

Elizabeth Drive - East Upgrade

Phase 1 Contamination Assessment

08-Sep-2023
Preliminary Contamination Investigation Report

Elizabeth Drive - East Upgrade

Phase 1 Contamination Assessment

Client: Transport for NSW

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Executive Summary

Elizabeth Drive is the main east-west corridor between Liverpool and surrounding suburbs. Between Badgerys Creek Road, Badgerys Creek and Duff Road, Cecil Hills, Elizabeth Drive is predominantly a two lane undivided road, with no footpath and no median.

Transport for NSW proposes to upgrade about 7.8 kilometres of Elizabeth Drive between Badgerys Creek Road near the future M12 Motorway and about 600 metres east of Duff Road at Cecil Hills (the Proposal). This upgrade is required to support future traffic demand associated with the Western Sydney Airport (WSA) and other planned land releases.

This Phase 1 Contamination Assessment (P1CA) has been prepared as part of the Review of Environmental Factors (REF) for the proposal. The primary objective of this P1CA is to assess the potential risks to the proposal from contamination identified within the study area. This report also assesses whether further detailed site investigations (Phase 2 contamination assessment) and / or remediation would be required for the proposal.

The specific objectives of this P1CA are:

- Identify Areas of Potential Environmental Concern (APECs) through a review of past and present land uses that may have resulted in contamination of soils and groundwater within the study area
- Establish a preliminary Conceptual Site Model (CSM) to evaluate potential risks to human health and the environment relative to proposed construction work and ongoing land uses within the study area
- Provide recommendations for further assessment should any high risk properties be identified.

For the purposes of this P1CA, the construction and operational footprint of the proposal shown in Figure 1-1 is referred to as 'the construction footprint'. The 'study area' includes a 1,000 metre buffer from the construction footprint, to assess for potential off-site contamination sources that may impact the footprint.

The scope of this P1CA comprised:

- Desktop review of available information
- Site inspection on 31 May 2022
- Identification of APECs based on information gathered during the desktop review and site inspection
- Development of a CSM
- Identification of safeguards and management measures to address contamination risks identified in the P1CA.

This P1CA identified five specific areas of concern that may indicate potential contamination. A total of eight APECs were identified within the construction footprint. These APECs relate to current and former land uses (eg agricultural land) and potentially contaminating business activities (eg petrol stations and automotive repair workshops); the potential presence of contaminated fill; fly tipped waste (if present) and areas of current and former agricultural land.

The following data gaps were also identified in this P1CA that require further assessment:

- The extent of potentially contaminated fill along the proposal alignment
- The potential for fly tipped waste to be present within the construction footprint
- The presence of contaminated soils and groundwater associated with current and former agricultural land
- The presence of contaminated soil and groundwater in vicinity of the potentially contaminating activities / businesses identified in Section 8.0

It is recommended that a Phase 2 Contamination Assessment is carried out for the proposal to address the data gaps identified in this P1CA. This assessment would include the collection of soil samples to characterise the APECs identified.

1.0 Introduction

Elizabeth Drive is the main east-west corridor between Liverpool and surrounding suburbs. Between Badgerys Creek Road, Badgerys Creek and Duff Road, Cecil Hills, Elizabeth Drive is predominantly a two lane undivided road, with no footpath and no median.

Future projected and planned growth in this region of Western Sydney is expected with the planned development of the Western Sydney Airport (WSA). It is projected that an expansion of industrial and commercial precincts would be prompted in response to the development of the WSA precinct, known as the Western Sydney Aerotropolis, as well as related planned land releases for residential precincts and employment zones in the area.

This projected growth would require the upgrade of Elizabeth Drive to provide increased capacity between the existing and planned road corridors in the surrounding area, and to support the projected and planned development of the Western Sydney Aerotropolis.

1.1 Proposal overview

Transport for NSW proposes to upgrade about 7.8 kilometres of Elizabeth Drive between Badgerys Creek Road, Badgerys Creek and about 600 metres east of Duff Road, Cecil Hills. The proposal would connect Elizabeth Drive with the future M12 Motorway which provides access to the WSA.

The location and extent of the proposal is provided Figure 1-1.

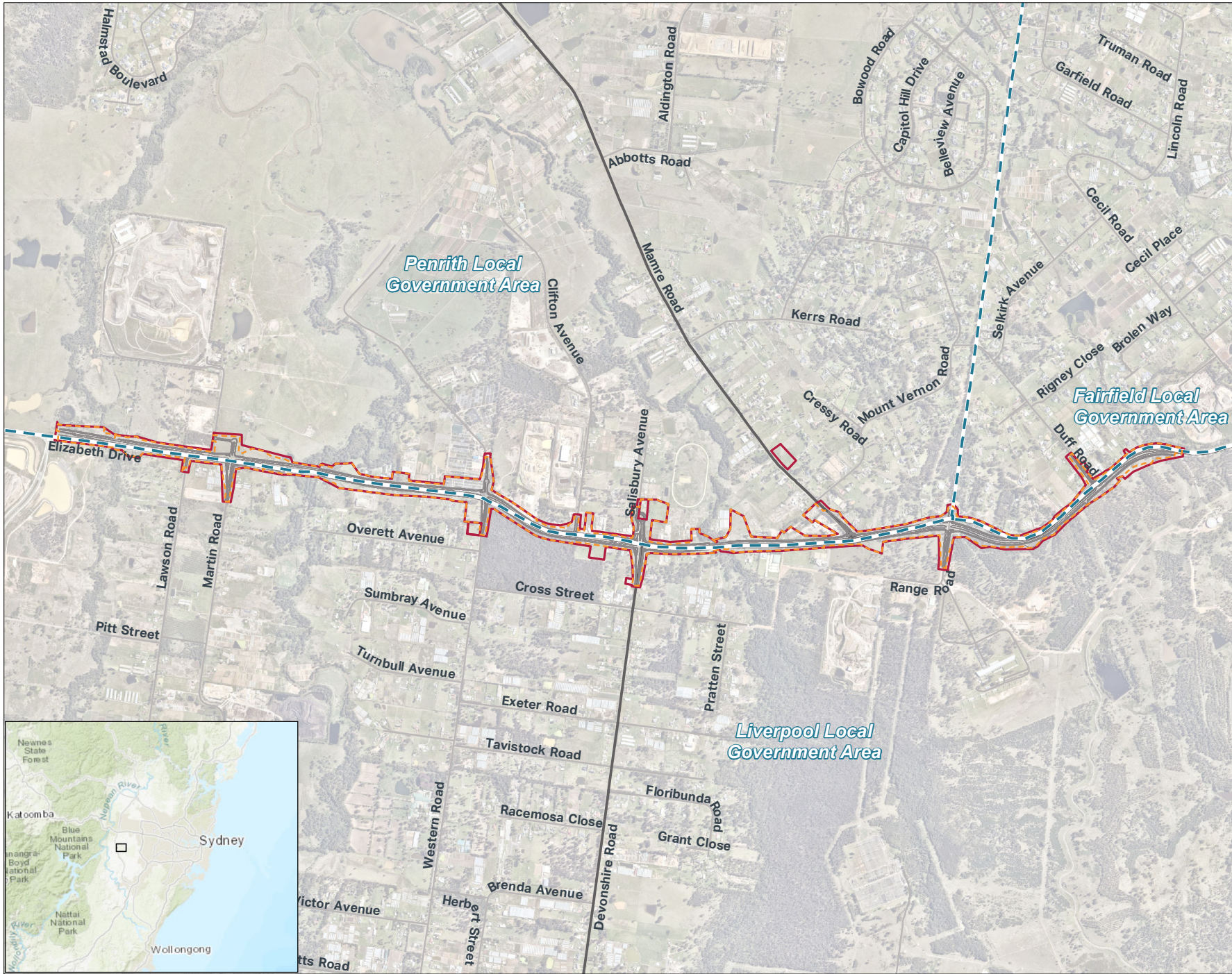


FIGURE 1-1:
LOCATION OF THE PROPOSAL



- Legend**
- Construction footprint
 - Operational footprint
 - LGA boundary
 - Road design
 - Primary road
 - Local road

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1.2 Purpose of this technical report

This Phase 1 Contamination Assessment (P1CA) has been prepared as part of the Review of Environmental Factors (REF) for the proposal. It contributes to fulfilling the requirements of Section 5.5 of the *Environmental Planning and Assessment Act 1979* (EP&A Act) which requires that Transport for NSW examines and takes into account to the fullest extent possible, all matters affecting or likely to affect the environment by reason of the activity.

The primary objective of this P1CA is to assess the potential risks to the proposal from contamination identified within the study area. This report also assesses whether further detailed site investigations (Phase 2 contamination assessment) and / or remediation would be required for the proposal.

2.0 Project Description

Key features of the proposal would include (subject to detailed design):

- Upgrade of Elizabeth Drive from a two-lane rural road, to a four-lane road (two lanes in each direction) with provision of a central median to allow for future upgrade to six lanes
- Signalisation of intersections along Elizabeth Drive: Luddenham Road, Martin Road, Western Road, Devonshire Road, Salisbury Ave, Mamre Road, Range Road and Duff Road
- Replacement of three twin bridges along Elizabeth Drive over Badgerys Creek, South Creek and Kemps Creek
- Active transport provision along the full corridor with the inclusion of shared paths along both sides of the Elizabeth Drive corridor
- Inclusion of public transport infrastructure with bus priority at intersection and bus stops facilities
- New stormwater drainage infrastructure
- Property acquisitions and adjustments on both sides of Elizabeth Drive and some side roads.
- Relocation/adjustment of existing utilities.

Subject to detailed design and construction planning, construction of the proposal is anticipated to take around 48 months to complete.

The following four temporary construction ancillary facilities would be established to support construction of the proposal:

- Western Road (construction ancillary facility 1) – located 200 metres south of the Elizabeth Drive and Western Road intersection on the western side
- Bill Anderson Reserve (construction ancillary facility 2) – located on the southern side of the Elizabeth Drive within Bill Anderson Reserve
- Salisbury Avenue (construction ancillary facility 3) – located 100 metres north of the Elizabeth Drive and Salisbury Avenue intersection on the eastern side
- Mamre Road (construction ancillary facility 4) – Located 500 metres north of the Elizabeth Drive and Mamre Road intersection on the eastern side.

Each construction ancillary facility may include the following:

- Establishment of site office/s, amenities, and temporary infrastructure, such as fencing and car parking areas
- Laydown and storage areas, and delivery of plant, equipment and materials
- Secure and bunded storage areas for re-fuelling and chemical storage
- Concrete batching plant
- Material crushing

- Stockpiling areas and spoil management (topsoil, excavated natural material, contaminated material). Stockpile locations would be determined during subsequent design stages using the criteria set out in the Stockpile Management Guideline (RTA, 2015).

Construction of the proposal would involve the following general activities:

- Site establishment including set up of construction ancillary facilities
- Utility adjustments, relocations and replacements, where required
- Demolition of existing buildings/structures
- Property adjustments (eg adjustments to fencing, property accesses)
- Vegetation removal
- Earthworks and drainage work
- Adjustments to existing farm dams within the construction footprint, including dewatering and re-shaping where required
- Bridge work over Badgerys Creek, South Creek and Kemps Creek, including installation of temporary diversion (if required) and temporary creek crossing, construction of new twin bridge structures and demolition/removal of the existing bridges
- Elizabeth Drive upgrade roadwork, including intersections with local roads and walking and cycling infrastructure
- Landscaping and finishing work.

3.0 Objectives

The primary objective of this Phase 1 Contamination Assessment (P1CA) is to assess the potential risks to the proposal from contamination identified within the study area. This report also assesses whether further detailed site investigations (Phase 2 contamination assessment) and / or remediation would be required for the proposal.

The specific objectives of this P1CA are:

- Identify Areas of Potential Environmental Concern (APECs) through a review of past and present land uses that may have resulted in contamination of soils and groundwater within the study area
- Establish a preliminary Conceptual Site Model (CSM) to evaluate potential risks to human health and the environment relative to proposed construction work and ongoing land uses within the study area
- Provide recommendations for further assessment should any high risk properties be identified.

4.0 Study area

For the purposes of this P1CA, the construction and operational footprint of the proposal shown in Figure 1-1 is referred to as 'the construction footprint'. The 'study area' includes a 1,000 metre buffer from the construction footprint, to assess for potential off-site contamination sources that may impact the footprint.

5.0 Scope of work

5.1 Method of assessment

The scope of this P1CA comprised:

- A desktop review of the following information:
 - LotSearch (2022) Enviro-Lite report (refer to Appendix A) generated on 31 January 2022. LotSearch (2022) summarises a range of environmental aspects potentially informing the contamination status of the study area, including historical aerial imagery, surrounding industrial activities, title searches and a range of databases and registers, as listed in Table 5-1.
 - Available previous investigations and reports relating to contamination within the study area, comprising:
 - The Northern Road Upgrade Mersey Road to Glenmore Parkway Stage 1 Contamination Assessment (Jacobs, 2017)
 - M12 Motorway Environmental Impact Statement Appendix O – Soils and Contamination assessment report October 2019
 - Elizabeth Drive – M7 Motorway to Northern Road Preliminary Environmental Investigation (Aurecon, 2018)
 - MR35 Upgrade Contaminated Land Risk Review (Aurecon, 2020)
 - Past and current activities in the study area and other potential on-site/offsite sources of contamination
 - Legal site descriptions and land use zoning information
 - Historical aerials from 1949 to 2021 (about one aerial photograph every five years was reviewed)
 - NSW Environmental Protection Authority (EPA) databases on the contaminated land record and NSW EPA's *Protection of the Environment Operations Act 1997* (POEO Act) licences for the site, Fairfield LGA and Liverpool LGA
 - Geology, soil, topography, and registered groundwater bore maps
 - Acid sulfate soil (ASS) and salinity risk maps
 - Department of Defence unexploded ordnance (UXO) risk mapping
 - The NSW EPA priority per- and polyfluoroalkyl substances (PFAS) investigation risk sites within 10 km of the proposal extents/sites
- A site inspection on 31 May 2022, limited to a visual inspection along the Elizabeth Drive alignment. The inspection intended to identify obvious signs of contamination and ground truth the desktop review, taking photographs and notes accordingly
- Identification of APECs based on information gathered during the desktop review and site inspection
- Development of a CSM
- Identification of safeguards and management measures to address contamination risks identified in the P1CA.

Table 5-1 Summary of Database Searches

Dataset Name	Custodian
Cadastre Boundaries	NSW Dept of Finance, Services & Innovation
Topographic Data	NSW Dept of Finance, Services & Innovation
List of NSW contaminated sites notified to EPA	Environment Protection Authority
Contaminated Land Records of Notice	Environment Protection Authority
Former Gasworks	Environment Protection Authority
National Waste Management Facilities Database	Geoscience Australia
National Liquid Fuel Facilities	Geoscience Australia
EPA Per and Polyfluoroalkyl Substances (PFAS) Investigation Program	Environment Protection Authority
Defence PFAS Investigation & Management Program – Investigation Sites	Department of Defence
Defence PFAS Investigation and Management Program – Management Sites	Department of Defence
Airservices Australia National PFAS Management Program	Airservices Australia
Defence Three Year Regional Contamination Investigation Program	Department of Defence
EPA other sites with Contamination Issues	Environment Protection Authority
Licensed Activities under the Protection of the Environment Operations (POEO) Act 1997	Environment Protection Authority
Delicensed POEO Activities still Regulated by the EPA	Environment Protection Authority
Former POEO Licensed Activities now revoked or surrendered	Environment Protection Authority
United Book Distributors (UBD) (Premise & Intersection Matches)	Hardie Grant
UBD Business Directories (Road & Area Matches)	Hardie Grant
UBD Business Directory Dry Cleaners & Motor Garages / Service Stations (Premise & Intersection Matches & Road & Area Matches)	Hardie Grant
Points of Interest	NSW Dept of Finance, Services & Innovation
Tanks (Areas & Points)	NSW Dept of Customer Service – Spatial Services
Major Easements	NSW Dept of Finance, Services & Innovation
State Forest	Forestry Corporation NSW

Dataset Name	Custodian
NSW National Parks and Wildlife Service Reserves	NSW Office of Environment and Heritage
Hydrogeology Map of Australia	Commonwealth of Australia (Geoscience Australia)
Temporary Water Restriction (Botany Sands Groundwater Source Order 2018)	NSW Department of Planning and Environment
Groundwater Boreholes	NSW Dept of Primary Industries – Water NSW, Commonwealth of Australia
Geological Units and Structures 1:100,000	NSW Department of Planning and Environment
Naturally Occurring Asbestos Potential	NSW Department of Industry, Resources and Energy
Atlas of Australian Soils	Australian Bureau of Agriculture and Resource Economics and Sciences
Soil Landscapes of Central and Eastern NSW	NSW Department of Planning and Environment
Atlas of Australian Acid Sulfate Soils	CSIRO
Dryland Salinity – National Assessment and potential for Western Sydney	NSW Department of Planning and Environment
Mine Subsidence Districts	NSW Dept of Customer Service – Subsidence Advisory NSW
Current and Historic Mining Titles and Applications	NSW Department of Industry
Environmental Planning Instrument SEPP - Land Use Zoning	NSW Department of Planning and Environment
Bushfire Prone land	NSW Rural Fire Service
Remnant Vegetation of the Cumberland Plain	NSW Office of Environment & Heritage
Ramsar Wetlands of Australia	Australian Government Dept of Agriculture, Water and the Environment
Groundwater Dependent Ecosystems and Inflow Dependent Ecosystems	Bureau of Meteorology
NSW Bionet Species Sightings	NSW Office of Environment & Heritage

5.2 Guidance documents

This P1CA has been prepared in accordance with the following guidance documents:

- Contaminated Land Management Guidelines for the NSW Site Auditor Scheme, 3rd Edition, 2017
- NSW Environmental Protection Authority (EPA) Consultants reporting on contaminated land, Contaminated Land Guidelines 2020
- National Environment Protection Council *National Environment Protection (Assessment of Contamination) Measure 1999*, amended 2013 (ASC NEPM), 2013

- Standards Australia, 4482.2-1999 Guide to the Sampling and Investigation of Potentially Contaminated Soil. Part 2: Volatile Substances (Standards Australia AS4482.2-1999)
- Standards Australia AS4482.1 Guide to the investigation and sampling of sites with potentially contaminated soil. Part 1: Non-volatile and semi-volatile compounds, 2005.

6.0 Study area description

6.1 Study area identification

Study area identification details are presented in **Table 6-1**.

Table 6-1 Site Identification Details

Item	Description
Study Area	The study area includes the construction footprint (construction and operational footprint) and surrounding land uses within a 1,000 m buffer area.
Study area features	<ul style="list-style-type: none"> • The eastern alignment contains a two lane road and is entirely surfaced with asphalt. • The alignment slopes to the east lowering from about 60 m AHD to 48 m AHD before rising to about 120 m AHD at its eastern extent. • A number of intersecting roads join Elizabeth Drive within the Eastern alignment boundaries as noted below: <ul style="list-style-type: none"> - Martin Road, Badgerys Creek - Western Road, Kemps Creek - Salisbury Avenue / Devonshire Road, Kemps Creek - Mamre Road, Kemps Creek - Range Road, Cecil Hills - Duff Road, Cecil Hills
Local Government Area	Liverpool City Council, Penrith City Council and Fairfield City Council
Current land use and zoning	The site is currently used as a two lane road zoned SP2 – Infrastructure
Current surrounding land use (1,000 m buffer)	<p>A number of land use zonings are within and surrounding the study area including:</p> <ul style="list-style-type: none"> • Environment and Recreation (ENZ) • Enterprise (ENT) • Infrastructure (SP2), primarily to the south and west • Primary Production (RU1) • Rural Landscape (RU2) • Primary Production Small Lots (RU4) • Environmental Living (E4) • Environmental Conservation (E2) (about 575 m north of study area) • Public Recreation (RE1) • Light Industrial (IN2)

Item	Description
Registered groundwater bores (2,000 m buffer)	There are 31 registered groundwater bores located within a 2,000 metres radius of the proposal, as summarised in Table 6 2. Two of the 31 bores had a purpose relating to water supply. The closest of these two bores is located about 285 metres north of the construction footprint
Ecological Receptors	<ul style="list-style-type: none"> • Badgerys Creek (near Badgerys Creek Road), South Creek (near Martin Road) and Kemps Creek (between Devonshire Road and Mamre Road) all cross the road alignment • Farm dams located within and immediately bounding the construction footprint • South Creek, which intersects the construction footprint, is mapped as a high potential aquatic GDE (based on national assessment). • Terrestrial GDE's mapped within the study area include: <ul style="list-style-type: none"> - Cumberland River Flat Forest – High potential GDE located within the construction footprint in isolated areas within the eastern portion of the proposal, and along Badgerys, South and Kemp Creek that transect the proposal - Cumberland Shale Hills Woodland – Moderate potential GDE located within the construction footprint in isolated areas between Badgerys, South and Kemp Creek - Cumberland Shale Plains Woodland – Low potential GDE located within the construction footprint in isolated areas between South and Kemp Creek.

6.2 Topography

The study area slopes to the east lowering from about 60 m AHD to 48 m AHD before rising to about 120 m AHD at its eastern extent.

6.3 Geology and soils

LotSearch (2022) indicates that the study area is underlain by middle triassic shale, carbonaceous claystone, claystone, laminate, fine to medium-grained lithic sandstone, rare coal and tuff. Overlying this is quaternary aged fine-grained sand silt and clay.

According to LotSearch 2022 there are four different soil types within the study area.

- Blacktown (bt): Residual soils located in gently undulating terrain on Bringelly Shale between creek channels which are moderately erodible
- Luddenham (lu): Erosional soils located on the undulating to rolling low hills on Bringelly Shale within the eastern portion of the proposal
- South Creek (sc): Alluvial deposits located within the drainage depressions of Cosgrove and Oaky Creek with high to very high erodibility
- Berkshire Park (bp): Alluvial deposits derived from sandstone and clay located in the central portion of the proposal.

A review of LotSearch (2022) shows that the study area has an extremely low probability of occurrence of acid sulfate soils. However, an area about 849 metres south-east of the alignment has a high probability of occurrence of acid sulfate soils. This location appears to be associated with a large water body associated with Hinchinbrook Creek. It is not anticipated any construction would take place at this location as it is well outside the construction footprint.

LotSearch (2022) shows the soils within the study area generally have a moderate to high overall salinity hazard.

6.4 Hydrology and Hydrogeology

The following is noted with regard to hydrology and hydrogeology:

- The closest water bodies are the Badgerys Creek, South Creek and Kemps Creek which cross the alignment. Surface water collected along drainage lines on either side of Elizabeth Drive eventually drains into the nearby creeks listed above.
- A number of farm dams are also present in the surrounding area.
- Regional groundwater is inferred to flow in a westerly direction towards the Nepean River and Warragamba Dam located over 6 km from the study area.
- A search of the WaterNSW Realtime Data online database and the BoM Australian Groundwater Explorer (BoM, 2022a) undertaken in March 2022 indicated that there are 31 registered groundwater bores located within a 2 km radius of the proposal, as summarised in Table 6-2.
- Two of the 31 bores (GW105016.1.1 and GW112567.1.1) had a purpose relating to water supply (i.e., irrigation, stock and domestic, water supply or commercial/industrial) and based on reported bore depth and bore logs, at least one of these two bores (GW105016.1.1) was inferred to be accessing the Bringelly Shale groundwater. The closest of these two bores (GW112567.1.1), relating to water supply, is located approximately 285 metres north of the construction footprint.

Table 6-2 Summary of registered groundwater bores within the study area

Bore ID	Date installed	Purpose	Status	Bore depth (m)	Standing water level (mbgl)	Screened lithology
GW072774.1.1	26/10/1994	Exploration	Unknown	30	Unknown	Shale
GW075064.1.1	26/08/1999	Monitoring	Unknown	4.5	Unknown	Sandstone
GW075065.1.1	26/08/1999	Monitoring	Unknown	6	Unknown	Sandstone
GW075066.1.1	26/08/1999	Monitoring	Unknown	6	Unknown	Sandstone
GW075067.1.1	26/08/1999	Monitoring	Unknown	9	Unknown	Sandstone
GW075068.1.1	26/08/1999	Monitoring	Unknown	10	Unknown	Sandstone
GW104078.1.1	3/10/2001	Monitoring	Unknown	30	Unknown	Shale
GW104079.1.1	4/10/2001	Monitoring	Unknown	30	Unknown	Shale
GW104080.1.1	5/10/2001	Monitoring	Unknown	30	Unknown	Shale
GW104081.1.1	6/10/2001	Monitoring	Current	30	Unknown	Shale
GW105016.1.1	1/04/2003	Stock, domestic	Current	252.5	53	Sandstone/s hale
GW110569.1.1	25/08/2009	Monitoring	Current	6	4.4	Clay
GW110570.1.1	25/08/2009	Monitoring	Unknown	12	4.4	Clay
GW110571.1.1	25/08/2009	Monitoring	Unknown	12	4.4	Clay
GW112116.1.1	9/11/1995	Monitoring	Unknown	23.4	Unknown	Unknown
GW112165.1.1	26/08/1992	Monitoring	Current	34.95	Unknown	Unknown
GW112166.1.1	21/08/1992	Monitoring	Unknown	32.34	Unknown	Unknown
GW112167.1.1	5/03/1993	Monitoring	Unknown	20.6	Unknown	Unknown
GW112168.1.1	28/08/1992	Monitoring	Unknown	26.5	Unknown	Unknown
GW112169.1.1	8/03/1993	Monitoring	Unknown	16.55	Unknown	Unknown
GW112170.1.1	19/07/1991	Monitoring	Unknown	26.9	Unknown	Unknown

Bore ID	Date installed	Purpose	Status	Bore depth (m)	Standing water level (mbgl)	Screened lithology
GW112171.1.1	23/07/1991	Monitoring	Unknown	32	Unknown	Unknown
GW112172.1.1	17/07/1991	Monitoring	Unknown	36.5	Unknown	Unknown
GW112173.1.1	10/03/1993	Monitoring	Unknown	24	Unknown	Unknown
GW112174.1.1	15/07/1991	Monitoring	Unknown	22	Unknown	Unknown
GW112567.1.1	13/09/2007	Industrial	Current	20	Unknown	Unknown
GW114294.1.1	28/04/2011	Monitoring	Current	6	Unknown	Unknown
GW114295.1.1	28/04/2011	Monitoring	Unknown	6	Unknown	Unknown
GW114296.1.1	28/04/2011	Monitoring	Unknown	6	Unknown	Unknown
GW114297.1.1	28/04/2011	Monitoring	Unknown	8	Unknown	Unknown
GW114298.1.1	28/04/2011	Monitoring	Unknown	7	Unknown	Unknown

Notes: m – metres, mbgl – metres below ground level

6.5 Site inspection observations

The site inspection carried out on 31 May 2022 was limited to the road alignment as AECOM was not permitted entry to properties along the proposal. The site inspection was limited to observations that could be seen from the side of the road and photos and notes were taken accordingly.

An overview is provided in the following sections and photographs taken during the site inspection are provided in Appendix B. The study area contains a mix of residential, commercial and industrial properties, with a number of entrances to these properties from Elizabeth Drive. The field team prioritised stopping in publicly accessible areas near the properties identified as containing potentially contaminating activities, as per the historical and desktop search results outlined in Section 7.0. Field observations made at the five properties are outlined in Table 6-3 below.

Table 6-3 Field Observations from site inspection

Location	Observations
Apex Petroleum (Plate 1)	<p>Forecourt fully paved and in good condition and gravel noted between forecourt and road edge.</p> <p>The canopy extends out from the sales building and generally covers three filling bays where two bowser islands are located</p> <p>There is a slight hump (bund) that borders the forecourt area to contain any spills within the forecourt area</p> <p>No significant staining or odours were noted.</p>
United Petroleum (Plate 2)	<p>Forecourt fully paved and in good condition and muddy gravel noted between forecourt and road edge.</p> <p>The canopy extends out from the sales building and generally covers three filling bays where two bowser islands are located</p> <p>A separate canopy and bowser island is present west of the sales building to service heavy vehicles</p> <p>It was noted that numerous trucks were parked at the time of the inspection</p>

Location	Observations
	<p>There is a slight hump (bund) that borders the forecourt area to contain any spills within the forecourt area</p> <p>No significant staining or odours were noted.</p>
Caltex (Ampol) Service Station (Plate 3)	<p>Forecourt fully paved and in good condition</p> <p>The canopy extends out from the sales building and generally covers three filling bays where two bowser islands are located</p> <p>No obvious hump/bund was observed to contain any spills within the forecourt area</p> <p>No significant staining or odours were noted.</p> <p>Waste drums were noted on the verge in front of the property next door, labelling was present on the drums but could not be discerned from the publicly accessible area (Plate 4)</p>
Sydney Recycling Park operated by Hi Quality Group	<p>The entrance comprised a paved driveway extending several hundred metres into the property, no obvious signs of contamination were observed from the entrance.</p> <p>This property extends well off Elizabeth Drive so none of the recycling park features could be observed from the road.</p>
Luddenham Auto Repairs (Plate 5-6)	<p>A gravel road extends from off Elizabeth Drive and into the property. There is a junction that extends to the east and on the eastern side of the property a large truck parking area was observed (Plate 6).</p> <p>This property extends off Elizabeth Drive and it appears the main work area is within a large shed located on the western side of the property</p> <p>The property is unpaved and the surface is grassed with some vegetation. No obvious signs of contamination were observed from the publicly accessible area used to view this location.</p>

Other notes taken from the study area inspected did not note any other areas along the alignment as potentially contaminated as no obvious signs of contamination were observed.

7.0 Desktop review

7.1 Historical Aerial photography

A 500 m dataset radius from the proposal was used to review historical aerial photographs of the study area between 1949 to 2021 (refer to Appendix A). A summary is provided in Table 7-1 below.

Table 7-1 Historical Aerial Photograph Review

Photograph Details	Description
1949	<p>Elizabeth Drive is clearly visible in the photos, however it is unclear whether the road is paved or is a dirt road. However due to its appearance it is likely to be a dirt road. Trees line the road and no business or other properties appear to border the road. The three creeks are visible running across the alignment as they appear today.</p> <p>Within the dataset radius (500 m), immediately north, south, east and west of the site, the area comprises vacant farmland with no structures visible. Dense woodland is generally present in the area where Devonshire Road is today.</p>
1955, 1956	<p>The study area appears similar to its appearance in the 1949 historic photograph. The surrounding area appears generally unchanged compared with the previous photograph.</p>
1961, 1965	<p>The study area appears similar to its appearance in 1949. However, a service station appears to be present where the current BP or United service station is currently located.</p> <p>The surrounding area appears to be unchanged with the exception of the dense woodland, and evidence of clearing and thinning particularly near Elizabeth Drive is noted.</p>
1970, 1978	<p>The study area appears to have businesses operating along the alignment, with structures that appear to be service stations located in the areas where they currently operate.</p> <p>The surrounding area shows significant development, with clearly defined plots of land for farm and business. The dense woodland has been significantly cleared in the vicinity of the alignment.</p>
1982, 1986	<p>The study area appears generally unchanged. There are a number of properties that line the road and the photos are in colour. It is easier to discern that the road appears to be paved and is no longer a dirt road.</p> <p>The rest of the surrounding area continues to expand with business and farmland clearly visible in the surrounding area.</p>
1991, 1994	<p>The study area appears to remain unchanged.</p> <p>The area within the dataset radius appears generally unchanged; however, Kemps Creek Resource Recovery Park (north of the site) is clearly visible by the time of the 1994 photo indicating sometime between 1982 and 1994 it commenced operation.</p>

Photograph Details	Description
2005, 2011	Between 2005 and 2011, the study area remains largely unchanged, with the exception of more residential and commercial properties present along the road alignment. Although difficult to discern individual structures, it is likely some structures have been demolished which may indicate potential for asbestos to be present depending on the demolition practices at the time. The area within the dataset radius (500m) appears to continue to be developed with many more properties and businesses are visible in the 2011 photo compared with previous years.
2016	The study area appears unchanged with the exception of fewer trees bordering the road. The area within the dataset radius (500m) appears generally unchanged.
2021	The study area appears unchanged. The area within the dataset radius appears to be generally unchanged.

The aerial photographs date from 1949 and appear to show a dirt road lined with trees and became a paved road circa 1960. The photographs suggest site configuration remained largely unchanged between 1949 and 2021.

Based on the aerial photograph review of the study area and surrounds, the surrounding area was originally vacant farmland and dense woodland. It appears to change significantly between 1949 and 2021 through land clearing, the construction of farm dams and built structures. Development along the road appears to start in 1961, 1965 and then intensifies in the 1970s and 80s where the increase in land clearing (including possible farm structure demolition) and construction of commercial and residential properties continued to 2005 and 2011, to broadly resemble as it appears today.

7.2 Previous owners and land uses

As noted in the aerial photos dating back to 1949, the study area has always been used as a roadway owned and maintained by the various state government agencies over the years. The alignment of the road does not appear to have altered significantly since 1949; therefore, it is unlikely any other site uses would have been present along the alignment since its construction.

7.3 Historical and current business activities of surrounding area

There is one site within the study area as outlined in the LotSearch (2022) report presented in Appendix A, that is on the contaminated land public register, noted as the Ampol (Caltex) branded service station located at 1163 Mamre Road. This property is located about 910 m north of the proposal. Based on the distance from the construction footprint, potential contamination sourced from this service station is unlikely to impact the study area.

There are three registered waste management facilities and five liquid fuel facilities located in the study area, as follows:

- Waste management facilities:
 - Cleanaway Kemps Creek Resource Recovery Park which includes a landfill and is located about 515 m north of the construction footprint
 - Brandown Pty Ltd transfer station located about 145 m south of the construction footprint
 - NSW Investments Pty Ltd classed as multi-purpose located about 105 m north of the construction footprint.
- Liquid fuel facilities:
 - 7/11 (Mobil) classed as a petrol station located at 1465-1467 Elizabeth Drive. Based on the address listed it is located behind the United service station and appears to be a vacant lot
 - United Petroleum Kemps Creek classed as a petrol station located at 1463 Elizabeth Drive

- Ampol (Caltex) Kemps Creek classed as petrol station located at 1163 Mamre Road (located outside construction footprint)
- Ampol (Caltex) Kemps Creek classed as petrol station located at 1413 Elizabeth Drive Kemps Creek
- Apex Petroleum classed as petrol station located at 1443 Elizabeth Drive Kemps Creek.

No PFAS investigation or management program sites were identified as within the dataset buffer (1,000 m) as outlined in the LotSearch (2022).

There are 31 licensed activities listed under the *Protection of the Environment Operations Act 1997* (POEO Act) noted as being within the dataset buffer of the study area. Of these, eight are noted as being along the alignment, as outlined below:

- Three activities operated by Hi-Quality Quarry Pty Ltd involving recovery of general waste, land-based extractive activity and waste storage 'other types of waste', located at 1503-1519 Elizabeth Drive
- Five activities operated by PGH Bricks & Pavers Pty Ltd involving ceramic waste generation, land-based extractive activity, mining for minerals, ceramics production and crushing, grinding or separating, located at 235 Martin Road, Badgerys Creek.

In addition to the above, there are a number of former licensed activities under the POEO Act 1997 now listed as revoked or surrendered. A number of activities listed as 'application of herbicides' carried out by organisations such as Liverpool City Council and Sydney Weed and Pest Management Pty Ltd, were also identified as listed revoked license activities, likely relevant to the management and maintenance of the roadway.

A current business activity identified as potentially contaminating within the study area is Luddenham Auto Repairs which is located on Elizabeth Drive and is listed as a vehicle repair business. Historical business directory records between 1950-1991 shown in the LotSearch report in Appendix A shows 15 separate businesses in proximity to the study area. Of these businesses it is noted that two may have the potential to have involved a contaminating activity, listed as 'Road Transport Services – intrastate operated by Five Star Transport'. The listed activity year was 1986 and is unlikely to still be operating or to be considered as contaminating, based on its listed activity as courier services.

In summary, the following five properties have been identified within the study area as requiring further investigation, as they may be potentially contaminating activities. These are:

- BP (Apex) Petroleum located at 1443 Elizabeth Drive Kemps Creek
- United Petroleum Kemps Creek located at 1463 Elizabeth Drive Kemps Creek
- Caltex (Ampol) Service station located at 1413 Elizabeth Drive Kemps Creek
- Sydney Recycling Park operated by Hi-Quality group located at 1503-1519 Elizabeth Drive Kemps Creek
- Luddenham Auto Repairs located 1489 Elizabeth Drive Kemps Creek.

7.4 Previous investigations

7.4.1 The Northern Road Upgrade Mersey Road to Glenmore Parkway Stage 1 Contamination Assessment (Jacobs, 2017)

Transport for NSW commissioned Jacobs to prepare an Environmental Impact Statement (EIS) for the Northern Road upgrade. As part of the EIS, Jacobs prepared a Stage 1 contamination assessment report detailing the results of the contamination desktop investigation which included a review of publicly available information and historical aerial photos, a site inspection and identification of Areas of Environmental Interest (AEIs).

The report identified twenty-one AEIs relevant to the project and ranked them either low or moderate. The majority of moderate AEIs related to either service stations, miscellaneous stockpiles or agricultural land use and the report recommended further investigations through a Phase 2 intrusive assessment of

the moderate AElIs. All AElIs identified in this report are not in the vicinity of the construction footprint of this project and are therefore not relevant to this investigation.

7.4.2 M12 Motorway Environmental Impact Statement Appendix O – Soils and contamination assessment report (NSW Government, 2019)

Transport for NSW sought approval to construct and operate the M12 Motorway project, to provide direct access between WSA and Sydney's motorway network. The *Soils and contamination assessment report* (the report) contains an assessment of the potential soils and contamination impact associated with the construction and operation of the project.

The report outlined a number of Areas of Environmental Interest (AEIs) relevant to the project and classified the risk as 'low', 'moderate' or 'high'. A 'high' risk ranking was given to areas containing fill potentially related to historical uncontrolled earthworks and building structures containing asbestos previously demolished, and areas of illegally dumped material. Although specific locations may differ, these AEIs are considered relevant to the proposal, and have been considered accordingly in this P1CA.

The report also identified a number of AEIs associated with businesses along Elizabeth Drive such as the petrol stations and Sydney Recycling Park but ranked them as low either due to proximity to the construction works associated with the M12 or based on a site inspection. As these businesses are closer to the proposal, they have been considered to represent a different risk profile.

The report concluded that contamination, if not managed appropriately could potentially impact upon project elements. Contaminated soils, asbestos and hazardous building materials present a risk of impacting the project construction, as well as the potential to be released into the environment during construction activities. Groundwater from identified AEIs was considered to pose a low risk to construction of the project given that the volumes of groundwater expected to interact with project features during project construction are negligible or are not expected to require management. Further investigations were carried out in AEIs of moderate to high risk in the form of a Phase 2 Detailed Site Investigation.

7.4.3 Elizabeth Drive – M7 Motorway to Northern Road Preliminary Environmental Investigation (Aurecon, 2018)

Aurecon undertook a Preliminary Environmental Investigation (PEI) in 2018 to review current legislation at the time and relevant planning strategies, review any existing information and constraints in the study area and provide recommendations for further work in future stages. The report included a broad review of environmental issues such as biodiversity, noise and vibration and did not focus on contamination, with the exception of a small section within the Geology and Soils section.

The report identified two sites notified to the EPA at the time, both Caltex service stations in Kemps Creek and Luddenham. It also listed a number of activities that had current licenses with the EPA, all outside the study area. The report concluded that industrial and agricultural properties had the potential to affect contamination at the site but did not identify specific properties. The PEI recommended further contamination assessment to confirm the presence of contamination in areas of concern.

7.4.4 MR35 Upgrade Contaminated Land Risk Review (Aurecon, 2020)

The MR35 Upgrade Contaminated Land Risk Review (Aurecon, 2020) (the report) was prepared to develop an understanding of areas of potential contamination risk along the Elizabeth Drive road corridor (both East and West sections) and provided estimates of potential costs to address land contamination for the Elizabeth Drive Upgrade.

Following review of the report, AECOM provided the following recommendations to Transport for NSW on 28 May 2021. The recommendations included:

- Desktop contamination review of publicly available material (eg aerial photos, search of public databases, titles, previous environmental reports)
- Site inspection of the study area, focussing on properties identified as areas of 'medium' and 'high' contamination risk, as outlined in the Aurecon report (2020)
- Design and preparation of a Sampling Analysis and Quality Plan (SAQP) for relevant medium and high risk properties (in the context of the road design and volume of excavated material in

proposed cut areas) and other potentially contaminated properties identified as part of the site inspection, as part of a phase one assessment (this P1CA). Endorsement of the SAQP should be a hold point prior to commencement of the site investigation, as part of a Phase Two assessment

- Intrusive site investigations in accordance with the SAQP
- Preparation of a P1CA for inclusion in the REF.

This P1CA documents the findings of the desktop review and site inspection to inform the creation of the SAQP for a detailed intrusive investigation in areas of the study area where high risks have been identified.

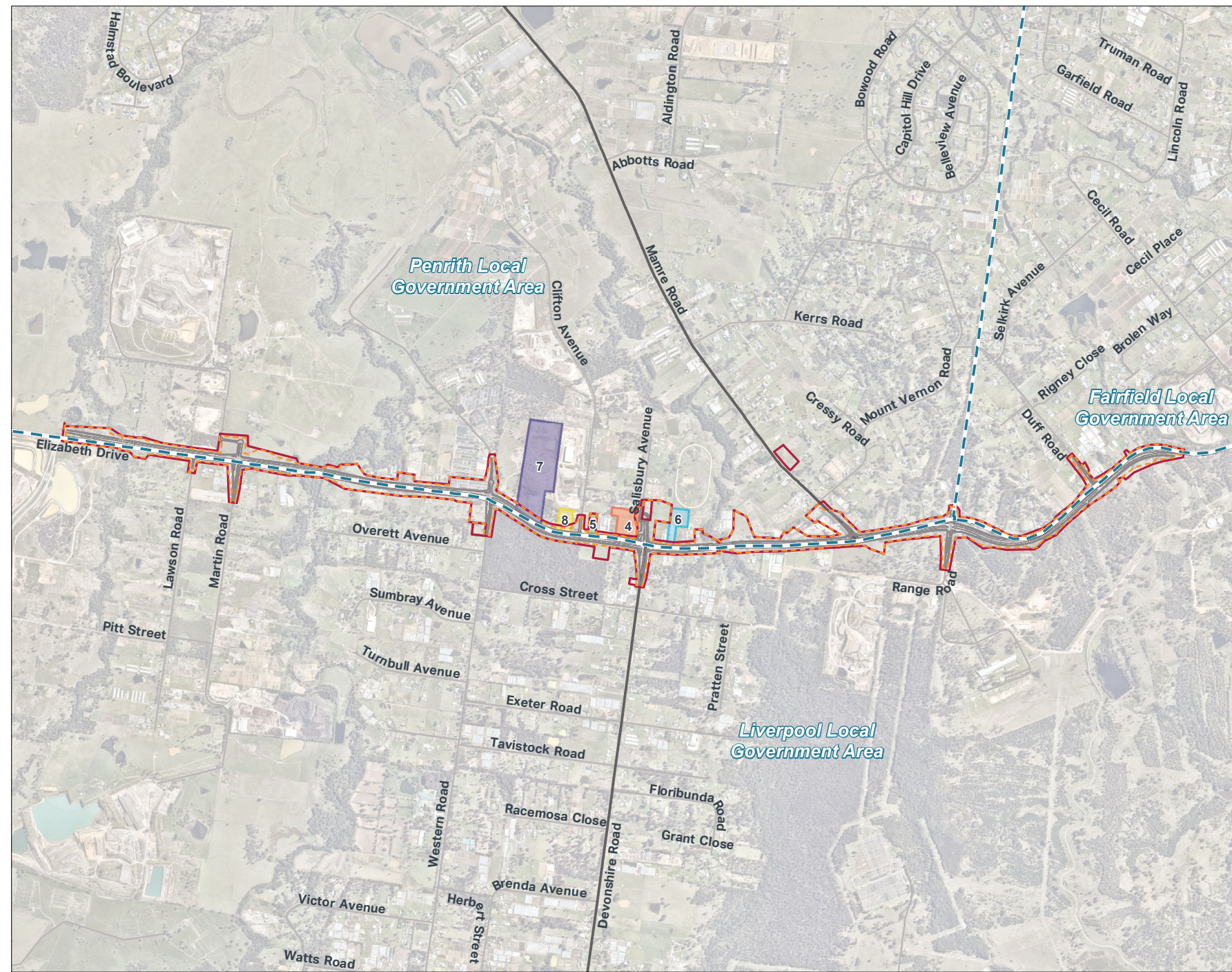
8.0 Areas of Potential Environmental Concern

A number of properties were identified during the desktop review and site inspection that may be potentially contaminating as outlined in Section 7.3. It is assumed that the fill material used to construct the road and road shoulder of Elizabeth Drive would likely comprise general fill material and/or topsoil sourced locally from other construction works or imported fill material. Fill material may have also been used in areas such as farm dams, and other areas across existing properties. There is also the potential for historic land filling, although no obvious instances were detected during this P1CA. This is considered 'uncharacterised fill'.

Although not observed during the site inspection there is also the potential for fly tipped waste to be present which may represent a contamination source, although the risk is considered low as it would unlikely be widespread. The land associated with agricultural land use may also be impacted with OCP and OPP pesticides which may represent a contamination source.

Based on the desktop review, source areas of potential contamination were identified within the study area associated with the uncharacterised fill described above. For this source area, contaminants of potential concern (CoPCs) were identified, based on likely composition of fill material. A likelihood for risk of contamination was then assigned for the source area. Table 8-1 and Figure 8-1 outlines the AEPCs and each associated contamination risk likelihood.

**Figure 8-1:
AREAS OF POTENTIAL
ENVIRONMENTAL
CONCERN**



- Legend**
- Construction footprint
 - Operational footprint
 - LGA boundary
 - Road design
 - Primary road
 - Local road
- Areas of Potential Environmental Concern***
- APEC 4
 - APEC 5
 - APEC 6
 - APEC 7
 - APEC 8

*APECs 1-3 are located along the alignment but in no specific areas so are not marked.

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Table 8-1 Area of Potential Environmental Concern and likelihood of risk

APEC Number	Source area	Source area located within or outside study area	CoPC	Likelihood for risk of contamination
1	Uncontrolled fill within the construction footprint	Within the construction footprint	Asbestos, heavy metals, OCP and OPP	High – There is the potential for contaminated fill which could potentially be widespread. More information is required through the collection of samples to characterise this potential source
2	Contaminated material produced from fly tipping	Within the construction footprint	Asbestos, heavy metals, OCP and OPP	Low – No obvious signs of fly tipping were observed during the site inspection. Any instances of fly tipping are unlikely to be widespread.
3	Areas of former and current agricultural land including former building structures	Within the construction footprint	Asbestos, heavy metals, OCP and OPP, petroleum hydrocarbons	High – There is the potential for contamination to be present based on past or current agricultural land use and past demolition practises of any former structures.
4	Apex Petroleum	Entrance to property is within the construction footprint	Asbestos, heavy metals, OCP and OPP, petroleum hydrocarbons	Moderate – There is the potential for contamination to be present based on land use (Petrol Station)
5	United Petroleum	Within the construction footprint	Asbestos, heavy metals, OCP and OPP, petroleum hydrocarbons	Moderate – There is the potential for contamination to be present based on land use (Petrol Station)
6	Caltex Service Station	Entrance to property is within the construction footprint	Asbestos, heavy metals, OCP and OPP, petroleum hydrocarbons	Moderate – There is the potential for contamination to be present based on land use (Petrol Station)
7	Luddenham Auto Repairs	Entrance to property is within the construction footprint	Asbestos, heavy metals, OCP and OPP, petroleum hydrocarbons	Moderate - There is the potential for contamination to be present based on land use (auto repairs)
8	Sydney Recycling Park	Entrance to property is within the construction footprint	Asbestos, heavy metals, OCP and OPP, petroleum hydrocarbons	Moderate - There is the potential for contamination to be present based on land use (landfill / waste recovery)

9.0 Preliminary Conceptual Site Model

A CSM is a qualitative description of the mechanisms by which potential and/or complete exposure pathways may exist between known or potential sources of site impacts, and human or environmental receptors. In order for a human receptor to be exposed to a contaminant derived from the site, a complete exposure pathway must exist. An exposure pathway may include the following elements:

- A source and mechanism of chemical release
- A retention or transport medium (or media where contaminants are transferred between media)
- A point of potential human contact with the contaminated media
- An exposure route (eg ingestion, inhalation) at the point of exposure.

Where one or more of the above elements is missing, the exposure pathway is considered to be incomplete and therefore, there is considered to be no direct risk to the receptors. Where this is identified, the exposure pathway does not warrant further assessment. Where a plausible linkage may exist or has the potential to exist, the exposure pathway is considered further in terms of risk assessment.

Based on the results of this P1CA and in accordance with the ASC NEPM, a preliminary CSM has been developed for the site. The CSM is outlined in the sections below.

9.1 Sources

The following properties may be considered as sources of potential contamination along the alignment:

- The three liquid fuel (petrol stations) businesses operating along Elizabeth Drive, as outlined in Section 7.3. COPCs include total recoverable hydrocarbons (TRH), benzene, toluene, ethylbenzene, xylenes, naphthalene (BTEXN), and lead
- Luddenham Auto Repairs business operating along Elizabeth Drive. COPCs include TRH, BTEXN, heavy metals and chlorinated hydrocarbons
- Sydney Recycling Park operating along Elizabeth Drive. COPCs include TRH, BTEXN, heavy metals, OCPs and OPPs
- Any uncontrolled fill located within the alignment. COPCs include asbestos, heavy metals, PAHs, PCBs, and OC / OP pesticides
- Fly tipped waste (if present). COPCs include Asbestos, heavy metals, OCP and OPP
- Areas of former and current agricultural land including former building structures. COPCs include Asbestos, heavy metals, OCP and OPP, petroleum hydrocarbons.

9.2 Potential Human Receptors and Exposure Pathways

With regard to the current and proposed use of the study area and the current land uses of the surrounding area, the following human receptors have been identified:

- On site intrusive (ie ground excavation) maintenance workers (eg demolition contractors)
- Off site residents
- Off site recreational users
- Off site intrusive maintenance workers.

The following human exposure pathways may apply:

- i. Dermal contact and incidental ingestion of soil
- ii. Inhalation of soil derived dust in indoor and/or outdoor air
- iii. Dermal contact and incidental ingestion of surface water
- iv. Inhalation of soil vapours in outdoor air

- v. Inhalation of soil (dust) within a trench.

CoPC associated with potential sources of contamination and the exposure pathways that may be relevant to each CoPC are presented in Table 9-1.

Table 9-1 CoPC and Relevant Pathways

CoPC	Relevant Pathways
Petroleum Hydrocarbons (TRH and BTEXN)	i, ii, iii, iv, v
Heavy metals, and OCP/OPP	i, ii, iii, v
Asbestos	i, ii, v

9.3 Potential Ecological Receptors and Exposure Receptors

Ecological receptors within the study area are likely restricted to grass patches along the border of Elizabeth Drive. These receptors are unlikely to be affected by groundwater, given the depth of groundwater and the small size of the vegetation; however, shallow fill is likely to exist within the study area. It is understood that subterranean biota may pass through the layer; however, it would not be considered a typical habitat. As such, it is not considered that the presence of the fill layer would cause a negative impact on the overall ecological properties of the study area.

Additional potential sensitive ecological receptors located within the study area include:

- Badgerys Creek, South Creek and Kemps Creek which cross the alignment at various points
- Private dams located on various properties that border the alignment.

GDE's mapped within a 2,000 metre buffer from the construction footprint include:

- South Creek – High potential aquatic GDE (based on national assessment).
- Terrestrial GDE's mapped within the study area include:
 - Cumberland River Flat Forest – High potential GDE located in isolated areas within the eastern portion of the construction footprint, and along Badgerys, South and Kemp Creek that transect the construction footprint
 - Cumberland Shale Hills Woodland – Moderate potential GDE located within the construction footprint in isolated areas between Badgerys, South and Kemp Creek
- Cumberland Shale Plains Woodland – Low potential GDE located within the construction footprint in isolated areas between South and Kemp Creek.

10.0 Potential Data Gaps

Following a historical review of ownership, photos and business activities and review of previous investigations carried out within the study area and the identification of APECs, four key data gaps were identified as requiring further investigation. These comprise:

- The extent of potentially contaminated fill along the proposal alignment that
- The potential for fly tipped waste to be present within the construction footprint
- The presence of contaminated soils and groundwater associated with current and former agricultural land
- The presence of contaminated soils and groundwater in vicinity of the potentially contaminating activities / businesses identified in Section 8.0.

11.0 Recommendations

Given the APECs identified in Section 8.0 and associated data gaps identified in Section 10.0 the following recommendations for supplementary investigation are as follows:

- Completion of Phase 2 Contamination Assessment, which would include the collection of a number of samples of fill material, fly tipped waste (if present) and areas of current and former agricultural land via test pitting along the alignment and at areas known to be construction staging areas or ancillary facilities to characterise the material. Given the length of the alignment, samples collected should focus on any areas that may indicate signs of potential contamination as well as area coverage.
- Characterisation of soil and groundwater in the vicinity of the five businesses noted below that are located along Elizabeth Drive as part of the intrusive Phase 2 Contamination Assessment:
 - BP (Apex) Petroleum located at 1443 Elizabeth Drive Kemps Creek
 - United Petroleum Kemps Creek located at 1463 Elizabeth Drive Kemps Creek
 - Caltex (Ampol) Service station located at 1413 Elizabeth Drive Kemps Creek
 - Sydney Recycling Park operated by Hi-Quality group located at 1503-1519 Elizabeth Drive Kemps Creek
 - Luddenham Auto Repairs located 1489 Elizabeth Drive Kemps Creek.
- As outlined in Section 7.0 of the REF, a Construction Environmental Management Plan (CEMP) should be prepared for the proposed construction footprint. The CEMP should identify environmental controls required including but not limited to noise, erosion, dust, waste, unexpected finds including potentially contaminated fill. This document would provide the information and management required should unexpected contamination be encountered.

12.0 Conclusions

The historical review of ownership, photos and business activities and review of previous investigations carried out at the site, identified five specific areas of concern that may indicate potential contamination.

A total of eight APECs were identified within the construction footprint. These APECs relate to current and former land uses (eg agricultural land) and potentially contaminating business activities (eg petrol stations and automotive repair workshops); the potential presence of contaminated fill; fly tipped waste (if present) and areas of current and former agricultural land.

The following data gaps were identified that require further assessment:

- The extent of potentially contaminated fill along the proposal alignment
- The potential for fly tipped waste to be present within the construction footprint
- The presence of contaminated soils and groundwater associated with current and former agricultural land
- The presence of contaminated soil and groundwater in vicinity of the potentially contaminating activities / businesses identified in Section 8.0

It is recommended that a Phase 2 Contamination Assessment is carried out for the proposal to address the data gaps identified in this P1CA. This assessment would include the collection of soil samples to characterise the APECs identified.

13.0 References

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Appendix A

LotSearch Report



LOTSEARCH

LOTSEARCH ENVIRO PROFESSIONAL

Date: 31 Jan 2022 12:56:01

Reference: LS028689 EP

Address: Elizabeth Drive Extension, Cecil Park, NSW 2178

Disclaimer:

The purpose of this report is to provide an overview of some of the site history, environmental risk and planning information available, affecting an individual address or geographical area in which the property is located. It is not a substitute for an on-site inspection or review of other available reports and records. It is not intended to be, and should not be taken to be, a rating or assessment of the desirability or market value of the property or its features. You should obtain independent advice before you make any decision based on the information within the report. The detailed terms applicable to use of this report are set out at the end of this report.

Dataset Listing

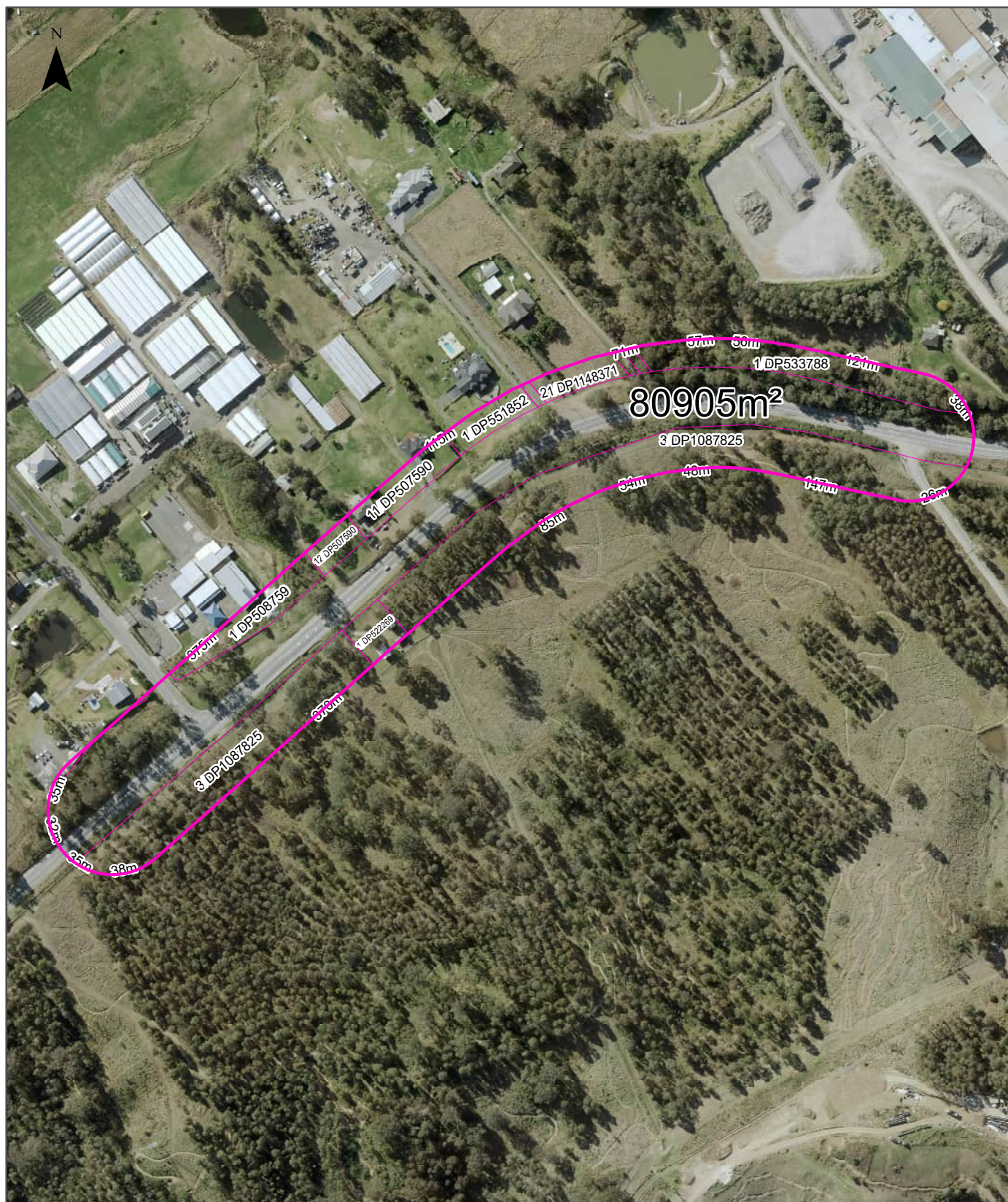
Datasets contained within this report, detailing their source and data currency:

Dataset Name	Custodian	Supply Date	Currency Date	Update Frequency	Dataset Buffer (m)	No. Features On-site	No. Features within 100m	No. Features within Buffer
Cadastre Boundaries	NSW Department of Finance, Services & Innovation	04/01/2022	04/01/2022	Quarterly	-	-	-	-
Topographic Data	NSW Department of Finance, Services & Innovation	25/06/2019	25/06/2019	Annually	-	-	-	-
List of NSW contaminated sites notified to EPA	Environment Protection Authority	10/12/2021	09/12/2021	Monthly	1000m	0	0	0
Contaminated Land Records of Notice	Environment Protection Authority	11/01/2022	11/01/2022	Monthly	1000m	0	0	0
Former Gasworks	Environment Protection Authority	07/01/2022	11/10/2017	Quarterly	1000m	0	0	0
National Waste Management Facilities Database	Geoscience Australia	12/05/2021	07/03/2017	Annually	1000m	0	0	0
National Liquid Fuel Facilities	Geoscience Australia	15/02/2021	13/07/2012	Annually	1000m	0	0	0
EPA PFAS Investigation Program	Environment Protection Authority	24/01/2022	14/07/2021	Monthly	2000m	0	0	0
Defence PFAS Investigation & Management Program - Investigation Sites	Department of Defence	28/01/2022	28/01/2022	Monthly	2000m	0	0	0
Defence PFAS Investigation & Management Program - Management Sites	Department of Defence	28/01/2022	28/01/2022	Monthly	2000m	0	0	0
Airservices Australia National PFAS Management Program	Airservices Australia	06/01/2022	06/01/2022	Monthly	2000m	0	0	0
Defence 3 Year Regional Contamination Investigation Program	Department of Defence	06/01/2022	06/01/2022	Quarterly	2000m	0	0	0
EPA Other Sites with Contamination Issues	Environment Protection Authority	02/02/2021	13/12/2018	Annually	1000m	0	0	0
Licensed Activities under the POEO Act 1997	Environment Protection Authority	19/01/2022	19/01/2022	Monthly	1000m	5	5	5
Delicensed POEO Activities still regulated by the EPA	Environment Protection Authority	19/01/2022	19/01/2022	Monthly	1000m	0	0	0
Former POEO Licensed Activities now revoked or surrendered	Environment Protection Authority	19/01/2022	19/01/2022	Monthly	1000m	5	5	6
UBD Business Directories (Premise & Intersection Matches)	Hardie Grant			Not required	150m	0	0	0
UBD Business Directories (Road & Area Matches)	Hardie Grant			Not required	150m	-	3	3
UBD Business Directory Dry Cleaners & Motor Garages/Service Stations (Premise & Intersection Matches)	Hardie Grant			Not required	500m	0	0	0
UBD Business Directory Dry Cleaners & Motor Garages/Service Stations (Road & Area Matches)	Hardie Grant			Not required	500m	-	0	0
Points of Interest	NSW Department of Finance, Services & Innovation	19/08/2021	19/08/2021	Quarterly	1000m	0	1	2
Tanks (Areas)	NSW Department of Customer Service - Spatial Services	19/08/2021	19/08/2021	Quarterly	1000m	0	0	0
Tanks (Points)	NSW Department of Customer Service - Spatial Services	19/08/2021	19/08/2021	Quarterly	1000m	0	0	2
Major Easements	NSW Department of Finance, Services & Innovation	19/08/2021	19/08/2021	Quarterly	1000m	1	3	8
State Forest	Forestry Corporation of NSW	25/02/2021	14/02/2021	Annually	1000m	0	0	0
NSW National Parks and Wildlife Service Reserves	NSW Office of Environment & Heritage	22/01/2021	11/12/2020	Annually	1000m	0	0	0
Hydrogeology Map of Australia	Commonwealth of Australia (Geoscience Australia)	08/10/2014	17/03/2000	As required	1000m	1	1	1
Temporary Water Restriction (Botany Sands Groundwater Source) Order 2018	NSW Department of Planning, Industry and Environment	26/10/2020	21/02/2018	Annually	1000m	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	2000m	0	0	10

Dataset Name	Custodian	Supply Date	Currency Date	Update Frequency	Dataset Buffer (m)	No. Features On-site	No. Features within 100m	No. Features within Buffer
Geological Units 1:100,000	NSW Department of Planning, Industry and Environment	20/08/2014		Annually	1000m	1	1	1
Geological Structures 1:100,000	NSW Department of Planning, Industry and Environment	20/08/2014		Annually	1000m	0	0	1
Naturally Occurring Asbestos Potential	NSW Dept. of Industry, Resources & Energy	04/12/2015	24/09/2015	Unknown	1000m	0	0	0
Atlas of Australian Soils	Australian Bureau of Agriculture and Resource Economics and Sciences (ABARES)	19/05/2017	17/02/2011	As required	1000m	1	1	2
Soil Landscapes of Central and Eastern NSW	NSW Department of Planning, Industry and Environment	14/10/2020	27/07/2020	Annually	1000m	1	2	3
Environmental Planning Instrument Acid Sulfate Soils	NSW Department of Planning, Industry and Environment	07/01/2022	17/12/2021	Monthly	500m	0	-	-
Atlas of Australian Acid Sulfate Soils	CSIRO	19/01/2017	21/02/2013	As required	1000m	1	1	2
Dryland Salinity - National Assessment	National Land and Water Resources Audit	18/07/2014	12/05/2013	None planned	1000m	1	1	2
Dryland Salinity Potential of Western Sydney	NSW Department of Planning, Industry and Environment	12/05/2017	01/01/2002	None planned	1000m	2	2	6
Mining Subsidence Districts	NSW Department of Customer Service - Subsidence Advisory NSW	19/08/2021	05/08/2021	Quarterly	1000m	0	0	0
Current Mining Titles	NSW Department of Industry	07/01/2022	07/01/2022	Monthly	1000m	0	0	0
Mining Title Applications	NSW Department of Industry	07/01/2022	07/01/2022	Monthly	1000m	0	0	0
Historic Mining Titles	NSW Department of Industry	07/01/2022	07/01/2022	Monthly	1000m	9	9	12
Environmental Planning Instrument SEPP State Significant Precincts	NSW Department of Planning, Industry and Environment	15/11/2021	07/12/2018	Monthly	1000m	0	0	0
Environmental Planning Instrument Land Zoning	NSW Department of Planning, Industry and Environment	15/11/2021	05/11/2021	Monthly	1000m	4	4	8
Commonwealth Heritage List	Australian Government Department of the Agriculture, Water and the Environment	18/05/2021	20/11/2019	Annually	1000m	0	0	0
National Heritage List	Australian Government Department of the Agriculture, Water and the Environment	18/05/2021	20/11/2019	Annually	1000m	0	0	0
State Heritage Register - Curtilages	NSW Department of Planning, Industry and Environment	19/08/2021	25/06/2021	Quarterly	1000m	0	0	1
Environmental Planning Instrument Local Heritage	NSW Department of Planning, Industry and Environment	07/01/2022	17/12/2021	Monthly	1000m	0	0	3
Bush Fire Prone Land	NSW Rural Fire Service	31/01/2022	08/12/2021	Weekly	1000m	4	4	4
Remnant Vegetation of the Cumberland Plain	NSW Office of Environment & Heritage	07/10/2014	04/08/2011	Unknown	1000m	4	5	6
Ramsar Wetlands of Australia	Australian Government Department of Agriculture, Water and the Environment	24/02/2021	19/03/2020	Annually	1000m	0	0	0
Groundwater Dependent Ecosystems	Bureau of Meteorology	14/08/2017	15/05/2017	Annually	1000m	2	2	2
Inflow Dependent Ecosystems Likelihood	Bureau of Meteorology	14/08/2017	15/05/2017	Unknown	1000m	2	2	3
NSW BioNet Species Sightings	NSW Office of Environment & Heritage	31/01/2022	31/01/2022	Weekly	10000m	-	-	-

Site Diagram

Elizabeth Drive Extension, Cecil Park, NSW 2178



<p>Legend</p> <ul style="list-style-type: none"> Site Boundary Internal Parcel Boundaries 	<p>Total Area: 80905m²</p> <p>Total Perimeter: 1.78km</p> <p><small>Disclaimers:</small></p> <p>Measurements are approximate only and may have been simplified or smaller lengths removed for readability.</p> <p>Parcels that make up a small percentage of the total site area have not been labelled for increased legibility.</p>	<p>Scale:</p> <p>Data Source Aerial Imagery: © Aerometrex Pty Ltd</p> <table border="1" style="width: 100%;"> <tr> <td style="width: 50%;">Coordinate System: GDA 1994 MGA Zone 56</td> <td style="width: 50%;">Date: 31 January 2022</td> </tr> </table>	Coordinate System: GDA 1994 MGA Zone 56	Date: 31 January 2022
Coordinate System: GDA 1994 MGA Zone 56	Date: 31 January 2022			

Contaminated Land

Elizabeth Drive Extension, Cecil Park, NSW 2178

List of NSW contaminated sites notified to EPA

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

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

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

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

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

Contaminated Land

Elizabeth Drive Extension, Cecil Park, NSW 2178

Contaminated Land: Records of Notice

Record of Notices within the dataset buffer:

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

Contaminated Land Records of Notice Data Source: Environment Protection Authority
© State of New South Wales through the Environment Protection Authority
Terms of use and disclaimer for Contaminated Land: Record of Notices, please visit
<http://www.epa.nsw.gov.au/clm/clmdisclaimer.htm>

Former Gasworks

Former Gasworks within the dataset buffer:

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

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

Waste Management & Liquid Fuel Facilities

Elizabeth Drive Extension, Cecil Park, NSW 2178

National Waste Management Site Database

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

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

Waste Management Facilities Data Source: Geoscience Australia

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National Liquid Fuel Facilities

National Liquid Fuel Facilities within the dataset buffer:

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

National Liquid Fuel Facilities Data Source: Geoscience Australia

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PFAS Investigation & Management Programs

Elizabeth Drive Extension, Cecil Park, NSW 2178

EPA PFAS Investigation Program

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

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

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

Defence PFAS Investigation Program

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

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

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

Defence PFAS Management Program

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

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

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

Airservices Australia National PFAS Management Program

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

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

Airservices Australia National PFAS Management Program Data Custodian: Airservices Australia

Defence Sites

Elizabeth Drive Extension, Cecil Park, NSW 2178

Defence 3 Year Regional Contamination Investigation Program

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

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

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

EPA Other Sites with Contamination Issues

Elizabeth Drive Extension, Cecil Park, NSW 2178

EPA Other Sites with Contamination Issues

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

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

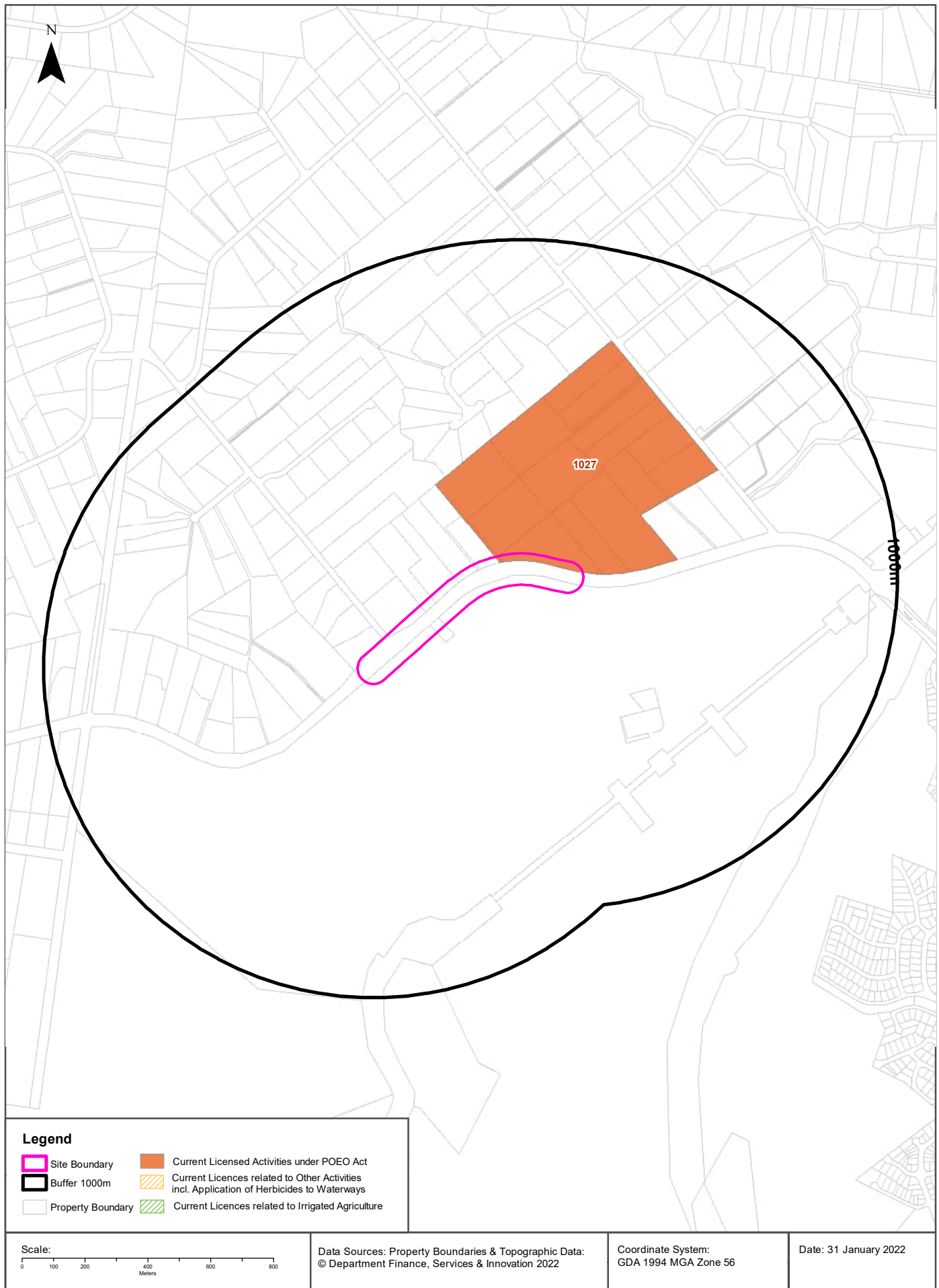
Sites within the dataset buffer:

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

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

Current EPA Licensed Activities

Elizabeth Drive Extension, Cecil Park, NSW 2178



EPA Activities

Elizabeth Drive Extension, Cecil Park, NSW 2178

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
1027	PGH BRICKS & PAVERS PTY LIMITED	CSR BUILDING PRODUCTS, CECIL PARK	LOT 7 CECIL ROAD	CECIL PARK	Ceramic waste generation	Premise Match	0m	On-site
1027	PGH BRICKS & PAVERS PTY LIMITED	CSR BUILDING PRODUCTS, CECIL PARK	LOT 7 CECIL ROAD	CECIL PARK	Land-based extractive activity	Premise Match	0m	On-site
1027	PGH BRICKS & PAVERS PTY LIMITED	CSR BUILDING PRODUCTS, CECIL PARK	LOT 7 CECIL ROAD	CECIL PARK	Mining for minerals	Premise Match	0m	On-site
1027	PGH BRICKS & PAVERS PTY LIMITED	CSR BUILDING PRODUCTS, CECIL PARK	LOT 7 CECIL ROAD	CECIL PARK	Ceramics production	Premise Match	0m	On-site
1027	PGH BRICKS & PAVERS PTY LIMITED	CSR BUILDING PRODUCTS, CECIL PARK	LOT 7 CECIL ROAD	CECIL PARK	Crushing, grinding or separating	Premise Match	0m	On-site

POEO Licence Data Source: Environment Protection Authority

© State of New South Wales through the Environment Protection Authority

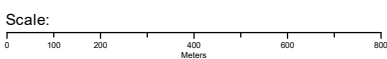
Delicensed & Former Licensed EPA Activities

Elizabeth Drive Extension, Cecil Park, NSW 2178



Legend

- Site Boundary
- Buffer 1000m
- Property Boundary
- Delicensed Activities still Regulated by EPA
- Former Licensed/Regulated Activities (revoked or surrendered)
- Surrendered Licences related to Other Activities on Waterways incl. Application of Herbicides



Property Boundary Data Source:
© Department Finance, Services & Innovation 2022

Coordinate System:
GDA 1994 MGA Zone 56

Date: 31 January 2022

EPA Activities

Elizabeth Drive Extension, Cecil Park, NSW 2178

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

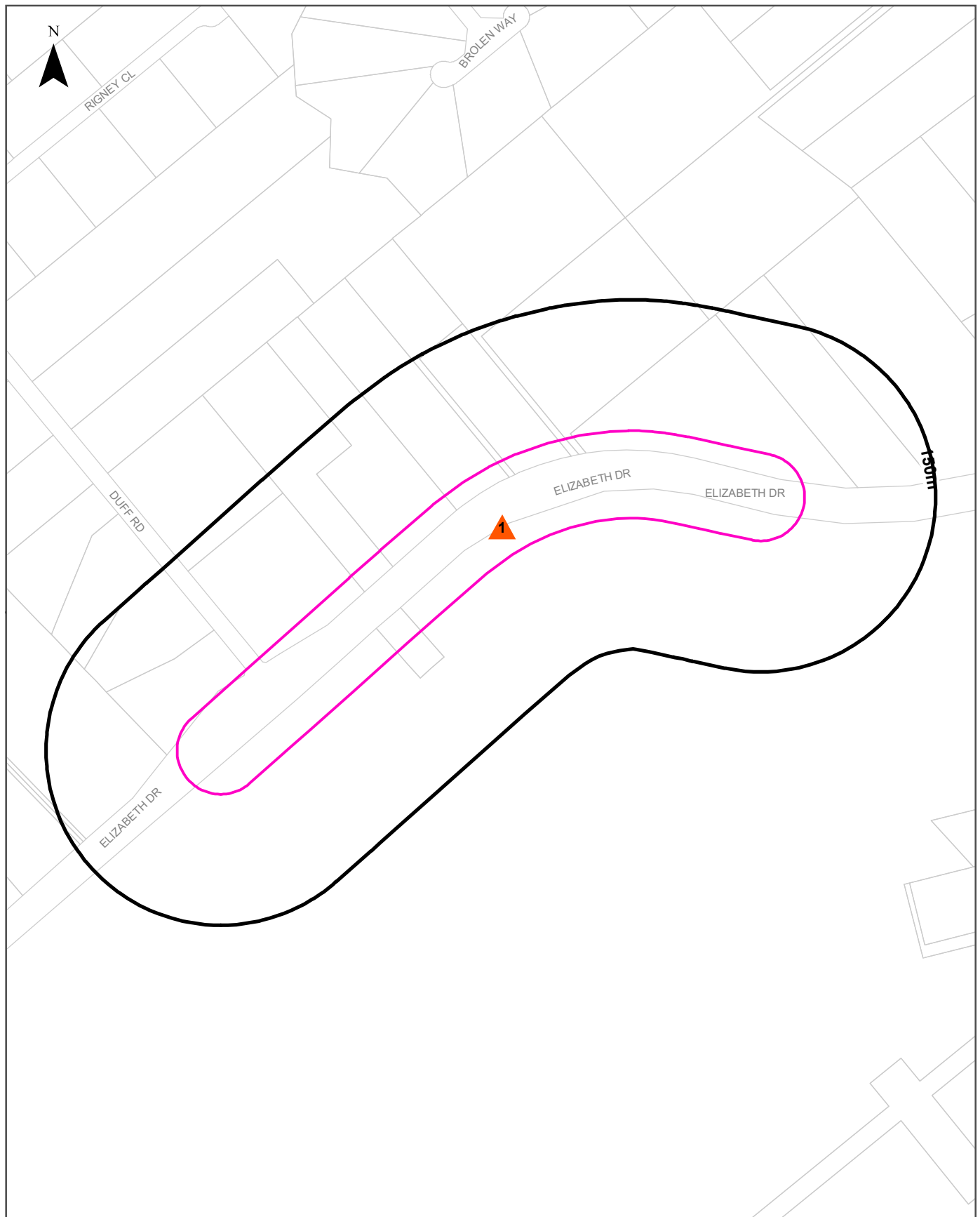
Former Licensed activities under the Protection of the Environment Operations Act 1997, now revoked or surrendered, within the dataset buffer:

Licence No	Organisation	Location	Status	Issued Date	Activity	Loc Conf	Distance	Direction
4653	LUHRMANN ENVIRONMENT MANAGEMENT PTY LTD	WATERWAYS THROUGHOUT NSW	Surrendered	06/09/2000	Other Activities / Non Scheduled Activity - Application of Herbicides	Network of Features	0m	On-site
4838	Robert Orchard	Various Waterways throughout New South Wales - SYDNEY NSW 2000	Surrendered	07/09/2000	Other Activities / Non Scheduled Activity - Application of Herbicides	Network of Features	0m	On-site
5150	FAIRFIELD CITY COUNCIL	WATERWAYS OF FAIRFIELD CITY COUNCIL - FAIRFIELD NSW 2165	Surrendered	17/08/2000	Other Activities / Non Scheduled Activity - Application of Herbicides	Network of Features	0m	On-site
5176	LIVERPOOL CITY COUNCIL	WATERWAYS OF LIVERPOOL CITY	Surrendered	17/04/2001	Other Activities / Non Scheduled Activity - Application of Herbicides	Network of Features	0m	On-site
6630	SYDNEY WEED & PEST MANAGEMENT PTY LTD	WATERWAYS THROUGHOUT NSW - PROSPECT, NSW, 2148	Surrendered	09/11/2000	Other Activities / Non Scheduled Activity - Application of Herbicides	Network of Features	0m	On-site
11875	ACCIONA INFRASTRUCTURE PROJECTS AUSTRALIA PTY LTD	FROM CONNECTION WITH M5 AT CAMDEN VALLEY WAY TO CONNECTION WITH M2 AT BAULKHAM HILLS, BLACKTOWN, NSW 2148	Surrendered	10/04/2003	Crushing, grinding or separating, Road construction, Concrete works; Freeway or Tollway Construction	Road Match	933m	East

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

Historical Business Directories

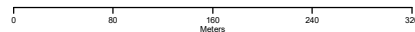
Elizabeth Drive Extension, Cecil Park, NSW 2178



Legend

- Site Boundary
- Buffer 150m
- Property Boundary
- Business directory records mapped to a specific premise
- Business directory records mapped to a road intersection
- Business directory records mapped to a road corridor
- Business directory records mapped to a general area

Scale:



Coordinate System:
GDA 1994 MGA Zone 56

Date: 31 January 2022

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

Historical Business Directories

Elizabeth Drive Extension, Cecil Park, NSW 2178

Business Directory Records 1950-1991 Premise or Road Intersection Matches

Universal Business Directory records from years 1991, 1986, 1982, 1978, 1975, 1970, 1965, 1961 & 1950, mapped to a premise or road intersection within the dataset buffer:

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

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Business Directory Records 1950-1991 Road or Area Matches

Universal Business Directory records from years 1991, 1986, 1982, 1978, 1975, 1970, 1965, 1961 & 1950, mapped to a road or an area, within the dataset buffer. Records are mapped to the road when a building number is not supplied, cannot be found, or the road has been renumbered since the directory was published:

Map Id	Business Activity	Premise	Ref No.	Year	Location Confidence	Distance to Road Corridor or Area
1	ROAD TRANSPORT SERVICES - INTRASTATE.	Five Star Transport, 1 Elizabeth Dr., Cecil Park, 2171	83422	1986	Road Match	0m
	COURIER SERVICES.	Five Star Transport, 1 Elizabeth Dr., Cecil Park, 2171	20619	1986	Road Match	0m
	COURIER SERVICES.	Peech Couriers & Transport, 1 Elizabeth Dr., Cecil Park, 2171	20633	1986	Road Match	0m

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Historical Business Directories

Elizabeth Drive Extension, Cecil Park, NSW 2178

Dry Cleaners, Motor Garages & Service Stations 1948-1993 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.

Note: The Universal Business Directories were published between 1948 and 1993. Dry Cleaners, Motor Garages & Service Stations have been extracted from all of these directories except the following years 1951, 1955, 1957, 1960, 1963, 1973, 1974, 1977, 1987.

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

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Dry Cleaners, Motor Garages & Service Stations 1948-1993 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.

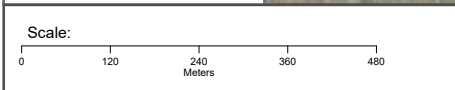
Note: The Universal Business Directories were published between 1948 and 1993. Dry Cleaners, Motor Garages & Service Stations have been extracted from all of these directories except the following years 1951, 1955, 1957, 1960, 1963, 1973, 1974, 1977, 1987.

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

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Aerial Imagery 2021

Elizabeth Drive Extension, Cecil Park, NSW 2178



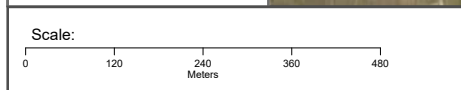
Data Source Aerial Imagery:
© Aerometrex Pty Ltd

Coordinate System:
GDA 1994 MGA Zone 56

Date: 31 January 2022

Aerial Imagery 2016

Elizabeth Drive Extension, Cecil Park, NSW 2178



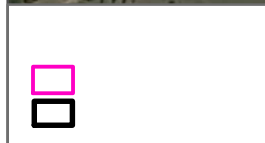
Data Source Aerial Imagery:
© Aerometrex Pty Ltd

Coordinate System:
GDA 1994 MGA Zone 56

Date: 31 January 2022

Aerial Imagery 2011

Elizabeth Drive Extension, Cecil Park, NSW 2178



<p>Scale:</p> <p>0 120 240 360 480 Meters</p>	<p>Data Source Aerial Imagery: © Aerometrex Pty Ltd</p>	<p>Coordinate System: GDA 1994 MGA Zone 56</p>	<p>Date: 31 January 2022</p>
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Aerial Imagery 2005

Elizabeth Drive Extension, Cecil Park, NSW 2178



<p>Scale:</p>	<p>Data Source Aerial Imagery: © Aerometrex Pty Ltd</p>	<p>Coordinate System: GDA 1994 MGA Zone 56</p>	<p>Date: 31 January 2022</p>
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Aerial Imagery 2000

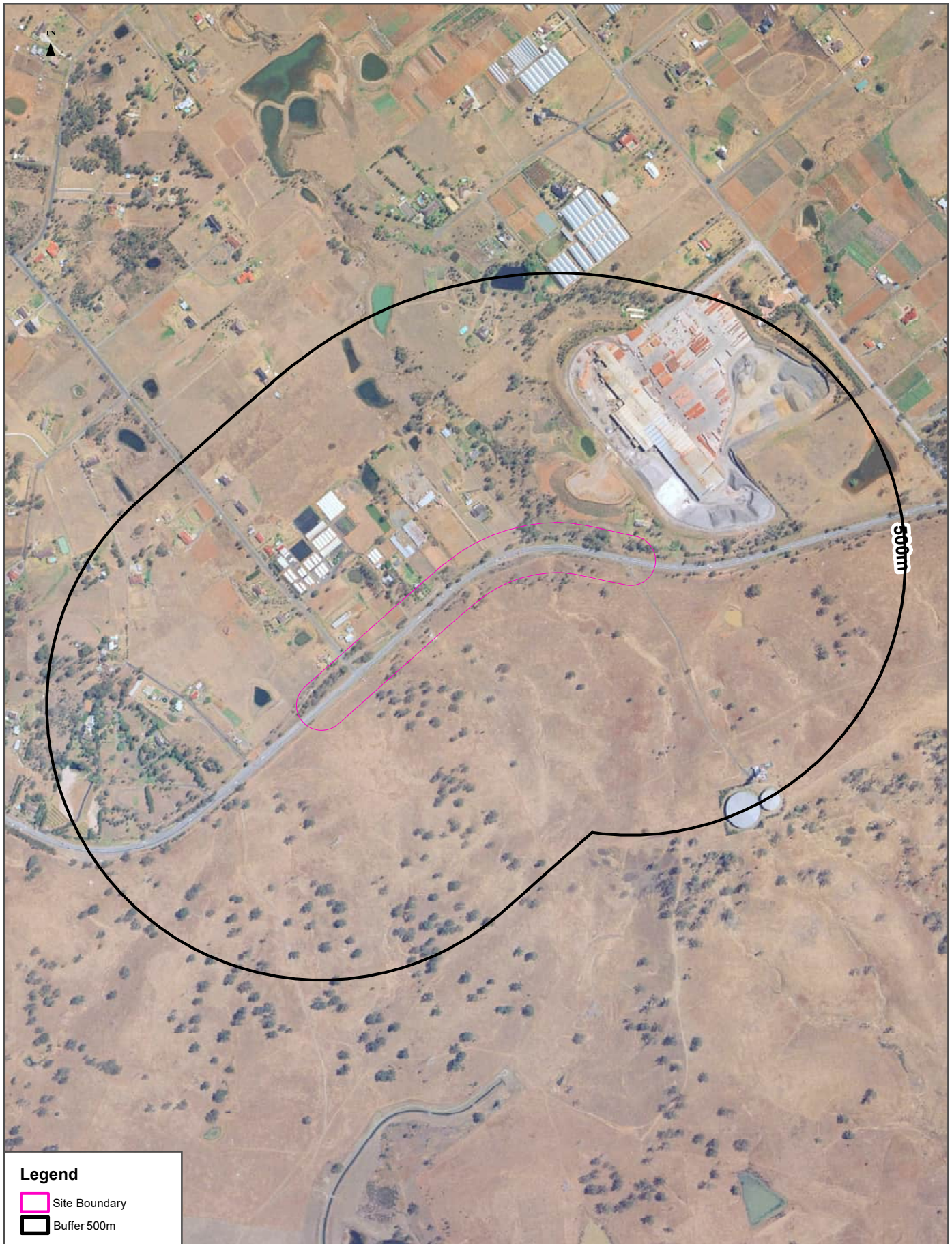
Elizabeth Drive Extension, Cecil Park, NSW 2178



<p>Scale:</p> <p>0 120 240 360 480 Meters</p>	<p>Data Source Aerial Imagery: © Aerometrex Pty Ltd</p>	<p>Coordinate System: GDA 1994 MGA Zone 56</p>	<p>Date: 31 January 2022</p>
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Aerial Imagery 1994

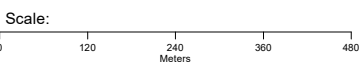
Elizabeth Drive Extension, Cecil Park, NSW 2178



500m

Legend

-  Site Boundary
-  Buffer 500m



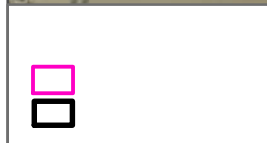
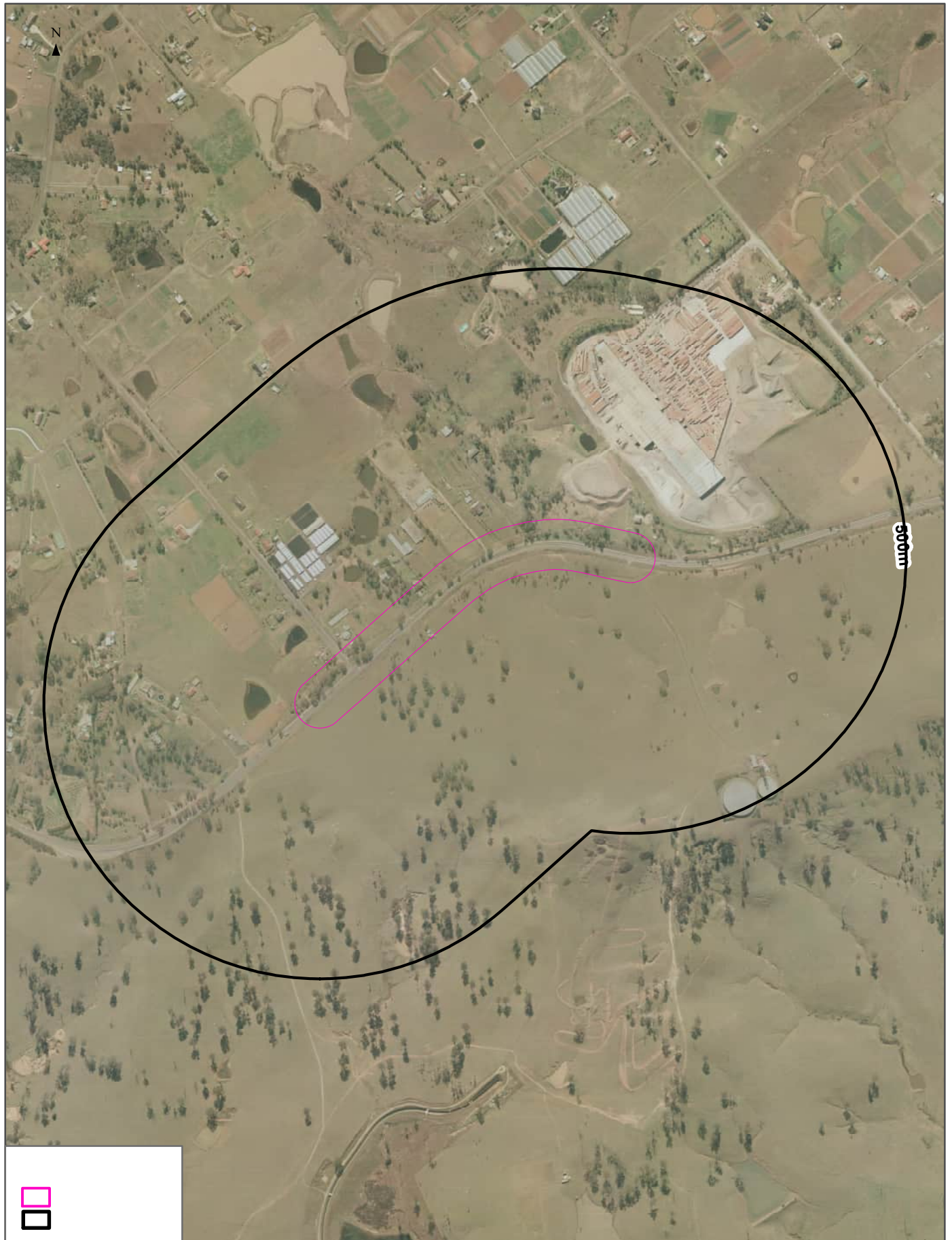
Data Source Aerial Imagery:
© NSW Department of Customer Service

Coordinate System:
GDA 1994 MGA Zone 56

Date: 28 January 2022

Aerial Imagery 1991

Elizabeth Drive Extension, Cecil Park, NSW 2178



Scale: 0 120 240 360 480 Meters

Data Sources: Aerial Imagery: © NSW Department of Customer Service

Coordinate System: GDA 1994 MGA Zone 56
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Date: 31 January 2022

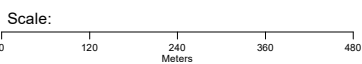
Aerial Imagery 1986

Elizabeth Drive Extension, Cecil Park, NSW 2178



Legend

-  Site Boundary
-  Buffer 500m



Data Source Aerial Imagery:
© NSW Department of Customer Service

Coordinate System:
GDA 1994 MGA Zone 56

Date: 28 January 2022

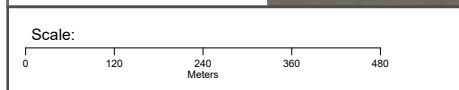
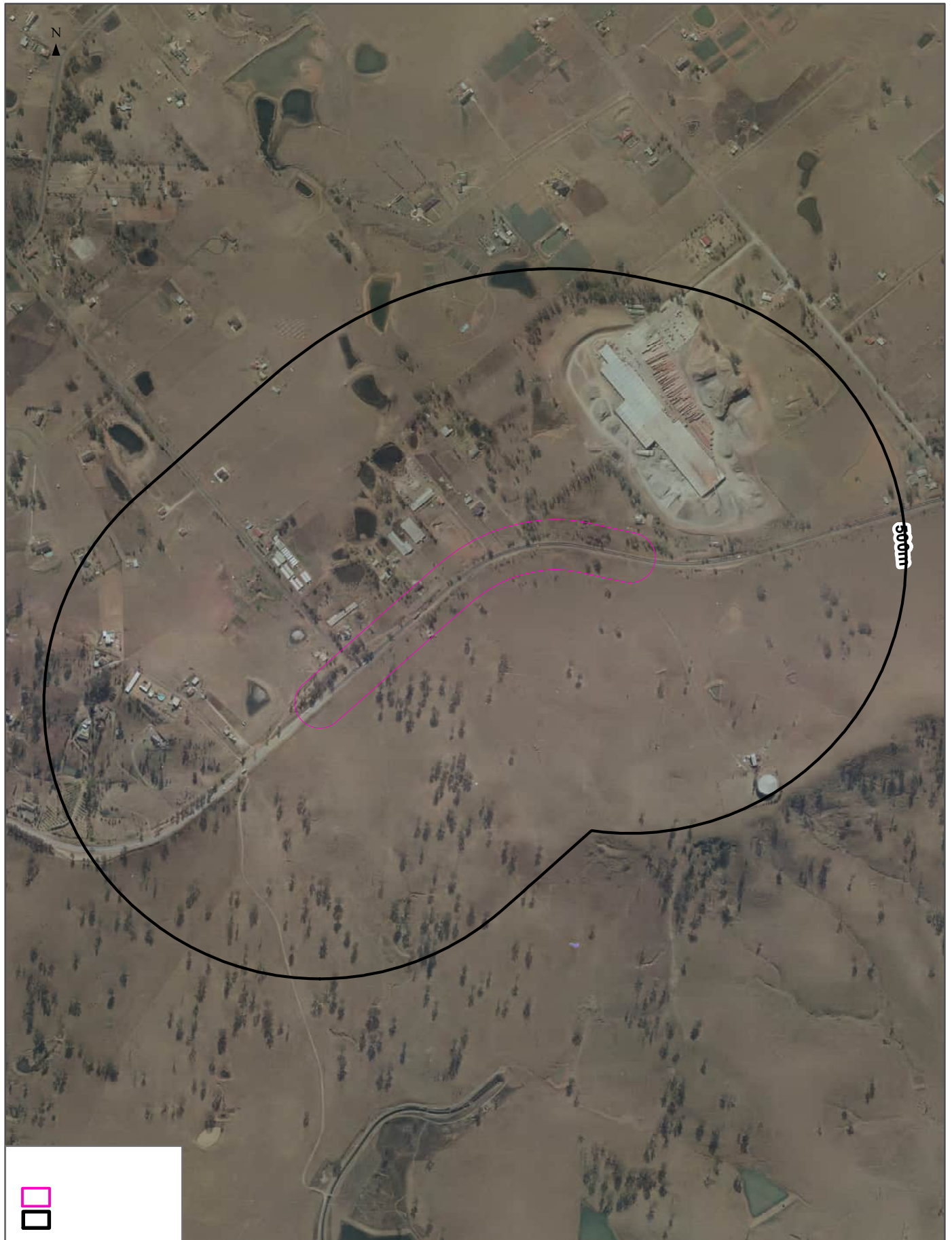
Aerial Imagery 1986

Elizabeth Drive Extension, Cecil Park, NSW 2178



Aerial Imagery 1982

Elizabeth Drive Extension, Cecil Park, NSW 2178



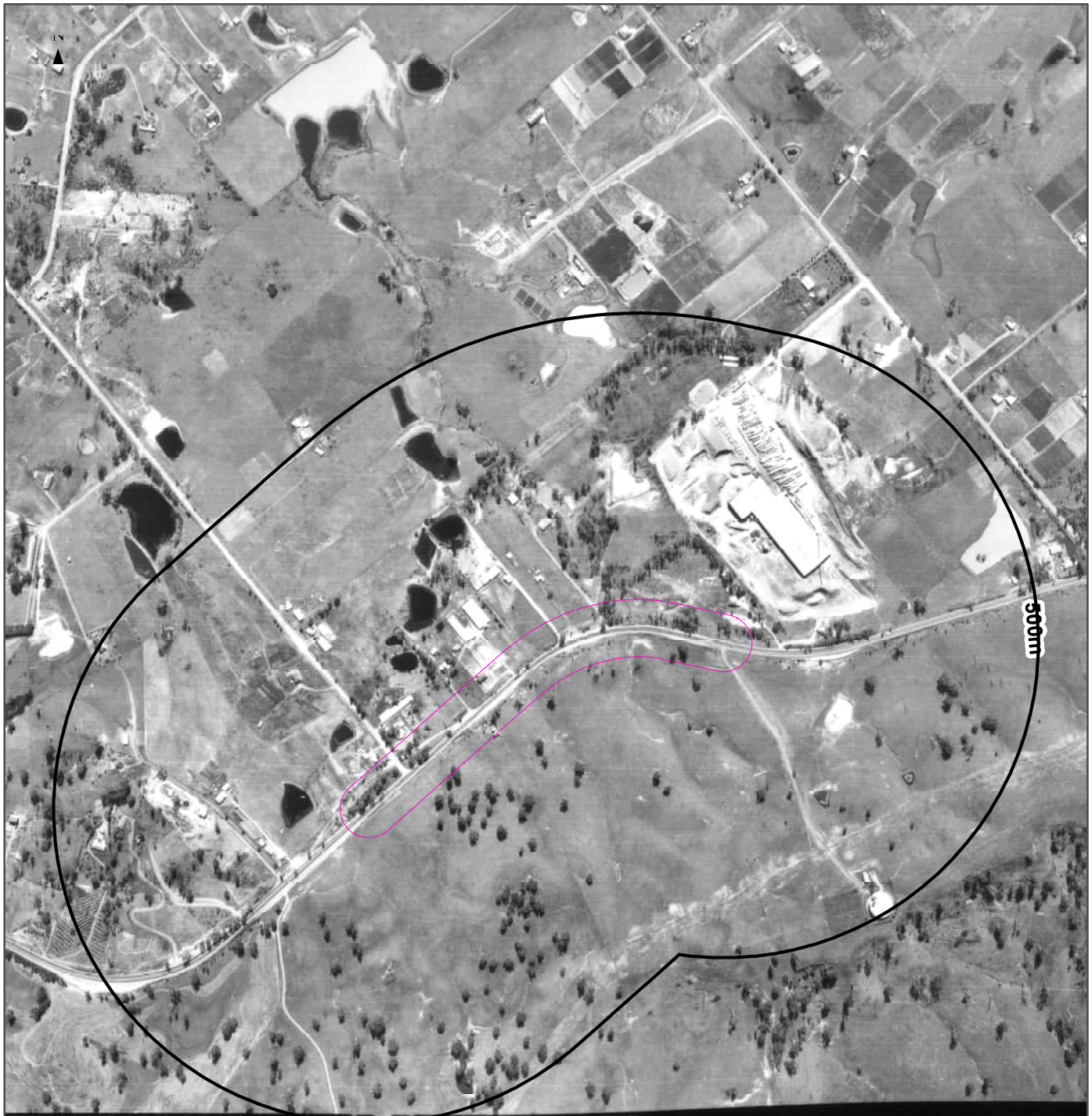
Data Sources: Aerial Imagery:
© NSW Department of Customer Service

Coordinate System:
GDA 1994 MGA Zone 56



Date: 31 January 2022

Aerial Imagery 1978

Elizabeth Drive Extension, Cecil Park, NSW 2178



Legend

-  Site Boundary
-  Buffer 500m

Scale:
0 120 240 360 480
Meters

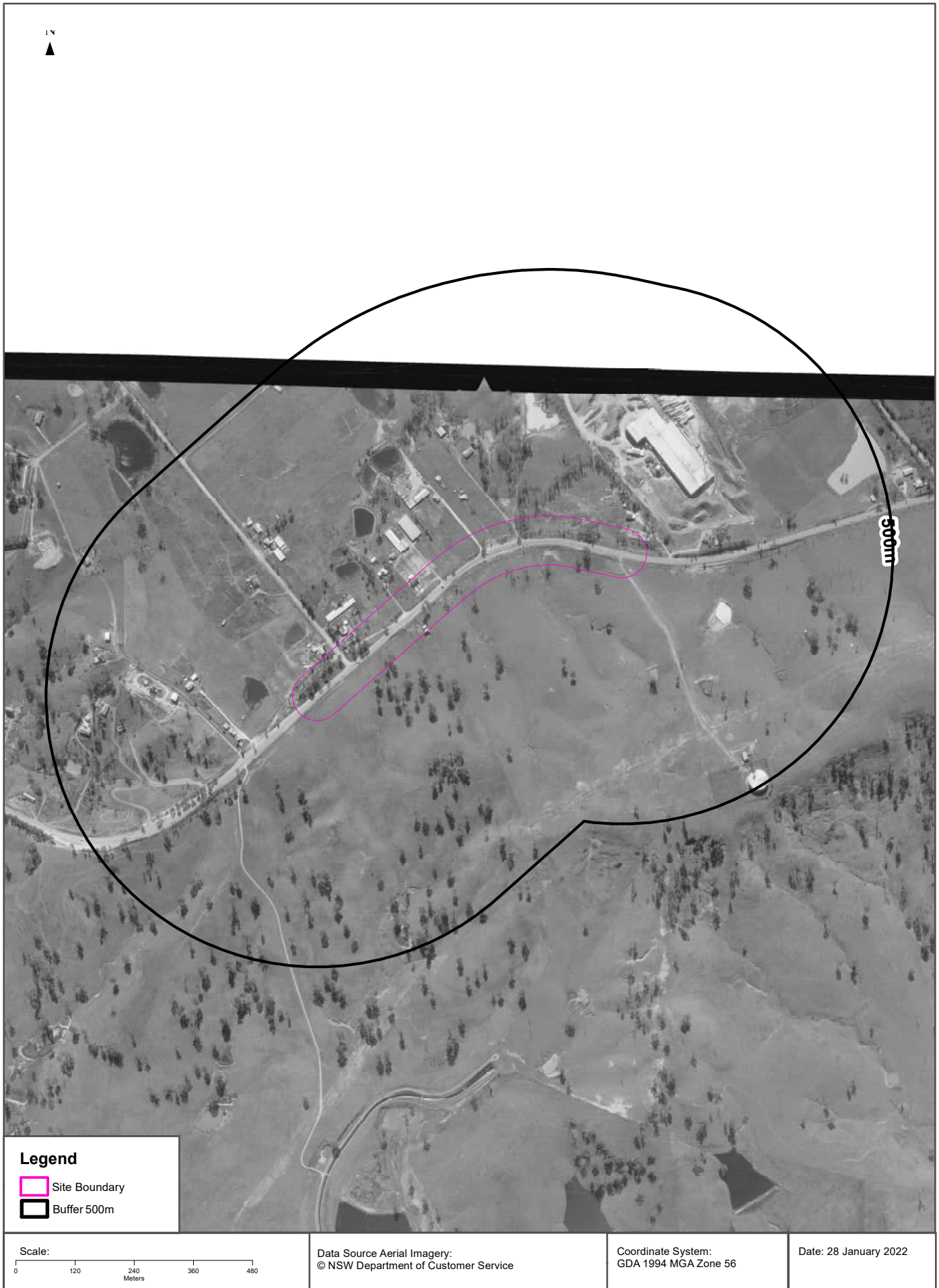
Data Source Aerial Imagery:
© NSW Department of Customer Service

Coordinate System:
GDA 1994 MGA Zone 56

Date: 28 January 2022

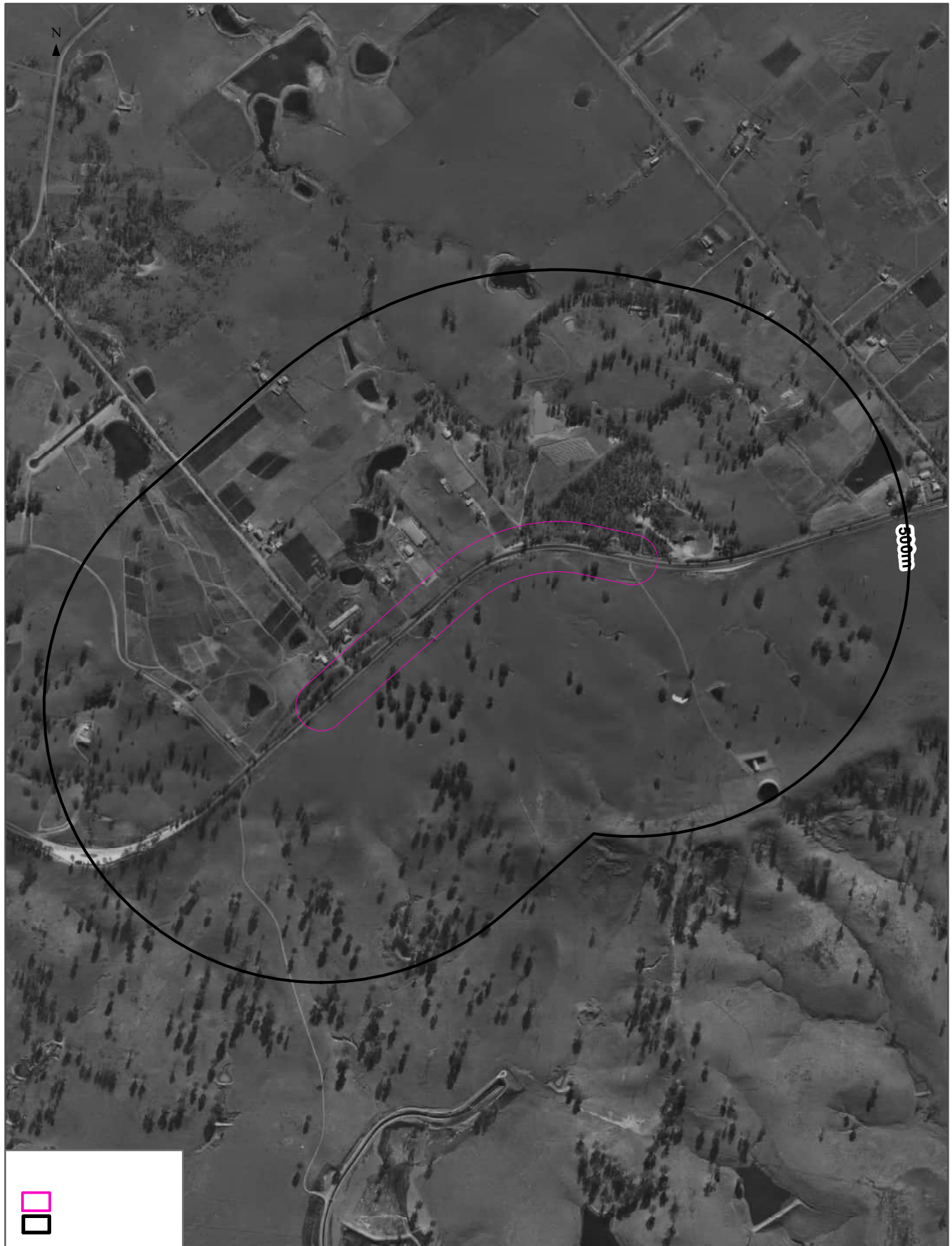
Aerial Imagery 1978

Elizabeth Drive Extension, Cecil Park, NSW 2178



Aerial Imagery 1970

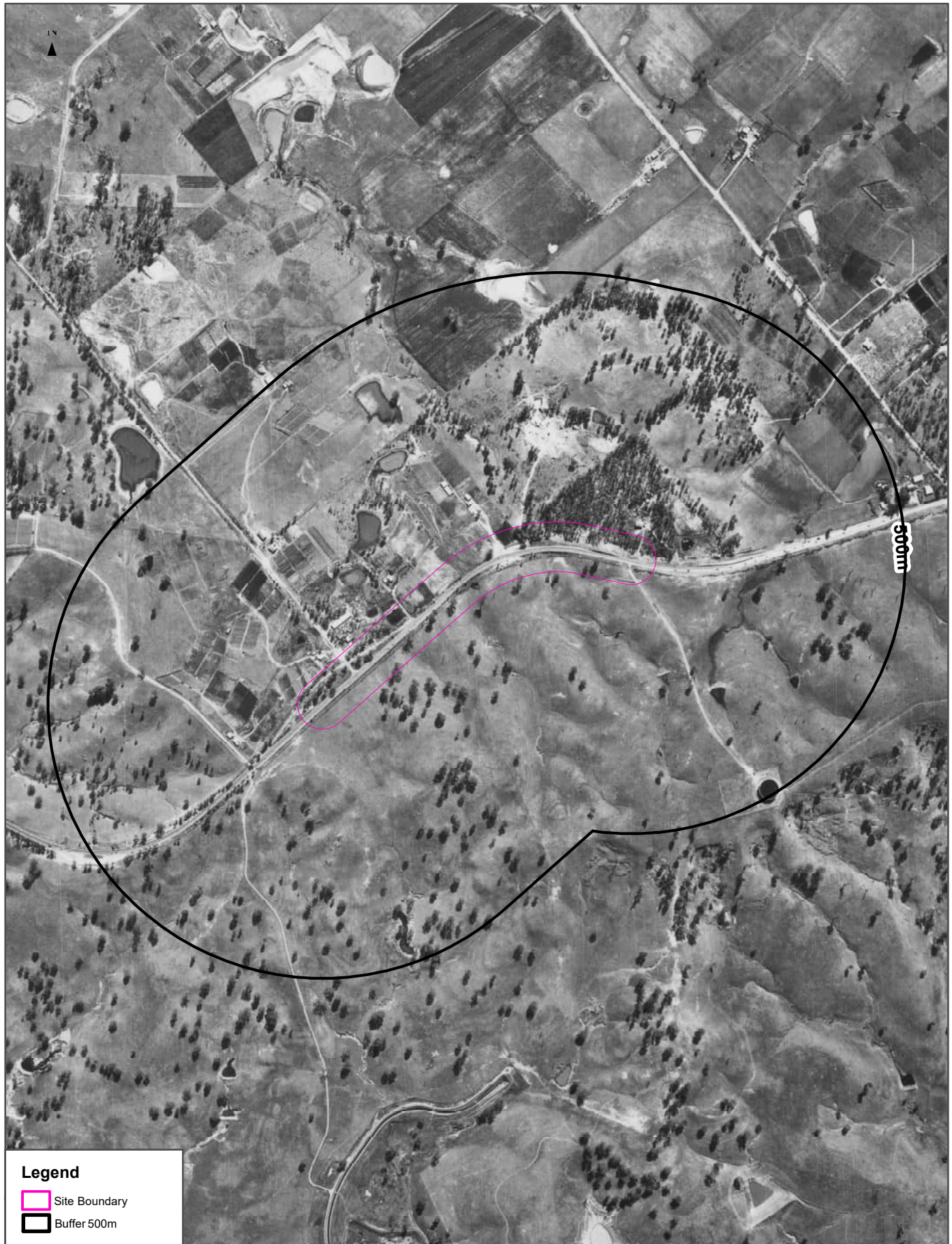
Elizabeth Drive Extension, Cecil Park, NSW 2178





<p>Scale:</p>	<p>Data Sources: Aerial Imagery: © NSW Department of Customer Service</p>	<p>Coordinate System: GDA 1994 MGA Zone 56</p>	<p>Date: 31 January 2022</p>
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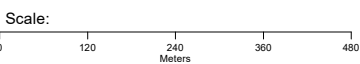
Aerial Imagery 1965

Elizabeth Drive Extension, Cecil Park, NSW 2178



Legend

-  Site Boundary
-  Buffer 500m



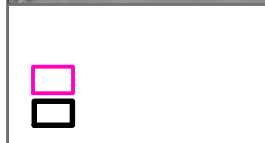
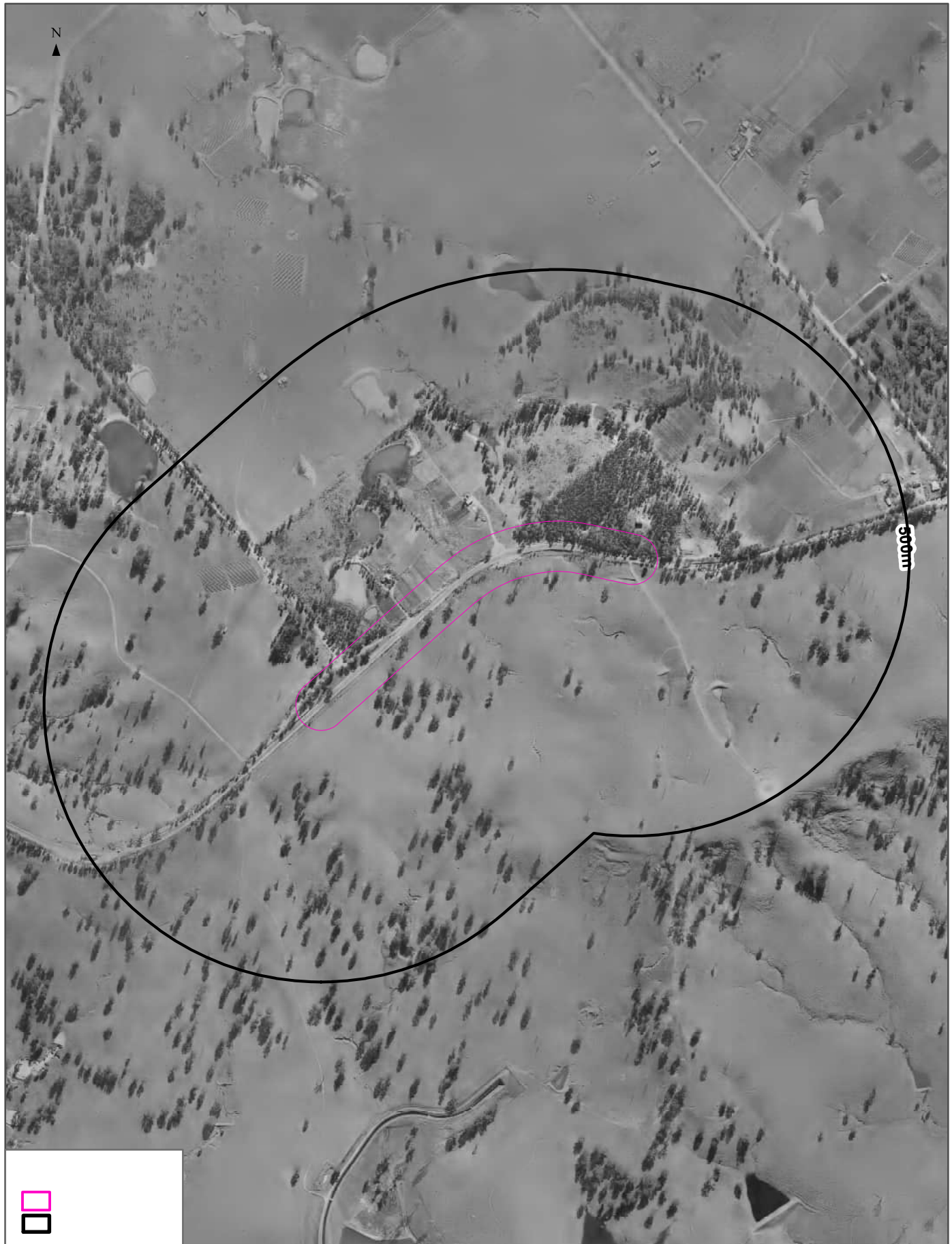
Data Source Aerial Imagery:
© NSW Department of Customer Service

Coordinate System:
GDA 1994 MGA Zone 56

Date: 28 January 2022

Aerial Imagery 1961

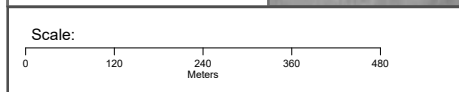
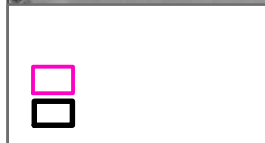
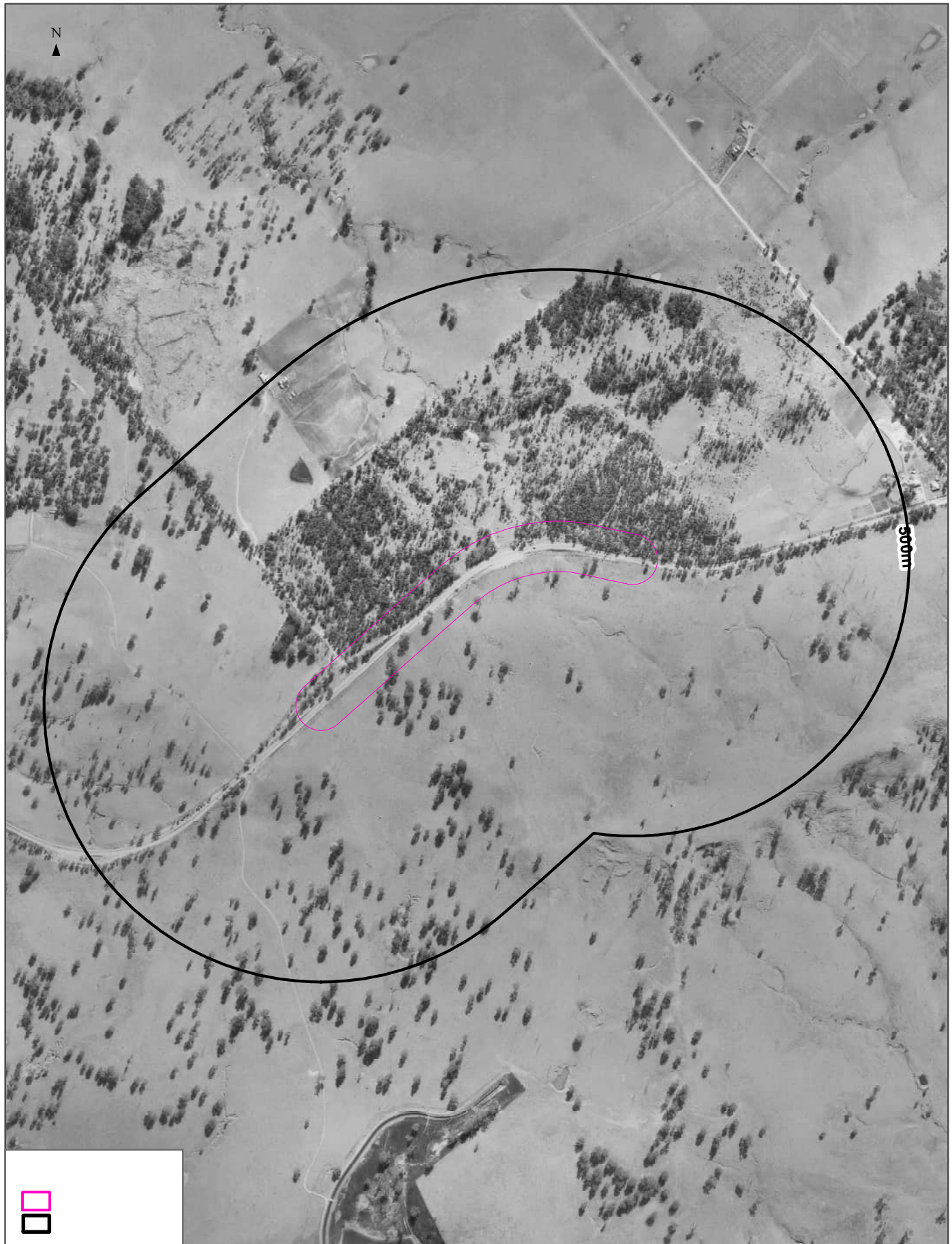
Elizabeth Drive Extension, Cecil Park, NSW 2178



<p>Scale:</p>	<p>Data Sources: Aerial Imagery: © NSW Department of Customer Service</p>	<p>Coordinate System: GDA 1994 MGA Zone 56</p>	<p>Date: 31 January 2022</p>
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Aerial Imagery 1955, 1956

Elizabeth Drive Extension, Cecil Park, NSW 2178



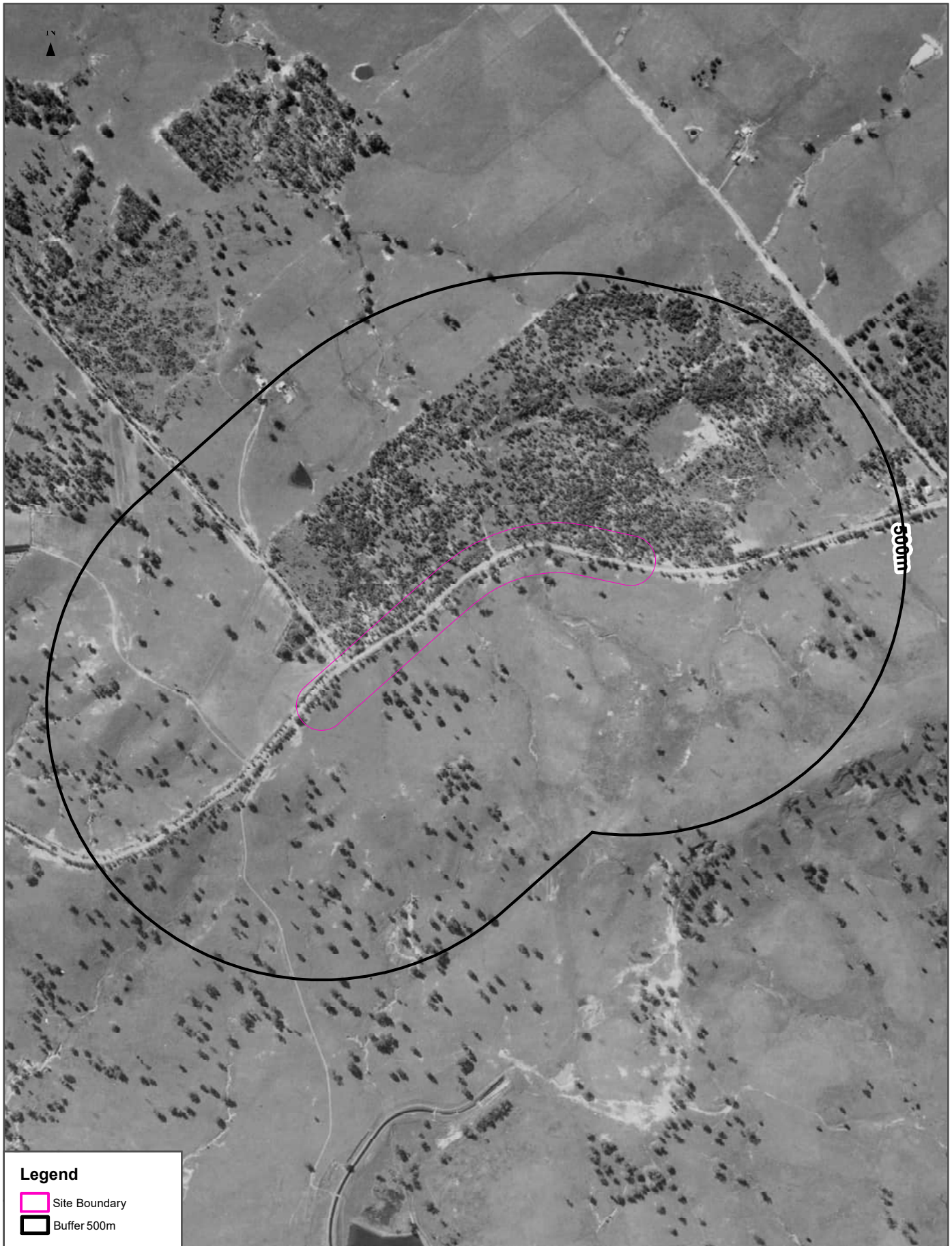
Data Sources: Aerial Imagery:
© NSW Department of Customer Service

Coordinate System:
GDA 1994 MGA Zone 56



Date: 31 January 2022

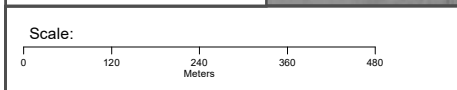
Aerial Imagery 1949

Elizabeth Drive Extension, Cecil Park, NSW 2178



Legend

-  Site Boundary
-  Buffer 500m



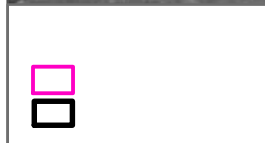
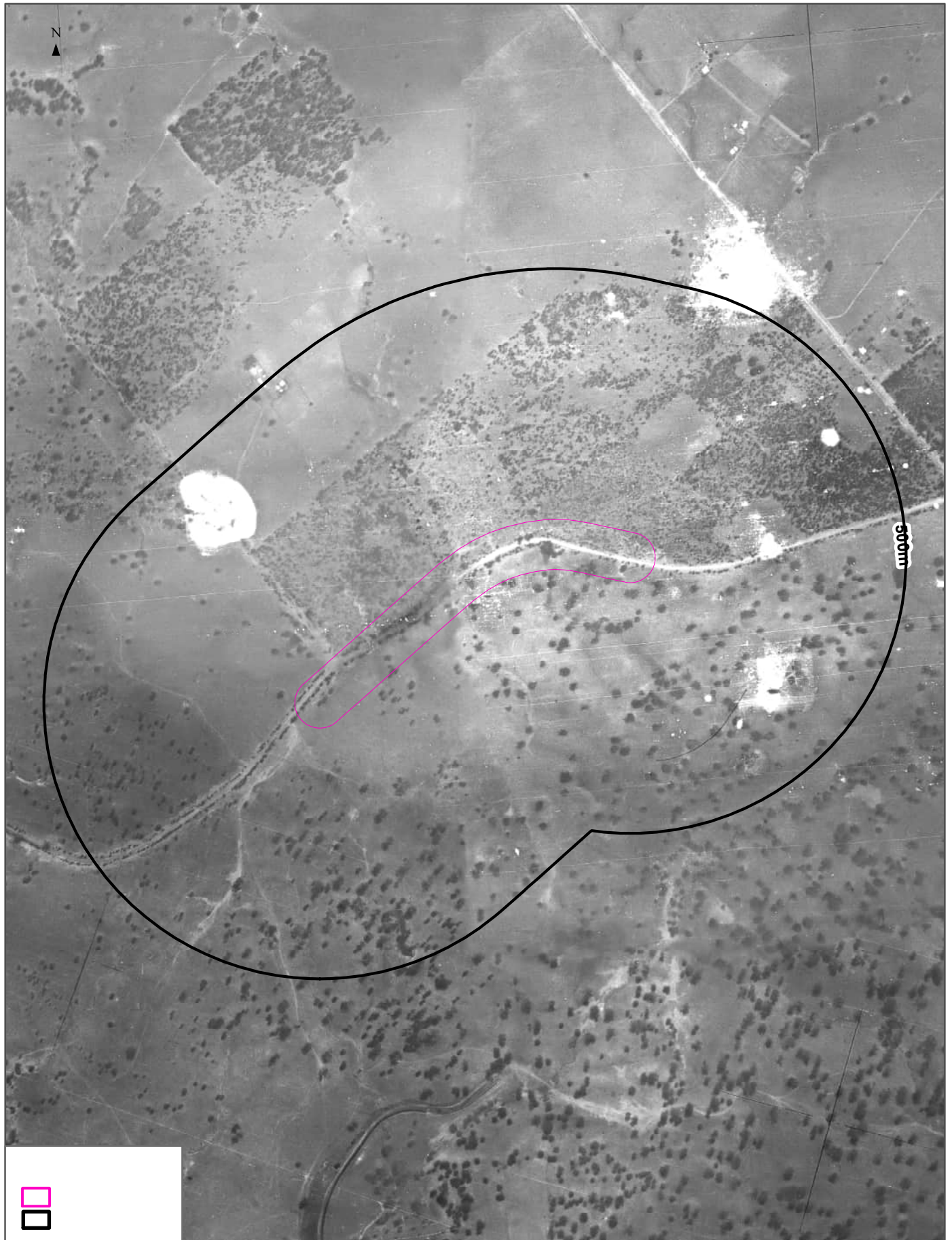
Data Source Aerial Imagery: ©2022 Geoscience Australia

Coordinate System:
GDA 1994 MGA Zone 56

Date: 28 January 2022

Aerial Imagery 1930

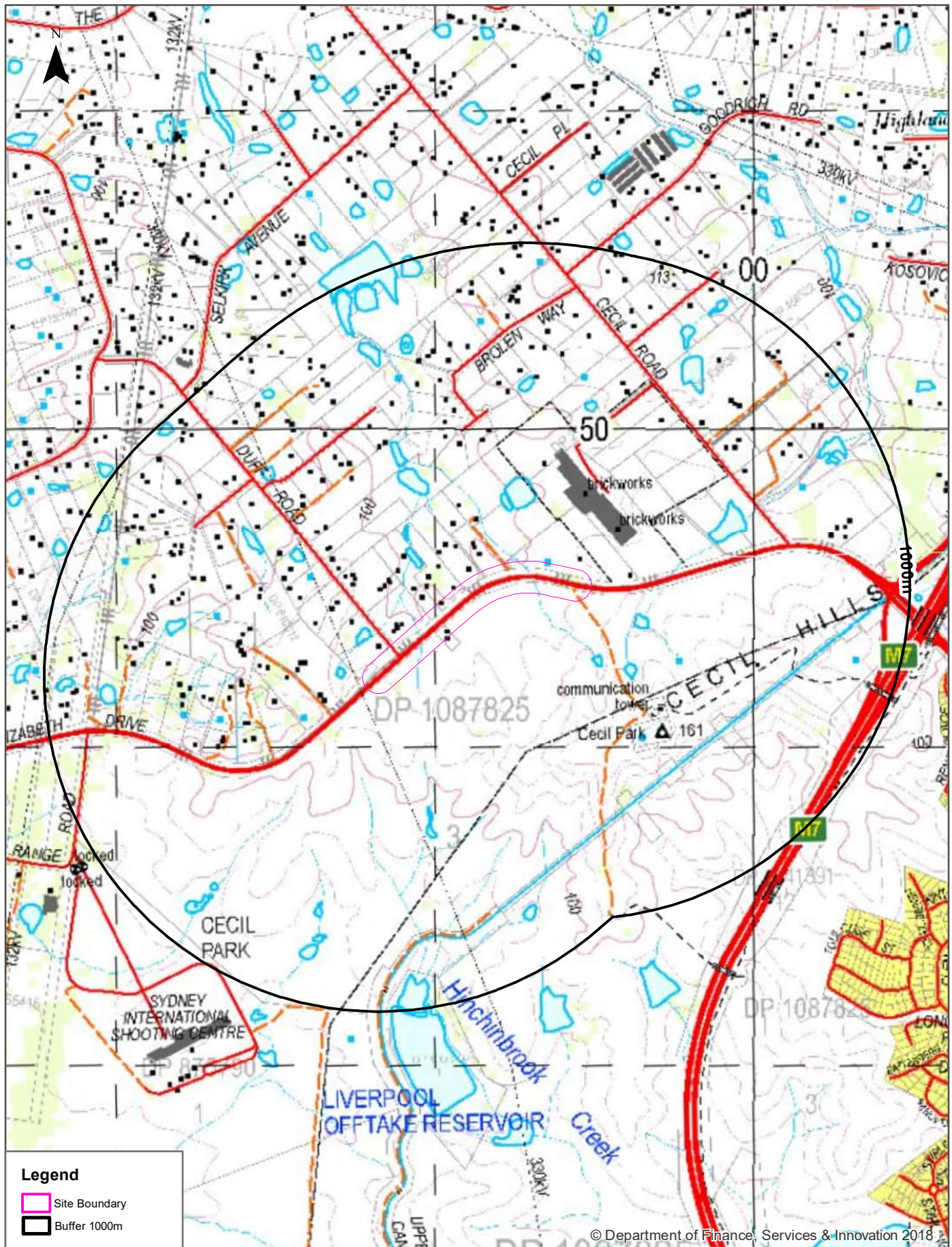
Elizabeth Drive Extension, Cecil Park, NSW 2178



<p>Scale:</p> <p>0 120 240 360 480 Meters</p>	<p>Data Sources: Aerial Imagery: © Geoscience Australia</p>	<p>Coordinate System: GDA 1994 MGA Zone 56</p>	<p>Date: 31 January 2022</p>
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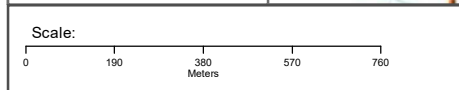
Topographic Map 2015

Elizabeth Drive Extension, Cecil Park, NSW 2178



Legend

- Site Boundary
- Buffer 1000m



Data Sources: Topographic Map Data
© NSW Land and Property Information

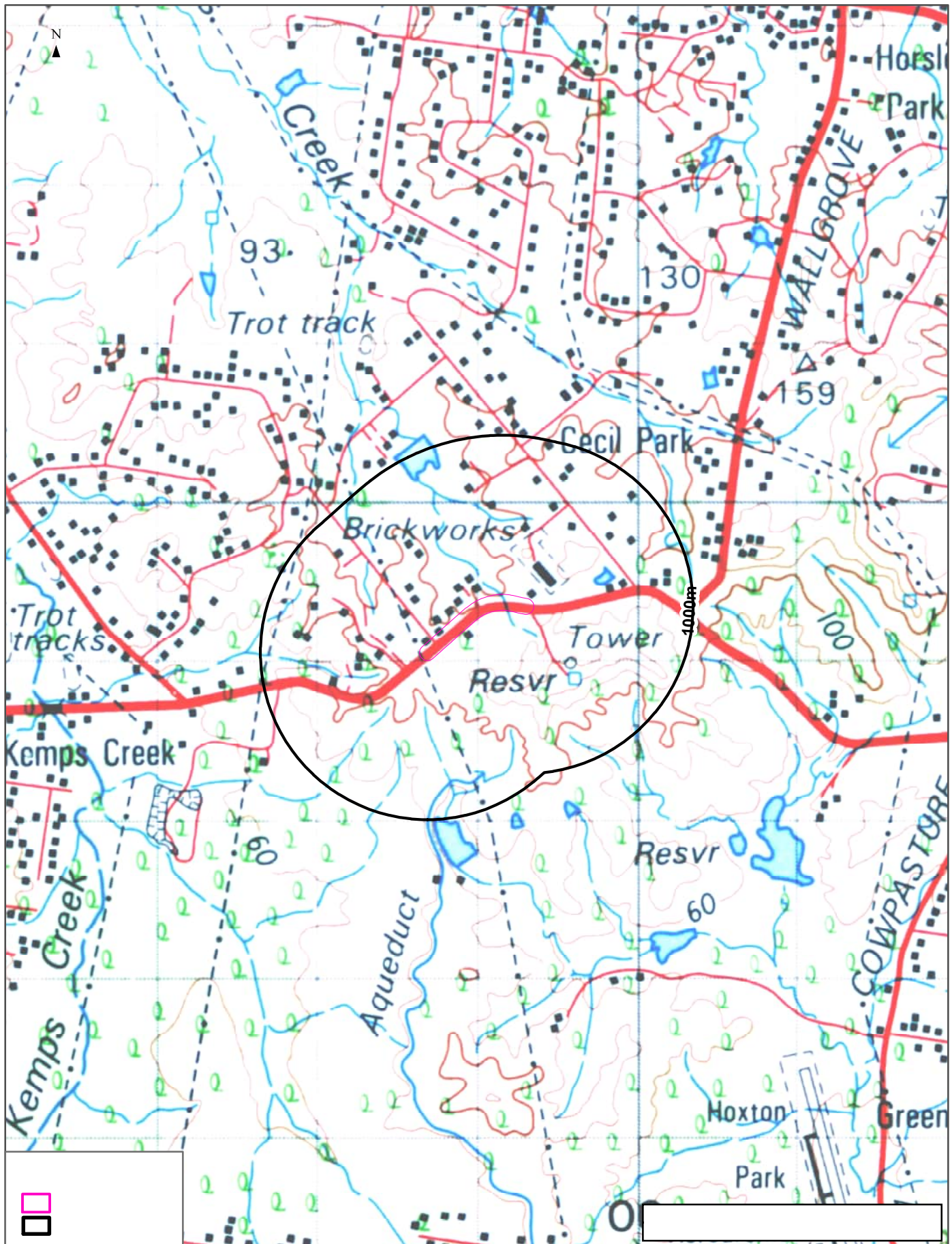
Coordinate System:
GDA 1994 MGA Zone 56

Date: 31 January 2022

© Department of Finance, Services & Innovation 2018

Historical Map 1975

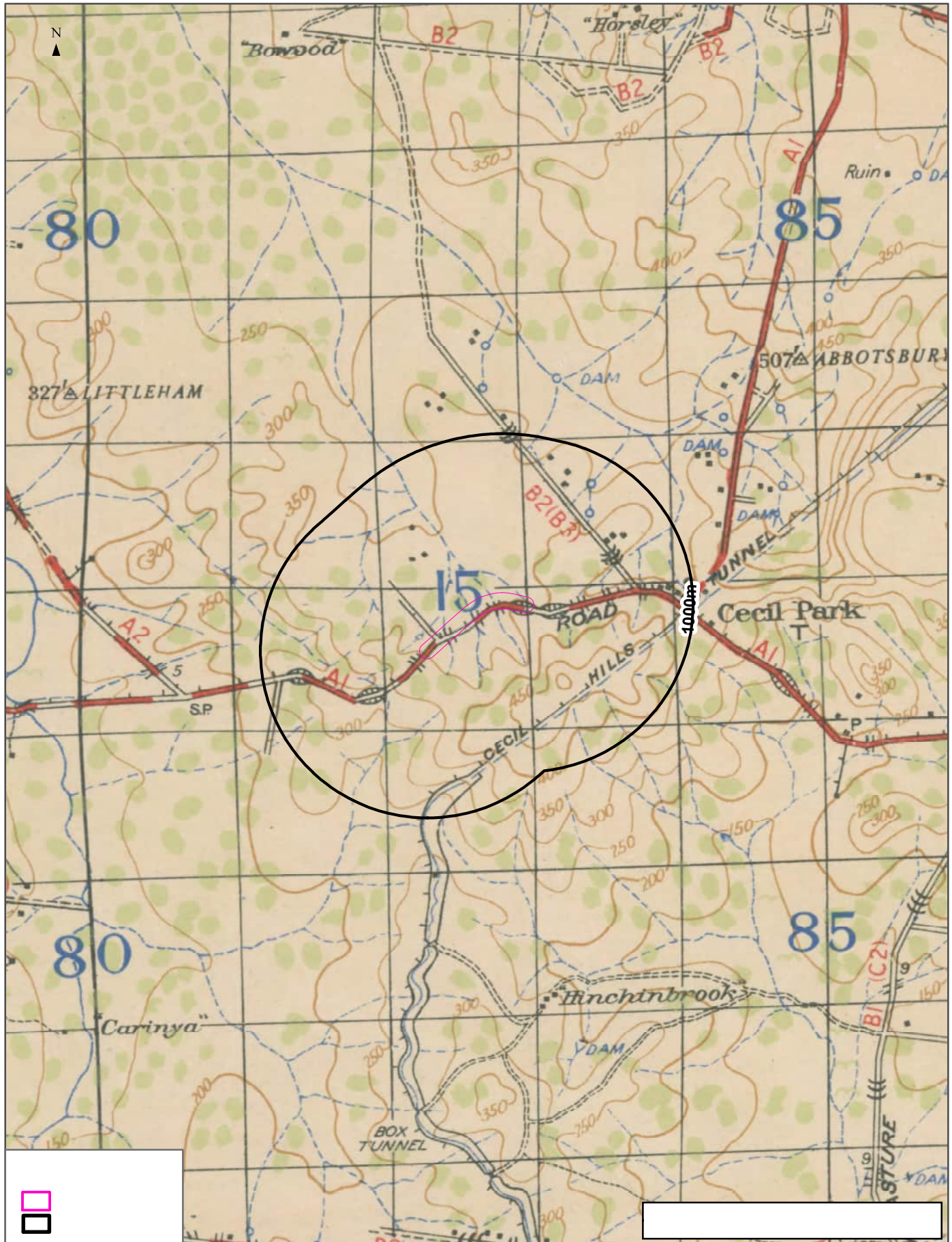
Elizabeth Drive Extension, Cecil Park, NSW 2178



<p>Scale:</p> <p>0 380 760 1,140 1,520 Meters</p>	<p>Data Sources: NATMAP 1:100,000 Topographic Maps Geoscience Australia</p>	<p>Coordinate System: GDA 1994 MGA Zone 56</p>	<p>Date: 31 January 2022</p>
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Historical Map c.1942

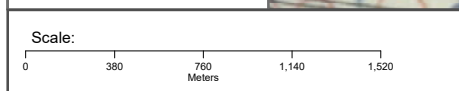
Elizabeth Drive Extension, Cecil Park, NSW 2178



<p>Scale:</p>	<p>Data Sources: Australia 1:63360 Produced by Australian Section Imperial General Staff</p>	<p>Coordinate System: GDA 1994 MGA Zone 56</p>	<p>Date: 31 January 2022</p>
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Historical Map c.1929

Elizabeth Drive Extension, Cecil Park, NSW 2178



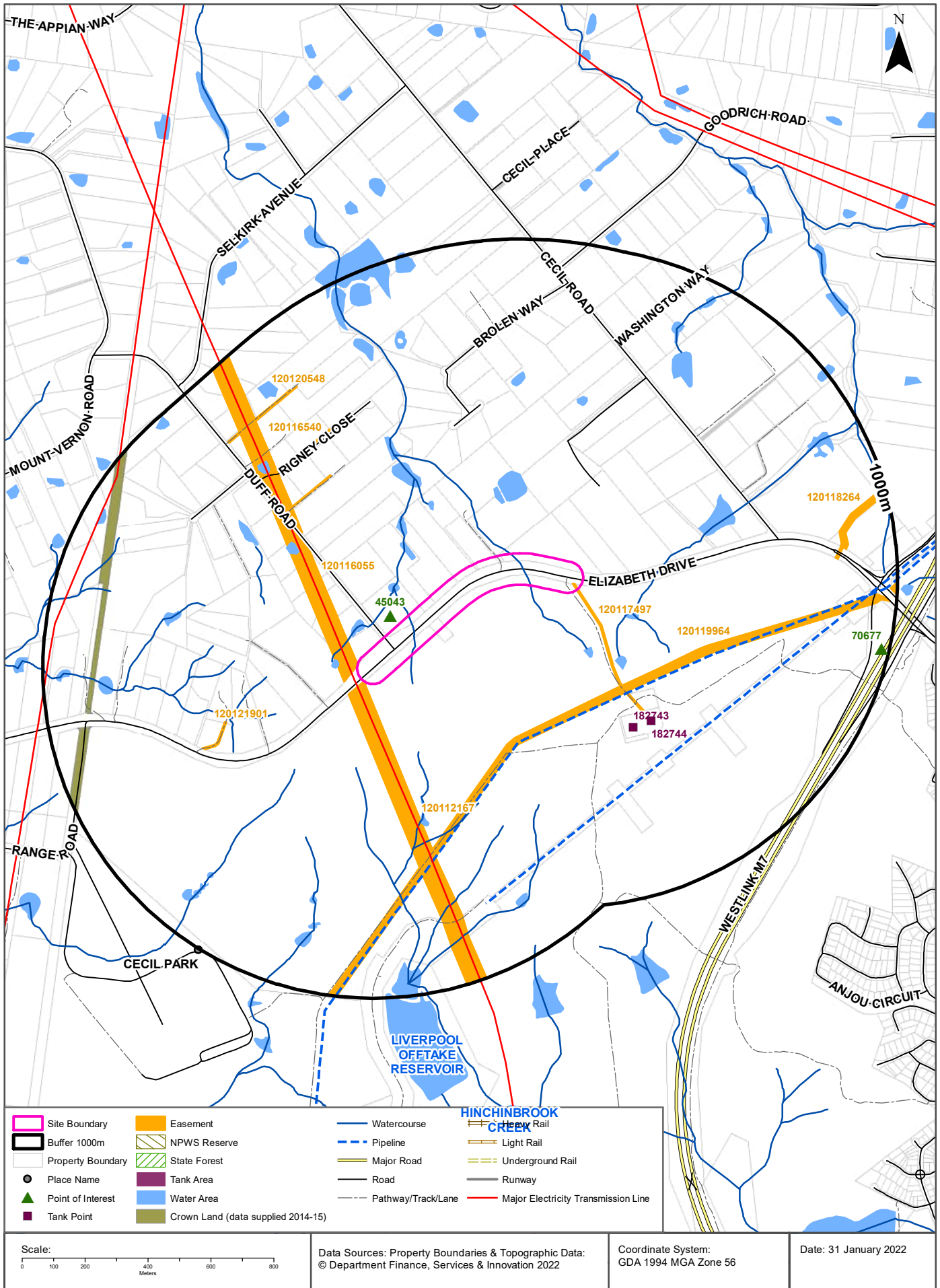
Data Sources: Australia 1:63360
Produced by Australian Section Imperial General Staff

Coordinate System:
GDA 1994 MGA Zone 56

Date: 31 January 2022

Topographic Features

Elizabeth Drive Extension, Cecil Park, NSW 2178



Topographic Features

Elizabeth Drive Extension, Cecil Park, NSW 2178

Points of Interest

What Points of Interest exist within the dataset buffer?

Map Id	Feature Type	Label	Distance	Direction
45043	Combined Primary-Secondary School	IRFAN COLLEGE	40m	West
70677	Roadside Emergency Telephone	METS23N1	975m	East

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

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Topographic Features

Elizabeth Drive Extension, Cecil Park, NSW 2178

Tanks (Areas)

What are the Tank Areas located within the dataset buffer?

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

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

Tanks (Points)

What are the Tank Points located within the dataset buffer?

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

Map Id	Tank Type	Status	Name	Feature Currency	Distance	Direction
182743	Water	Operational		22/07/2018	472m	South East
182744	Water	Operational		22/07/2018	480m	South East

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
120117497	Primary	Undefined		0m	On-site
120116055	Primary	Undefined		0m	North West
120112167	Primary	Undefined		1m	South
120119964	Primary	Undefined		336m	South East
120121901	Primary	Undefined		447m	South West
120116540	Primary	Undefined		496m	North West
120120548	Primary	Undefined		782m	North West
120118264	Primary	Undefined		805m	East

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

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Topographic Features

Elizabeth Drive Extension, Cecil Park, NSW 2178

State Forest

What State Forest exist within the dataset buffer?

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

State Forest Data Source: © NSW Department of Finance, Services & Innovation (2018)
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National Parks and Wildlife Service Reserves

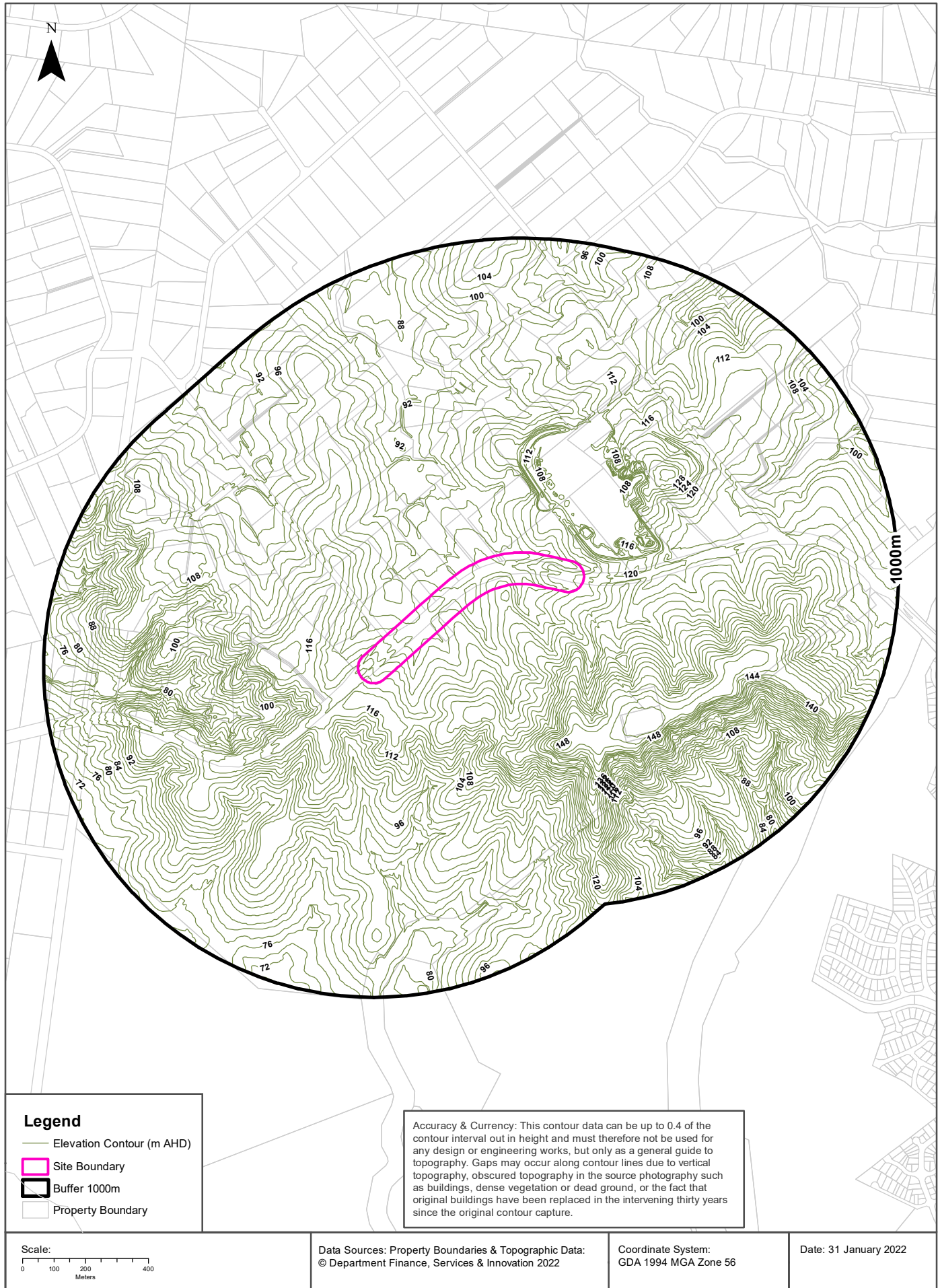
What NPWS Reserves exist within the dataset buffer?

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

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

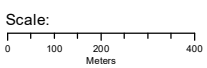
Elizabeth Drive Extension, Cecil Park, NSW 2178



Legend

- Elevation Contour (m AHD)
- Site Boundary
- Buffer 1000m
- Property Boundary

Accuracy & Currency: This contour data can be up to 0.4 of the contour interval out in height and must therefore not be used for any design or engineering works, but only as a general guide to topography. Gaps may occur along contour lines due to vertical topography, obscured topography in the source photography such as buildings, dense vegetation or dead ground, or the fact that original buildings have been replaced in the intervening thirty years since the original contour capture.



Data Sources: Property Boundaries & Topographic Data:
© Department Finance, Services & Innovation 2022

Coordinate System:
GDA 1994 MGA Zone 56

Date: 31 January 2022

Hydrogeology & Groundwater

Elizabeth Drive Extension, Cecil Park, NSW 2178

Hydrogeology

Description of aquifers within the dataset buffer:

Description	Distance	Direction
Porous, extensive aquifers of low to moderate productivity	0m	On-site

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

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

Temporary Water Restriction (Botany Sands Groundwater Source) Order 2018

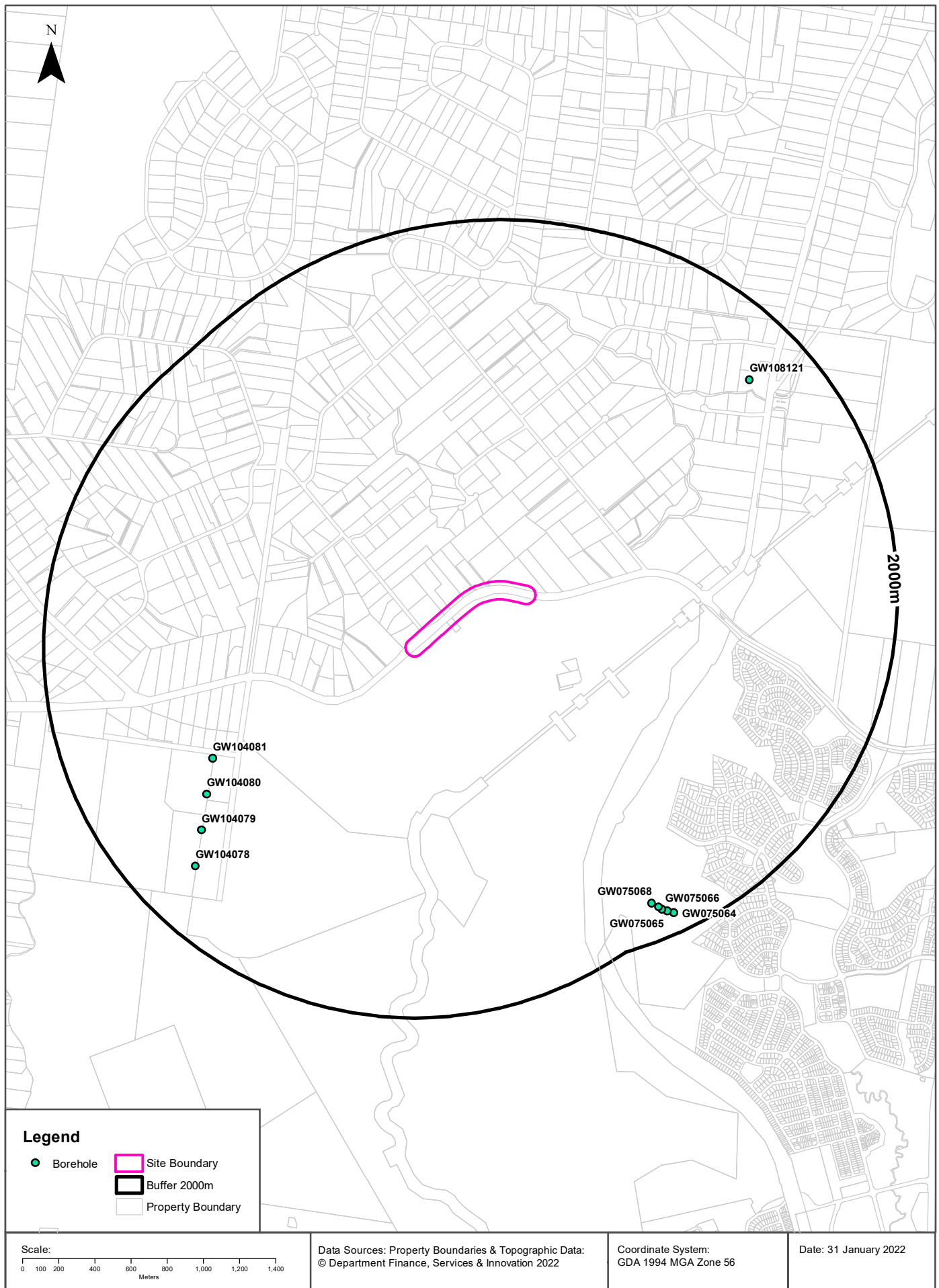
Temporary water restrictions relating to the Botany Sands aquifer within the dataset buffer:

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

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

Groundwater Boreholes

Elizabeth Drive Extension, Cecil Park, NSW 2178



Hydrogeology & Groundwater

Elizabeth Drive Extension, Cecil Park, NSW 2178

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 bgl)	Yield (L/s)	Elev (AHD)	Dist	Dir
GW104 081	10BL160 288	Bore		Monitoring Bore	Monitoring Bore		06/10/2001	30.00	30.00					1222m	South West
GW104 080	10BL160 288	Bore		Monitoring Bore	Monitoring Bore		05/10/2001	30.00	30.00					1356m	South West
GW104 079	10BL160 288	Bore		Monitoring Bore	Monitoring Bore		04/10/2001	30.00	30.00					1500m	South West
GW104 078	10BL160 288	Bore		Monitoring Bore	Monitoring Bore		03/10/2001	30.00	30.00					1661m	South West
GW108 121	10BL163 590	Bore		Test Bore	Test Bore		30/07/2004	246.00	246.00	950	34.00	0.100		1665m	North East
GW075 068		Bore	NSW Office of Water		Monitoring Bore	CECIL HILLS BORE AT SITE 5	26/08/1999	10.00	10.00				70.02	1792m	South East
GW075 067		Bore	NSW Office of Water		Monitoring Bore	CECIL HILLS BORE AT SITE 4	26/08/1999	9.00	9.00				76.49	1826m	South East
GW075 066		Bore	NSW Office of Water		Monitoring Bore	CECIL HILLS BORE AT SITE 3	26/08/1999	6.00	6.00				82.61	1843m	South East
GW075 065		Bore	NSW Office of Water		Monitoring Bore	CECIL HILLS BORE AT SITE 2	26/08/1999	6.00	6.00				87.68	1864m	South East
GW075 064		Bore	NSW Office of Water		Monitoring Bore	CECIL HILLS BORE AT SITE 1	26/08/1999	4.50	4.50				94.72	1889m	South East

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

Elizabeth Drive Extension, Cecil Park, NSW 2178

Driller's Logs

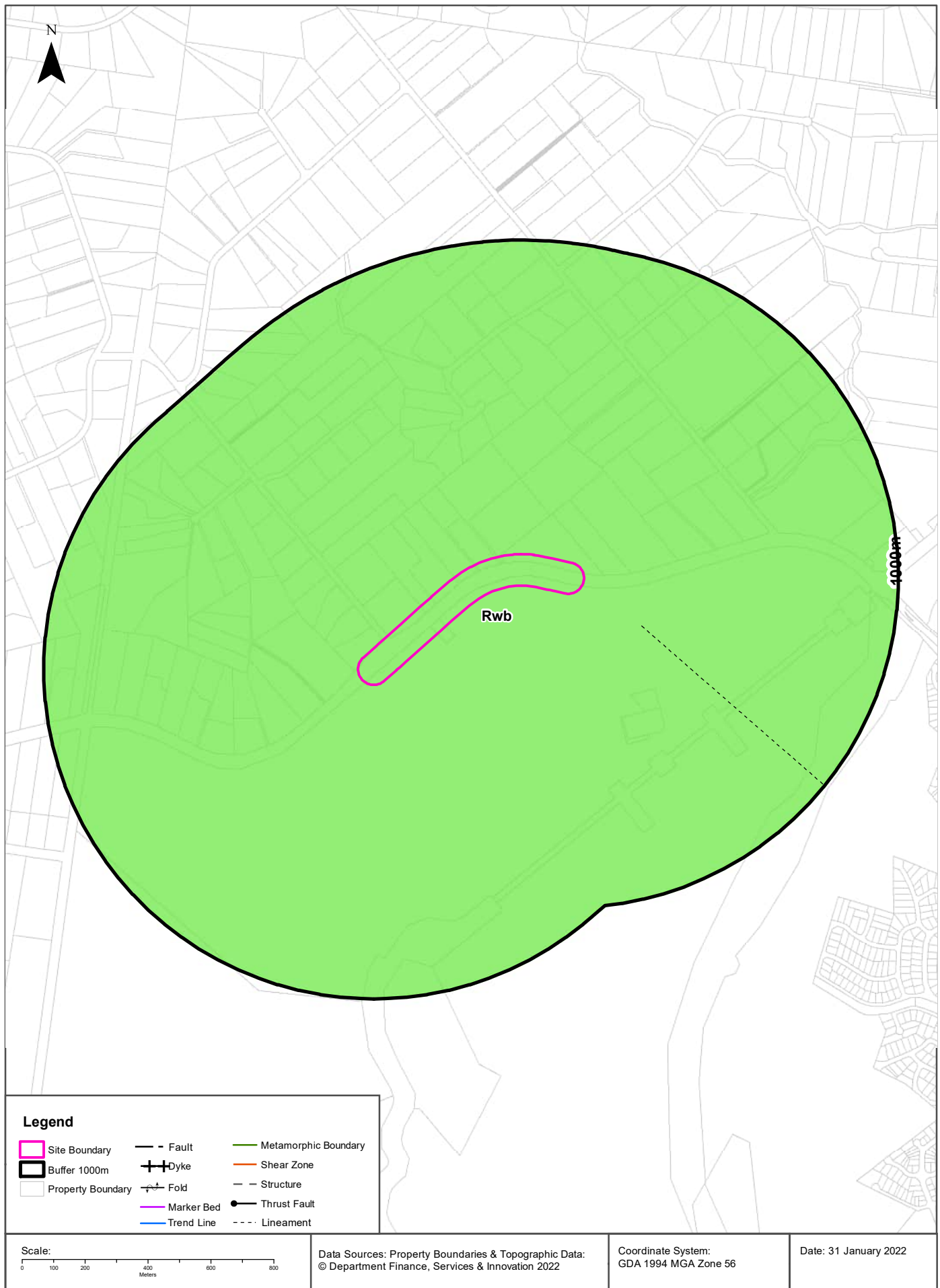
Drill log data relevant to the boreholes within the dataset buffer:

Groundwater No	Drillers Log	Distance	Direction
GW104081	0.00m-4.00m BROWN CLAY 4.00m-5.00m WHEATERED SHALE 5.00m-30.00m SHALE	1222m	South West
GW104080	0.00m-6.00m BROWN CLAY 6.00m-7.00m WHEATERED SHALE 7.00m-30.00m SHALE	1356m	South West
GW104079	0.00m-4.00m BROWN CLAY 4.00m-5.00m WHEATERED SHALE 5.00m-30.00m SHALE	1500m	South West
GW104078	0.00m-4.00m BROWN CLAY 4.00m-5.00m WEATHERED SHALE 5.00m-30.00m SHALE	1661m	South West
GW108121	0.00m-3.00m CLAY BROWN 3.00m-6.00m SHALE BROWN 6.00m-13.00m SHALE GREY 13.00m-13.20m SHALE FRACTURED 13.20m-19.00m SHALE GREY 19.00m-22.00m SHALE SOFT 22.00m-40.50m SHALE HARD 40.50m-42.00m SHALE SOFT 42.00m-52.00m SHALE HARD 52.00m-54.00m SANDSTONE 54.00m-153.50m SHALE HARD 153.50m-199.00m SANDSTONE GREY 199.00m-200.00m SANDSTONE QUARTZ 200.00m-219.00m SANDSTONE GREY 219.00m-219.50m SANDSTONE QUARTZ 219.50m-242.00m SANDSTONE GREY 242.00m-243.00m SANDSTONE DARK GREY 243.00m-246.00m SANDSTONE GREY	1665m	North East
GW075068	0.00m-1.00m TOPSOIL 1.00m-6.00m CLAY 6.00m-10.00m SANDSTONE, WEATHERED	1792m	South East
GW075067	0.00m-1.00m TOPSOIL 1.00m-4.50m CLAY 4.50m-6.50m SANDSTONE, WEATHERED 6.50m-9.00m SANDSTONE (F/C SEMI-HARD)	1826m	South East
GW075066	0.00m-1.00m TOPSOIL 1.00m-5.00m CLAY 5.00m-6.00m SANDSTONE, WEATHERED	1843m	South East
GW075065	0.00m-1.00m TOPSOIL 1.00m-4.50m CLAY 4.50m-6.00m SANDSTONE, WEATHERED	1864m	South East
GW075064	0.00m-2.00m TOPSOIL, CLAY 2.00m-4.50m SANDSTONE, WEATHERED	1889m	South East

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

Elizabeth Drive Extension, Cecil Park, NSW 2178



Geology

Elizabeth Drive Extension, Cecil Park, NSW 2178

Geological Units 1:100,000

What are the Geological Units within the dataset buffer?

Symbol	Description	Unit Name	Group	Sub Group	Age	Dom Lith	Map Sheet	Dist	Dir
Rwb	Shale, carbonaceous claystone, claystone, laminate, fine to medium-grained lithic sandstone, rare coal and tuff	Bringelly Shale	Wianamatta Group (undifferentiated)		Middle Triassic		Penrith	0m	On-site

Geological Structures 1:100,000

What are the Geological Structures within the dataset buffer?

Feature	Name	Description	Map Sheet	Distance	Direction
Lineament			Penrith	229m	East

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

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Naturally Occurring Asbestos Potential

Elizabeth Drive Extension, Cecil Park, NSW 2178

Naturally Occurring Asbestos Potential

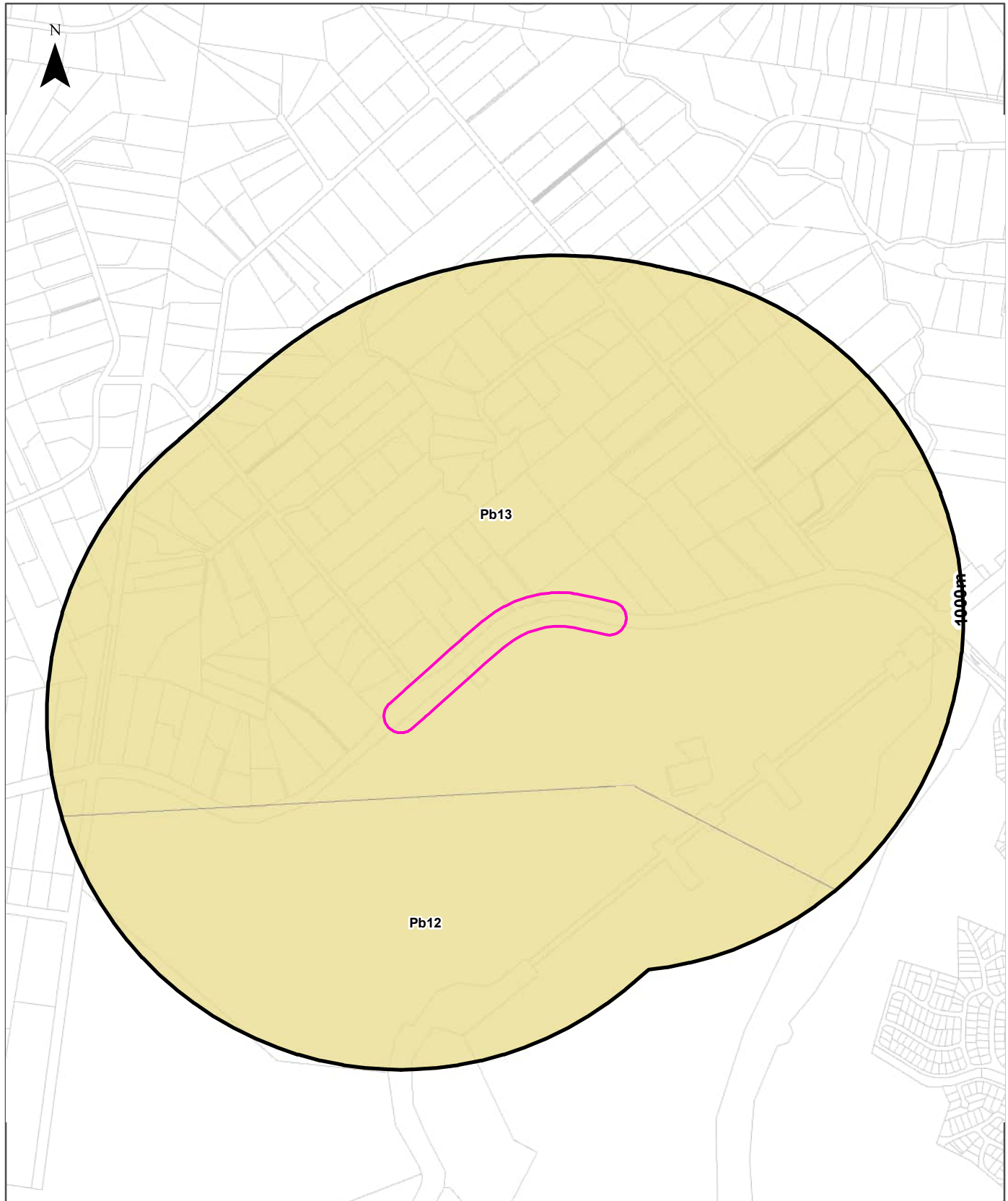
Naturally Occurring Asbestos Potential within the dataset buffer:

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

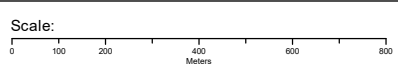
Naturally Occurring Asbestos Potential Data Source: © State of New South Wales through NSW Department of Industry, Resources & Energy

Atlas of Australian Soils

Elizabeth Drive Extension, Cecil Park, NSW 2178



Legend		Australian Soil Classification Orders					
Site Boundary	Anthrosol	Dermosol	Kandosol	Podosol	Tenosol	No Data	
Buffer 1000m	Calcarosol	Ferrosol	Kurosol	Rudosol	Vertosol		
Property Boundary	Chromosol	Hydrosol	Organosol	Sodosol	Lake		



Data Sources: Property Boundaries & Topographic Data:
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Coordinate System:
GDA 1994 MGA Zone 56

Date: 31 January 2022

Soils

Elizabeth Drive Extension, Cecil Park, NSW 2178

Atlas of Australian Soils

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

Map Unit Code	Soil Order	Map Unit Description	Distance	Direction
Pb13	Kurosol	Ridge and valley country of gently undulating ridge tops and steep side slopes often with slumping, also rounded hilly to steep hilly areas and relatively narrow valleys: chief soils are hard acidic red soils (Dr2.21) with hard acidic yellow mottled soils (Dy3.41); in places some ironstone gravels occur in both these soils. Associated are hard neutral and alkaline red soils (Dr2.22 and Dr2.23) in saddles and some mid-slope positions; (Dy3.42 and Dy3.43) soils, usually in depressions; and small areas of undescribed soils in wet soaks and valley areas. Small areas of other soils are likely throughout.	0m	On-site
Pb12	Kurosol	Gently rolling to rounded hilly country with some steep slopes and broad valleys: chief soils are hard acidic red soils (Dr2.21) with hard neutral and acidic yellow mottled soils (Dy3.42 and Dy3.41) on lower slopes and in valleys. Associated are small areas of various soils including (Gn3.54) on some ridges, (Dr3.31) on some slopes; (Dr2.23) in saddles and some mid-slope positions, and some low-lying swampy areas of (Uf6) soils and (Uc1.2) soils with peaty surfaces. Small areas of other soils such as (Db1.2) are likely throughout.	191m	South

Atlas of Australian Soils Data Source: CSIRO

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Soil Landscapes of Central and Eastern NSW

Elizabeth Drive Extension, Cecil Park, NSW 2178



Soils

Elizabeth Drive Extension, Cecil Park, NSW 2178

Soil Landscapes of Central and Eastern NSW

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

Soil Code	Name	Distance	Direction
9030lu	Luddenham	0m	On-site
9030pn	Picton	59m	South East
9030bt	Blacktown	673m	North West

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

Elizabeth Drive Extension, Cecil Park, NSW 2178

Environmental Planning Instrument - Acid Sulfate Soils

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

Soil Class	Description	EPI Name
N/A		

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

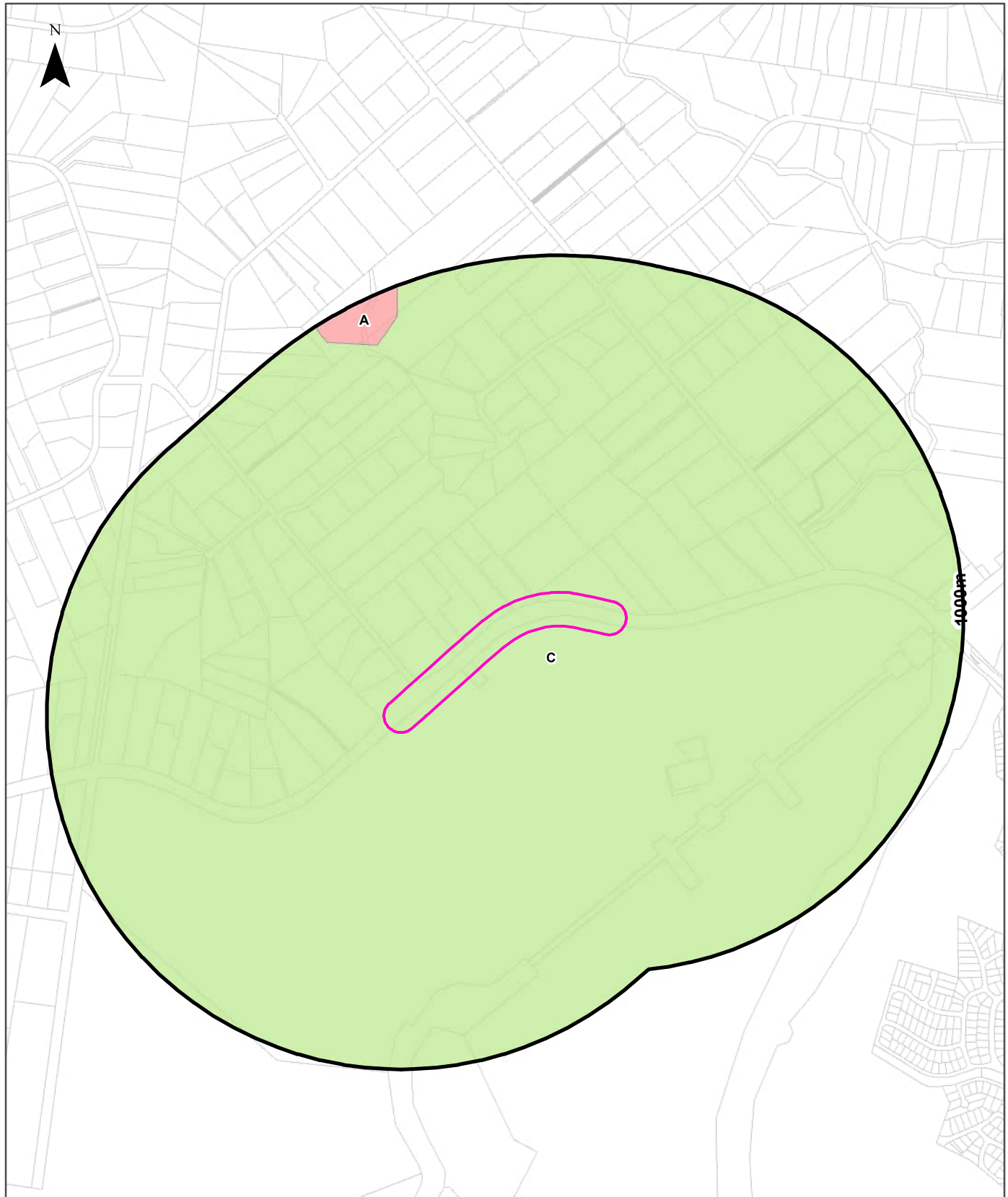
Soil Class	Description	EPI Name	Distance	Direction
N/A				

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Atlas of Australian Acid Sulfate Soils

Elizabeth Drive Extension, Cecil Park, NSW 2178



Legend			
Site Boundary	Probability of occurrence of Acid Sulfate Soils		
Buffer 1000m	A. High (>70%)	C. Extremely Low (1-5%)	No Data
Property Boundary	B. Low (6-70%)	D. No Chance (0%)	
Scale: 0 100 200 400 600 800 Meters	Data Sources: Property Boundaries & Topographic Data: © Department Finance, Services & Innovation 2022		Coordinate System: GDA 1994 MGA Zone 56
			Date: 31 January 2022

Acid Sulfate Soils

Elizabeth Drive Extension, Cecil Park, NSW 2178

Atlas of Australian Acid Sulfate Soils

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

Class	Description	Distance	Direction
C	Extremely low probability of occurrence. 1-5% chance of occurrence with occurrences in small localised areas.	0m	On-site
A	High Probability of occurrence. >70% chance of occurrence.	862m	North West

Atlas of Australian Acid Sulfate Soils Data Source: CSIRO

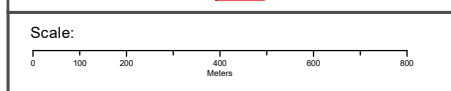
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Dryland Salinity

Elizabeth Drive Extension, Cecil Park, NSW 2178



<p> Site Boundary</p> <p> Buffer 1000m</p> <p> Property Boundary</p>	<p>Dryland Salinity - National Assessment</p> <p> Delineated risk area but no high hazard or risk rating for either 2000, 2020, 2050</p> <p> High hazard or risk in 2050 only</p> <p> High hazard or risk defined for 2050, but no assessment made for 2000 or 2020</p> <p> High hazard or risk in 2020 and 2050</p> <p> High hazard or risk in 2000 and 2050. 2020 not defined as high hazard</p> <p> High hazard or risk defined for all years: 2000, 2020, 2050</p>	<p>Salinity Potential of Western Sydney</p> <p> Area of Known Salinity</p> <p> Area of High Salinity Potential</p> <p> Area of Moderate Salinity Potential</p> <p> Area of Very Low Salinity Potential</p> <p> Area of Water</p>
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Data Sources: Property Boundaries & Topographic Data:
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Coordinate System:
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Date: 31 January 2022

Dryland Salinity

Elizabeth Drive Extension, Cecil Park, NSW 2178

Dryland Salinity - National Assessment

Is there Dryland Salinity - National Assessment data onsite?

Yes

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

Yes

What Dryland Salinity assessments are given?

Assessment 2000	Assessment 2020	Assessment 2050	Distance	Direction
High hazard or risk	High hazard or risk	High hazard or risk	0m	On-site
Delineated risk area but no high hazard or risk rating	Delineated risk area but no high hazard or risk rating	Delineated risk area but no high hazard or risk rating	290m	North West

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
274	MODERATE	Area of Moderate Salinity Potential	0m	On-site
321	HIGH	Area of High Salinity Potential	0m	On-site
208	HIGH	Area of High Salinity Potential	737m	South
411	HIGH	Area of High Salinity Potential	784m	North East
384	HIGH	Area of High Salinity Potential	880m	South West
195	SALT	Area of Known Salinity	996m	South West

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

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Mining

Elizabeth Drive Extension, Cecil Park, NSW 2178

Mining Subsidence Districts

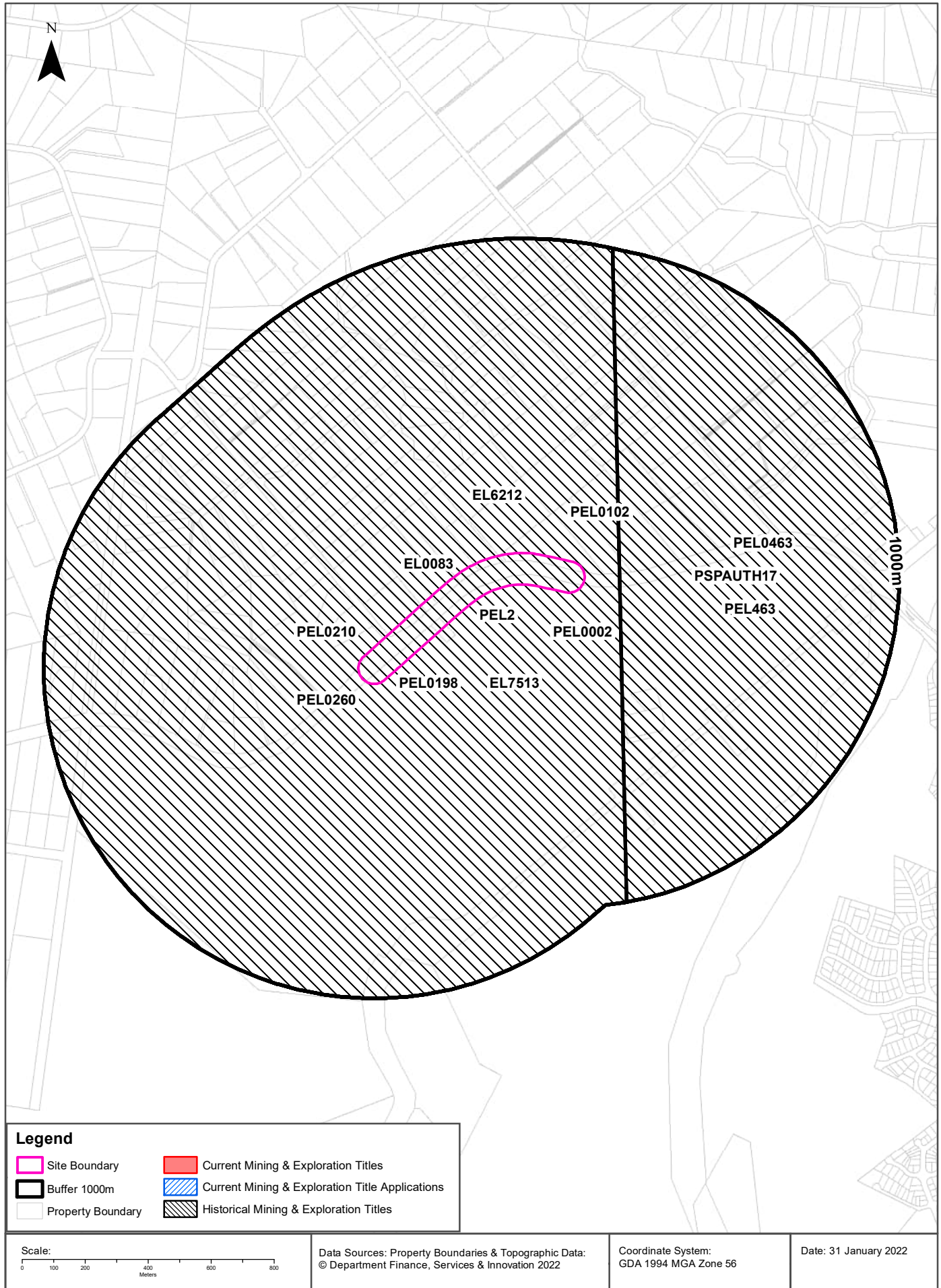
Mining Subsidence Districts within the dataset buffer:

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

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

Elizabeth Drive Extension, Cecil Park, NSW 2178



Mining

Elizabeth Drive Extension, Cecil Park, NSW 2178

Current Mining & Exploration Titles

Current Mining & Exploration Titles within the dataset buffer:

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

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

Current Mining & Exploration Title Applications

Current Mining & Exploration Title Applications within the dataset buffer:

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

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

Mining

Elizabeth Drive Extension, Cecil Park, NSW 2178

Historical Mining & Exploration Titles

Historical Mining & Exploration Titles within the dataset buffer:

Title Ref	Holder	Start Date	End Date	Resource	Minerals	Dist	Dir
EL7513	GRADIENT ENERGY LIMITED	7 Apr 2010	15 Apr 2011	MINERALS	Geothermal	0m	On-site
PEL0260	NORTH BULLI COLLIERIES PTY LTD, AGL PETROLEUM OPERATIONS PTY LTD, THE AUSTRALIAN GAS LIGHT CO.	9/09/1981	8/03/1993	PETROLEUM	Petroleum	0m	On-site
PEL0198	JOHN STREVENS (TERRIGAL) NL			PETROLEUM	Petroleum	0m	On-site
PEL0102	AUSTRALIAN OIL AND GAS CORPORATION LTD			PETROLEUM	Petroleum	0m	On-site
EL0083	CONTINENTAL OIL CO OF AUSTRALIA LIMITED	01 Feb 1967	01 Feb 1968	MINERALS		0m	On-site
PEL2	AGL UPSTREAM INVESTMENTS PTY LIMITED			MINERALS		0m	On-site
PEL0002	AGL UPSTREAM INVESTMENTS PTY LIMITED	29/03/1993	6/07/2015	PETROLEUM	Petroleum	0m	On-site
EL6212	HOT ROCK ENERGY PTY LTD, LONGREACH OIL LIMITED	4 Mar 2004	3 Mar 2013	MINERALS	Geothermal	0m	On-site
PEL0210	THE AUSTRALIAN GAS LIGHT COMPANY (AGL), NORTH BULLI COLLIERIES PTY LTD			PETROLEUM	Petroleum	0m	On-site
PSPAUTH17	MACQUARIE ENERGY PTY LTD	8/03/2007	7/03/2008	PETROLEUM	Petroleum	111m	East
PEL463	DART ENERGY (APOLLO) PTY LTD			MINERALS		111m	East
PEL0463	DART ENERGY (APOLLO) PTY LTD	22/10/2008	6/03/2015	PETROLEUM	Petroleum	111m	East

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

State Environmental Planning Policy

Elizabeth Drive Extension, Cecil Park, NSW 2178

State Significant Precincts

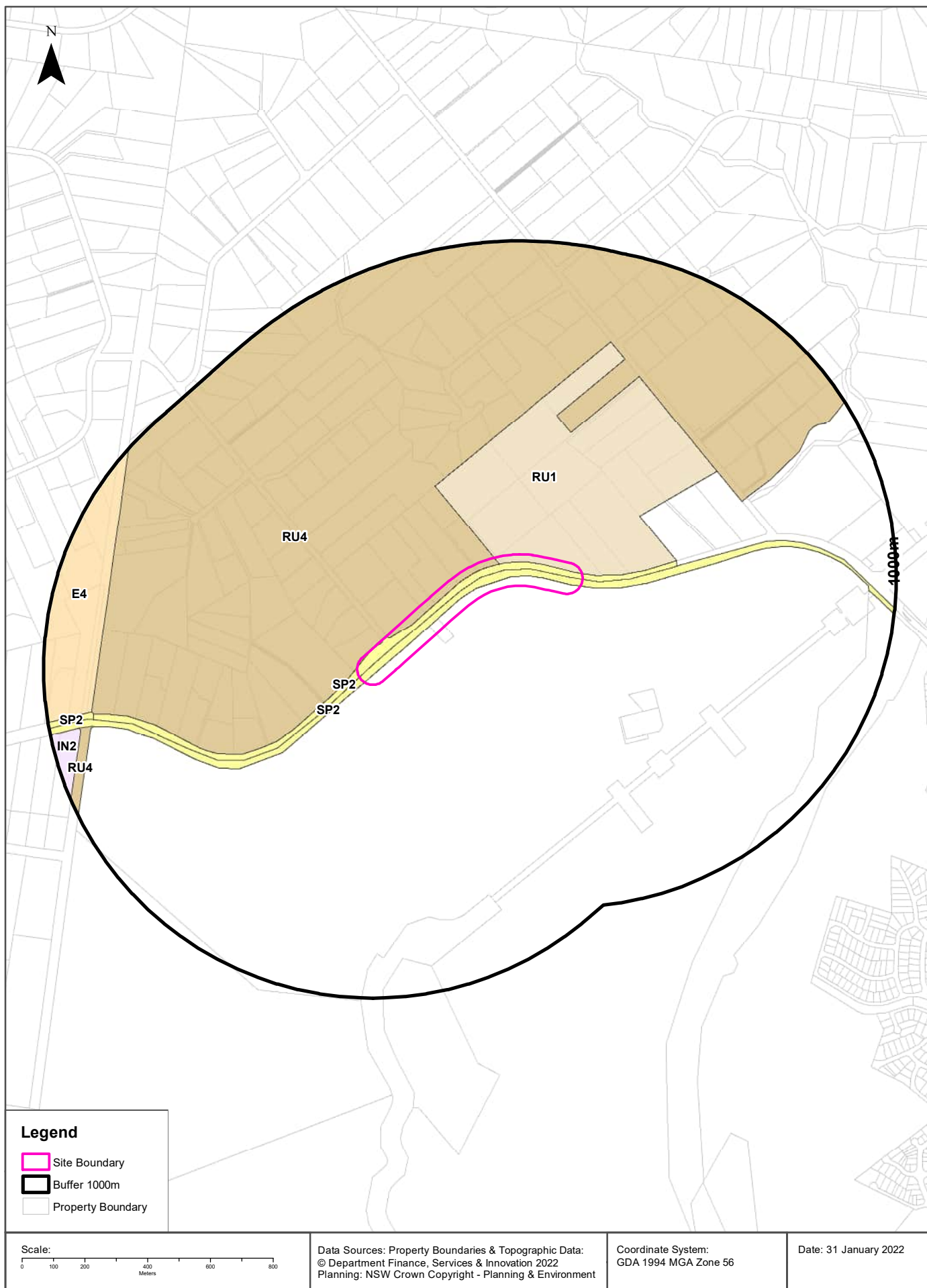
What SEPP State Significant Precincts exist within the dataset buffer?

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

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

Elizabeth Drive Extension, Cecil Park, NSW 2178



Environmental Planning Instrument

Elizabeth Drive Extension, Cecil Park, NSW 2178

Land Zoning

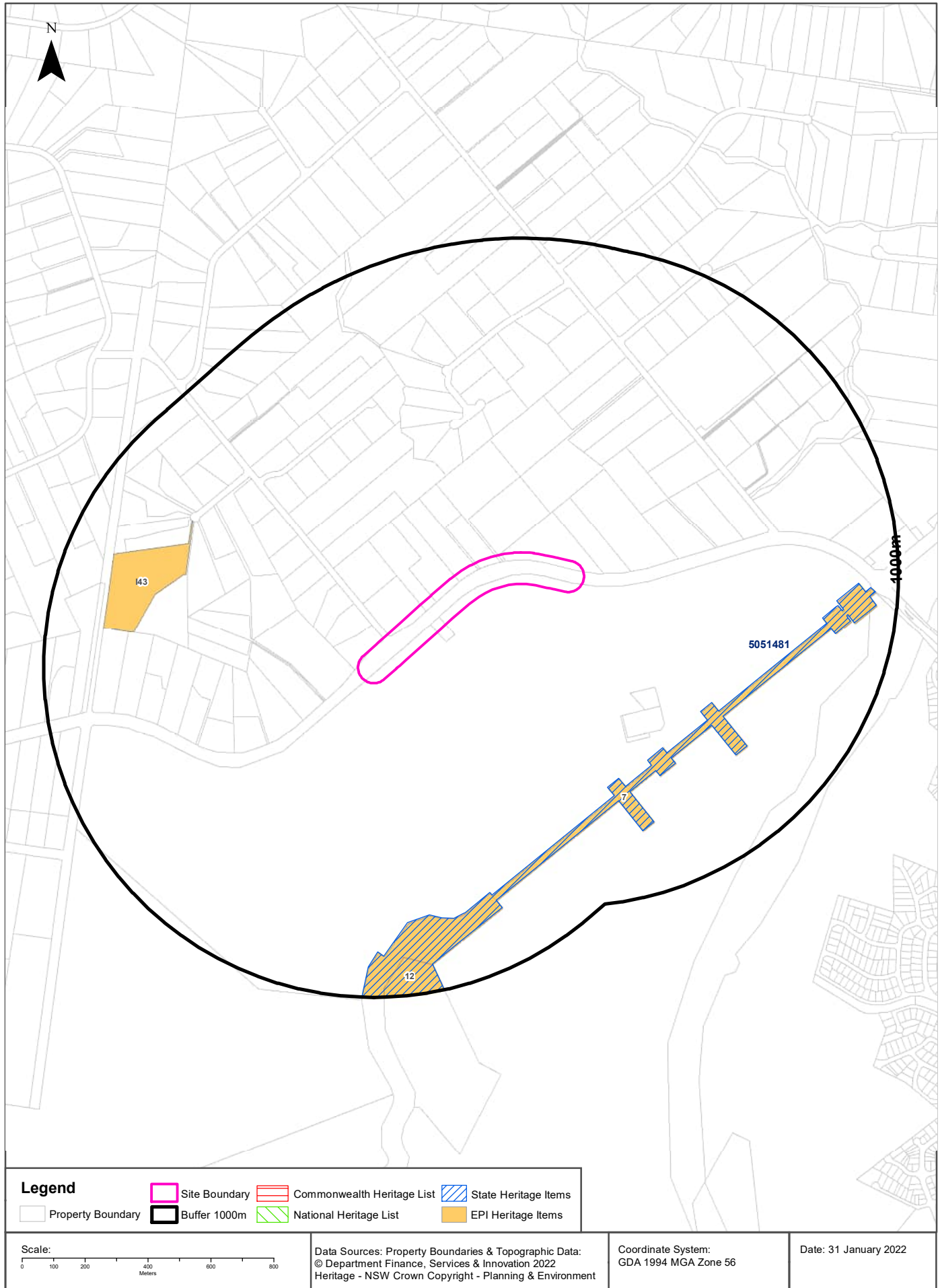
What EPI Land Zones exist within the dataset buffer?

Zone	Description	Purpose	EPI Name	Published Date	Commenced Date	Currency Date	Amendment	Distance	Direction
RU4	Primary Production Small Lots		Fairfield Local Environmental Plan 2013	17/05/2013	31/05/2013	24/09/2021		0m	On-site
RU1	Primary Production		Fairfield Local Environmental Plan 2013	17/05/2013	31/05/2013	24/09/2021		0m	On-site
SP2	Infrastructure	Classified Road	Liverpool Local Environmental Plan 2008	24/09/2021	24/09/2021	24/09/2021	Map Amendment No 2	0m	On-site
SP2	Infrastructure	Classified Road	Fairfield Local Environmental Plan 2013	17/05/2013	31/05/2013	24/09/2021		0m	On-site
E4	Environmental Living		Penrith Local Environmental Plan 2010	11/09/2020	01/10/2020	31/03/2021	State Environmental Planning Policy (Western Sydney Aerotropolis) 2020	820m	West
SP2	Infrastructure	Classified Road	Penrith Local Environmental Plan 2010	11/09/2020	01/10/2020	31/03/2021	State Environmental Planning Policy (Western Sydney Aerotropolis) 2020	853m	West
RU4	Primary Production Small Lots		Liverpool Local Environmental Plan 2008	24/09/2021	24/09/2021	24/09/2021	Map Amendment No 2	860m	South West
IN2	Light Industrial		Liverpool Local Environmental Plan 2008	24/09/2021	24/09/2021	24/09/2021	Map Amendment No 2	902m	West

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

Elizabeth Drive Extension, Cecil Park, NSW 2178



Heritage

Elizabeth Drive Extension, Cecil Park, NSW 2178

Commonwealth Heritage List

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

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

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

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

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

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

Heritage Data Source: Australian Government Department of the Environment and Energy - Heritage Branch
Creative Commons 3.0 © Commonwealth of Australia <https://creativecommons.org/licenses/by/3.0/au/deed.en>

State Heritage Register - Curtilages

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

Map Id	Name	Address	LGA	Listing Date	Listing No	Plan No	Distance	Direction
5051481	Upper Canal System (Pheasants Nest Weir to Prospect Reservoir)	Prospect	LIVERPOOL	18/11/1999	01373	2333	552m	South

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

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

Map Id	Name	Classification	Significance	EPI Name	Published Date	Commenced Date	Currency Date	Distance	Direction
7	Upper canal system	Item - General	State	State Environmental Planning Policy (Western Sydney Parklands) 2009	26/10/2012	26/10/2012	26/10/2012	552m	South
143	Inter-war Spanish mission house	Item - General	Local	Fairfield Local Environmental Plan 2013	17/05/2013	31/05/2013	04/09/2020	619m	West

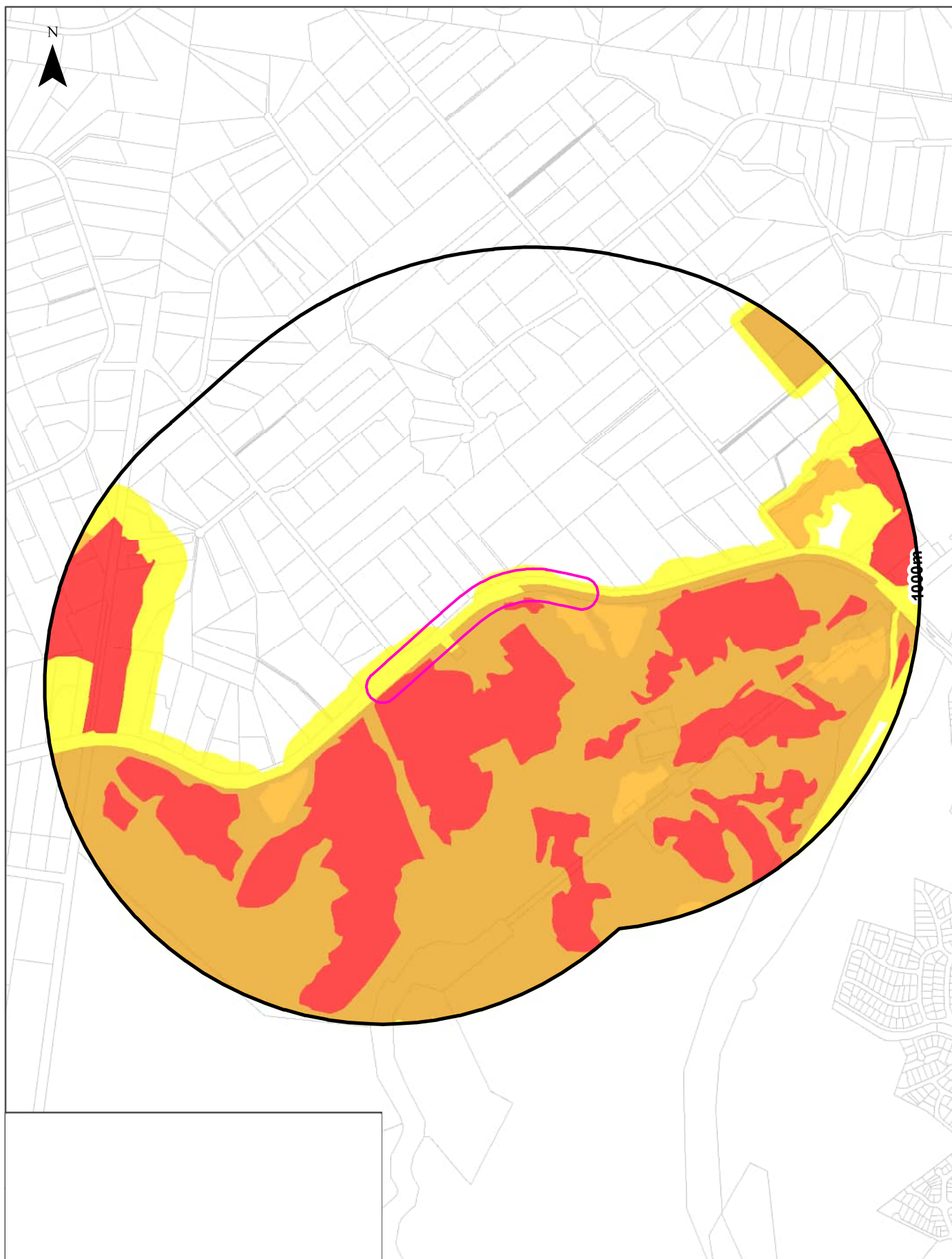
Map Id	Name	Classification	Significance	EPI Name	Published Date	Commenced Date	Currency Date	Distance	Direction
12	Liverpool Offtake Reservoir	Item - General	Local	State Environmental Planning Policy (Western Sydney Parklands) 2009	26/10/2012	26/10/2012	26/10/2012	875m	South

Heritage Data Source: NSW Crown Copyright - Planning & Environment

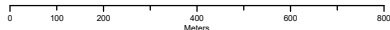
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Natural Hazards - Bush Fire Prone Land

Elizabeth Drive Extension, Cecil Park, NSW 2178



Scale:



Data Sources: Bush Fire Prone Land: © NSW Rural Fire Service 2022. Property Boundaries: © Department Finance, Services & Innovation 2022

Coordinate System: GDA 1994 MGA Zone 56

Date: 31 January 2022

Natural Hazards

Elizabeth Drive Extension, Cecil Park, NSW 2178

Bush Fire Prone Land

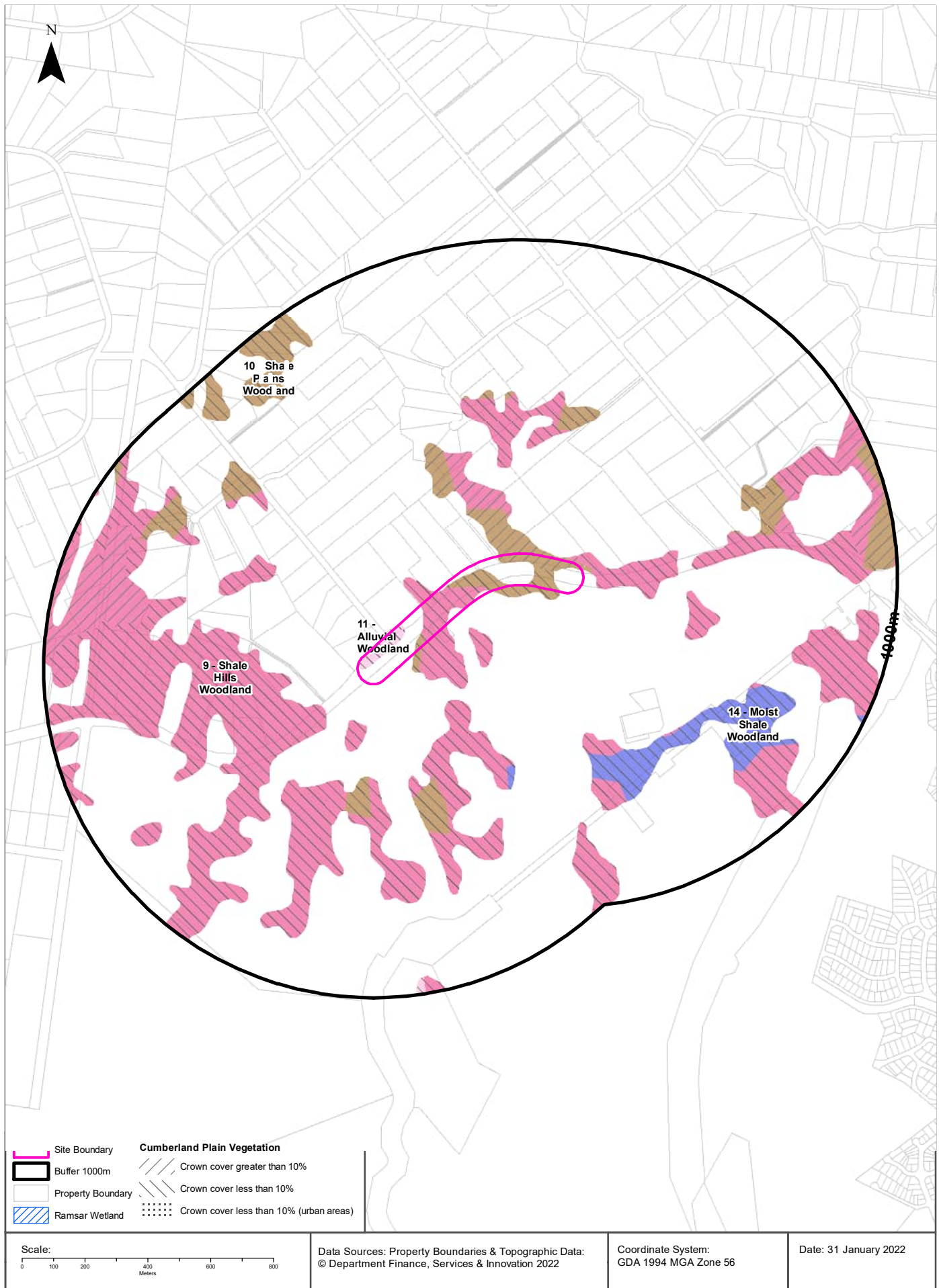
What are the nearest Bush Fire Prone Land Categories that exist within the dataset buffer?

Bush Fire Prone Land Category	Distance	Direction
Vegetation Category 1	0m	On-site
Vegetation Category 3	0m	On-site
Vegetation Category 2	0m	On-site
Vegetation Buffer	0m	On-site

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

Ecological Constraints - Vegetation & Ramsar Wetlands

Elizabeth Drive Extension, Cecil Park, NSW 2178



Ecological Constraints

Elizabeth Drive Extension, Cecil Park, NSW 2178

Remnant Vegetation of the Cumberland Plain

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

Description	Crown Cover	Distance	Direction
9 - Shale Hills Woodland	Crown cover less than 10%	0m	On-site
10 - Shale Plains Woodland	Crown cover less than 10%	0m	On-site
10 - Shale Plains Woodland	Crown cover greater than 10%	0m	On-site
11 - Alluvial Woodland	Crown cover less than 10%	0m	On-site
9 - Shale Hills Woodland	Crown cover greater than 10%	7m	North East
14 - Moist Shale Woodland	Crown cover less than 10%	466m	South

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

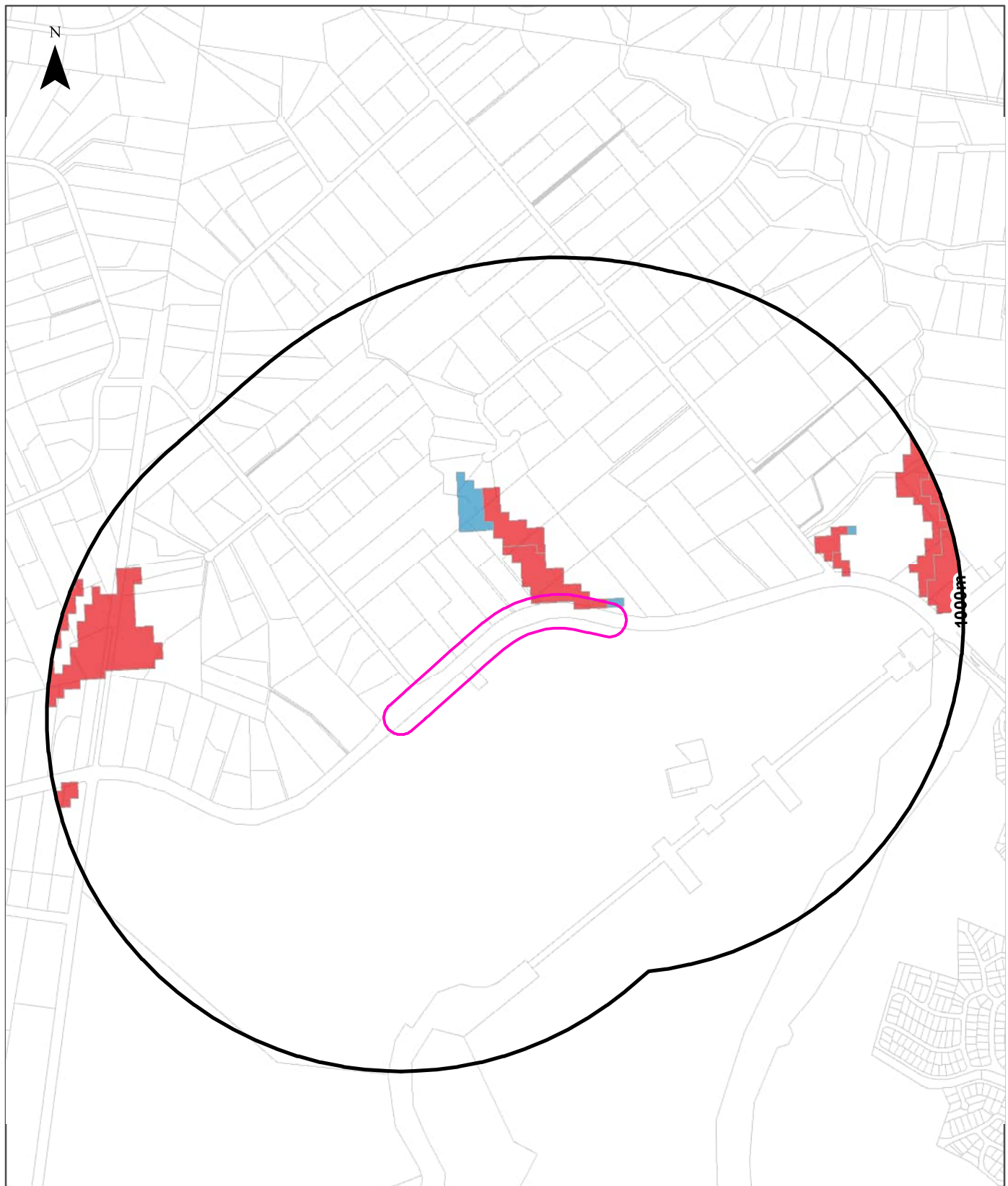
What Ramsar Wetland areas exist within the dataset buffer?

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

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

Ecological Constraints - Groundwater Dependent Ecosystems Atlas

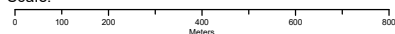
Elizabeth Drive Extension, Cecil Park, NSW 2178



Legend

Site Boundary	High potential GDE - from national assessment	Low potential GDE - from national assessment
Buffer 1000m	High potential GDE - from regional studies	Low potential GDE - from regional studies
Property Boundaries	Moderate potential GDE - from national assessment	Known GDE - from regional studies
	Moderate potential GDE - from regional studies	Unclassified potential GDE - from national assessment
		Unclassified potential GDE - from regional studies

Scale:



Data Sources: Property Boundaries & Topographic Data:
© Department Finance, Services & Innovation 2022

Coordinate System:
GDA 1994 MGA Zone 56

Date: 31 January 2022

Ecological Constraints

Elizabeth Drive Extension, Cecil Park, NSW 2178

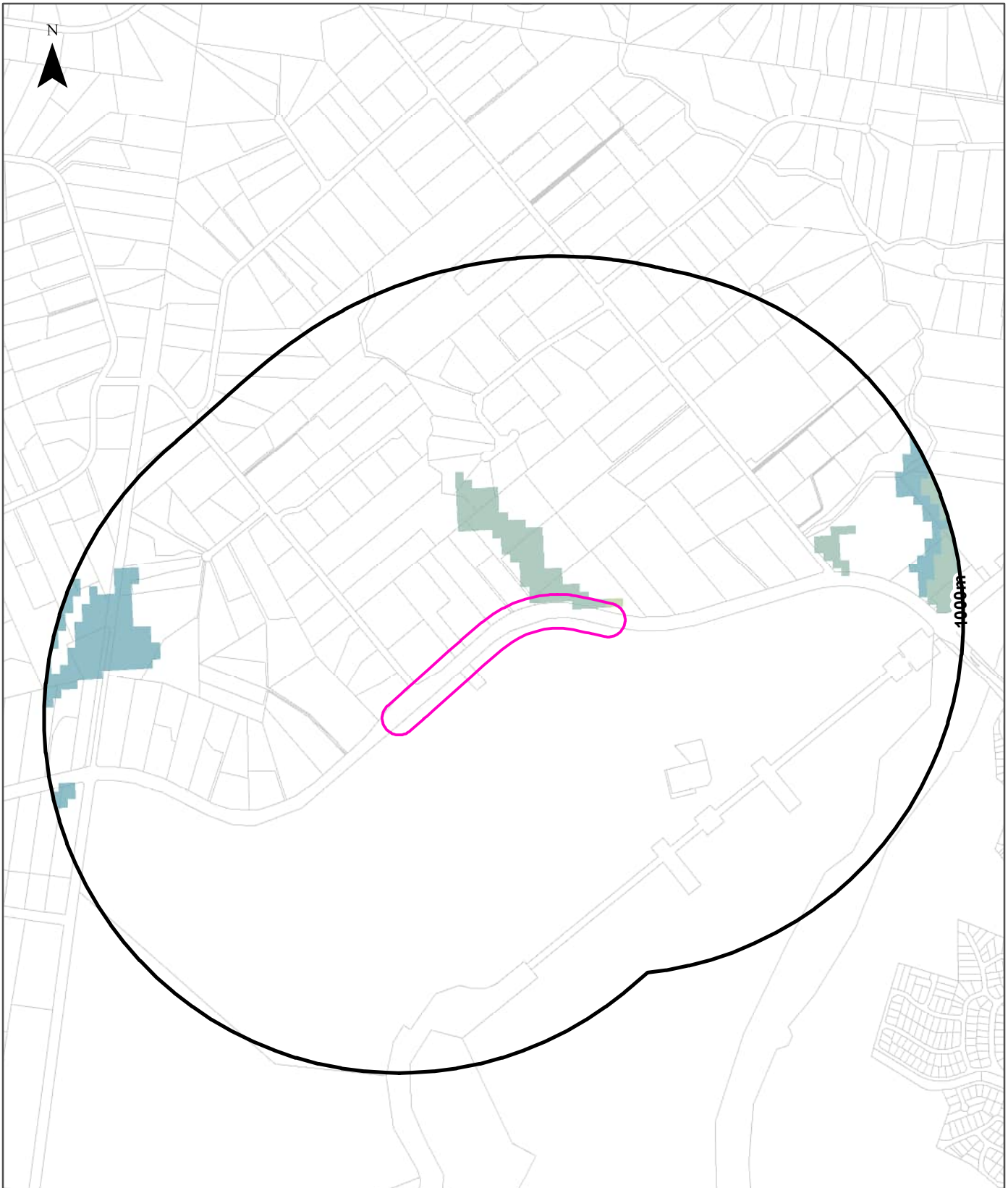
Groundwater Dependent Ecosystems Atlas

Type	GDE Potential	Geomorphology	Ecosystem Type	Aquifer Geology	Distance	Direction
Terrestrial	High potential GDE - from national assessment	Undulating to low hilly country, mainly on shale.	Vegetation	Consolidated sedimentary	0m	On-site
Terrestrial	Low potential GDE - from national assessment	Undulating to low hilly country, mainly on shale.	Vegetation	Consolidated sedimentary	0m	On-site

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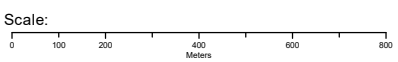
Ecological Constraints - Inflow Dependent Ecosystems Likelihood

Elizabeth Drive Extension, Cecil Park, NSW 2178



Legend

Site Boundary	NULL	4	8
Buffer 1000m	1 (Low)	5	9
Property Boundaries	2	6	10 (High)
	3	7	



Data Sources: Property Boundaries & Topographic Data:
© Department Finance, Services & Innovation 2022

Coordinate System:
GDA 1994 MGA Zone 56

Date: 31 January 2022

Ecological Constraints

Elizabeth Drive Extension, Cecil Park, NSW 2178

Inflow Dependent Ecosystems Likelihood

Type	IDE Likelihood	Geomorphology	Ecosystem Type	Aquifer Geology	Distance	Direction
Terrestrial	8	Undulating to low hilly country, mainly on shale.	Vegetation	Consolidated sedimentary	0m	On-site
Terrestrial	7	Undulating to low hilly country, mainly on shale.	Vegetation	Consolidated sedimentary	0m	On-site
Terrestrial	9	Undulating to low hilly country, mainly on shale.	Vegetation	Consolidated sedimentary	678m	West

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

Elizabeth Drive Extension, Cecil Park, NSW 2178

NSW BioNet Atlas

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

Kingdom	Class	Scientific	Common	NSW Conservation Status	NSW Sensitivity Class	Federal Conservation Status	Migratory Species Agreements
Animalia	Amphibia	Litoria aurea	Green and Golden Bell Frog	Endangered	Not Sensitive	Vulnerable	
Animalia	Aves	Anseranas semipalmata	Maggie Goose	Vulnerable	Not Sensitive	Not Listed	
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	Artamus cyanopterus cyanopterus	Dusky Woodswallow	Vulnerable	Not Sensitive	Not Listed	
Animalia	Aves	Botaurus poiciloptilus	Australasian Bittern	Endangered	Not Sensitive	Endangered	
Animalia	Aves	Burhinus grallarius	Bush Stone-curlew	Endangered	Not Sensitive	Not Listed	
Animalia	Aves	Calidris acuminata	Sharp-tailed Sandpiper	Not Listed	Not Sensitive	Not Listed	ROKAMBA;CAMBA; JAMBA
Animalia	Aves	Callocephalon fimbriatum	Gang-gang Cockatoo	Vulnerable	Category 3	Not Listed	
Animalia	Aves	Calyptorhynchus banksii samueli	Red-tailed Black-Cockatoo (inland subspecies)	Vulnerable	Category 2	Not Listed	
Animalia	Aves	Calyptorhynchus lathamii	Glossy Black-Cockatoo	Vulnerable	Category 2	Not Listed	
Animalia	Aves	Certhionyx variegatus	Pied Honeyeater	Vulnerable	Not Sensitive	Not Listed	
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	Falco subniger	Black Falcon	Vulnerable	Not Sensitive	Not Listed	
Animalia	Aves	Gallinago hardwickii	Latham's Snipe	Not Listed	Not Sensitive	Not Listed	ROKAMBA;JAMBA
Animalia	Aves	Geophaps scripta scripta	Squatter Pigeon (southern subspecies)	Critically Endangered	Not Sensitive	Vulnerable	
Animalia	Aves	Glossopsitta pusilla	Little Lorikeet	Vulnerable	Not Sensitive	Not Listed	
Animalia	Aves	Haliaeetus leucogaster	White-bellied Sea-Eagle	Vulnerable	Not Sensitive	Not Listed	
Animalia	Aves	Hieraaetus morphnoides	Little Eagle	Vulnerable	Not Sensitive	Not Listed	
Animalia	Aves	Hirundapus caudacutus	White-throated Needletail	Not Listed	Not Sensitive	Vulnerable	ROKAMBA;CAMBA; JAMBA
Animalia	Aves	Hirundo rustica	Barn Swallow	Not Listed	Not Sensitive	Not Listed	ROKAMBA;CAMBA; JAMBA
Animalia	Aves	Ixobrychus flavicollis	Black Bittern	Vulnerable	Not Sensitive	Not Listed	
Animalia	Aves	Lathamus discolor	Swift Parrot	Endangered	Category 3	Critically Endangered	
Animalia	Aves	Lophochroa leadbeateri	Major Mitchell's Cockatoo	Vulnerable	Category 2	Not Listed	
Animalia	Aves	Lophoictinia isura	Square-tailed Kite	Vulnerable	Category 3	Not Listed	

Kingdom	Class	Scientific	Common	NSW Conservation Status	NSW Sensitivity Class	Federal Conservation Status	Migratory Species Agreements
Animalia	Aves	<i>Neophema pulchella</i>	Turquoise Parrot	Vulnerable	Category 3	Not Listed	
Animalia	Aves	<i>Ninox connivens</i>	Barking Owl	Vulnerable	Category 3	Not Listed	
Animalia	Aves	<i>Ninox strenua</i>	Powerful Owl	Vulnerable	Category 3	Not Listed	
Animalia	Aves	<i>Onychoprion fuscata</i>	Sooty Tern	Vulnerable	Not Sensitive	Not Listed	
Animalia	Aves	<i>Oxyura australis</i>	Blue-billed Duck	Vulnerable	Not Sensitive	Not Listed	
Animalia	Aves	<i>Petroica phoenicea</i>	Flame Robin	Vulnerable	Not Sensitive	Not Listed	
Animalia	Aves	<i>Pezoporus wallicus wallicus</i>	Eastern Ground Parrot	Vulnerable	Category 3	Not Listed	
Animalia	Aves	<i>Pluvialis squatarola</i>	Grey Plover	Not Listed	Not Sensitive	Not Listed	ROKAMBA;CAMBA; JAMBA
Animalia	Aves	<i>Polytelis swainsonii</i>	Superb Parrot	Vulnerable	Category 3	Vulnerable	
Animalia	Aves	<i>Rostratula australis</i>	Australian Painted Snipe	Endangered	Not Sensitive	Endangered	
Animalia	Aves	<i>Stagonopleura guttata</i>	Diamond Firetail	Vulnerable	Not Sensitive	Not Listed	
Animalia	Aves	<i>Stictonetta naevosa</i>	Freckled Duck	Vulnerable	Not Sensitive	Not Listed	
Animalia	Aves	<i>Todiramphus chloris</i>	Collared Kingfisher	Vulnerable	Not Sensitive	Not Listed	
Animalia	Aves	<i>Tringa nebularia</i>	Common Greenshank	Not Listed	Not Sensitive	Not Listed	ROKAMBA;CAMBA; JAMBA
Animalia	Aves	<i>Tyto novaehollandiae</i>	Masked Owl	Vulnerable	Category 3	Not Listed	
Animalia	Gastropoda	<i>Meridolum corneovirens</i>	Cumberland Plain Land Snail	Endangered	Not Sensitive	Not Listed	
Animalia	Mammalia	<i>Dasyurus maculatus</i>	Spotted-tailed Quoll	Vulnerable	Not Sensitive	Endangered	
Animalia	Mammalia	<i>Falsistrellus tasmaniensis</i>	Eastern False Pipistrelle	Vulnerable	Not Sensitive	Not Listed	
Animalia	Mammalia	<i>Micronomus norfolkensis</i>	Eastern Coastal Free-tailed Bat	Vulnerable	Not Sensitive	Not Listed	
Animalia	Mammalia	<i>Miniopterus australis</i>	Little Bent-winged Bat	Vulnerable	Not Sensitive	Not Listed	
Animalia	Mammalia	<i>Miniopterus orianae oceanensis</i>	Large Bent-winged Bat	Vulnerable	Not Sensitive	Not Listed	
Animalia	Mammalia	<i>Myotis macropus</i>	Southern Myotis	Vulnerable	Not Sensitive	Not Listed	
Animalia	Mammalia	<i>Phascolarctos cinereus</i>	Koala	Vulnerable	Not Sensitive	Vulnerable	
Animalia	Mammalia	<i>Pteropus poliocephalus</i>	Grey-headed Flying-fox	Vulnerable	Not Sensitive	Vulnerable	
Animalia	Mammalia	<i>Saccolaimus flaviventris</i>	Yellow-bellied Sheath-tail-bat	Vulnerable	Not Sensitive	Not Listed	
Animalia	Mammalia	<i>Scoteanax rueppellii</i>	Greater Broad-nosed Bat	Vulnerable	Not Sensitive	Not Listed	
Animalia	Mammalia	<i>Vespadelus troungtoni</i>	Eastern Cave Bat	Vulnerable	Not Sensitive	Not Listed	
Animalia	Reptilia	<i>Caretta caretta</i>	Loggerhead Turtle	Endangered	Not Sensitive	Endangered	
Animalia	Reptilia	<i>Chelonia mydas</i>	Green Turtle	Vulnerable	Not Sensitive	Vulnerable	
Plantae	Flora	<i>Acacia pubescens</i>	Downy Wattle	Vulnerable	Not Sensitive	Vulnerable	
Plantae	Flora	<i>Argyrotegium nitidulum</i>	Shining Cudweed	Vulnerable	Not Sensitive	Vulnerable	
Plantae	Flora	<i>Callistemon linearifolius</i>	Netted Bottle Brush	Vulnerable	Category 3	Not Listed	
Plantae	Flora	<i>Cynanchum elegans</i>	White-flowered Wax Plant	Endangered	Not Sensitive	Endangered	
Plantae	Flora	<i>Dichanthium setosum</i>	Bluegrass	Vulnerable	Not Sensitive	Vulnerable	

Kingdom	Class	Scientific	Common	NSW Conservation Status	NSW Sensitivity Class	Federal Conservation Status	Migratory Species Agreements
Plantae	Flora	<i>Dillwynia tenuifolia</i>		Vulnerable	Not Sensitive	Not Listed	
Plantae	Flora	<i>Dillwynia tenuifolia</i>		Endangered Population, Vulnerable	Not Sensitive	Not Listed	
Plantae	Flora	<i>Diuris aequalis</i>	Buttercup Doubletail	Endangered	Category 2	Vulnerable	
Plantae	Flora	<i>Eucalyptus nicholii</i>	Narrow-leaved Black Peppermint	Vulnerable	Not Sensitive	Vulnerable	
Plantae	Flora	<i>Eucalyptus scoparia</i>	Wallangarra White Gum	Endangered	Not Sensitive	Vulnerable	
Plantae	Flora	<i>Grevillea juniperina</i> subsp. <i>juniperina</i>	Juniper-leaved Grevillea	Vulnerable	Not Sensitive	Not Listed	
Plantae	Flora	<i>Grevillea parviflora</i> subsp. <i>parviflora</i>	Small-flower Grevillea	Vulnerable	Not Sensitive	Vulnerable	
Plantae	Flora	<i>Isotoma fluviatilis</i> subsp. <i>fluviatilis</i>		Not Listed	Not Sensitive	Extinct	
Plantae	Flora	<i>Macadamia integrifolia</i>	Macadamia Nut	Not Listed	Not Sensitive	Vulnerable	
Plantae	Flora	<i>Marsdenia viridiflora</i> subsp. <i>viridiflora</i>	Native Pear	Endangered Population	Not Sensitive	Not Listed	
Plantae	Flora	<i>Persoonia nutans</i>	Nodding Geebung	Endangered	Not Sensitive	Endangered	
Plantae	Flora	<i>Pimelea curviflora</i> var. <i>curviflora</i>		Vulnerable	Not Sensitive	Vulnerable	
Plantae	Flora	<i>Pimelea spicata</i>	Spiked Rice-flower	Endangered	Not Sensitive	Endangered	
Plantae	Flora	<i>Pterostylis nigricans</i>	Dark Greenhood	Vulnerable	Category 2	Not Listed	
Plantae	Flora	<i>Pultenaea parviflora</i>		Endangered	Not Sensitive	Vulnerable	
Plantae	Flora	<i>Pultenaea pedunculata</i>	Matted Bush-pea	Endangered	Not Sensitive	Not Listed	

Data does not include NSW category 1 sensitive species.

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

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 code is given under the field heading "LC" or "LocConf". These codes lookup to the following location confidences:

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

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 12. These Terms are subject to New South Wales law.

Appendix B

Plates

PHOTOGRAPHIC LOG


Client Name: Transport for NSW		Site Location: Elizabeth Drive East	Project No. 60641411
Photo No. 1	Date: 31/05/2022		
Description: Apex Petroleum			

Photo No. 2	Date: 31/05/2022	
Description: United Petroleum.		

PHOTOGRAPHIC LOG


Client Name: Transport for NSW		Site Location: Elizabeth Drive East	Project No. 60641411
Photo No. 3	Date: 31/05/2022	 <p>A photograph of an Ampol service station. The station has a red canopy with the Ampol logo. There are several fuel pumps, a concrete mixer truck, and a white semi-trailer. The sky is blue with some clouds.</p>	
Description: Ampol Service Station			

Photo No. 4	Date: 03/05/2022	 <p>A photograph showing a grassy area next to a road. In the background, there is a 'FOR SALE' sign and a fence. The ground is covered with dry grass and some scattered debris, including what appears to be a waste drum.</p>
Description: Waste drums spotted outside of property next to Ampol Service Station		

Photo No. 5	Date: 31/05/2022
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Description:
Luddenham Auto Repairs - west



Photo No. 6	Date: 31/05/2022
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Description:
Luddenham Auto Repairs - east

