150.00	100	24.0 0	4.300		942m	North East
GW110 932	10BL164 559, 10WA10 7223	Bore	Private	Domestic, Stock	Domestic, Stock		10/11/2006	180.00	180.00	70		2.500		951m	North West
GW108 966	10BL602 150, 10WA10 7286	Bore	Private	Domestic, Stock	Domestic, Stock		26/06/2008	90.00		126	18.0 0	0.400		980m	North East
GW105 898	10BL162 138, 10WA10 7165	Bore		Domestic, Stock			12/05/2005							998m	West
GW106 634	10BL163 454, 10WA10 7200	Bore	Private	Domestic	Domestic		13/07/2004	186.00	186.00		72.0 0	6.400		1005m	North West
GW101 552	10BL158 154, 10WA10 6969	Bore		Domestic, Stock	Domestic, Stock		14/10/1997	73.00	73.00	1500	32.0 0	1.200		1095m	South
GW112 380	10WA11 8662	Bore	Private	Domestic, Stock	Domestic, Stock		22/05/2013	156.00	156.00	265	50.0 0	0.200		1107m	East
GW105 875	10BL163 143, 10WA10 7194	Bore		Domestic, Stock			06/05/2005							1144m	North East
GW059 015	10BL125 101, 10CA10 7357	Bore	Private	Domestic, Irrigation	Domestic, Irrigation		01/03/1983	50.00	50.00		30.0 0	0.300		1147m	North
GW101 195	10BL158 275, 10WA10 6979	Bore	Private	Domestic, Stock	Domestic, Stock		22/01/1998	108.00	108.00	655	14.5 0	2.000		1217m	South
GW114 882	10WA11 9165	Bore	Private	Domestic, Stock	Domestic, Stock		06/05/2015	180.00	181.00	640	47.0 0	2.700		1270m	East



GW No.	Licence No	Work Type	Owner Type	Authorised Purpose	Intended Purpose	Name	Complete Date	Final Depth (m)	Drilled Depth (m)	Salinity (mg/L)	SWL (m)	Yield (L/s)	Elev (AHD)	Dist	Dir
GW107 393	10BL165 574, 10WA10 7233	Bore	Private	Domestic, Stock	Domestic, Stock		16/08/2005	114.00	114.00		12.0 0	2.500		1283m	North
GW062 678	10BL134 514, 10WA10 6806	Bore open thru rock	Private	Domestic	Domestic		01/06/1986	66.00	66.00	Fresh				1376m	South West
GW113 147	10WA11 8731	Bore	Private	Domestic, Stock	Domestic, Stock		17/09/2013	144.00	144.00	260	32.0 0	0.500		1438m	East
GW115 129	10WA11 9166			Domestic, Stock	Domestic, Stock		10/07/2015	180.00	180.00		65.0 0			1647m	North West
GW102 456	10BL158 924, 10WA10 7009	Bore		Domestic, Stock			10/12/1998	91.50	91.50	Good				1728m	South West
GW106 503	10BL162 280, 10WA10 7172	Bore	Private	Domestic, Stock	Domestic, Stock		03/10/2003	158.00	158.00	90	68.0 0	2.150		1758m	North East
GW100 604	10BL157 085, 10WA10 6937	Bore	Private	Domestic, Farming, Stock	Domestic, Farming, Stock		15/10/1995	82.00	82.00	120	21.0 0	1.500		1773m	South West
GW106 125	10BL162 145, 10WA10 7166	Bore	Private	Domestic, Stock	Domestic, Stock		25/09/2003	126.00	126.00	70	54.0 0	0.950		1784m	North
GW104 241	10BL160 280, 10WA10 7067	Bore	Private	Domestic, Stock	Domestic, Stock		28/09/2001	177.00	177.00	Good	87.0 0	0.700		1818m	North
GW107 383	10BL162 855, 10WA10 7187	Bore	Private	Domestic	Domestic		18/12/2003	220.00	220.00	Good	42.0 0	1.750		1823m	North West
GW103 028	10BL157 757, 10CA10 7389	Bore		Recreation - Low Security	Irrigation		13/05/1999	55.00	55.00	400				1825m	South West
GW066 293													40.00	1855m	South East
GW105 579	10BL162 505, 10WA10 7177	Bore		Domestic, Stock	Domestic, Stock		03/12/2003	174.00	174.00	138	73.0 0	0.500		1901m	North West
GW104 396	10BL160 809, 10WA10 7099	Bore		Domestic, Stock	Domestic, Stock		30/08/1982	165.00	165.00	100		4.000		1939m	West
GW111 228	10BL601 696, 10WA10 7281	Bore	Private	Domestic, Stock	Domestic, Stock		15/11/2010	73.00	73.00	good	44.0 0	0.400		1976m	South West
GW102 919	10BL159 475, 10WA10 7031	Bore		Domestic	Domestic		06/12/1999	140.00	140.00	100				1990m	West

Borehole Data Source : NSW Department of Primary Industries - Office of Water / Water Administration Ministerial Corporation for all bores prefixed with GW. All other bores © Commonwealth of Australia (Bureau of Meteorology) 2015. Creative Commons 3.0 © Commonwealth of Australia <http://creativecommons.org/licenses/by/3.0/au/deed.en>

# Hydrogeology & Groundwater

457 Bells Line of Road, Kurmond, NSW 2757

## Driller's Logs

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

Groundwater No	Drillers Log	Distance	Direction
GW034552	0.00m-0.91m Topsoil 0.91m-5.18m Shale 5.18m-54.25m Shale Black Water Supply 54.25m-60.96m Sand Grey 60.96m-69.18m Clay Sandy 69.18m-70.10m Sand Fine Water Supply 70.10m-72.23m Sand Silty 72.23m-74.67m Shale Sandy 74.67m-78.94m Sand Grey 78.94m-93.26m Sand Silty Water Supply 93.26m-97.84m Sand 97.84m-106.37m Sand Silty	208m	North West
GW108446	0.00m-30.00m Shale 30.00m-50.00m Sandstone, 50.00m-60.00m Sandstone/Shale bands 60.00m-82.00m Sandstone 82.00m-90.00m Sandstone/Shale 90.00m-132.00m Sandstone	407m	North West
GW108100	0.00m-2.00m clay, brown shale 2.00m-33.00m shale 33.00m-42.00m sandstone, yellow 42.00m-43.00m shale 43.00m-112.00m sandstone, shale seams 112.00m-114.00m shale 114.00m-118.00m sandstone, shale seams 118.00m-121.00m sandstone, quartzite 121.00m-138.00m sandstone, shale 138.00m-141.00m shale 141.00m-162.00m sandstone	787m	South
GW107533	0.00m-7.00m clay, dirt 7.00m-42.00m shale 42.00m-60.00m sandstone 60.00m-66.00m shale 66.00m-150.00m sandstone	942m	North East
GW110932	0.00m-2.00m RED CLAY 2.00m-8.00m SHALE BROWN 8.00m-45.00m SHALE 45.00m-65.00m SANDSTONE WHITE 65.00m-151.00m SANDSTONE/SHALE 151.00m-159.00m SANDSTONE/QUARTZ 159.00m-167.00m SANDSTONE/SHALE 167.00m-180.00m SANDSTONE/QUARTZ	951m	North West
GW106634	0.00m-21.00m shale, brown 21.00m-35.00m sandstone 35.00m-53.00m sandstone/shale 53.00m-63.00m sandstone/quartzite 63.00m-123.00m sandstone/shale 123.00m-169.00m sandstone/quartzite 169.00m-175.00m sandstone/shale 175.00m-179.00m sandstone/quartzite 179.00m-186.00m sandstone,	1005m	North West
GW101552	0.00m-0.60m Soil 0.60m-5.00m Soil/Clay 5.00m-18.00m Shale 18.00m-68.00m Sandstone 68.00m-73.00m Soft Sandstone	1095m	South



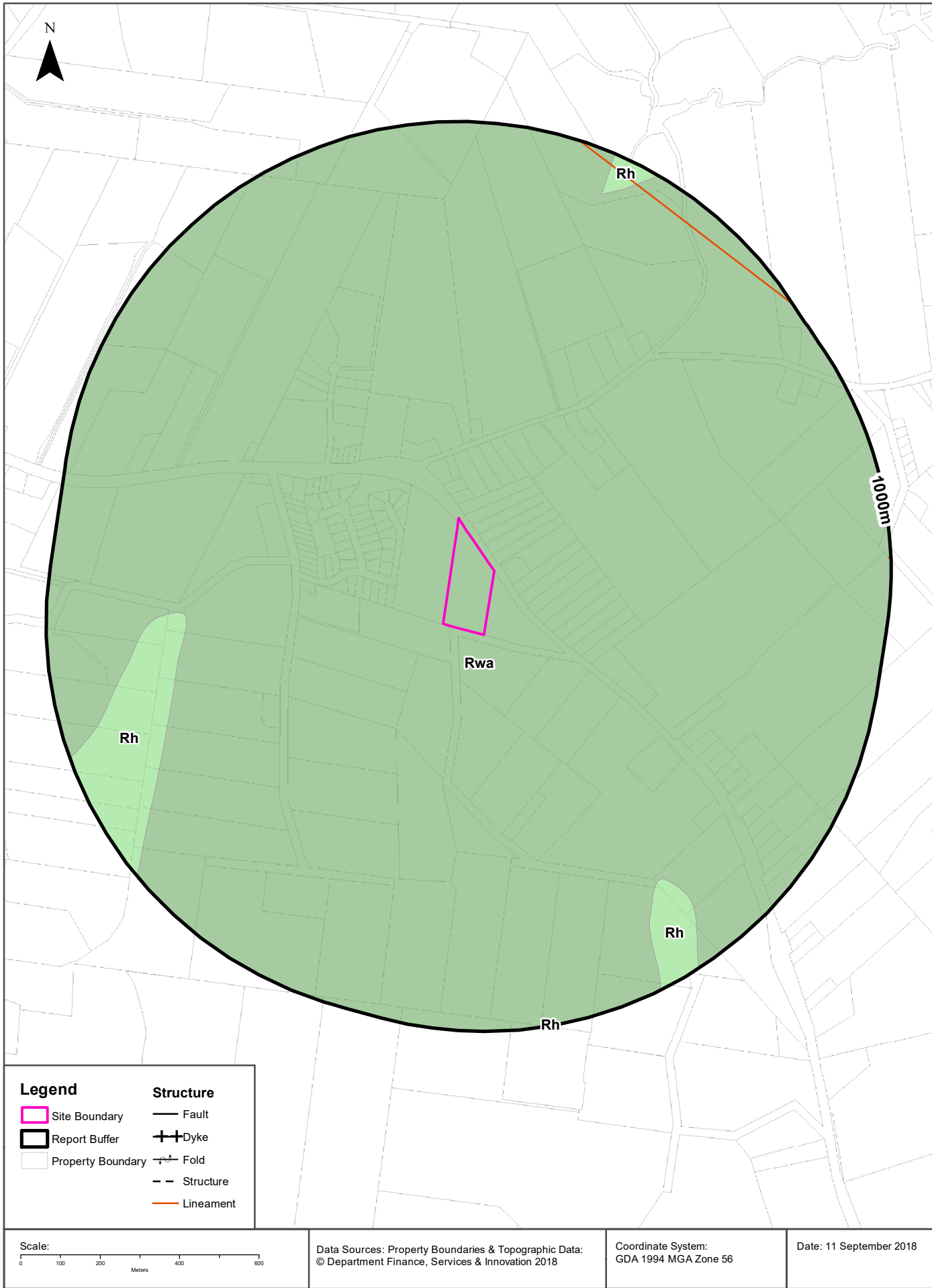
Groundwater No	Drillers Log	Distance	Direction
GW112380	0.00m-0.50m FILL 0.50m-1.50m CLAY BROWN 1.50m-6.00m SHALE BROWN 6.00m-21.00m SHALE GREY 21.00m-27.80m SANDSTONE AND SHALE 27.80m-28.00m CLAY GREY 28.00m-32.00m SANDSTONE GREY 32.00m-46.00m SANDSTONE BROWN 46.00m-81.00m SANDSTONE GREY 81.00m-83.00m SANDSTONE FINE QUARTZ (W) 83.00m-94.00m SANDSTONE, SHALE BEDDING 94.00m-94.30m SANDSTONE FINE QUARTZ (W) 94.30m-113.50m SANDSTONE GREY 113.50m-113.80m SANDSTONE QUARTZ (W) 113.80m-135.00m SANDSTONE GREY 135.00m-135.50m SANDSTONE FINE QUARTZ (W) 135.50m-150.20m SANDSTONE GREY WITH DARK GREY BANDS 150.20m-150.30m SANDSTONE SLIGHT FRACT.(W) 150.30m-156.00m SANDSTONE GREY	1107m	East
GW059015	0.00m-10.00m Topsoil Overburden 10.00m-50.00m Shale Water Supply, Some Overburden	1147m	North
GW101195	0.00m-1.50m clay overburden 1.50m-18.50m sandstone fine grained red 18.50m-19.00m quartz medium grained 19.00m-34.50m sandstone medium grained light grey 34.50m-36.00m sandstone coarse grained grey 36.00m-39.50m quartz (water bearing) 39.50m-45.00m sandstone finegrained dark grey 45.00m-52.00m sandstone medium grain and quartz 52.00m-69.50m sandstone coarse grained brown 69.50m-72.50m sandstone medium grained quartz (water bearing) 72.50m-96.00m sandstone medium grained dark grey 96.00m-97.50m quartz layer (water bearing) 97.50m-108.00m sandstone medium grain white	1217m	South
GW114882	0.00m-0.50m TOPSOIL 0.50m-4.00m CLAYS YELLOW 4.00m-6.00m SHALES SOFT 6.00m-28.00m SHALES GREY 28.00m-181.00m SANDSTONE YELLOW TO WHITE	1270m	East
GW107393	0.00m-1.00m soil 1.00m-5.00m shale, brown 5.00m-15.00m sandstone, shale 15.00m-28.00m sandstone, white 28.00m-68.00m sandstone/shale 68.00m-95.00m sandstone, white 95.00m-104.00m sandstone 104.00m-114.00m sandstone/shale	1283m	North
GW062678	0.00m-0.30m Topsoil 0.30m-1.80m Shale Clay 1.80m-19.60m Sandstone Yellow 19.60m-51.70m Sandstone Grey Water Supply 51.70m-51.90m Shale 51.90m-66.00m Sandstone Grey Water Supply	1376m	South West
GW113147	0.00m-0.75m TOPSOIL 0.75m-3.00m CLAY 3.00m-6.50m SANDSTONE L/BROWN 6.50m-17.00m SHALE 17.00m-27.00m SANDSTONE L/BROWN 27.00m-44.00m SANDSTONE GREY 44.00m-44.50m SANDSTONE FINE QUARTZ 44.50m-92.00m SANDSTONE GREY 92.00m-95.00m SANDSTONE AND SHALE BEDDING 95.00m-96.00m SANDSTONE FINE QUARTZ 96.00m-109.50m SANDSTONE GREY 109.50m-109.60m CLAY BANDS 109.60m-133.00m SANDSTONE GREY 133.00m-133.50m SANDSTONE AND QUARTZ (W) 133.50m-140.00m SANDSTONE GREY 140.00m-140.30m SANDSTONE ,QUARTZ (W) 140.30m-144.00m SANDSTONE GREY	1438m	East
GW115129	0.00m-12.00m CLAY, SHALE BROWN 12.00m-45.00m SHALE BLACK 45.00m-81.00m SANDSTONE WHITE 81.00m-90.00m SHALE GREY 90.00m-106.00m SANDSTONE WHITE 106.00m-110.00m SANDSTONE SHALE 110.00m-180.00m SANDSTONE QUARTZ	1647m	North West

Groundwater No	Drillers Log	Distance	Direction
GW102456	0.00m-0.20m SOIL 0.20m-1.50m CLAY 1.50m-5.00m SHALE BROWN 5.00m-8.00m SANDSTONE 8.00m-11.00m SHALE 11.00m-31.00m SANDSTONE 31.00m-40.00m SHALE 40.00m-68.00m SANDSTONE 68.00m-71.00m SHALE 71.00m-91.50m SANDSTONE	1728m	South West
GW106503	0.00m-7.00m clay, red 7.00m-33.00m shale 33.00m-65.00m sandstone 65.00m-67.00m shale 67.00m-110.00m sandstone 110.00m-111.00m shale 111.00m-158.00m sandstone	1758m	North East
GW100604	0.00m-0.50m SOIL 0.50m-10.00m SHALE 10.00m-54.00m SANDSTONE 54.00m-58.50m SHALE 58.50m-82.00m SANDSTONE	1773m	South West
GW106125	0.00m-5.00m soil, clay 5.00m-20.00m shale 20.00m-50.00m sandstone 50.00m-66.00m sandstone, shale 66.00m-126.00m sandstone	1784m	North
GW104241	0.00m-1.00m DIRT/FILL 1.00m-10.00m BROWN SHALE 10.00m-56.00m BLUE SHALE 56.00m-87.00m WHITE SANDSTONE 87.00m-89.00m SHALE 89.00m-124.00m SANDSTONE/SHALE SEAMS 124.00m-127.00m SHALE 127.00m-177.00m SANDSTONE	1818m	North
GW107383	0.00m-8.00m shale, brown 8.00m-64.00m shale, grey 64.00m-107.00m sandstone, white 107.00m-108.00m shale 108.00m-152.00m sandstone, white 152.00m-153.00m shale 153.00m-220.00m sandstone white	1823m	North West
GW103028	0.00m-0.40m SOIL 0.40m-0.80m CLAY 0.80m-1.80m SANDSTONE SOFT 1.80m-4.80m SANDSTONE 4.80m-6.90m SHALE BROWN 6.90m-9.10m SANDSTONE SOFT 9.10m-43.00m SANDSTONE 43.00m-44.00m SHALE 44.00m-55.00m SANDSTONE	1825m	South West
GW105579	0.00m-3.90m TOPSOIL AND CLAY 3.90m-29.50m SHALE 29.50m-42.50m SILTSTONE F/G D/GREY 42.50m-55.00m SILTSTONE 55.00m-84.50m SANDSTONE GREY 84.50m-85.50m W. SANDSTONE GREY L/GREY 85.50m-117.00m SANDSTONE GREY L/GREY 117.00m-118.00m SANDSTONE GREY L/BROWN 118.00m-125.00m SANDSTONE GREY 125.00m-127.00m SILTSTONE 127.00m-150.50m SANDSTONE GREY L/GREY 150.50m-152.00m W SANDSTONE GREY / QUARTZ 152.00m-164.50m SANDSTONE GREY / QUARTZ 164.50m-165.50m F. SANDSTONE GREY / SILTSTONE 165.50m-166.00m SANDSTONE GREY 166.00m-168.00m W QUARTZ 168.00m-174.00m SANDSTONE L/GREY / QUARTZ	1901m	North West



Groundwater No	Drillers Log	Distance	Direction
GW111228	0.00m-1.00m O.T.R 1.00m-28.00m SANDSTONE 28.00m-29.00m IRONSTONE BANDS 29.00m-42.00m SANDSTONE 42.00m-43.00m IRONSTONE BANDS 43.00m-48.00m SANDSTONE 48.00m-49.00m SANDSTONE/SHALE 49.00m-54.00m SANDSTONE HARD 54.00m-62.00m SANDSTONE 62.00m-63.00m SHALE 63.00m-73.00m SANDSTONE	1976m	South West
GW102919	0.00m-1.50m SOIL/CLAY 1.50m-12.00m SHALE 12.00m-64.00m SANDSTONE 64.00m-82.00m SANDSTONE/CLAY 82.00m-96.00m SANDSTONE/SHALE 96.00m-100.00m SANDSTONE/WHITE CLAY 100.00m-140.00m SANDSTONE	1990m	West

Drill Log Data Source: NSW Department of Primary Industries - Office of Water / Water Administration Ministerial Corp  
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# Geology

457 Bells Line of Road, Kurmond, NSW 2757

## Geological Units

What are the Geological Units onsite?

Symbol	Description	Unit Name	Group	Sub Group	Age	Dom Lith	Map Sheet	Dataset
Rwa	Dark-grey to black claystone-siltstone and fine sandstone - siltstone laminate	Ashfield Shale	Wianamatta Group (undifferentiated)		Middle Triassic		Penrith	1:100,000

What are the Geological Units within the dataset buffer?

Symbol	Description	Unit Name	Group	Sub Group	Age	Dom Lith	Map Sheet	Dataset
Rh	Medium to very coarse-grained quartz sandstone, minor laminated mudstone and siltstone leases	Hawkesbury Sandstone			Middle Triassic		Penrith	1:100,000
Rwa	Dark-grey to black claystone-siltstone and fine sandstone -siltstone laminate	Ashfield Shale	Wianamatta Group (undifferentiated)		Middle Triassic		Penrith	1:100,000

## Geological Structures

What are the Geological Structures onsite?

Feature	Name	Description	Map Sheet	Dataset
No features				1:100,000

What are the Geological Structures within the dataset buffer?

Feature	Name	Description	Map Sheet	Dataset
Lineament			Penrith	1:100,000
Lineament			Penrith	1:100,000

Geological Data Source : NSW Department of Industry, Resources & Energy

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# Naturally Occurring Asbestos Potential

457 Bells Line of Road, Kurmond, NSW 2757

## Naturally Occurring Asbestos Potential

Naturally Occurring Asbestos Potential within the dataset buffer:

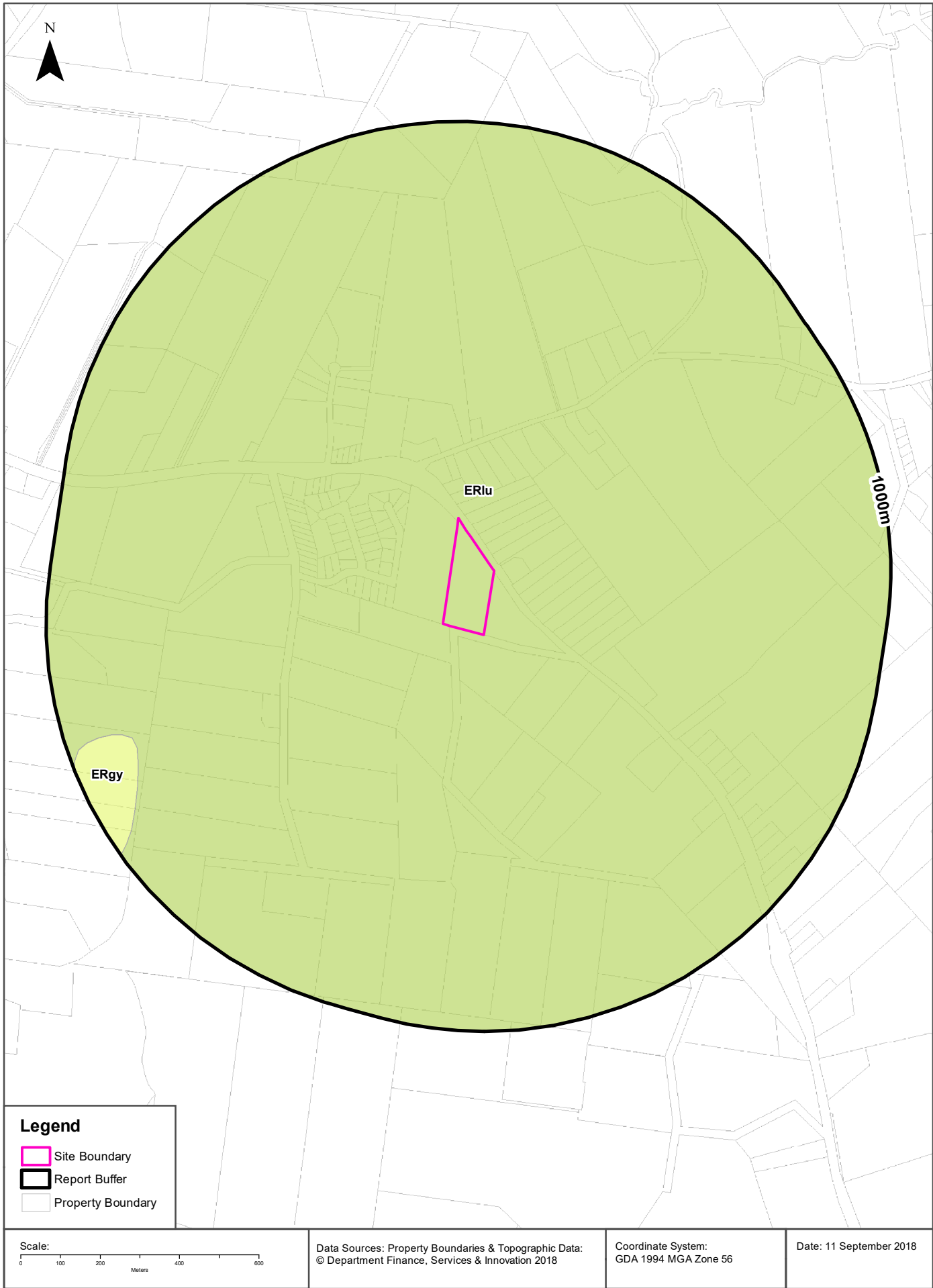
Potential	Sym	Strat Name	Group	Formation	Scale	Min Age	Max Age	Rock Type	Dom Lith	Description	Dist	Dir
No records in buffer												

Mining Subsidence District Data Source: © State of New South Wales through NSW Department of Industry, Resources & Energy



# Soil Landscapes

457 Bells Line of Road, Kurmond, NSW 2757



## Soils

457 Bells Line of Road, Kurmond, NSW 2757

## Soil Landscapes

What are the onsite Soil Landscapes?

Soil Code	Name	Group	Process	Map Sheet	Scale
ERlu	LUDDENHAM		EROSIONAL	Penrith	1:100,000

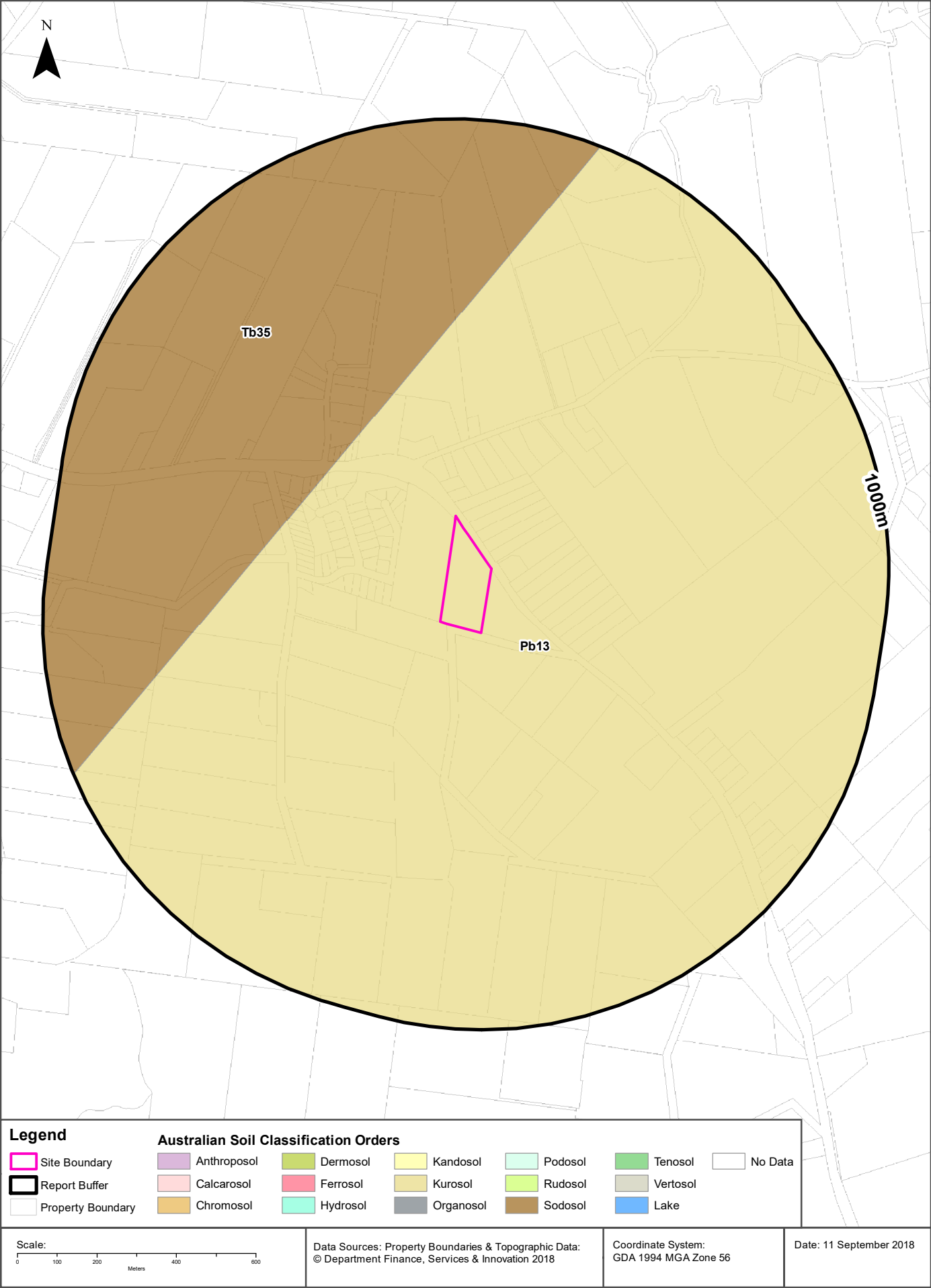
What are the Soil Landscapes within the dataset buffer?

Soil Code	Name	Group	Process	Map Sheet	Scale
ERgy	GYMEA		EROSIONAL	Penrith	1:100,000
ERlu	LUDDENHAM		EROSIONAL	Penrith	1:100,000

Soils Landscapes Data Source : NSW Office of Environment and Heritage

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## Soils

457 Bells Line of Road, Kurmond, NSW 2757

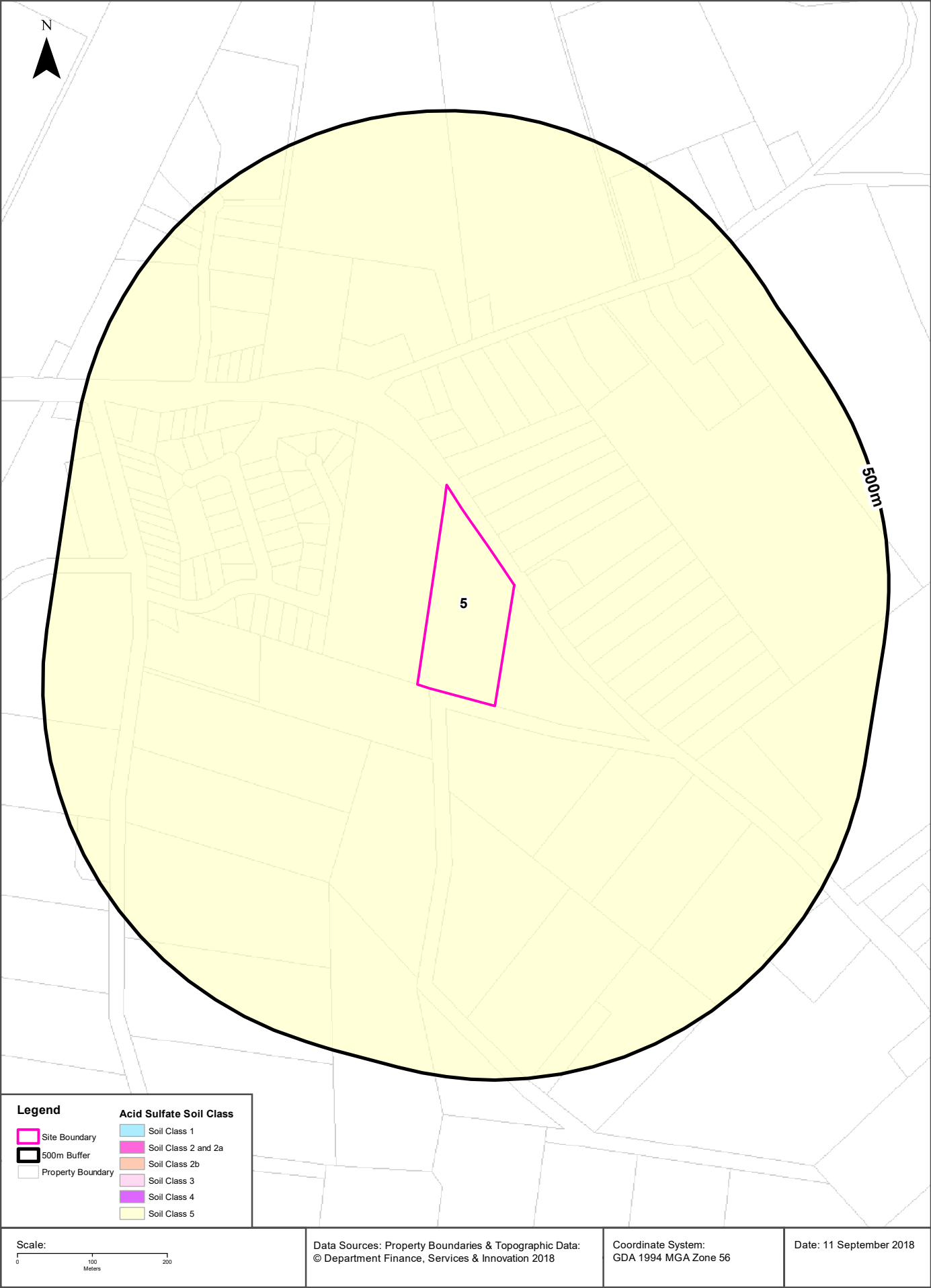
### Atlas of Australian Soils

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

Map Unit Code	Soil Order	Map Unit Description	Distance
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
Tb35	Sodosol	Dissected plateau remnants--flat to undulating ridge tops with moderate to steep side slopes: chief soils are hard acidic yellow and yellow mottled soils (Dy3.41), (Dy2.21), and (Dy2.41) and hard acidic red soils (Dr2.21); many shallow profiles occur and profile thickness varies considerably over short distances. Associated are: (Gn3.54), (Gn3.14), and possibly other (Gn3) soils; (Db1.2) soils on some ridges; (Dy5.81) soils in areas transitional to unit Mb2; soils common to unit Mb2; and eroded lateritic remnants. Small areas of other soils are likely. Flat ferruginous shale or sandstone fragments are common on and/or in and/or below the soils of this unit.	320m

Atlas of Australian Soils Data Source: CSIRO

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## Acid Sulfate Soils

457 Bells Line of Road, Kurmond, NSW 2757

### Standard Local Environmental Plan Acid Sulfate Soils

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

Soil Class	Description	LEP
5	Works within 500 metres of adjacent Class 1, 2, 3, or 4 land that is below 5 metres AHD and by which the watertable is likely to be lowered below 1 metre AHD on adjacent Class 1, 2, 3 or 4 land, present an environmental risk	Hawkesbury Local Environmental Plan 2012

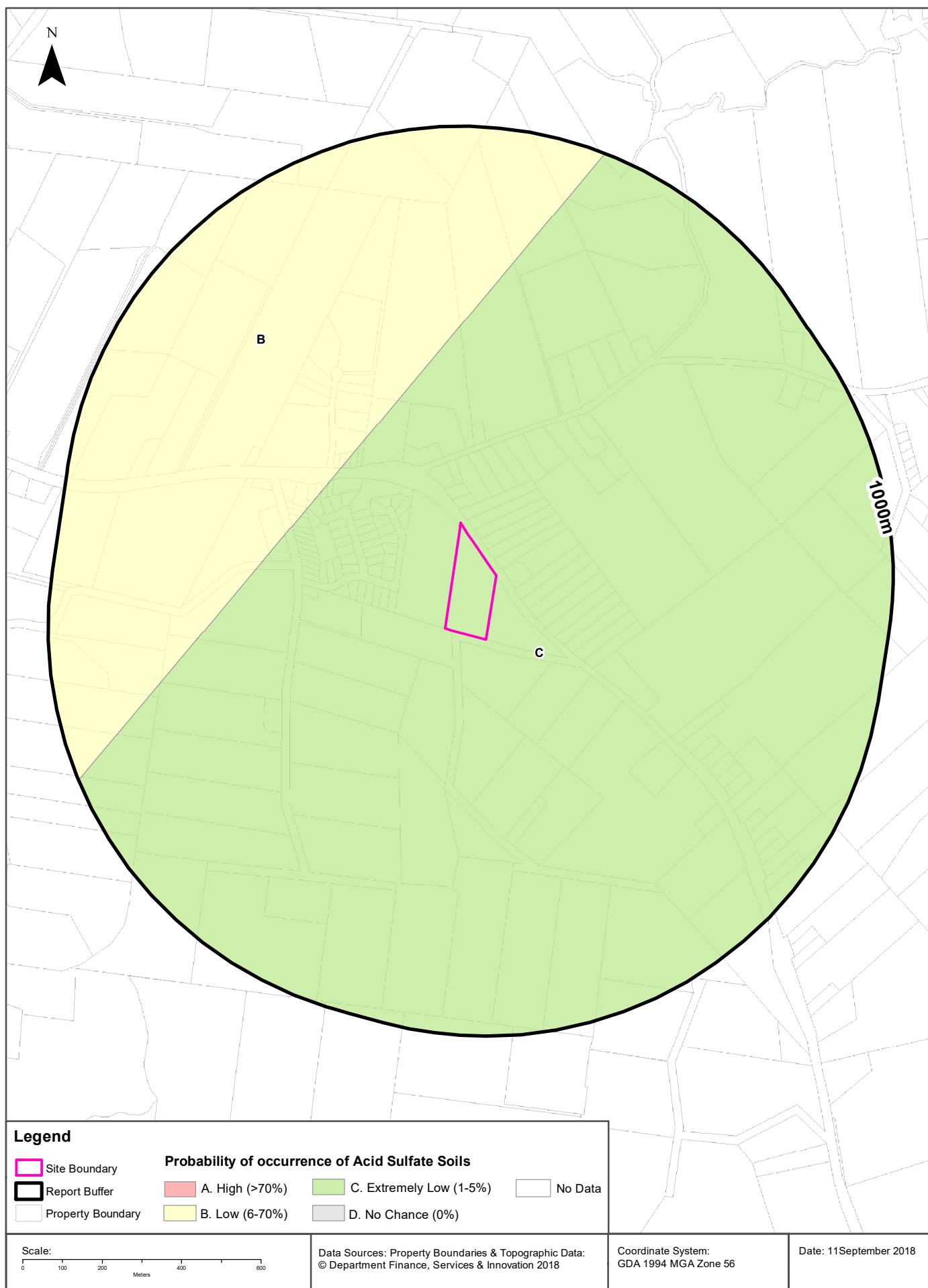
If the on-site Soil Class is 5, what other soil classes exist within 500m?

Soil Class	Description	LEP	Distance	Direction
None				

Acid Sulfate Data Source Accessed 07/10/2016: NSW Crown Copyright - Planning and Environment  
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# Atlas of Australian Acid Sulfate Soils

457 Bells Line of Road, Kurmond, NSW 2757



## Acid Sulfate Soils

457 Bells Line of Road, Kurmond, NSW 2757

### Atlas of Australian Acid Sulfate Soils

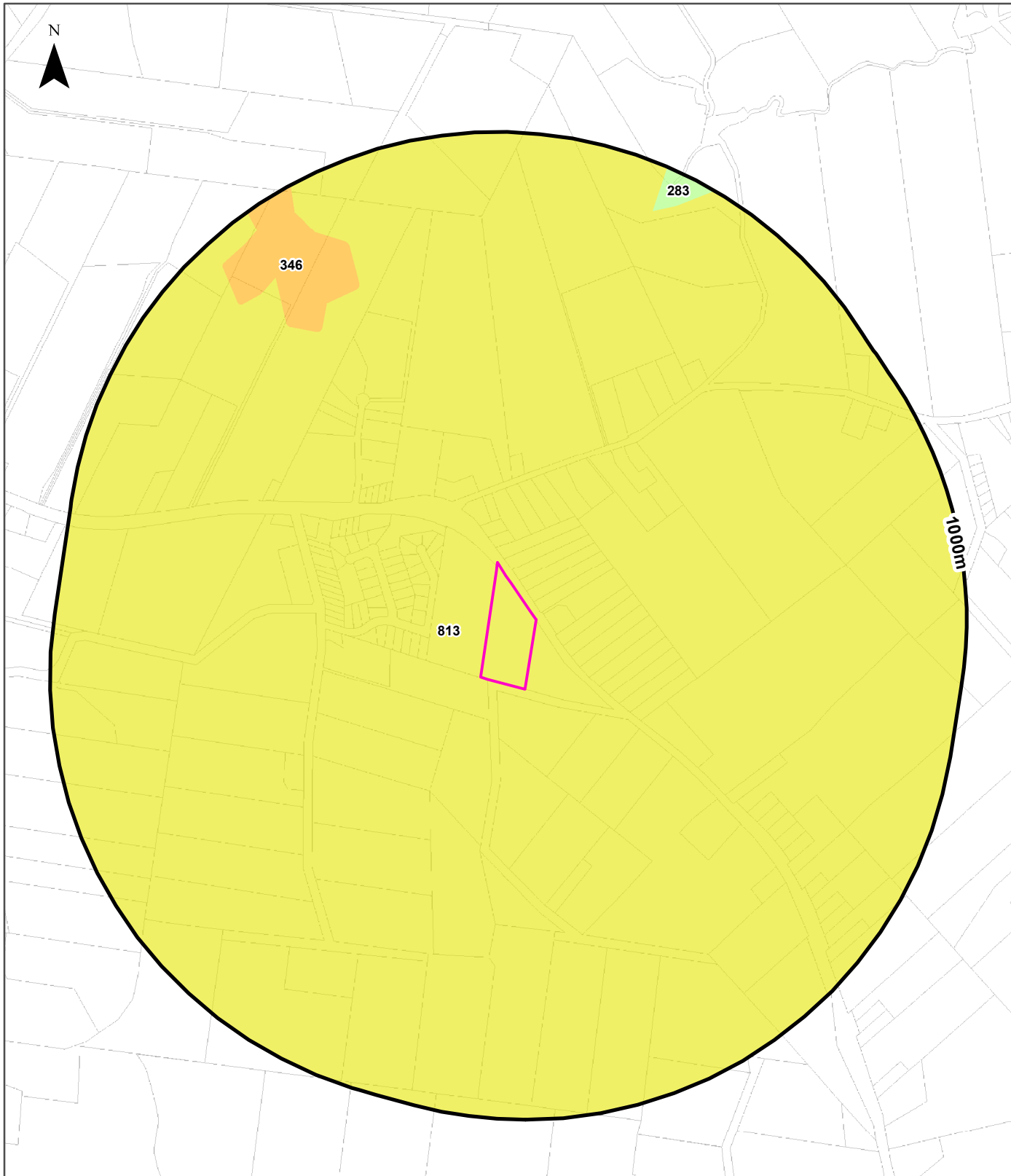
Atlas of Australian Acid Sulfate Soil categories within the dataset buffer:

Class	Description	Distance
C	Extremely low probability of occurrence. 1-5% chance of occurrence with occurrences in small localised areas.	0m
B	Low Probability of occurrence. 6-70% chance of occurrence.	320m

Atlas of Australian Acid Sulfate Soils Data Source: CSIRO

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Legend		Dryland Salinity - National Assessment		Salinity Potential of Western Sydney	
Site Boundary	Delineated risk area but no high hazard or risk rating for either 2000, 2020, 2050	High hazard or risk in 2020 and 2050	High hazard or risk defined for all years: 2000, 2020, 2050	Area of Known Salinity	
Report Buffer	High hazard or risk in 2050 only	High hazard or risk in 2000 and 2050. 2020 not defined as high hazard		Area of High Salinity Potential	
Property Boundary	High hazard or risk defined for 2050, but no assessment made for 2000 or 2020			Area of Moderate Salinity Potential	
				Area of Very Low Salinity Potential	
				Area of Water	

Scale: 0 100 200 400 600 Meters	Data Sources: Property Boundaries & Topographic Data: © Department Finance, Services & Innovation 2018	Coordinate System: GDA 1994 MGA Zone 56	Date: 11 September 2018
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# Dryland Salinity

457 Bells Line of Road, Kurmond, NSW 2757

## 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	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
813	MODERATE	Area of Moderate Salinity Potential	0m	Onsite
346	HIGH	Area of High Salinity Potential	678m	North West
283	LOW	Area of Very Low Salinity Potential	893m	East

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

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## Mining Subsidence Districts

457 Bells Line of Road, Kurmond, NSW 2757

## Mining Subsidence Districts

Mining Subsidence Districts within the dataset buffer:

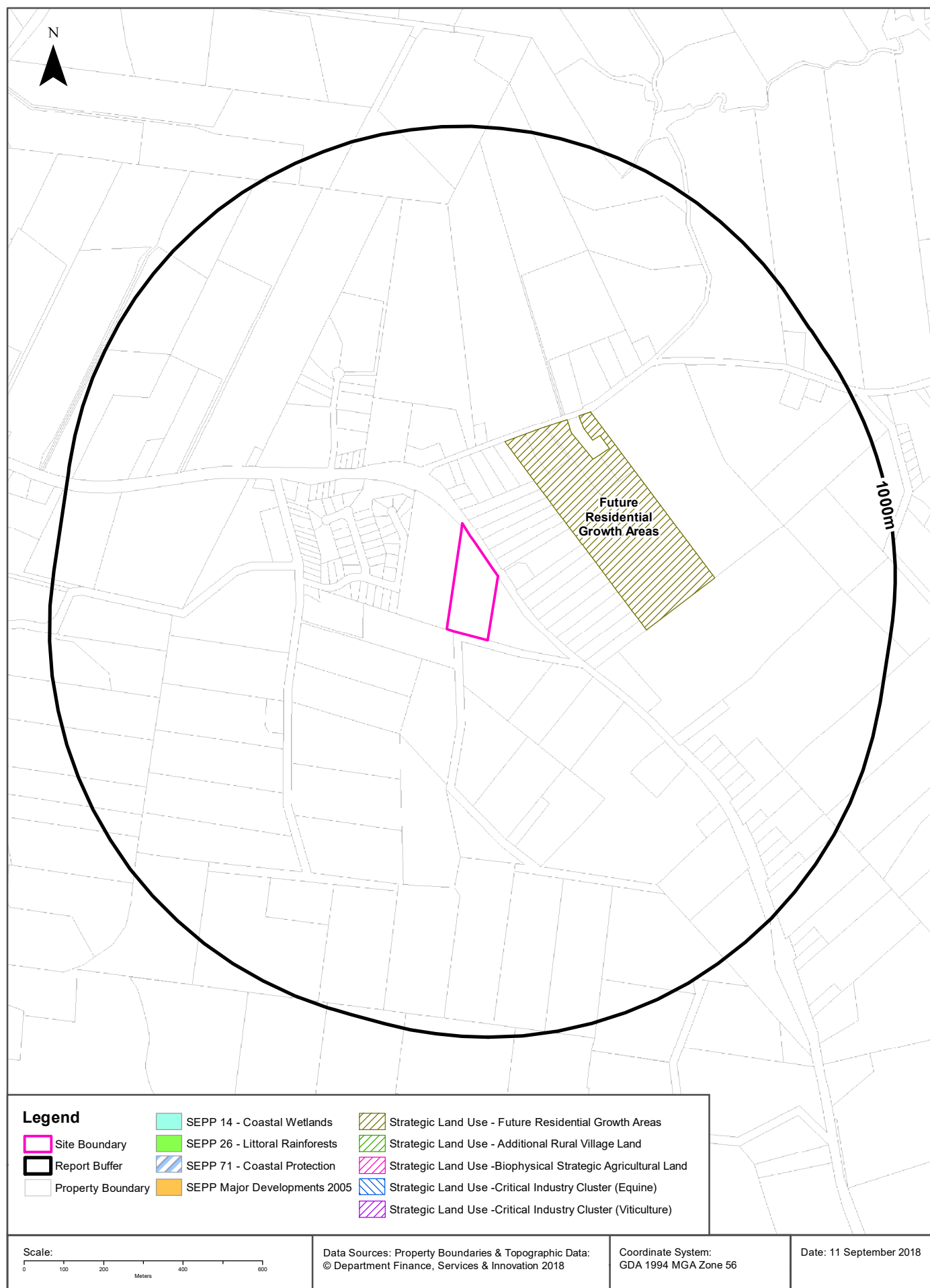
District	Distance	Direction
There are no Mining Subsidence Districts within the report buffer		

Mining Subsidence District Data Source: © Land and Property Information (2016)  
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# State Environmental Planning Policy

457 Bells Line of Road, Kurmond, NSW 2757



# Environmental Zoning

457 Bells Line of Road, Kurmond, NSW 2757

## State Environmental Planning Policy Protected Areas

Are there any State Environmental Planning Policy Protected Areas onsite or within the dataset buffer?

Dataset	Onsite	Within Site Buffer	Distance
SEPP14 - Coastal Wetlands	No	No	N/A
SEPP26 - Littoral Rainforests	No	No	N/A
SEPP71 - Coastal Protection Zone	No	No	N/A

SEPP Protected Areas Data Source: NSW Department of Planning & Environment  
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## State Environmental Planning Policy Major Developments (2005)

State Environmental Planning Policy Major Developments within the dataset buffer:

Map Id	Feature	Effective Date	Distance	Direction
N/A	No records within buffer			

SEPP Major Development Data Source: NSW Department of Planning & Environment  
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## State Environmental Planning Policy Strategic Land Use Areas

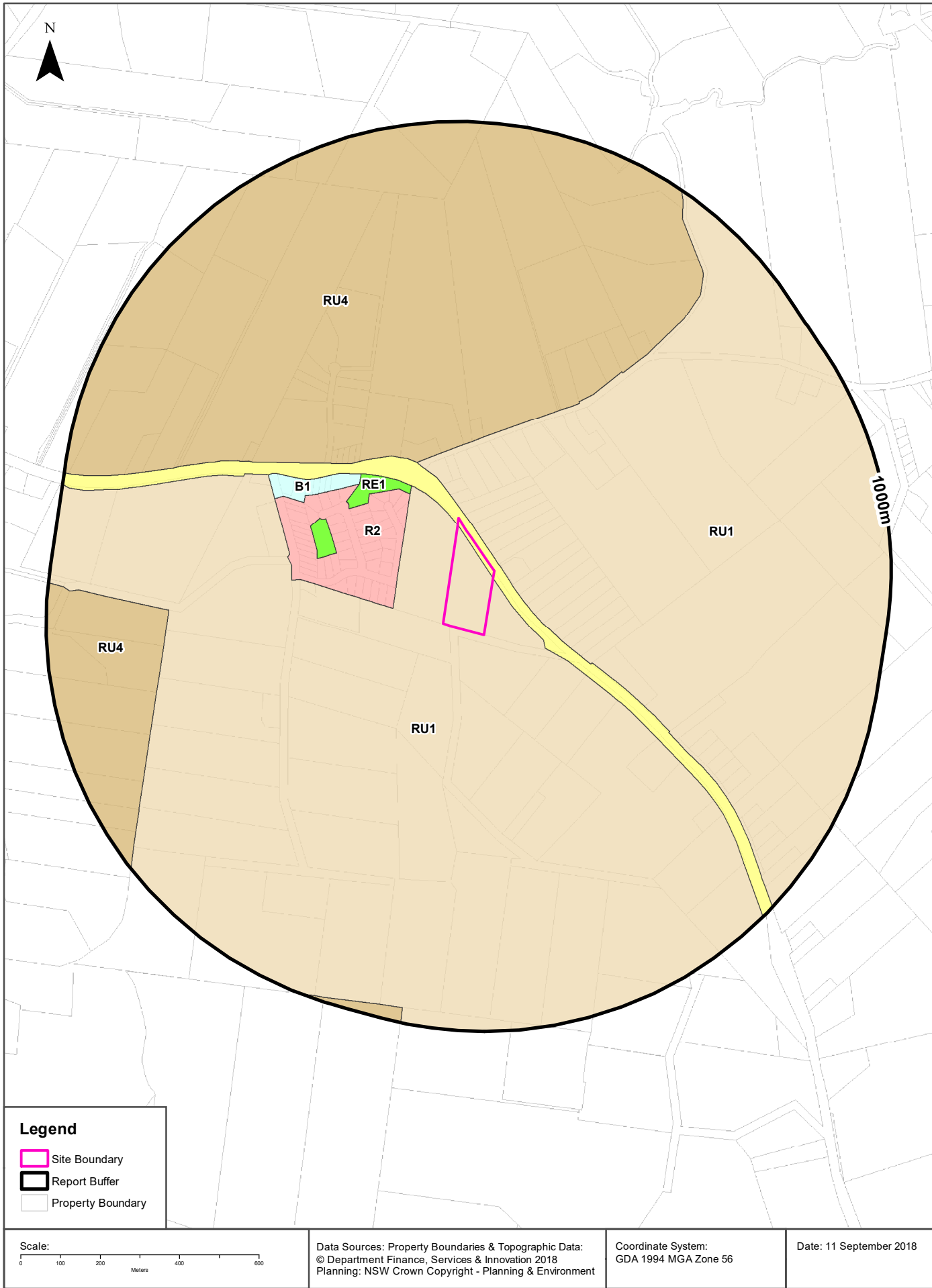
State Environmental Planning Policy Strategic Land Use Areas onsite or within the dataset buffer:

Strategic Land Use	SEPPNo	Effective Date	Amendment	Amendment Year	Distance	Direction
Future Residential Growth Areas	2007	28/01/2014	Coal Seam Gas	2014	209m	North East

SEPP Strategic Land Use Data Source: NSW Department of Planning & Environment  
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# LEP Planning Zones

457 Bells Line of Road, Kurmond, NSW 2757





# Local Environmental Plan

457 Bells Line of Road, Kurmond, NSW 2757

## Land Zoning

What Local Environmental Plan Land Zones exist within the dataset buffer?

Zone	Description	Purpose	LEP or SEPP	Published Date	Commenced Date	Currency Date	Amendment	Distance	Direction
RU1	Primary Production		Hawkesbury Local Environmental Plan 2012	21/09/2012	21/09/2012	23/06/2017		0m	Onsite
SP2	Infrastructure	Classified Road	Hawkesbury Local Environmental Plan 2012	21/09/2012	21/09/2012	23/06/2017		0m	Onsite
RU1	Primary Production		Hawkesbury Local Environmental Plan 2012	21/09/2012	21/09/2012	23/06/2017		18m	East
R2	Low Density Residential		Hawkesbury Local Environmental Plan 2012	21/09/2012	21/09/2012	23/06/2017		130m	West
RE1	Public Recreation		Hawkesbury Local Environmental Plan 2012	21/09/2012	21/09/2012	23/06/2017		137m	North West
RU4	Primary Production Small Lots		Hawkesbury Local Environmental Plan 2012	21/09/2012	21/09/2012	23/06/2017		169m	North East
B1	Neighbourhood Centre		Hawkesbury Local Environmental Plan 2012	21/09/2012	21/09/2012	23/06/2017		265m	North West
RE1	Public Recreation		Hawkesbury Local Environmental Plan 2012	21/09/2012	21/09/2012	23/06/2017		292m	West
RU4	Primary Production Small Lots		Hawkesbury Local Environmental Plan 2012	21/09/2012	21/09/2012	23/06/2017		692m	South West

Local Environment Plan Data Source: NSW Crown Copyright - Planning & Environment

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## Local Environmental Plan

457 Bells Line of Road, Kurmond, NSW 2757

### Minimum Subdivision Lot Size

What are the onsite Local Environmental Plan Minimum Subdivision Lot Sizes?

Symbol	Minimum Lot Size	LEP or SEPP	Published Date	Commenced Date	Currency Date	Amendment	Percentage of Site Area
AB1	10 ha	Hawkesbury Local Environmental Plan 2012	08/06/2018	08/06/2018	08/06/2018	Amendment No 16	91.94

### Maximum Height of Building

What are the onsite Local Environmental Plan Maximum Height of Buildings?

Symbol	Maximum Height of Building	LEP or SEPP	Published Date	Commenced Date	Currency Date	Amendment	Percentage of Site Area
11	10.00 m	Hawkesbury Local Environmental Plan 2012	21/09/2012	21/09/2012	23/06/2017		91.9

### Floor Space Ratio

What are the onsite Local Environmental Plan Floor Space Ratios?

Symbol	Floor Space Ratio	LEP or SEPP	Published Date	Commenced Date	Currency Date	Amendment	Percentage of Site Area
No Data							

### Land Application

What are the onsite Local Environmental Plan Land Applications?

Application Type	LEP or SEPP	Published Date	Commenced Date	Currency Date	Amendment	Percentage of Site Area
Included	Hawkesbury Local Environmental Plan 2012	21/09/2012	21/09/2012	21/09/2012		100

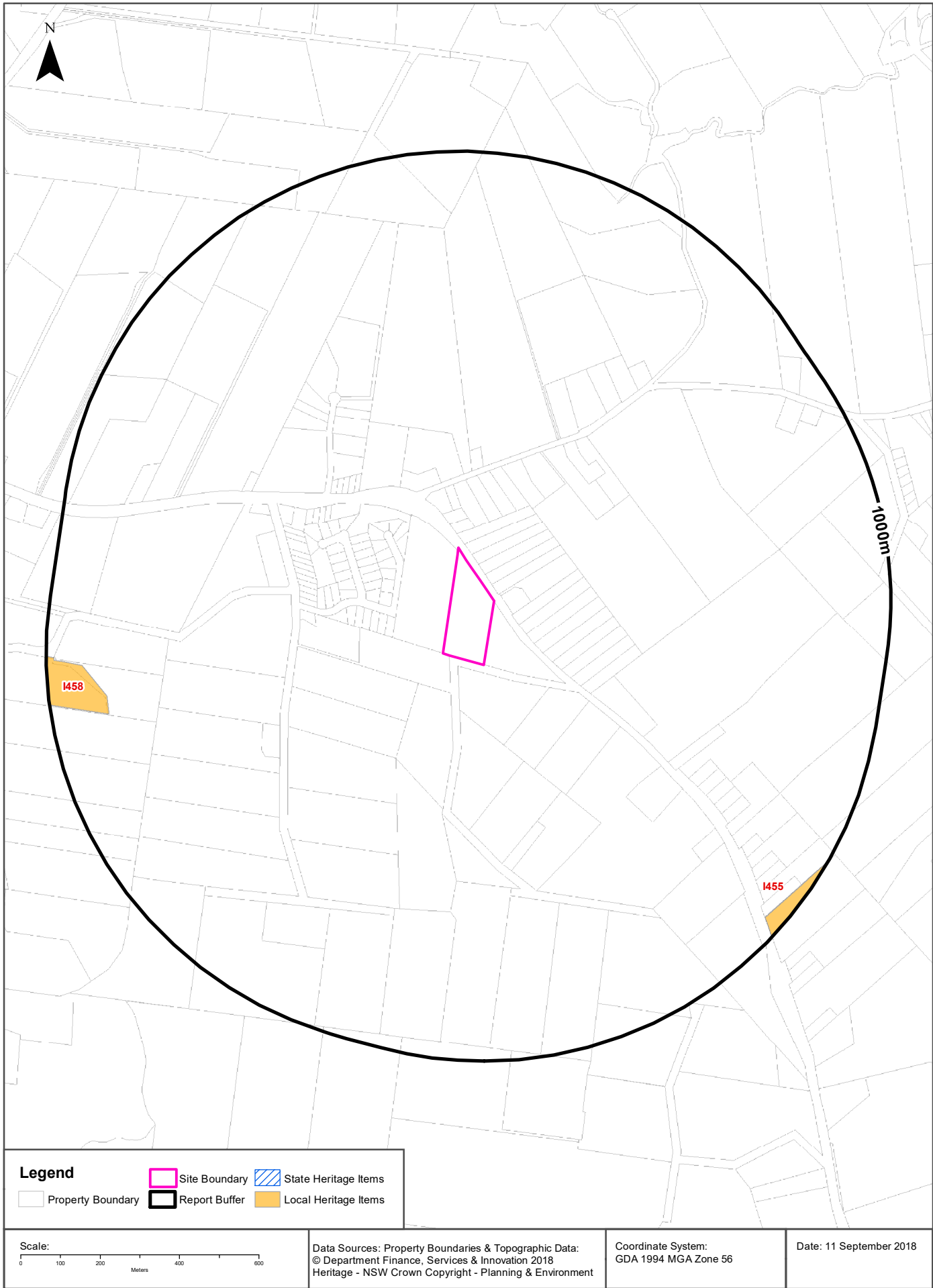
### Land Reservation Acquisition

What are the onsite Local Environmental Plan Land Reservation Acquisitions?

Reservation	LEP	Published Date	Commenced Date	Currency Date	Amendment	Comments	Percentage of Site Area
No Data							

# Heritage Items

457 Bells Line of Road, Kurmond, NSW 2757





## Heritage

457 Bells Line of Road, Kurmond, NSW 2757

### State Heritage Items

What are the State Heritage 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 - Planning & Environment

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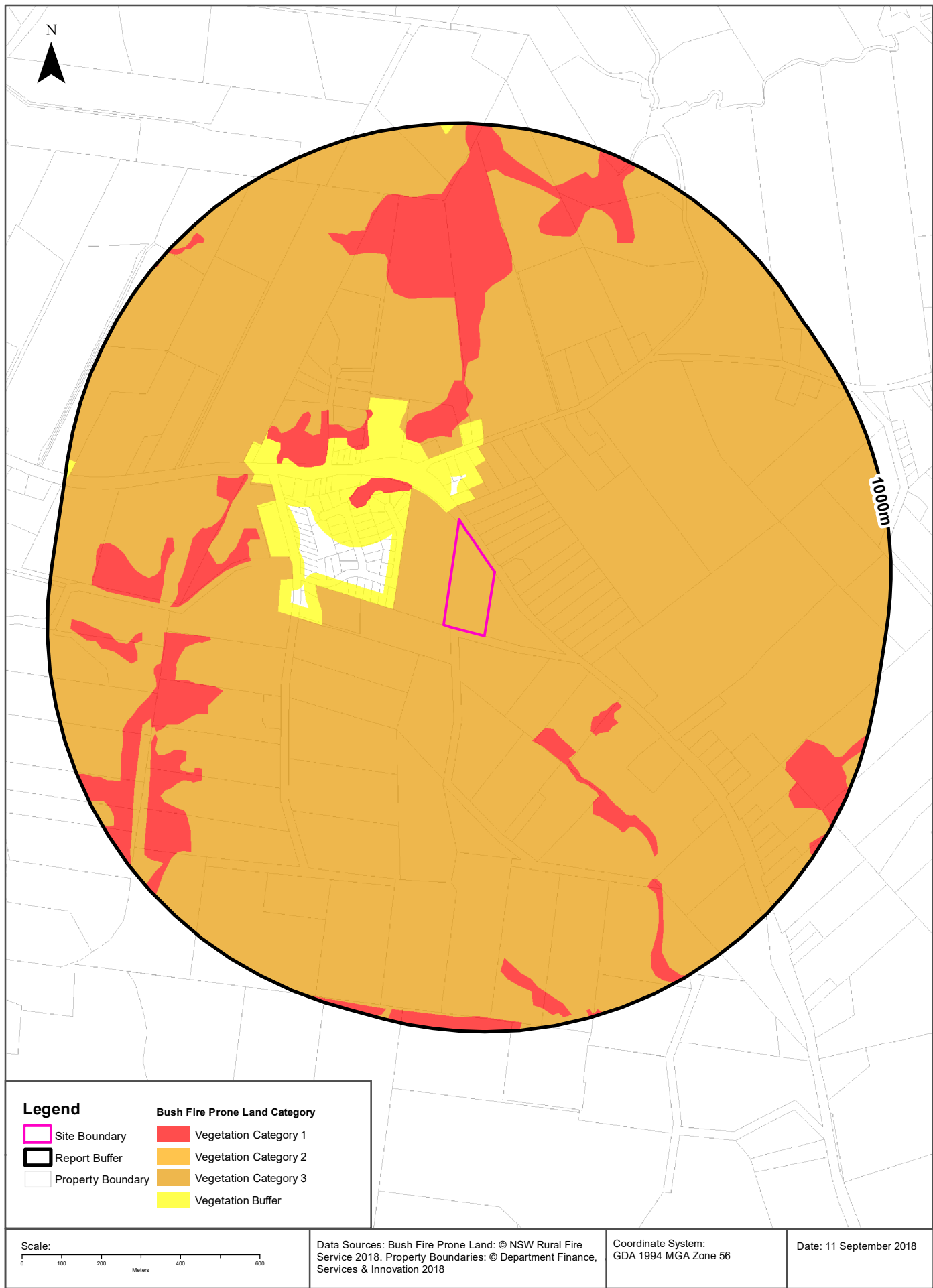
### Local Heritage Items

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

Map Id	Name	Classification	Significance	LEP or Act	Published Date	Commenced Date	Currency Date	Distance	Direction
I458	'Longleat'	Item - General	Local	Hawkesbury Local Environmental Plan 2012	21/09/2012	21/09/2012	21/09/2012	854m	West
I455	'Inverary'	Item - General	Local	Hawkesbury Local Environmental Plan 2012	21/09/2012	21/09/2012	21/09/2012	952m	South East

Heritage Data Source: NSW Crown Copyright - Planning & Environment

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## Natural Hazards

457 Bells Line of Road, Kurmond, NSW 2757

### Bush Fire Prone Land

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

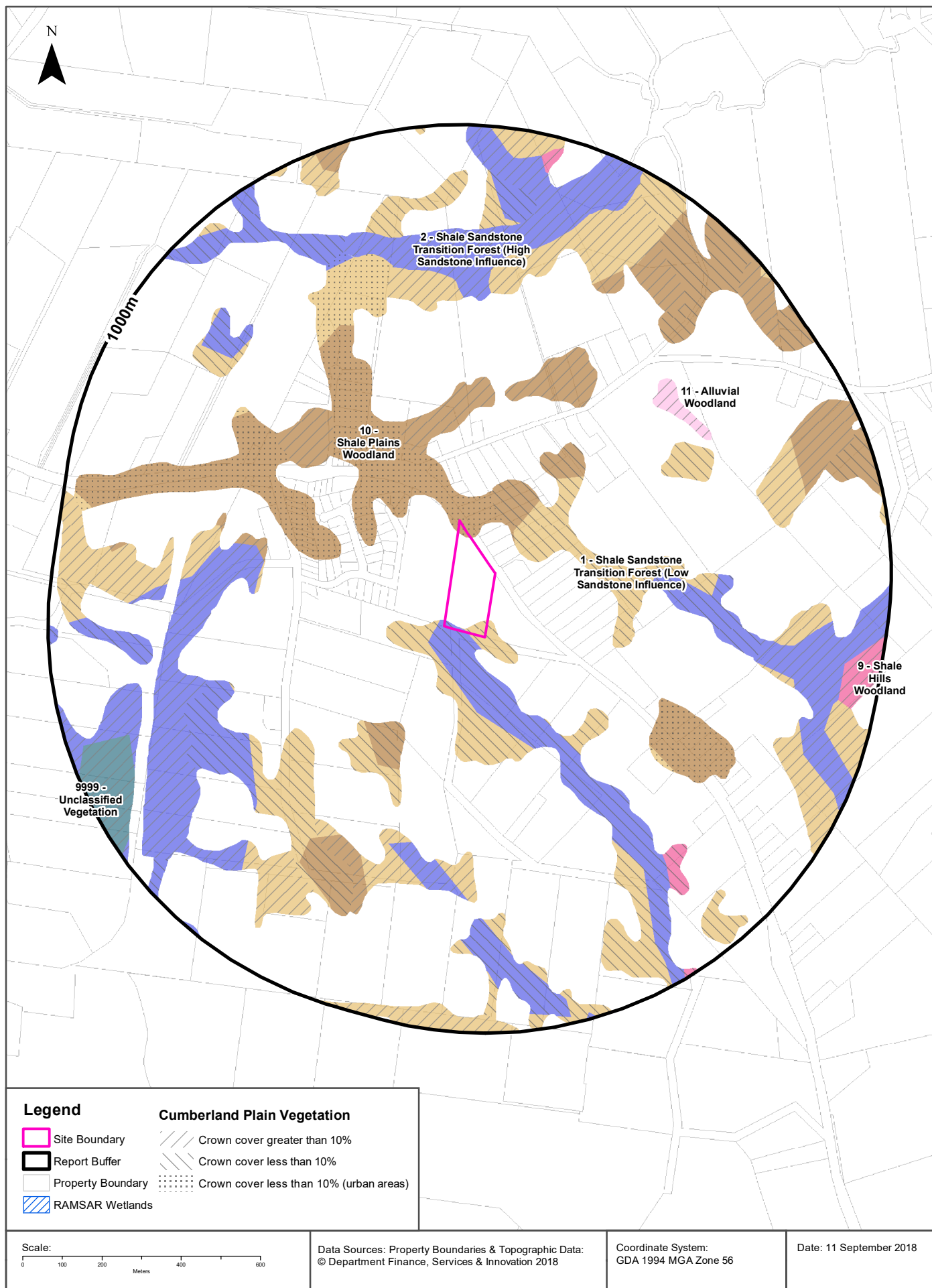
Bush Fire Prone Land Category	Distance	Direction
Vegetation Category 3	0m	Onsite
Vegetation Buffer	32m	North West
Vegetation Category 1	143m	North West

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



Ecological Constraints - Remnant Vegetation of the Cumberland Plain

457 Bells Line of Road, Kurmond, NSW 2757



## Ecological Constraints

457 Bells Line of Road, Kurmond, NSW 2757

### Remnant Vegetation of the Cumberland Plain

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

Description	Crown Cover	Distance	Direction
1 - Shale Sandstone Transition Forest (Low Sandstone Influence)	Crown cover less than 10%	0m	Onsite
2 - Shale Sandstone Transition Forest (High Sandstone Influence)	Crown cover less than 10%	0m	Onsite
10 - Shale Plains Woodland	Crown cover less than 10% (urban areas)	0m	Onsite
10 - Shale Plains Woodland	Crown cover less than 10%	80m	North East
10 - Shale Plains Woodland	Crown cover greater than 10%	187m	North
1 - Shale Sandstone Transition Forest (Low Sandstone Influence)	Crown cover greater than 10%	470m	West
2 - Shale Sandstone Transition Forest (High Sandstone Influence)	Crown cover greater than 10%	473m	West
1 - Shale Sandstone Transition Forest (Low Sandstone Influence)	Crown cover less than 10% (urban areas)	493m	South East
11 - Alluvial Woodland	Crown cover greater than 10%	570m	North East
9 - Shale Hills Woodland	Crown cover less than 10%	706m	South East
2 - Shale Sandstone Transition Forest (High Sandstone Influence)	Crown cover less than 10% (urban areas)	714m	North
9999 - Unclassified Vegetation	Crown cover greater than 10%	840m	South West
9 - Shale Hills Woodland	Crown cover greater than 10%	905m	East
9 - Shale Hills Woodland	Crown cover greater than 10%	905m	North

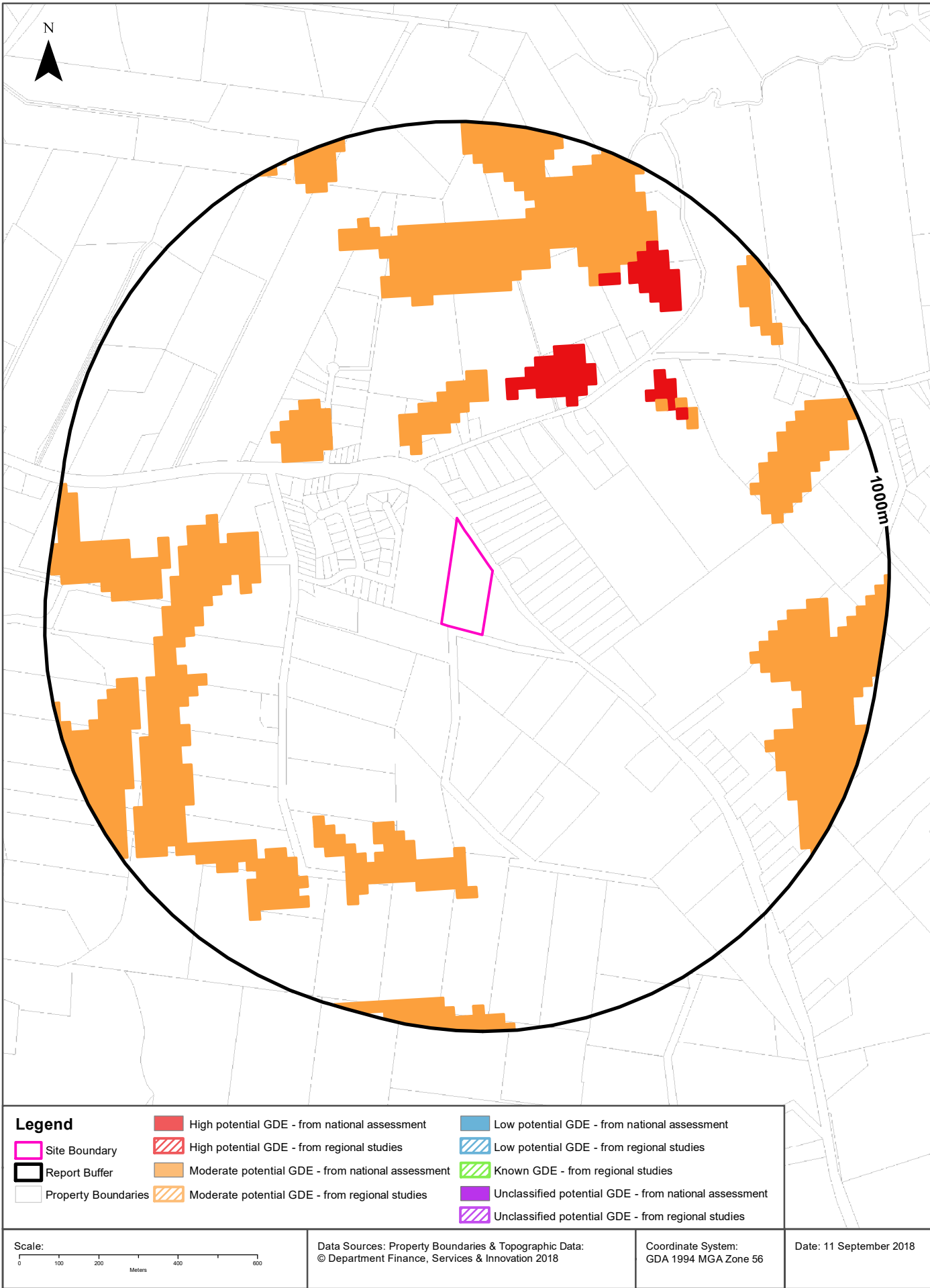
Remnant Vegetation of the Cumberland Plain : NSW Office of Environment and Heritage  
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### RAMSAR Wetlands

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 Environment





## Ecological Constraints

457 Bells Line of Road, Kurmond, NSW 2757

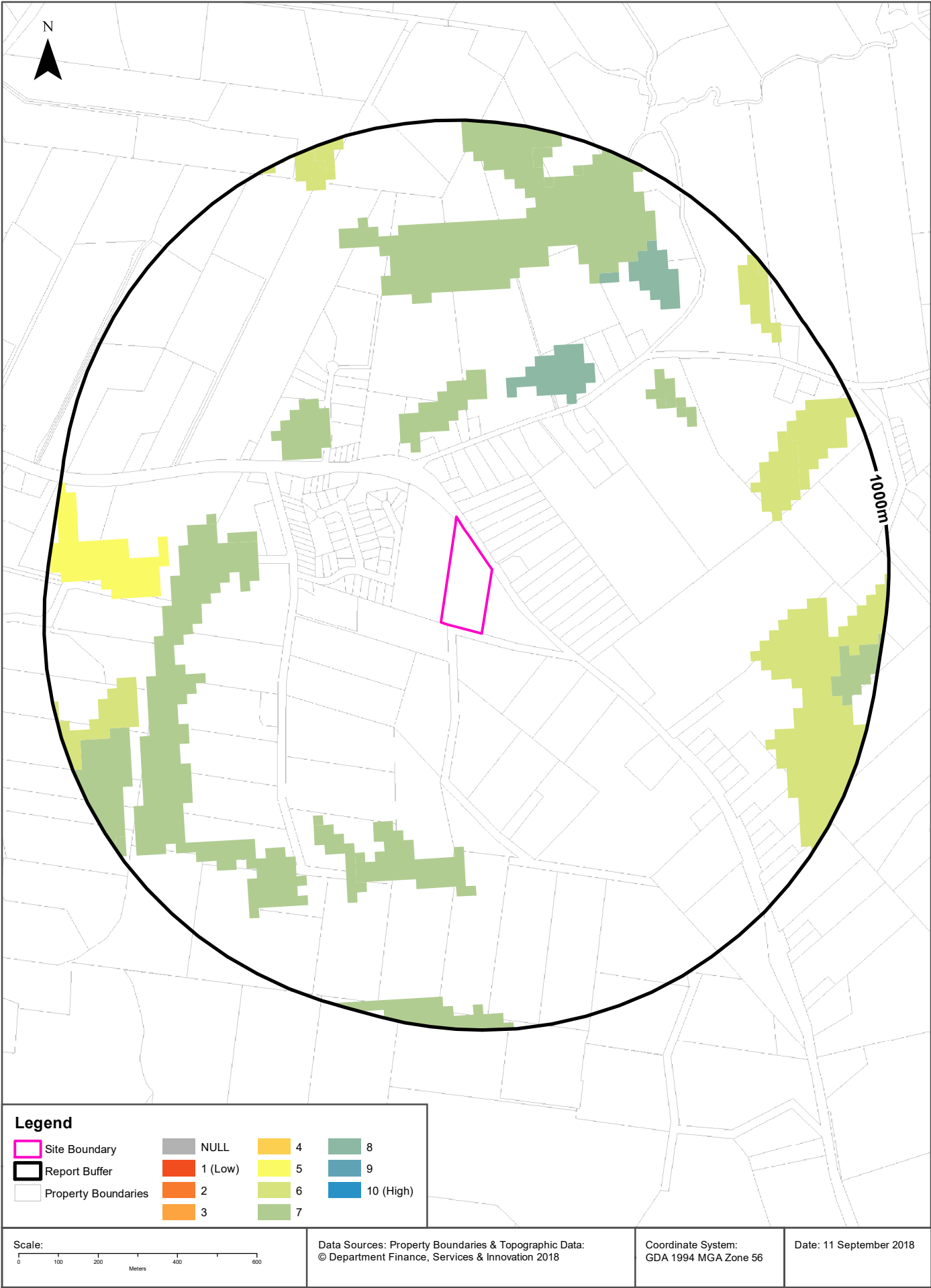
### Groundwater Dependent Ecosystems Atlas

Type	GDE Potential	Geomorphology	Ecosystem Type	Aquifer Geology	Distance
Terrestrial	Moderate potential GDE - from national assessment	Deeply dissected sandstone plateaus.	Vegetation	Consolidated sedimentary	184m
Terrestrial	High potential GDE - from national assessment	Deeply dissected sandstone plateaus.	Vegetation	Consolidated sedimentary	325m

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

457 Bells Line of Road, Kurmond, NSW 2757



## Ecological Constraints

457 Bells Line of Road, Kurmond, NSW 2757

### Inflow Dependent Ecosystems Likelihood

Type	IDE Likelihood	Geomorphology	Ecosystem Type	Aquifer Geology	Distance
Terrestrial	7	Deeply dissected sandstone plateaus.	Vegetation	Consolidated sedimentary	184m
Terrestrial	8	Deeply dissected sandstone plateaus.	Vegetation	Consolidated sedimentary	325m
Terrestrial	6	Deeply dissected sandstone plateaus.	Vegetation	Consolidated sedimentary	674m
Terrestrial	5	Deeply dissected sandstone plateaus.	Vegetation	Consolidated sedimentary	696m

Inflow Dependent Ecosystems Likelihood Data Source: The Bureau of Meteorology  
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# Ecological Constraints

457 Bells Line of Road, Kurmond, NSW 2757

## 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?

Data does not include NSW category 1 sensitive species.

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 aurea	Green and Golden Bell Frog	Endangered	Not Sensitive	Vulnerable	
Animalia	Amphibia	Pseudophryne australis	Red-crowned Toadlet	Vulnerable	Not Sensitive	Not Listed	
Animalia	Aves	Actitis hypoleucos	Common Sandpiper	Not Listed	Not Sensitive	Not Listed	ROKAMBA;CAMBA; JAMBA
Animalia	Aves	Anthochaera phrygia	Regent Honeyeater	Critically Endangered	Not Sensitive	Critically Endangered	
Animalia	Aves	Apus pacificus	Fork-tailed Swift	Not Listed	Not Sensitive	Not Listed	ROKAMBA;CAMBA; JAMBA
Animalia	Aves	Ardea ibis	Cattle Egret	Not Listed	Not Sensitive	Not Listed	CAMBA;JAMBA
Animalia	Aves	Artamus cyanopterus cyanopterus	Dusky Woodswallow	Vulnerable	Not Sensitive	Not Listed	
Animalia	Aves	Botaurus poiciloptilus	Australasian Bittern	Endangered	Not Sensitive	Endangered	
Animalia	Aves	Calidris acuminata	Sharp-tailed Sandpiper	Not Listed	Not Sensitive	Not Listed	ROKAMBA;CAMBA; JAMBA
Animalia	Aves	Calidris ferruginea	Curlew Sandpiper	Endangered	Not Sensitive	Critically Endangered	ROKAMBA;CAMBA; JAMBA
Animalia	Aves	Calidris melanotos	Pectoral Sandpiper	Not Listed	Not Sensitive	Not Listed	ROKAMBA;JAMBA
Animalia	Aves	Calidris ruficollis	Red-necked Stint	Not Listed	Not Sensitive	Not Listed	ROKAMBA;CAMBA; JAMBA
Animalia	Aves	Callocephalon fimbriatum	Gang-gang Cockatoo	Vulnerable	Category 3	Not Listed	
Animalia	Aves	Calyptorhynchus lathamii	Glossy Black-Cockatoo	Vulnerable	Category 2	Not Listed	
Animalia	Aves	Chlidonias leucopterus	White-winged Black Tern	Not Listed	Not Sensitive	Not Listed	ROKAMBA;CAMBA; JAMBA
Animalia	Aves	Chthonicola sagittata	Speckled Warbler	Vulnerable	Not Sensitive	Not Listed	
Animalia	Aves	Circus assimilis	Spotted Harrier	Vulnerable	Not Sensitive	Not Listed	
Animalia	Aves	Daphoenositta chrysoptera	Varied Sittella	Vulnerable	Not Sensitive	Not Listed	
Animalia	Aves	Epthianura albifrons	White-fronted Chat	Vulnerable	Not Sensitive	Not Listed	
Animalia	Aves	Falco subniger	Black Falcon	Vulnerable	Not Sensitive	Not Listed	
Animalia	Aves	Gallinago hardwickii	Latham's Snipe	Not Listed	Not Sensitive	Not Listed	ROKAMBA;CAMBA; JAMBA
Animalia	Aves	Gelochelidon nilotica	Gull-billed Tern	Not Listed	Not Sensitive	Not Listed	CAMBA
Animalia	Aves	Glareola maldivarum	Oriental Pratincole	Not Listed	Not Sensitive	Not Listed	ROKAMBA;CAMBA; JAMBA
Animalia	Aves	Glossopsitta pusilla	Little Lorikeet	Vulnerable	Not Sensitive	Not Listed	
Animalia	Aves	Grantiella picta	Painted Honeyeater	Vulnerable	Not Sensitive	Vulnerable	
Animalia	Aves	Haliaeetus leucogaster	White-bellied Sea-Eagle	Vulnerable	Not Sensitive	Not Listed	CAMBA

Kingdom	Class	Scientific	Common	NSW Conservation Status	NSW Sensitivity Class	Federal Conservation Status	Migratory Species Agreements
Animalia	Aves	Hieraaetus morphnoides	Little Eagle	Vulnerable	Not Sensitive	Not Listed	
Animalia	Aves	Hirundapus caudacutus	White-throated Needletail	Not Listed	Not Sensitive	Not Listed	ROKAMBA;CAMBA; JAMBA
Animalia	Aves	Hydroprogne caspia	Caspian Tern	Not Listed	Not Sensitive	Not Listed	CAMBA;JAMBA
Animalia	Aves	Irediparra gallinacea	Comb-crested Jacana	Vulnerable	Not Sensitive	Not Listed	
Animalia	Aves	Ixobrychus flavicollis	Black Bittern	Vulnerable	Not Sensitive	Not Listed	
Animalia	Aves	Lathamus discolor	Swift Parrot	Endangered	Category 3	Critically Endangered	
Animalia	Aves	Limosa limosa	Black-tailed Godwit	Vulnerable	Not Sensitive	Not Listed	ROKAMBA;CAMBA; JAMBA
Animalia	Aves	Lophoictinia isura	Square-tailed Kite	Vulnerable	Category 3	Not Listed	
Animalia	Aves	Melithreptus gularis gularis	Black-chinned Honeyeater (eastern subspecies)	Vulnerable	Not Sensitive	Not Listed	
Animalia	Aves	Merops ornatus	Rainbow Bee-eater	Not Listed	Not Sensitive	Not Listed	JAMBA
Animalia	Aves	Motacilla flava	Yellow Wagtail	Not Listed	Not Sensitive	Not Listed	ROKAMBA;CAMBA; JAMBA
Animalia	Aves	Neochmia ruficauda	Star Finch	Presumed Extinct	Not Sensitive	Endangered	
Animalia	Aves	Ninox connivens	Barking Owl	Vulnerable	Category 3	Not Listed	
Animalia	Aves	Ninox strenua	Powerful Owl	Vulnerable	Category 3	Not Listed	
Animalia	Aves	Numenius minutus	Little Curlew	Not Listed	Not Sensitive	Not Listed	ROKAMBA;CAMBA; JAMBA
Animalia	Aves	Onychoprion fuscata	Sooty Tern	Vulnerable	Not Sensitive	Not Listed	
Animalia	Aves	Pachycephala olivacea	Olive Whistler	Vulnerable	Not Sensitive	Not Listed	
Animalia	Aves	Petroica boodang	Scarlet Robin	Vulnerable	Not Sensitive	Not Listed	
Animalia	Aves	Petroica phoenicea	Flame Robin	Vulnerable	Not Sensitive	Not Listed	
Animalia	Aves	Petroica rodinogaster	Pink Robin	Vulnerable	Not Sensitive	Not Listed	
Animalia	Aves	Plegadis falcinellus	Glossy Ibis	Not Listed	Not Sensitive	Not Listed	CAMBA
Animalia	Aves	Polytelis swainsonii	Superb Parrot	Vulnerable	Category 3	Vulnerable	
Animalia	Aves	Pomatostomus temporalis temporalis	Grey-crowned Babbler (eastern subspecies)	Vulnerable	Not Sensitive	Not Listed	
Animalia	Aves	Stictonetta naevosa	Freckled Duck	Vulnerable	Not Sensitive	Not Listed	
Animalia	Aves	Tringa glareola	Wood Sandpiper	Not Listed	Not Sensitive	Not Listed	ROKAMBA;CAMBA; JAMBA
Animalia	Aves	Tringa nebularia	Common Greenshank	Not Listed	Not Sensitive	Not Listed	ROKAMBA;CAMBA; JAMBA
Animalia	Aves	Tringa stagnatilis	Marsh Sandpiper	Not Listed	Not Sensitive	Not Listed	ROKAMBA;CAMBA; JAMBA
Animalia	Aves	Tryngites subruficollis	Buff-breasted Sandpiper	Not Listed	Not Sensitive	Not Listed	ROKAMBA;JAMBA
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	Gastropoda	Pommerhelix duralensis	Dural Woodland Snail	Endangered	Not Sensitive	Endangered	
Animalia	Insecta	Petalura gigantea	Giant Dragonfly	Endangered	Not Sensitive	Not Listed	

Kingdom	Class	Scientific	Common	NSW Conservation Status	NSW Sensitivity Class	Federal Conservation Status	Migratory Species Agreements
Animalia	Mammalia	Cercartetus nanus	Eastern Pygmy-possum	Vulnerable	Not Sensitive	Not Listed	
Animalia	Mammalia	Chalinolobus dwyeri	Large-eared Pied Bat	Vulnerable	Not Sensitive	Vulnerable	
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	Miniopterus australis	Little Bentwing-bat	Vulnerable	Not Sensitive	Not Listed	
Animalia	Mammalia	Miniopterus schreibersii oceanensis	Eastern Bentwing-bat	Vulnerable	Not Sensitive	Not Listed	
Animalia	Mammalia	Mormopterus norfolkensis	Eastern Freetail-bat	Vulnerable	Not Sensitive	Not Listed	
Animalia	Mammalia	Myotis macropus	Southern Myotis	Vulnerable	Not Sensitive	Not Listed	
Animalia	Mammalia	Petauroides volans	Greater Glider	Not Listed	Not Sensitive	Vulnerable	
Animalia	Mammalia	Petaurus australis	Yellow-bellied Glider	Vulnerable	Not Sensitive	Not Listed	
Animalia	Mammalia	Petaurus norfolcensis	Squirrel Glider	Vulnerable	Not Sensitive	Not Listed	
Animalia	Mammalia	Petrogale penicillata	Brush-tailed Rock-wallaby	Endangered	Not Sensitive	Vulnerable	
Animalia	Mammalia	Phascogale cinerea	Koala	Vulnerable	Not Sensitive	Vulnerable	
Animalia	Mammalia	Pteropus poliocephalus	Grey-headed Flying-fox	Vulnerable	Not Sensitive	Vulnerable	
Animalia	Mammalia	Saccolaimus flaviventris	Yellow-bellied Sheath-tail-bat	Vulnerable	Not Sensitive	Not Listed	
Animalia	Mammalia	Scoteanax rueppellii	Greater Broad-nosed Bat	Vulnerable	Not Sensitive	Not Listed	
Animalia	Mammalia	Vespadelus troughtoni	Eastern Cave Bat	Vulnerable	Not Sensitive	Not Listed	
Animalia	Reptilia	Hoplocephalus bungaroides	Broad-headed Snake	Endangered	Category 2	Vulnerable	
Plantae	Flora	Acacia bynoeana	Bynoe's Wattle	Endangered	Not Sensitive	Vulnerable	
Plantae	Flora	Acrophyllum australe		Vulnerable	Not Sensitive	Vulnerable	
Plantae	Flora	Allocasuarina glauca		Endangered	Not Sensitive	Endangered	
Plantae	Flora	Cymbidium canaliculatum	Tiger Orchid	Not Listed	Category 2	Not Listed	
Plantae	Flora	Cynanchum elegans	White-flowered Wax Plant	Endangered	Not Sensitive	Endangered	
Plantae	Flora	Dillwynia tenuifolia		Vulnerable	Not Sensitive	Not Listed	
Plantae	Flora	Epacris sparsa	Sparse Heath	Vulnerable	Not Sensitive	Vulnerable	
Plantae	Flora	Eucalyptus benthamii	Camden White Gum	Vulnerable	Not Sensitive	Vulnerable	
Plantae	Flora	Grammitis stenophylla	Narrow-leaf Finger Fern	Endangered	Category 3	Not Listed	
Plantae	Flora	Grevillea juniperina subsp. juniperina	Juniper-leaved Grevillea	Vulnerable	Not Sensitive	Not Listed	
Plantae	Flora	Leucopogon exolasius	Woronora Beard-heath	Vulnerable	Not Sensitive	Vulnerable	
Plantae	Flora	Leucopogon fletcheri subsp. fletcheri		Endangered	Not Sensitive	Not Listed	
Plantae	Flora	Marsdenia viridiflora subsp. viridiflora	Native Pear	Endangered Population	Not Sensitive	Not Listed	
Plantae	Flora	Micromyrtus minutiflora		Endangered	Not Sensitive	Vulnerable	
Plantae	Flora	Persoonia hirsuta	Hairy Geebung	Endangered	Category 3	Endangered	



Kingdom	Class	Scientific	Common	NSW Conservation Status	NSW Sensitivity Class	Federal Conservation Status	Migratory Species Agreements
Plantae	Flora	Persoonia nutans	Nodding Geebung	Endangered	Not Sensitive	Endangered	
Plantae	Flora	Pimelea curviflora subsp. curviflora		Vulnerable	Not Sensitive	Vulnerable	
Plantae	Flora	Pimelea curviflora var. curviflora		Vulnerable	Not Sensitive	Vulnerable	
Plantae	Flora	Pimelea spicata	Spiked Rice-flower	Endangered	Not Sensitive	Endangered	
Plantae	Flora	Pterostylis saxicola	Sydney Plains Greenhood	Endangered	Category 2	Endangered	
Plantae	Flora	Pultenaea parviflora		Endangered	Not Sensitive	Vulnerable	
Plantae	Flora	Syzygium paniculatum	Magenta Lilly Pilly	Endangered	Not Sensitive	Vulnerable	
Plantae	Flora	Tetradlea glandulosa		Vulnerable	Not Sensitive	Not Listed	
Plantae	Flora	Tylophora woollsii	Cryptic Forest Twiner	Endangered	Not Sensitive	Endangered	
Plantae	Flora	Zieria involucrata		Endangered	Not Sensitive	Vulnerable	

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  - (c) the Third Party Content Suppliers do not constitute an exhaustive set of all repositories or sources of information available in relation to the property which is the subject of the Report (**Property**) and accordingly neither Lotsearch nor Third Party Content Suppliers gives any warranty in relation to the accuracy or completeness of the Third Party Content incorporated into the report including any contaminated land assessment or other assessment included as part of a Report;
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  - (e) Reports must be used or reproduced in their entirety and End User must not reproduce or make available to other persons only parts of the Report;
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  - (i) the Report should not be used or taken to indicate or exclude actual fitness or unfitness of Land or Property for any particular purpose
  - (j) the Report should not be relied upon for determining saleability or value or making any other decisions in relation to the Property and in particular should not be taken to be a rating or assessment of the desirability or market value of the property or its features; and
  - (k) the End User should undertake its own inspections of the Land or Property to satisfy itself that there are no defects or failures
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  - (c) releases each Third Party Content Supplier from any claim it may have otherwise had in connection with the Report, or the negotiation of, entry into, performance of, or termination of these Terms.
5. The End User acknowledges that any Third Party Supplier shall be entitled to plead the benefits conferred on it under clause 4, despite not being a party to these terms.
  6. End User must not remove any copyright notices, trade marks, digital rights management information, other embedded information, disclaimers or limitations from the Report or authorise any person to do so.
  7. End User acknowledges and agrees that Lotsearch and Third Party Content Suppliers retain ownership of all copyright, patent, design right (registered or unregistered), trade marks (registered or unregistered), database right or other data right, moral right or know how or any other intellectual property right in any Report or any other item, information or data included in or provided as part of a Report.
  8. To the extent permitted by law and subject to paragraph 9, all implied terms, representations and warranties whether statutory or otherwise relating to the subject matter of these Terms other than as expressly set out in these Terms are excluded.
  9. Subject to paragraph 6, Lotsearch excludes liability to End User for loss or damage of any kind, however caused, due to Lotsearch's negligence, breach of contract, breach of any law, in equity, under indemnities or otherwise, arising out of all acts, omissions and events whenever occurring.
  10. Lotsearch acknowledges that if, under applicable State, Territory or Commonwealth law, End User is a consumer certain rights may be conferred on End User which cannot be excluded, restricted or modified. If so, and if that law applies to Lotsearch, then, Lotsearch's liability is limited to the greater of an amount equal to the cost of resupplying the Report and the maximum extent permitted under applicable laws.
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    - (b) any loss of profit, loss of revenue, loss of interest, loss of data, loss of goodwill or loss of business opportunities, business interruption arising directly or indirectly out of or in relation to the Report or these Terms,irrespective of how that liability arises including in contract or tort, liability under indemnity or for any other common law, equitable or statutory cause of action or otherwise.
  12. These Terms are subject to New South Wales law.





# LOTSEARCH

LOTSEARCH AERIALS

**Date: 14 Sep 2018**

**Reference: LS004139**

**Address: 95 Bells Lane, Kurmond, NSW 2757**







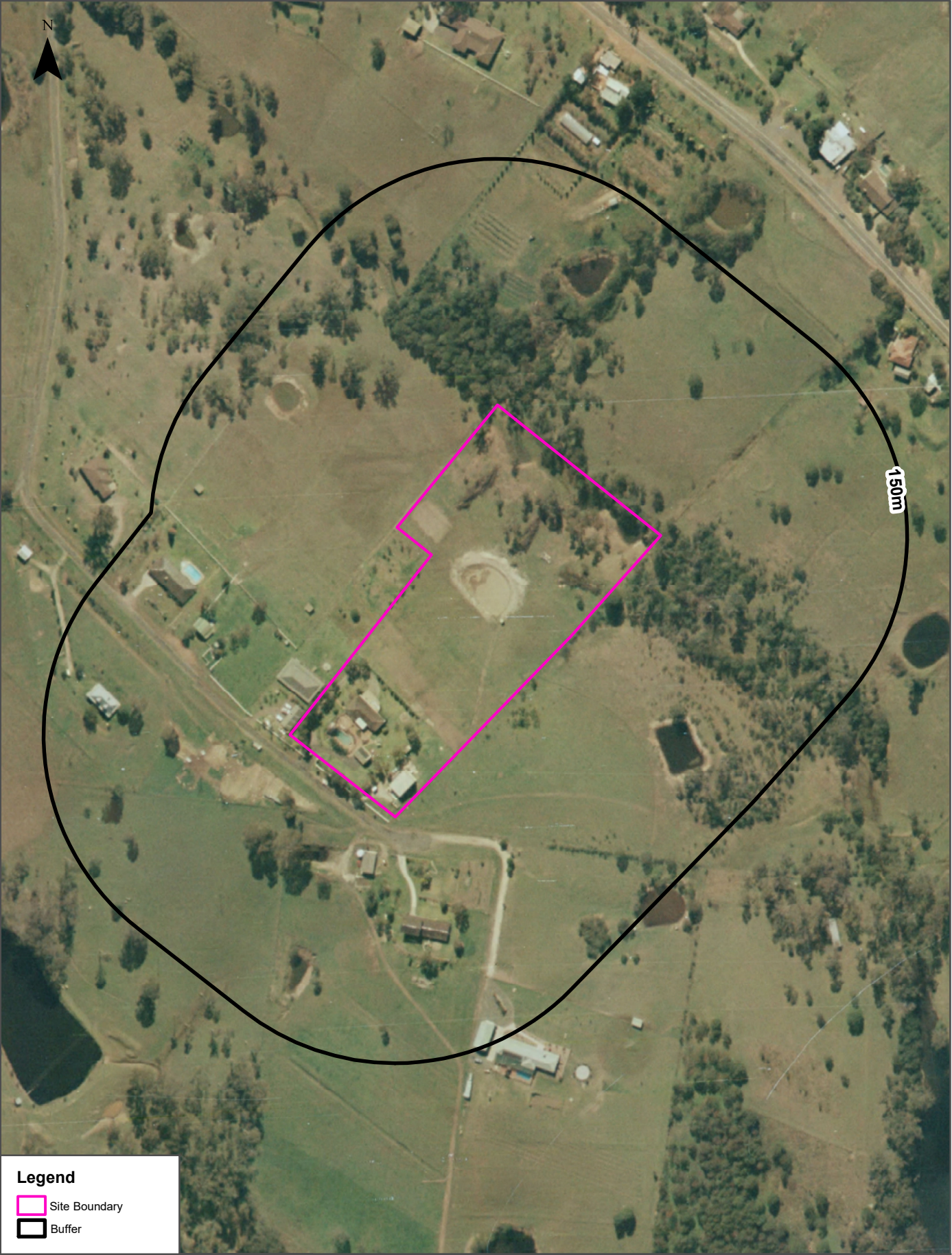
















Scale: 0 25 50 100 150 Meters	Data Sources: Aerial Imagery © Department Finance, Services & Innovation	Coordinate System: GDA 1994 MGA Zone 56	Date: 11 September 2018
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Aerial Imagery 1965

95 Bells Lane, Kurmond, NSW 2757





## USE OF REPORT - APPLICABLE TERMS

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  - (e) Reports must be used or reproduced in their entirety and End User must not reproduce or make available to other persons only parts of the Report;
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  12. These Terms are subject to New South Wales law.



# LOTSEARCH

LOTSEARCH AERIALS

**Date: 14 Sep 2018**

**Reference: LS004140**

**Address: 79 Bells Lane, Kurmond, NSW 2757**















Aerial Imagery 2002

79 Bells Lane, Kurmond, NSW 2757















<p>Scale:</p> <p>0 25 50 100 150</p> <p>Meters</p>	<p>Data Sources: Aerial Imagery © Department Finance, Services &amp; Innovation</p>	<p>Coordinate System: GDA 1994 MGA Zone 56</p>	<p>Date: 11 September 2018</p>
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# LOTSEARCH

LOTSEARCH AERIALS

**Date: 14 Sep 2018**

**Reference: LS004138**

**Address: 100 Bells Lane, Kurmond, NSW 2757**



# Aerial Imagery 2017

100 Bells Lane, Kurmond, NSW 2757









# Aerial Imagery 2013

100 Bells Lane, Kurmond, NSW 2757



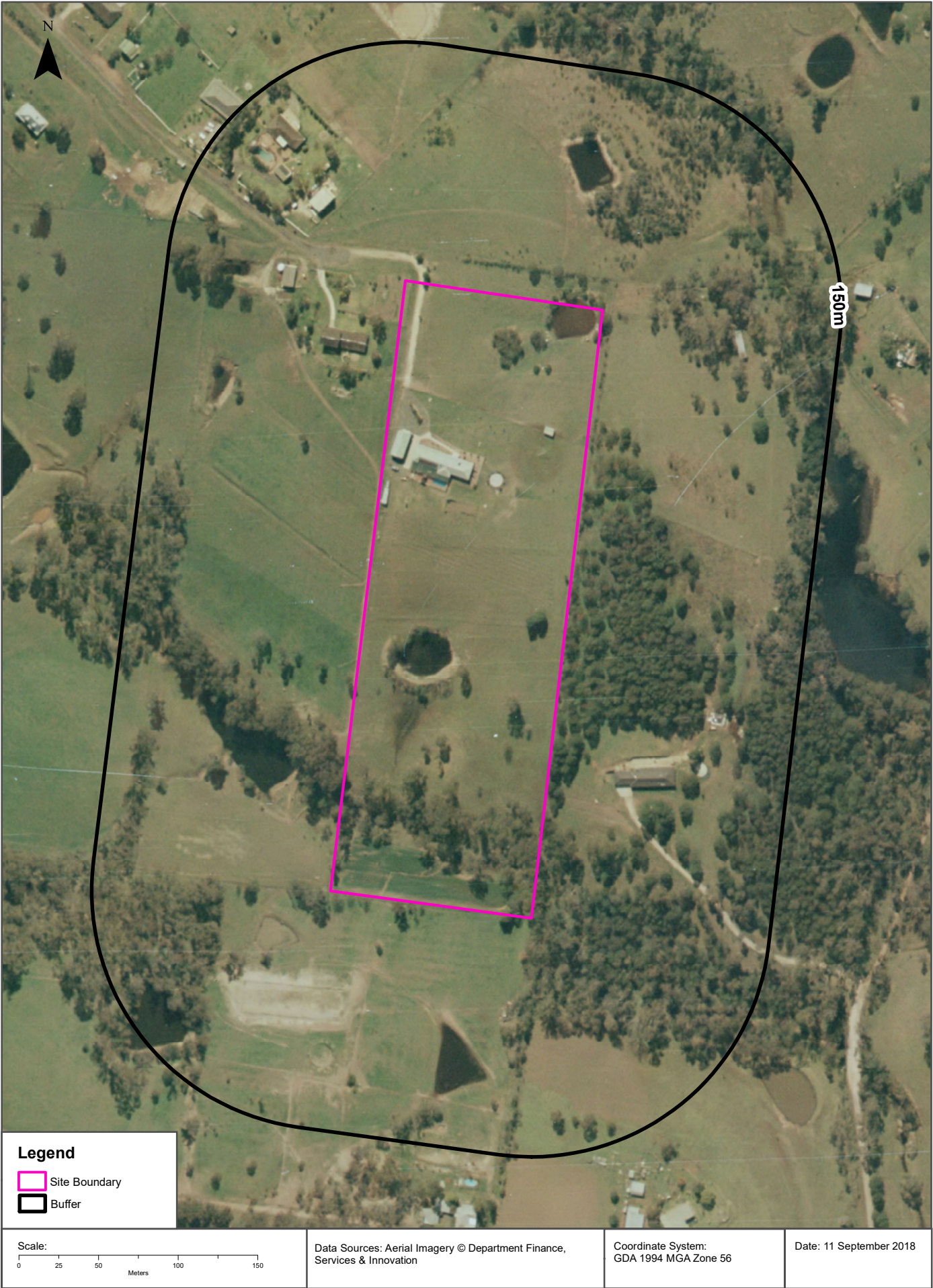


# Aerial Imagery 2002

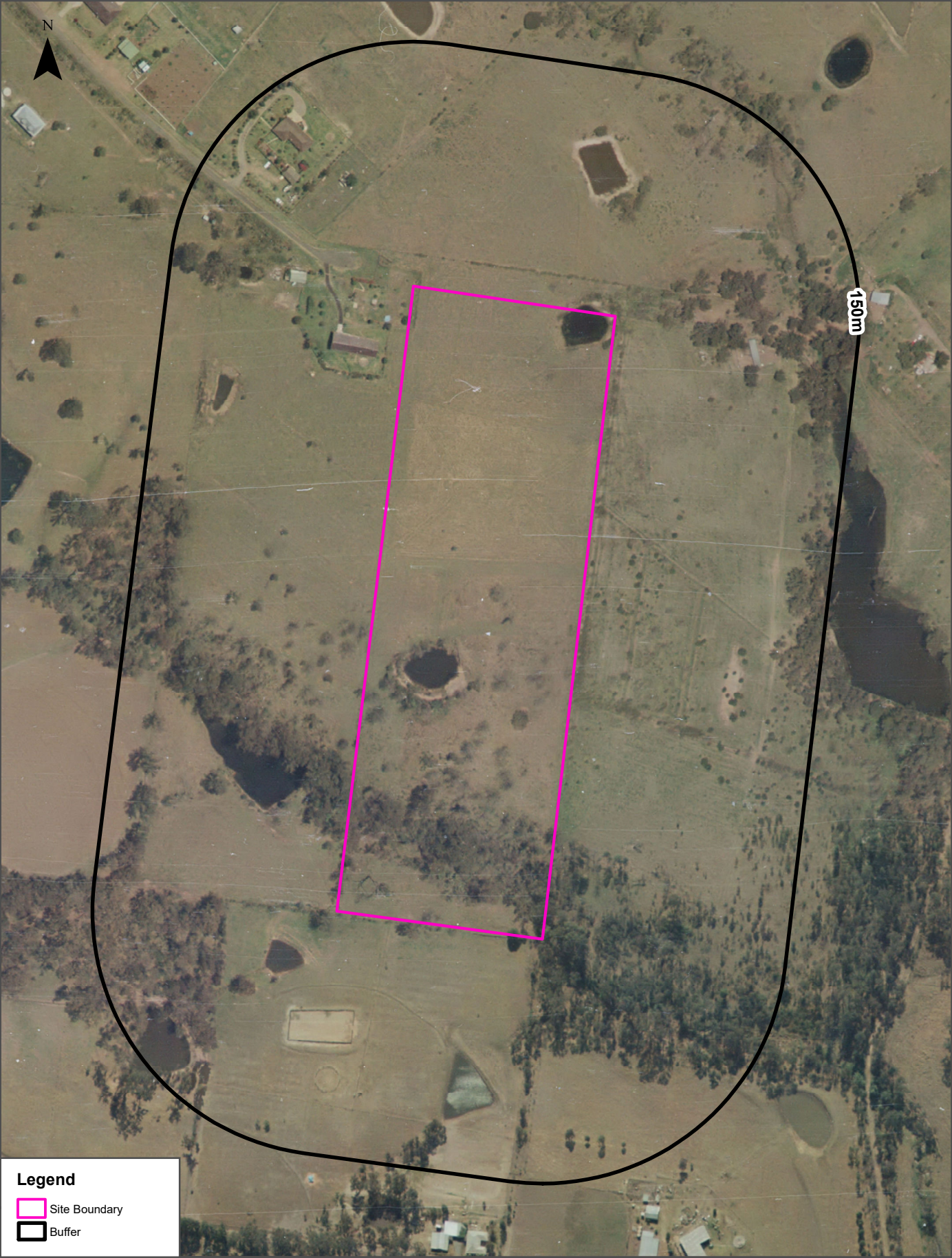
100 Bells Lane, Kurmond, NSW 2757



















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