

PRELIMINARY SITE INVESTIGATION

**682 CASTLEREAGH ROAD,
AGNES BANKS NSW 2753**

PREPARED FOR: Shailesh Kotecha

REFERENCE: REP-19-9012-A


DATE: 27th March 2020

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EXECUTIVE SUMMARY

Envirotech Pty. Ltd. was engaged by Mr. Shailesh Kotecha to conduct a Preliminary Site Investigation at 682 Castlereagh Road, Agnes Banks NSW 2753 (hereafter referred to as the 'Site'). The proposed development application is for a proposed new community centre. The objective of the investigation is to assess the potential for site contamination, based on historical and current land use practices. The total area of investigation is approximately 20,257 m². A site inspection was carried out on Tuesday 17th March 2020 by Envirotech consultant Charbel Bahi, which involved a visual assessment of the accessible areas of the site and surrounding areas. Details of the findings are presented within the body of this report, as well as an assessment of significance with regards to the findings of the investigation.

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

- On the 17th March 2020, a site inspection was conducted by Envirotech consultant Charbel Bahi. Field work was carried out in accordance with the methodology described in AS 4482.1 – 2005 and the NEPM (2013);
- At the time of inspection, an existing single storey dilapidated residential dwelling with an attached metal sheds and fenced off swimming pool were present onsite within the south eastern portion of the site. The majority of the site was covered by overgrown grasses with over hanging trees within the south eastern portion of the site. A large dam covered by vegetation was noted within the north western portion of the site. The land sloped towards the northwest towards the dam.
- During the investigation, the entire site was investigated, including the proposed areas of development which include the proposed residential pending development application.
- Potential areas of concern, include the following areas:
 - There is a risk that contaminants associated with the underlying soils beneath existing the existing residential property and associate building structures could be comprised of unknown hazardous fill material within the proposed south eastern (PAEC1) portion of the site.
 - There is a risk that existing building structures within the site could be comprised of hazardous building materials (PAEC1).

Subject to outcome of the above items, and regarding the proposed residential proposed development within the southern portion of the site, it is recommended that a **Targeted Detailed Site Investigation** be undertaken within underlying soils of the existing building structures where potential backing filling occurred during past historical activities, only if those existing building structures are to be demolished and removed from site for the proposed new residential development. If contamination is identified during the site assessment, then a **Remedial Action Plan (RAP)** is to be prepared detailing appropriate remediation and validation procedures to clean up the site.

A **HAZMAT Survey** is to be also undertaken within the existing building structures if those building structures are to be refurbished, reused or demolished as part of the new proposed development.

It is therefore considered that the site can be made suitable for its proposed development and land use pending a further **Targeted Detailed Site Investigation and HAZMAT Survey** within the site.

TABLE OF CONTENTS

EXECUTIVE SUMMARY	3
1. INTRODUCTION	6
1.1 Background	6
1.2 Objectives	6
1.3 Scope of Works	6
1.4 Legislative Requirements	7
1.5 Context of report	7
2. SITE IDENTIFICATION	8
3. AREA OF INVESTIGATION	9
4. SITE DESCRIPTION	10
4.1 Site Inspection.....	10
4.2 Surrounding Land Use.....	10
4.3 Topography	10
4.4 Geology and Soils	10
4.5 Surface Water Hydrology	10
4.6 Hydrogeology	11
4.7 Acid Sulfate Soils	11
4.8 Dryland Salinity Potential in Western Sydney.....	11
5. SITE RECORDS	12
5.1 List of NSW Contaminated Sites - Notified to the EPA.....	12
5.2 Contaminated Land Records of Notice	12
5.3 Former Gasworks	12
5.4 National Waste Management Site Database	12
5.5 National Liquid Fuel Facilities.....	12
5.6 Defence PFAS Investigation and Management Program	12
5.7 Air Services Australia National PFAS Management Program	12
5.8 Defence 3 Year Regional Contamination Investigation Program	12
5.9 EPA Other Site with Contamination Issues	12
5.10 Licensed Activities under the POEO Act 1997	13
5.11 Delicensed Activities still regulated by EPA	13
5.12 Former Licensed Activities under the POEO Act 1997, now revoked or surrendered	13
5.13 Business Directory Records 1950 – 1991 Road or Area Match.....	14
5.13 Dry Cleaners, Motor Garages & Service Stations 1948 – 1993 Road or Area Matches	14
6. SITE HISTORY	15
6.1 Aerial Photographs.....	15
6.2 Information Gaps	16
7. CONCEPTUAL SITE MODEL (CSM)	17
7.1 Potential Areas of Concern	17
8. RESULTS	19
8.1 Site Observations	19
8.2 Potential Risks to Onsite Receptors	19
8.3 Receptors and Pathways.....	19
8.4 Hazardous Building Materials	20
9 CONCLUSIONS & RECOMMENDATIONS	21

10	LIMITATIONS STATEMENT	22
11	REFERENCES AND LEGISLATION.....	23
	APPENDIX A: PROPOSED DEVELOPMENT PLANS	24
	APPENDIX B: SITE PHOTOS	25
	APPENDIX C: LOTSEARCH	30

1. INTRODUCTION

1.1 Background

Envirotech Pty. Ltd. was engaged by Shailesh Kotecha to conduct a Preliminary Site Investigation at 682 Castlereagh Road, Agnes Banks NSW 2753 (hereafter referred to as the 'Site'). The proposed development application is for a proposed new residential dwelling with a swimming pool and tennis court. The objective of the investigation is to assess the potential for site contamination, based on historical and current land use practices.

The total area of investigation is approximately 25,005 m². A site inspection was carried out on Tuesday 17th March 2020 by Envirotech consultant Charbel Bahi, which involved a visual assessment of the accessible areas of the site and surrounding areas. Details of the findings are presented within the body of this report, as well as an assessment of significance with regards to the findings of the investigation.

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

1.2 Objectives

The objectives of this PSI are to:

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

1.3 Scope of Works

1. A desktop search comprising
 - a. Cadastre & Topography
 - b. Aerial Imagery
 - c. EPA Contaminated Land
 - d. EPA Records of Notice
 - e. National Waste
 - f. Groundwater Bores
 - g. Geology & Soils
 - h. Planning Zones
2. A review of past and current site uses
3. A review of past and current adjacent site uses
4. An integrity assessment
5. A site inspection and
6. Reporting in accordance with the associated legislations and guidelines.

1.4 Legislative Requirements

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

- *Protection of the Environment Operations Act (1997)*
- *Protection of the Environment Operations Regulation (2008)*
- *Contaminated Land Management Act (1998).*

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

- *Contaminated Land Management - Guidelines for the NSW Site Auditor Scheme (3rd Edition, 2017)*
- *State Environmental Planning Policy No.55 (SEPP55) – Remediation of Land (2018)*
- *NSW EPA Guidelines for Consultants Reporting on Contaminated Sites (2011)*
- *NSW EPA Sampling Design Guidelines (1995)*
- *NSW EPA Waste Classification Guidelines Part 1: Classifying Waste (2014)*
- *Guidelines on the Investigation Levels for Soil and Groundwater, National Environmental Protection Measure 1999, 2013 Amendment (NEPC, 2013)*
- *Guidelines for the Assessment, Remediation & Management of Asbestos - Contaminated Sites (DOH, 2009)*
- *Australian Standard AS 4482.1 Guide to the sampling and investigation of potentially contaminated soil. Part 1: Non-volatile and semi-volatile compounds*
- *Australian Standard AS 4482.2 Guide to the sampling and investigation of potentially contaminated soil. Part 2: Volatile substances.*

1.5 Context of report

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

2. SITE IDENTIFICATION

The site located at 682 Castlereagh Road, Agnes Banks NSW 2753. The site can be identified as an irregular shaped allotment located northwest of Castlereagh road. Figure 2 shows an aerial photograph of the site and the surrounding land.

Table 1: Site Identification.

Street Address	682 Castlereagh Road, Agnes Banks NSW 2753
Lot and DP Number	Lot 2 (DP252556)
Approx. Site Area	20,257 m ²
Approx. Area of Development	11,190 m ²
Local Government Area	Penrith City Council
Zoning	RU1: Primary Production
LGA Legislation	Penrith Local Environmental Plan 2010

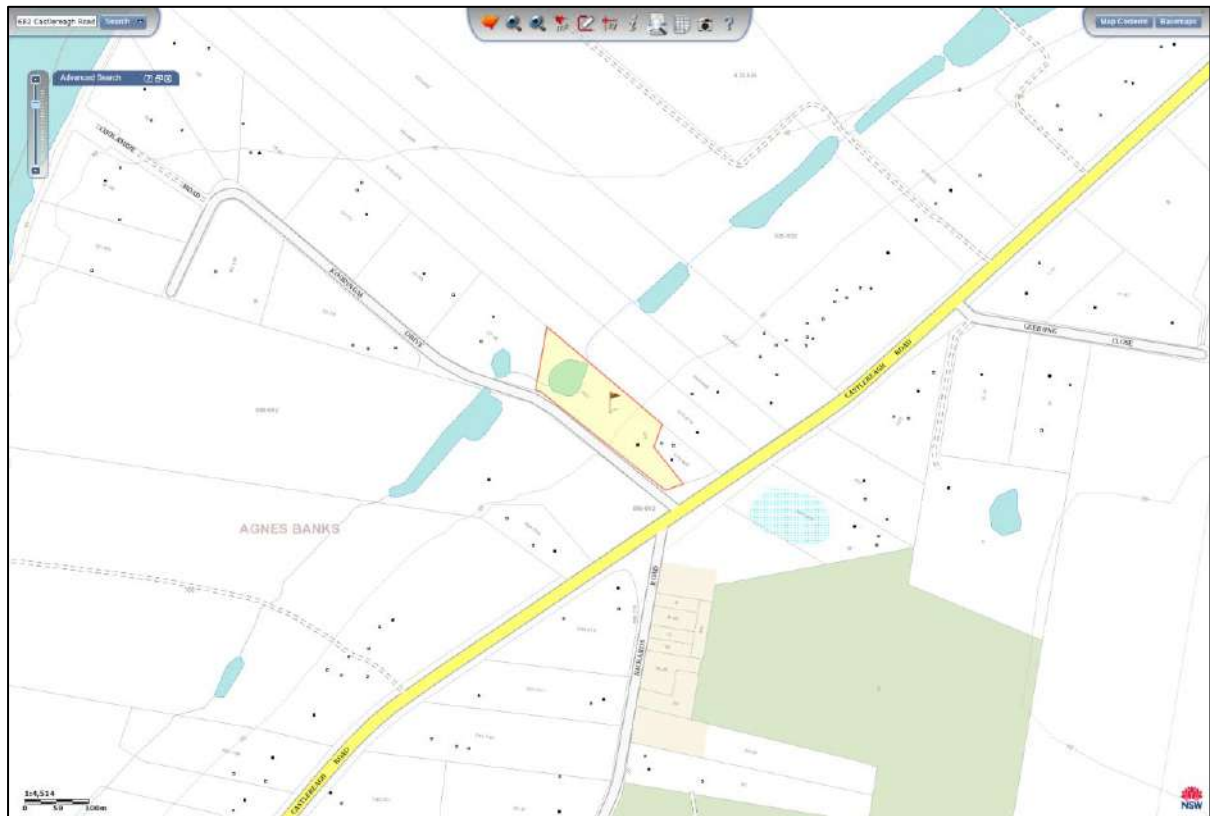


Figure 1: Site location map (<https://maps.six.nsw.gov.au/>)

3. AREA OF INVESTIGATION

The proposed development includes a proposed new community/cultural centre, therefore the entire site was investigated, in particular the proposed development area, for potential environmental areas of concern.



Figure 2: Aerial photograph of the site and surrounding land showing the areas of proposed development within the site (<https://maps.six.nsw.gov.au/>)

4. SITE DESCRIPTION

4.1 Site Inspection

On Tuesday 17th March 2020, a site inspection was conducted by Envirotech consultant Charbel Bahi. Field work was carried out in accordance with the methodology described in AS 4482.1 – 2005 and the NEPM (2013). At the time of inspection, an existing single storey dilapidated residential dwelling with an attached metal sheds and fenced off swimming pool were present onsite within the south eastern portion of the site. The majority of the site was covered by overgrown grasses with over hanging trees within the south eastern portion of the site. A large dam covered by vegetation was noted within the north western portion of the site. The land sloped towards the northwest towards the dam.

4.2 Surrounding Land Use

The site is located within a residential setting and bordered by:

- Rural residential properties to the north, south, east and west,
- Market Gardens to the north, east and west
- Open space and forest vegetation to the south

4.3 Topography

Low parallel dunes on flat terrace surface. Local relief to 7 m, slopes generally <5%

4.4 Geology and Soils

Reference to the Sydney 1:100,000 Geological Series 9130 Sheet Edition 1, dated 1983, by the Geological Survey of New South Wales, Department of Mineral Resources, indicates the site is located between the geological boundaries Agnes Banks Sand (Qpa) Quartz sand (limonite coated), minor clay, clay sized quartz and Lowlands Formation (Qpl) Gravel, sand, silt, clay.

Quartz sands derived from sandstones of the upper Hawkesbury and Nepean catchment.

Soils - Deep acid sandy soils, strongly leached overlying yellow sandy clays with coffee-coloured iron and organic rich layer. Podzols, red and yellow podzolic soils.

4.5 Surface Water Hydrology

Surface water and distinct overland flow paths was noted onsite within the north western portion of the site during the investigation. A large dam and creek joining neighbouring dams was noted.

4.6 Hydrogeology

A search of the Department of Primary Industries, Office of Water search tool Continuous Water Monitoring Network revealed five bores within a 500m radius of the site.

GW No.	Licence No	Work Type	Owner Type	Authorised Purpose	Complete Date	Final Depth (m)	Drilled Depth (m)	Salinity (mg/L)	SWL (m)	Yield (L/s)	Elev (AHD)	Distance	Direction
GW114 970	10WA11 9135	Bore	Private	Domestic	05/02/2015	174.00	174.00		29.00	0.250		233m	East
GW072 437	10BL156 098, 10WA11 2645	Bore	Private	Domestic	08/11/1994	24.00	24.00	60	9.00	0.400		257m	South
GW104 843	10BL159 689, 10WA10 8461	Bore	Private	Domestic, Stock	01/01/2002	4.00	4.00		10.00	0.555		269m	South
GW106 312	10BL162 016	Bore	Private	Domestic, Stock	16/05/2003	18.00	18.00			0.600		458m	West
GW112 104	10BL156 746	Bore	Private	Monitoring Bore	25/06/1996	13.00	13.00					474m	South East

4.7 Acid Sulfate Soils

The NSW Planning Portal shows the site does not lie within any potentially Acid Sulphate containing Soils.

4.8 Dryland Salinity Potential in 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	Onsite
281	WATER	Area of Water	811m	South East
813	MODERATE	Area of Moderate Salinity Potential	910m	North East

5. SITE RECORDS

5.1 List of NSW Contaminated Sites - Notified to the EPA

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

- No records

5.2 Contaminated Land Records of Notice

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

- No records

5.3 Former Gasworks

Former Gasworks within the dataset buffer:

- No records

5.4 National Waste Management Site Database

- No records

5.5 National Liquid Fuel Facilities

National Liquid Fuel Facilities within the dataset buffer:

- No records

5.6 Defence PFAS Investigation and Management Program

- No records

5.7 Air Services Australia National PFAS Management Program

- No records

5.8 Defence 3 Year Regional Contamination Investigation Program

- No records

5.9 EPA Other Site with Contamination Issues

- No records

5.10 Licensed Activities under the POEO Act 1997

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

- No records

5.11 Delicensed Activities still regulated by EPA

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

- No records

5.12 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:

License No	Organisation	Location	Status	Issued Date	Activity	Loc Conf	Distance	Direction
13070	SYDNEY WATER CORPORATION	Agnes Banks and Londonderry Sewerage Scheme including the townships of Agnes Banks and, LONDONDERRY, NSW, 2753	Surrendered	27/04/2009	Sewage treatment processing by small plants	General Area/ Suburb Match	0m	Onsite
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	Onsite
4838	Robert Orchard	Various waterways throughout NSW – Sydney NSW 2000	Surrendered	07/09/2000	Other Activities / Non Scheduled Activity - Application of Herbicides	Network of Features	0m	Onsite
6630	Sydney Weed & Pest Management Pty Ltd	Various waterways throughout NSW – Prospect NSW 2148	Surrendered	09/11/2000	Other Activities / Non Scheduled Activity - Application of Herbicides	Network of Features	0m	Onsite
2257	P B WHITE MINERALS PTY LTD	END OF TORKINGTON ROAD, LONDONDERRY, NSW 2753	Surrendered	04/09/2000	Other Land-Based Extraction	Premise Match	599m	East

5.13 Business Directory Records 1950 – 1991 Road or Area Match

Universal Business Directory records from years 1991, 1986, 1982, 1970, 1961 & 1950, mapped to a road or an area, within the dataset buffer:

Map Id	Business Activity	Premise	Ref No.	Year	Location Confidence	Distance to Road Corridor or Area
1	Veterinary Supplies &/Or Instruments	Nature Vet Pty Ltd, 11 Castlereagh Rd Agnes Banks 2753	65677	1991	Road Match	0m
	Veterinary Supplies &/Or Instruments	R W R Beterinary Products Pty Ltd, 11 Castlereagh Rd Agnes Banks 2753	65682	1991	Road Match	0m
2	Motor Garages & Service Stations	Doherty, P & M Transport, 122 Castlereagh Rd, Castlereagh 2749	53687	1991	Road Match	125m
	Gravel, Sand & Soil Supplies	Nepean Sand & Gravel Co. Pty. Ltd., Castlereagh Rd. Castlereagh	535345	1970	Road Match	125m
	Gravel, Sand & Soil Supplies	Nepean Sand & Gravel Co. Pty. Ltd., Castlereagh Rd., Castlereagh	194150	1961	Road Match	125m
	Mixed Businesses	Young, G. W., Castlereagh Rd., Castlereagh	194151	1961	Road Match	125m
	Motor Bus Services	Young, G. W., Castlereagh Rd., Castlereagh	194152	1961	Road Match	125m
	Motor Oil & Spirit Depots	Young, G. W., Castlereagh Rd., Castlereagh	194153	1961	Road Match	125m

5.13 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:

Map Id	Business Activity	Premise	Ref No.	Year	Location Confidence	Distance to Road Corridor or Area
1	Motor Garages & Service Stations	Doherty P & M Transport, 122 Castlereagh Rd., Castlereagh. 2749	18900	1993	Road Match	125m
	Motor Garages & Service Stations	Doherty P & M Transport, 122 Castlereagh Rd., Castlereagh. 2749	53687	1991	Road Match	125m

6. SITE HISTORY

6.1 Aerial Photographs

A review of historical aerial photographs (Appendix B) was undertaken. The results of which are summarized in Table 3.

Table 3: Findings of the historical photograph review

Year	Description
1961	<ul style="list-style-type: none">• Low resolution Black and white aerial photo• Subject site appears to have a residential dwelling onsite with multiple outbuildings• Forest vegetation on site and to the to the south and north-west• Multiple residential dwellings in neighbouring properties• Market gardens to the east, south-west and north
1965	<ul style="list-style-type: none">• Low resolution Black and white aerial photo• New road to the west• Forest vegetation to the south-east has been cleared, a new road seen to be cutting through it• No major changed to subject lot and surrounding area
1970	<ul style="list-style-type: none">• Low resolution Black and white aerial photo• New residential dwelling to the east with multiple outbuildings• Some forest vegetation to the north has been removed• New fences surrounding dwellings on site and to the north• No major changed to surrounding area and subject lot
1982	<ul style="list-style-type: none">• Medium resolution Coloured aerial photo• Existing dwelling has been cleared and replaced with a new dwelling• Forest vegetation to the north of the site has been cleared• Forest vegetation to the north-east and south-east has been cleared• New dwellings to the north-east• No major changes to subject lot
1991	<ul style="list-style-type: none">• Medium resolution Coloured aerial photo• Dam on site begins to form• Multiple new dwellings with to the north• Forest vegetation is growing on site• Market gardens are becoming more developed to the north• No major changes to subject lot and surrounding areas
2005	<ul style="list-style-type: none">• High resolution Coloured aerial photo• Dwelling on site has been expanded• New forest vegetation along the road to the south• New roads and dwellings to the south and north• Dam on site becomes more pronounced• New dwellings to the north• No major changes to subject lot and surrounding areas

2007	<ul style="list-style-type: none"> • High resolution Coloured aerial photo • More dwellings to the north • No major changes to subject lot and surrounding areas
2014	<ul style="list-style-type: none"> • High resolution Coloured aerial photo • Pool has been built on site behind the dwelling • Dwelling to the north has been cleared • Vegetation to the south has been cleared • Earthworks has occurred to the south-west and has a new dwelling • No major changes to subject lot and surrounding areas
2019	<ul style="list-style-type: none"> • High resolution Coloured aerial photo • Dam has been covered in water vegetation • Forest vegetation has been cleared to the south • New dwellings to the North-east • No major changes to subject lot and surrounding areas

6.2 Information Gaps

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

1. Inferences have been drawn based on 'point in time' aerial photographs;
2. No information pertaining to the site pre-1961 was viewed;
3. Historical business directories were matched to named roads and not the exact premises and are therefore approximate location.

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

7. CONCEPTUAL SITE MODEL (CSM)

7.1 Potential Areas of Concern

Based on the site inspection and review of historical information for the site, the following potential areas of environmental concern were identified at the site:

- There is a risk that contaminants associated with the underlying existing building footprint soils within the proposed development area could be comprised of unknown hazardous fill material.
- There is a risk that the existing buildings and associated structures could be comprised of hazardous construction materials

Table 3 identifies the main Areas of Environmental Concern (AECs), and their associated Contaminants of Concern (COCs), using the information gathered through this assessment and qualitative judgement based on consultant experience.

Table 3: Areas of Environmental Concern (**Derived from AS 4482.1-2005 and consultant experience*).

PAEC	Potentially Contaminating Activity	Contaminants of Concern	Likelihood of Contamination**
Existing building footprint areas (PAEC1)	Underlying soils onsite comprised of potentially hazardous fill materials.	<ul style="list-style-type: none"> • Heavy Metals • TRH, PAH, PCB • OC/ OP Pesticides • Asbestos 	Possible
Existing buildings to be demolished (PAEC1)	Building structures may be comprised of hazardous construction materials.	<ul style="list-style-type: none"> • Heavy Metals • Asbestos 	Possible



Figure 3: Potential areas of concern (in yellow) (<https://maps.six.nsw.gov.au/>)

8. RESULTS

8.1. Site Observations

At the time of inspection, an existing single storey dilapidated residential dwelling with an attached metal sheds and fenced off swimming pool were present onsite within the south eastern portion of the site. The majority of the site was covered by overgrown grasses with over hanging trees within the south eastern portion of the site. A large dam covered by vegetation was noted within the north western portion of the site. The land sloped towards the northwest towards the dam.

8.2 Potential Risks to Onsite Receptors

Based on the information available, the following is considered:

- In regard to the underlying soils beneath the existing residential property and associated building structures to potential unknown hazardous fill material, the risk to human and environmental onsite receptors to Heavy Metals, Total Recoverable Hydrocarbons, PAH's, OC/OP Pesticides and Asbestos is **LOW**, due to the underlying soils being capped by existing building footprints, however if these building structures and subsequent building hardstand footprints are demolished and removed then this DOES warrant further investigations.
- In regard to the existing dilapidated residential property and associated building structures within the site, the risk to human and environmental onsite receptors to Heavy Metals, PCB, Asbestos is **LOW**, as a visual inspection of those building structures did not identify damaged or deteriorating hazardous construction materials during the inspection, however if these building structures and subsequent building hardstand footprints are demolished and removed then this DOES warrant further investigations.

8.3 Receptors and Pathways

8.3.1 Human Health

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

- The site is privately owned,
- The site cannot be publicly accessed.

This risk would increase too *Medium-to-High* for any personnel involved in the demolition of building structures and footprint hardstand and subsequent excavations of underlying soils within the site for the proposed commercial/industrial development without appropriate safe work methods and personal protective equipment.

8.3.2 Sensitive Receptors

Sensitive human receptors would include all adjacent rural residential occupants to the north, east, south and west of the site, as well as current and future residents occupying the site including

construction workers. The closest sensitive environmental receptors are market gardens to the north, east and west of the site as well as forest vegetation to the south.

8.3.3 Potential for Migration of Contaminants

The potential for contaminants to migrate is currently considered *Low* as the existing soils are capped by grass vegetation (throughout the entire site). The potential for migration of contaminants through direct contact (Heavy Metals) and airborne inhaling dust (Asbestos) is also considered *Low* as the existing soils are capped by grass vegetation throughout the entire site, however during earthworks these contaminants may be potentially released as capping materials are removed.

Regarding the residential building and associated structures within the site, the potential for migration of contaminants through direct contact (Heavy Metals) and airborne inhaling dust (Asbestos) is also considered *Low* as the existing buildings show no signs of damage or deterioration.

8.4 Hazardous Building Materials

All current residential buildings within the site were constructed prior to 2000. Therefore, potential hazardous building materials may be present within the building structures. This does warrant further investigations if these structures are to be refurbished, reused or demolished.

9 CONCLUSIONS & RECOMMENDATIONS

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

- On the 17th March 2020, a site inspection was conducted by Envirotech consultant Charbel Bahi. Field work was carried out in accordance with the methodology described in AS 4482.1 – 2005 and the NEPM (2013);
- At the time of inspection, an existing single storey dilapidated residential dwelling with an attached metal sheds and fenced off swimming pool were present onsite within the south eastern portion of the site. The majority of the site was covered by overgrown grasses with over hanging trees within the south eastern portion of the site. A large dam covered by vegetation was noted within the north western portion of the site. The land sloped towards the northwest towards the dam.
- During the investigation, the entire site was investigated, including the proposed areas of development which include the proposed residential pending development application.
- Potential areas of concern, include the following areas:
 - There is a risk that contaminants associated with the underlying soils beneath existing the existing residential property and associate building structures could be comprised of unknown hazardous fill material within the proposed south eastern (*PAEC1*) portion of the site.
 - There is a risk that existing building structures within the site could be comprised of hazardous building materials (*PAEC1*).

Subject to outcome of the above items, and regarding the proposed residential proposed development within the southern portion of the site, it is recommended that a **Targeted Detailed Site Investigation** be undertaken within underlying soils of the existing building structures where potential backing filling occurred during past historical activities, only if those existing building structures are to be demolished and removed from site for the proposed new residential development. If contamination is identified during the site assessment, then a **Remedial Action Plan (RAP)** is to be prepared detailing appropriate remediation and validation procedures to clean up the site.

A **HAZMAT Survey** is to be also undertaken within the existing building structures if those building structures are to be refurbished, reused or demolished as part of the new proposed development.

It is therefore considered that the site can be made suitable for its proposed development and land use pending a further **Targeted Detailed Site Investigation and HAZMAT Survey** within the site.

10 LIMITATIONS STATEMENT

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

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

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

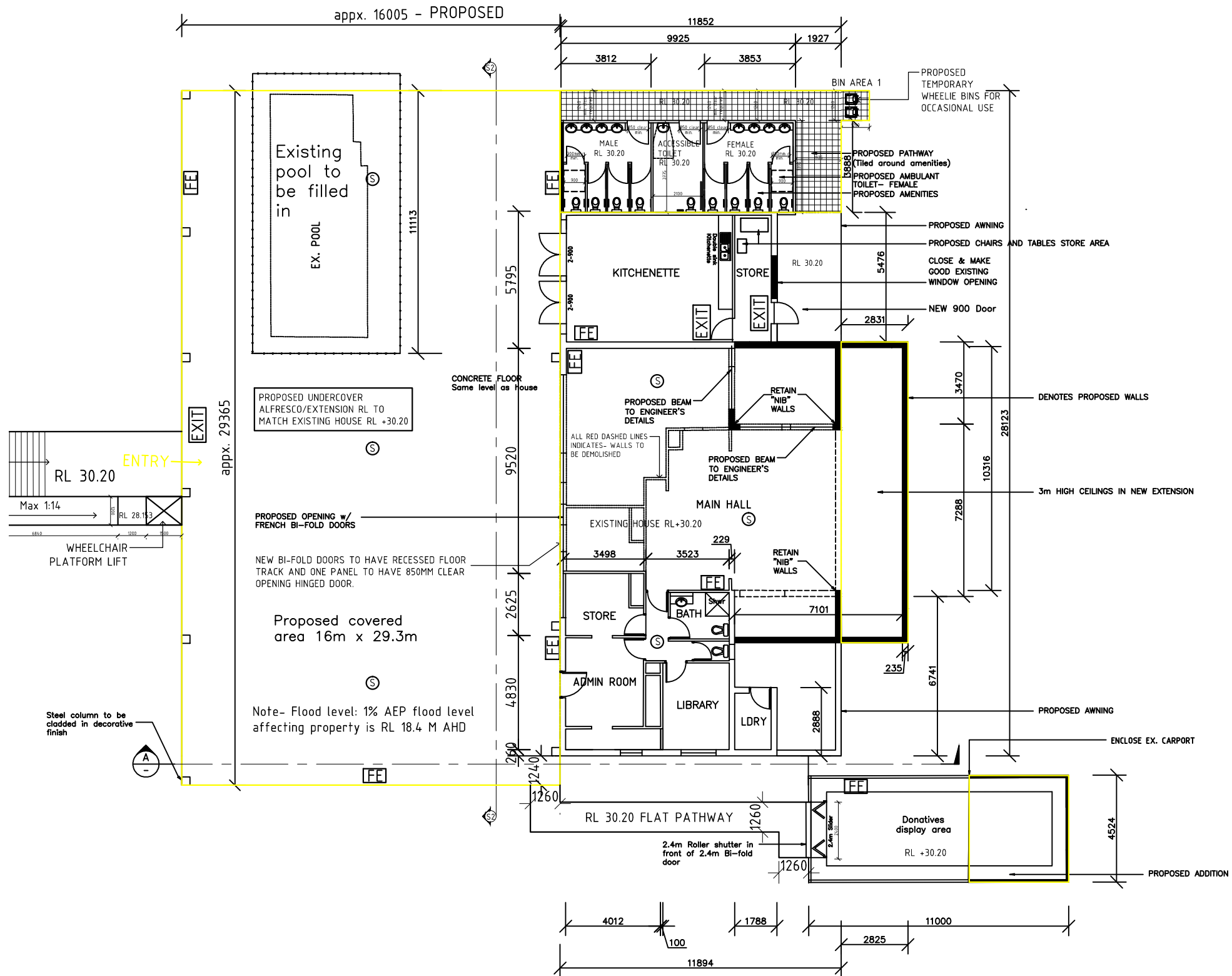
A third party should not rely upon the information prior to making an assessment that the scope of work conducted meets their specific needs. Envirotech cannot be held liable for third party reliance on this document.

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

11 REFERENCES AND LEGISLATION

- *Protection of the Environment Operations Act (1997);*
- *Protection of the Environment Operations Regulation (2008);*
- *Contaminated Land Management Act (1998).*
- *Contaminated Land Management - Guidelines for the NSW Site Auditor Scheme (3rd Edition, 2017).*
- *State Environmental Planning Policy No.55 (SEPP55) – Remediation of Land (2018)*
- *NSW EPA Guidelines for Consultants Reporting on Contaminated Sites (2011).*
- *NSW EPA Sampling Design Guidelines (1995).*
- *NSW EPA Waste Classification Guidelines Part 1: Classifying Waste (2014).*
- *Guidelines on the Investigation Levels for Soil and Groundwater, National Environmental Protection Measure 1999, 2013 Amendment (NEPC, 2013).*
- *Guidelines for the Assessment, Remediation & Management of Asbestos - Contaminated Sites (DOH, 2009).*
- *Australian Standard AS 4482.1 Guide to the sampling and investigation of potentially contaminated soil. Part 1: Non-volatile and semi-volatile compounds.*
- *Australian Standard AS 4482.2 Guide to the sampling and investigation of potentially contaminated soil. Part 2: Volatile substances.*
- NSW Spatial Information Exchange (<http://maps.six.nsw.gov.au/>)

APPENDIX A: PROPOSED DEVELOPMENT PLANS



FLOOR PLAN 1:500

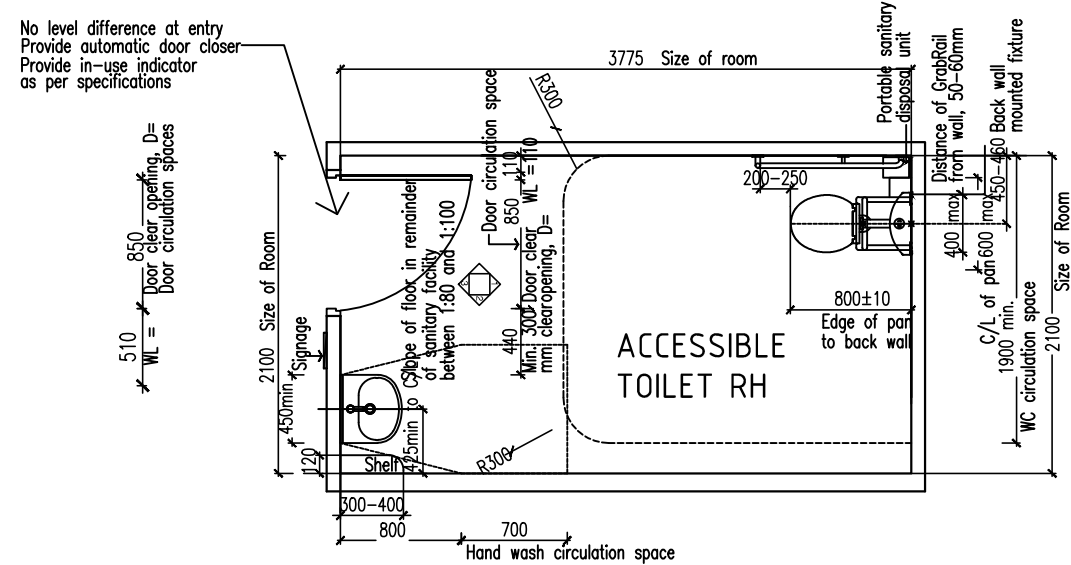
LEGEND
 S - SMOKE DETECTOR
 FE - FIRE EXTINGUISHER
 EXIT - FIRE EXITS

GENERAL NOTES

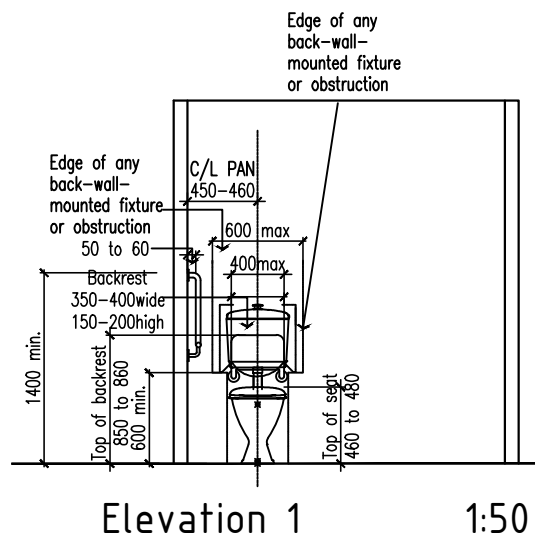
- ALL DRAWINGS ARE PREPARED BASED ON THE SUPPLIED INFORMATION BY THE CLIENT AND ARE BASED ON PROVIDED PREVIOUS SET OF DRAWINGS DONE BY OTHER PROFESSIONALS. DESIGN BY RJV DISCLAIMS ACCURACY OF ALL DRAWINGS AT ALL TIMES. VERIFY DIMENSIONS AND COMPLIANCE ON SITE PRIOR TO START OF ANY WORKS.
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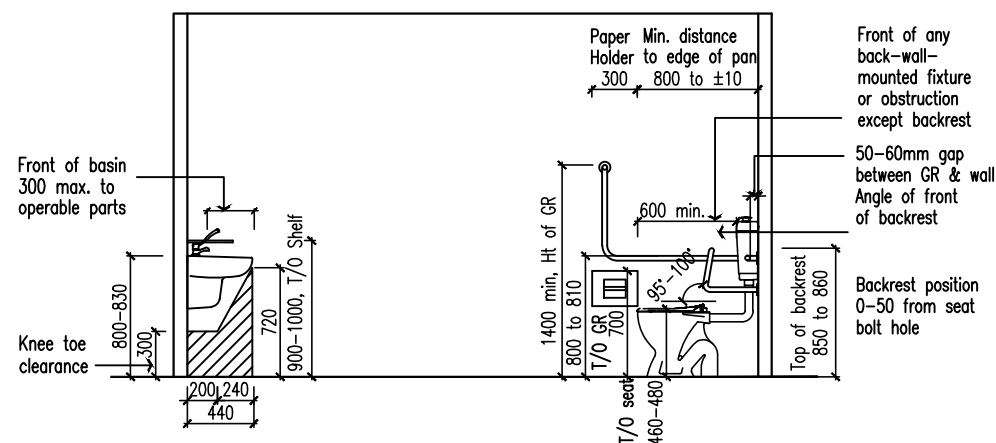
DRAWN BY	NOTES	NOTES	AMENDMENTS	DRAWING DETAILS	PROJECT DETAILS
DESIGN by RJV Drafting Services	<ul style="list-style-type: none"> • Drawings are not be scaled. • All dimensions, levels, sewer and stormwater invert levels, doors and window sizes & styles, to be checked and verified by builder on site prior to commencement of any work and prior to ordering any materials. • Drawings to be read in conjunction with the specifications and structural engineers drawings. • All work has to be carried out to meet all requirements of the Building Code of Australia, local council DCP and LEP's, relevant 	<ul style="list-style-type: none"> • Australian Standards and any other relevant authorities. • All structural work including Slabs, walls, beams, roof etc are indicative only and have to be constructed according to a qualified structural engineers drawings. • Sizes of doors and windows indicate wall opening sizes. • All BASIX requirements need to be followed. • Provide smoke detectors as per BCA requirements. • The drawing has been made as directed by the client. • 'DESIGN BY RJV' is not liable for any copyright breach. 	20-11-18 - Amended Drawings for Council approvals	FLOOR PLAN	PROJECT: CULTURAL CENTER LOCATION: 682 CASTLEREAGH ROAD, AGNES BANK, NSW APPLICANT: VAISHNAV SANGH OF SYDNEY CONTACT NO.: --
EMAIL: designbyrjv@outlook.com				DATE: 20/11/2018 SCALE: AS SPECIFIED	DWG NO: D 2 SHEET SIZE: A3



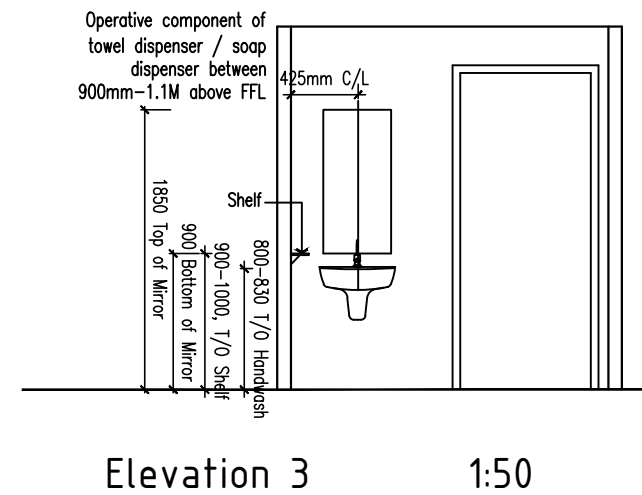
Accessible Toilet- Floor plan 1:50



Elevation 1 1:50



Elevation 2 1:50



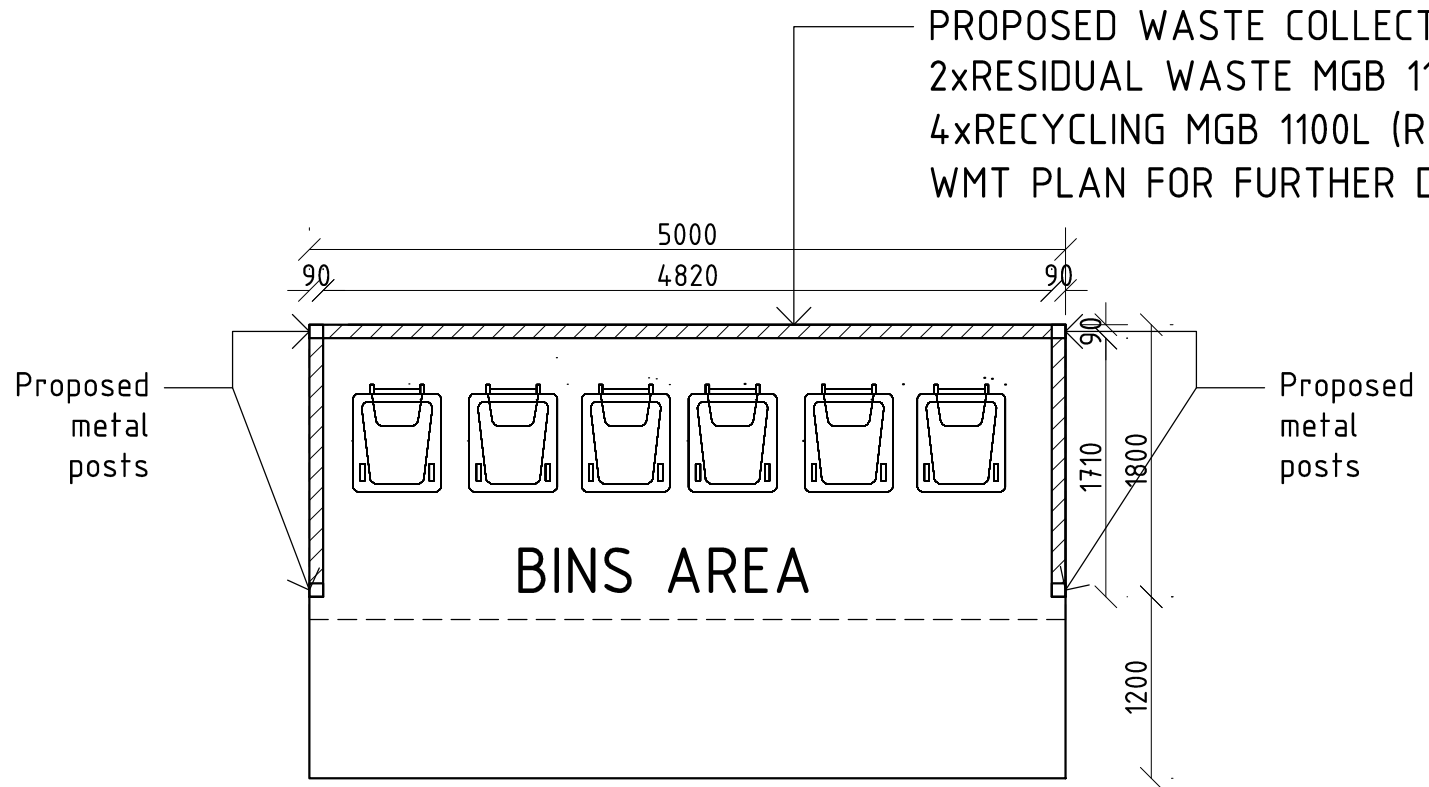
Elevation 3 1:50

GENERAL NOTES

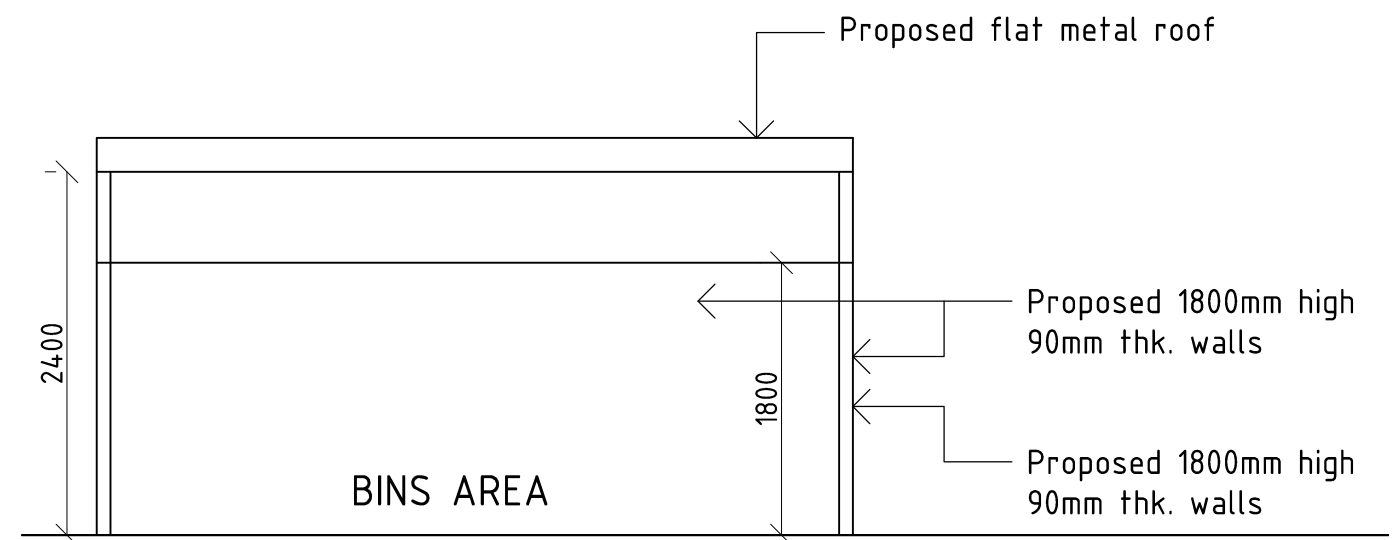
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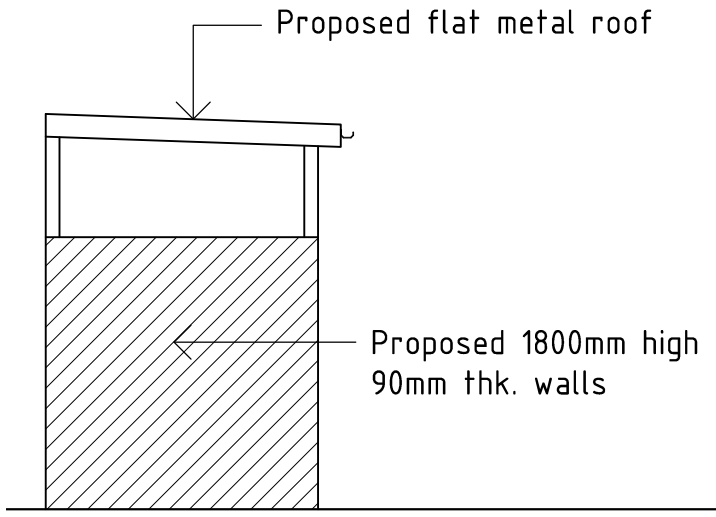
DRAWN BY	NOTES	NOTES	AMENDMENTS	DRAWING DETAILS	PROJECT DETAILS
DESIGN by RJV Drafting Services	<ul style="list-style-type: none"> Drawings are not be scaled. All dimensions, levels, sewer and stormwater invert levels, doors and window sizes & styles, to be checked and verified by builder on site prior to commencement of any work and prior to ordering any materials. Drawings to be read in conjunction with the specifications and structural engineers drawings. All work has to be carried out to meet all requirements of the Building Code of Australia, local council DCP and LEP's, relevant 	<ul style="list-style-type: none"> Australian Standards and any other relevant authorities. All structural work including Slabs, walls, beams, roof etc are indicative only and have to be constructed according to a qualified structural engineers drawings. Sizes of doors and windows indicate wall opening sizes. All BASIX requirements need to be followed. Provide smoke detectors as per BCA requirements. The drawing has been made as directed by the client. 'DESIGN BY RJV' is not liable for any copyright breach. 	20-11-18 - Amended Drawings for Council approvals	<p>ACCESSIBLE TOILET DRAWINGS</p> <p>DATE: 20/11/2018 DWG NO: D 4</p> <p>SCALE: AS SPECIFIED SHEET SIZE: A3</p>	<p>PROJECT: CULTURAL CENTER</p> <p>LOCATION: 682 CASTLEREAGH ROAD, AGNES BANK, NSW</p> <p>APPLICANT: VAISHNAV SANGH OF SYDNEY</p> <p>CONTACT NO.: --</p>



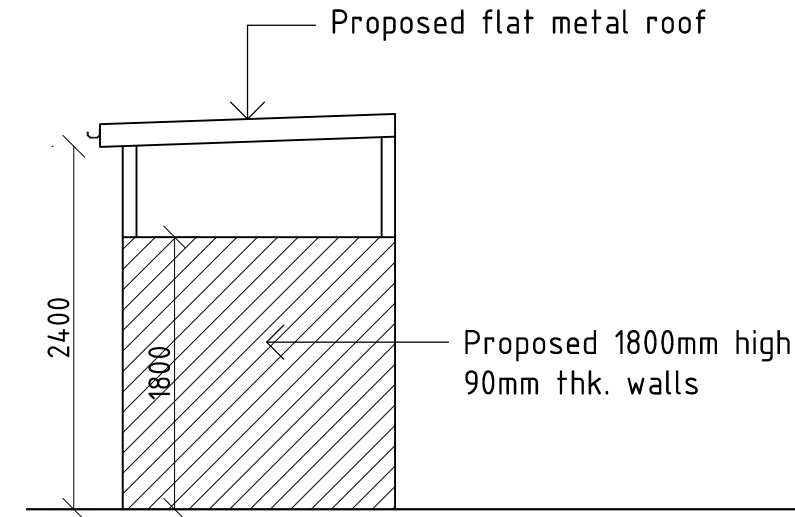
BIN AREA 2- FLOOR PLAN 1:50



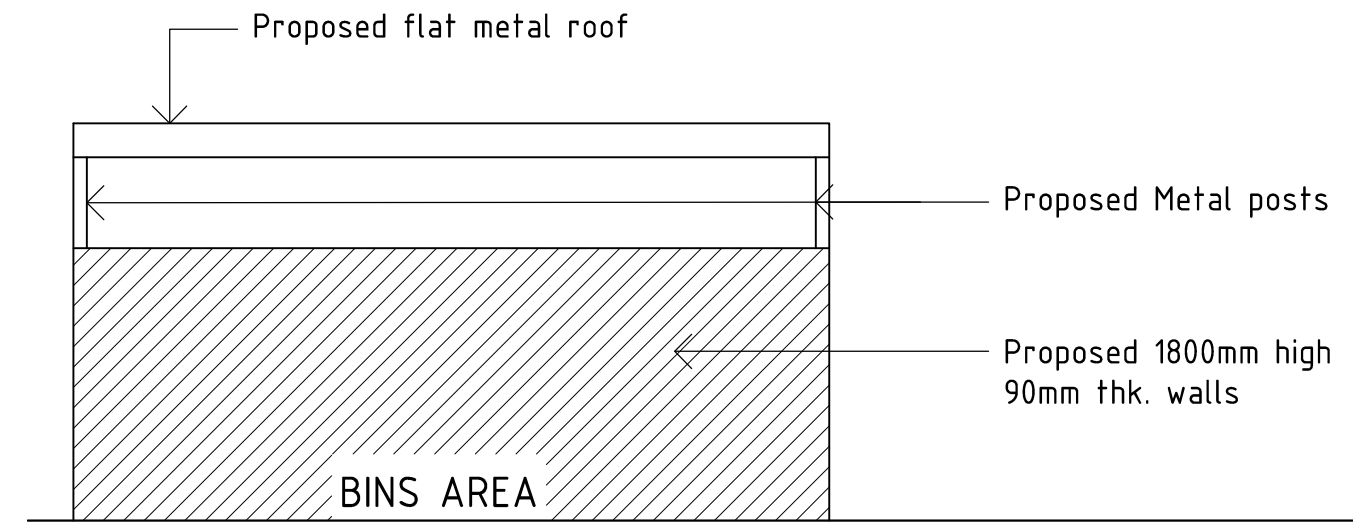
BIN AREA 2- FRONT ELEVATION 1:50



BIN AREA 2- SIDE ELEVATION 1:50



BIN AREA 2- SIDE ELEVATION 1:50



BIN AREA 2- REAR ELEVATION 1:50

GENERAL NOTES

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DRAWN BY

DESIGN by RJV
Drafting Services

EMAIL: designbyrjv@outlook.com

NOTES

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- Drawings to be read in conjunction with the specifications and structural engineers drawings.
- All work has to be carried out to meet all requirements of the Building Code of Australia, local council DCP and LEP's, relevant

NOTES

- Australian Standards and any other relevant authorities.
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- Sizes of doors and windows indicate wall opening sizes.
- All BASIX requirements need to be followed.
- Provide smoke detectors as per BCA requirements.
- The drawing has been made as directed by the client.
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AMENDMENTS

20-11-18 - Amended Drawings for Council approvals

DRAWING DETAILS

BIN AREA 2 DRAWINGS

DATE: 20/11/2018

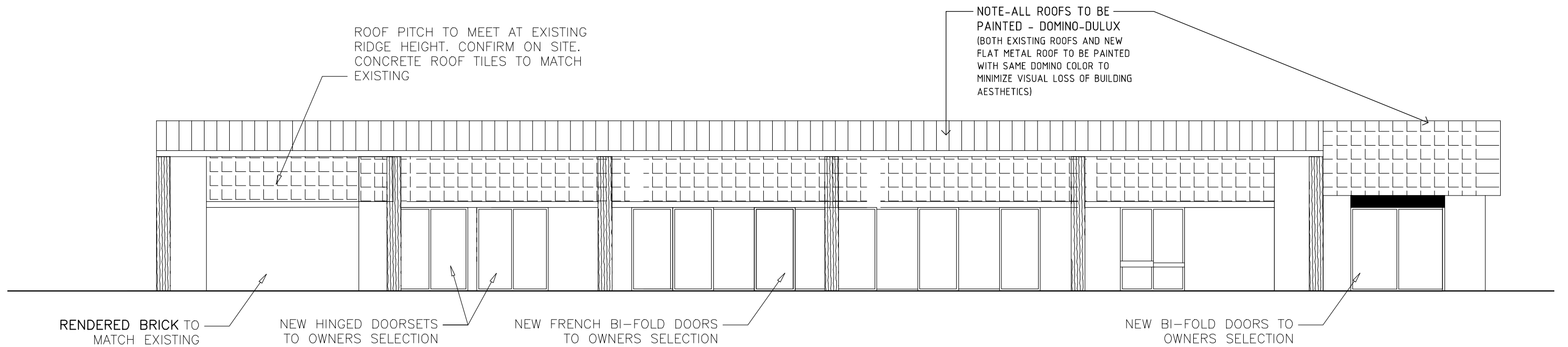
DWG NO: D 5

SCALE: AS SPECIFIED

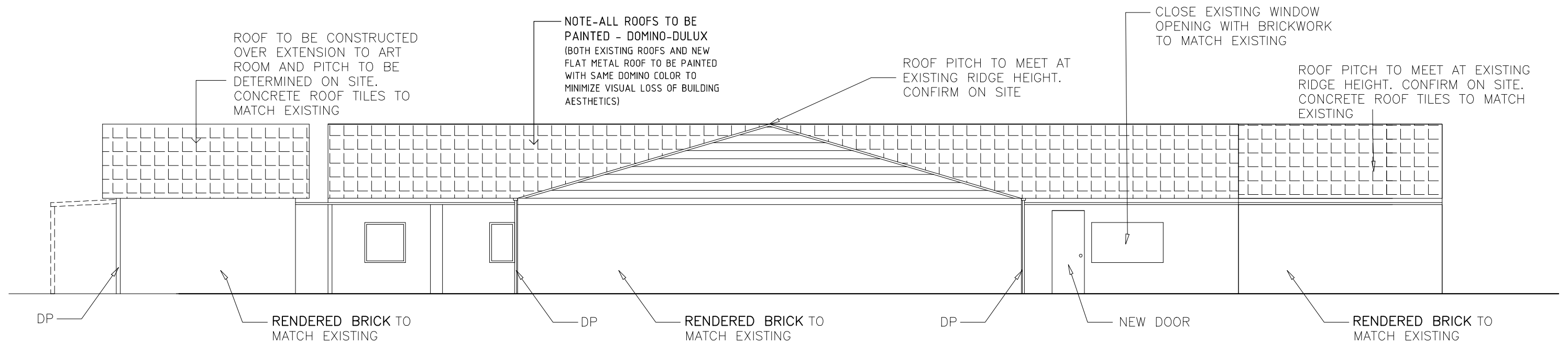
SHEET SIZE: A3

PROJECT DETAILS




PROJECT: CULTURAL CENTER
LOCATION: 682 CASTLEREAGH ROAD, AGNES BANK, NSW
APPLICANT: VAISHNAV SANGH OF SYDNEY
CONTACT NO.: --



NORTH-WEST/FRONT ELEVATION 1:100



SOUTH-EAST/REAR ELEVATION 1:100

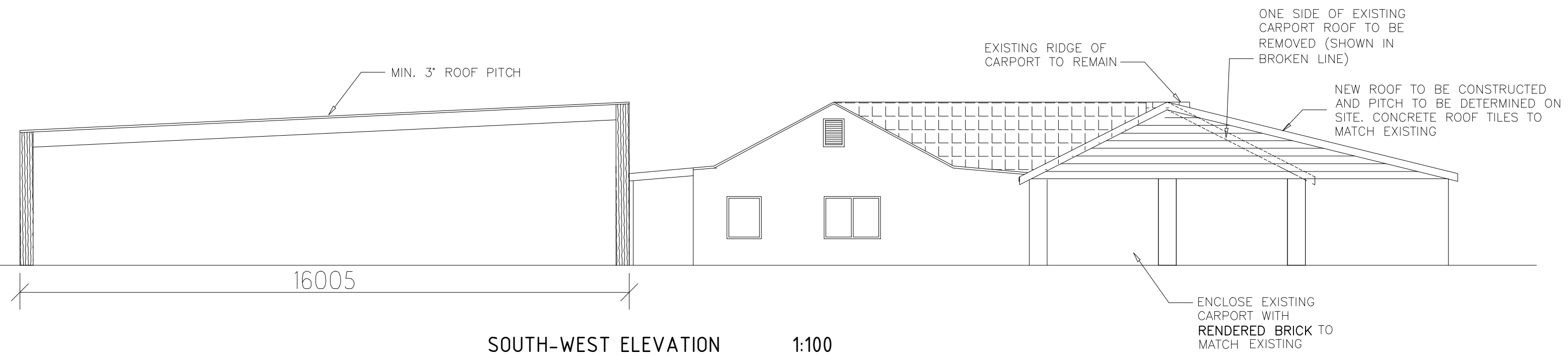
FINISHES SCHEDULE	
	EXTERNAL WALLS - CLADDED WALL FINISH PAINTED WITH HOG BRISTLE - DULUX. ALL EXISTING EXTERNAL WALLS PROPOSED TO BE RENDERED WITH SAME PAINT FINISH.
	NEW WINDOWS AND DOORS - TO BE PAINTED IN MONUMENT (CHARCOAL GREY)-DULUX
	ROOF TO BE PAINTED - DOMINO-DULUX NOTE-ALL EXISTING ROOFS AND NEW FLAT METAL ROOF TO BE PAINTED WITH SAME DOMINO COLOR TO MINIMIZE VISUAL LOSS OF BUILDING AESTHETICS)

GENERAL NOTES

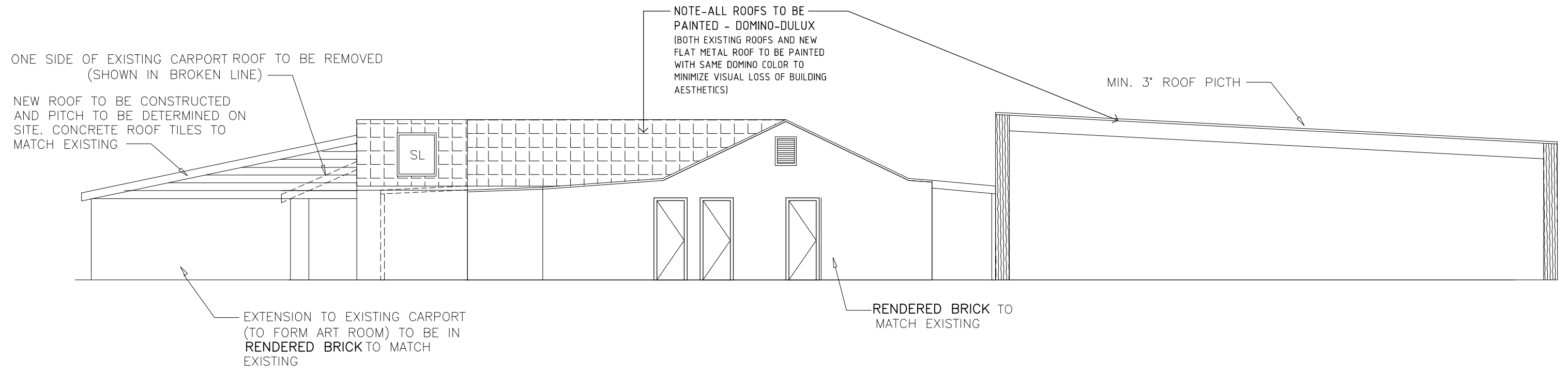
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SOUTH-WEST ELEVATION 1:100



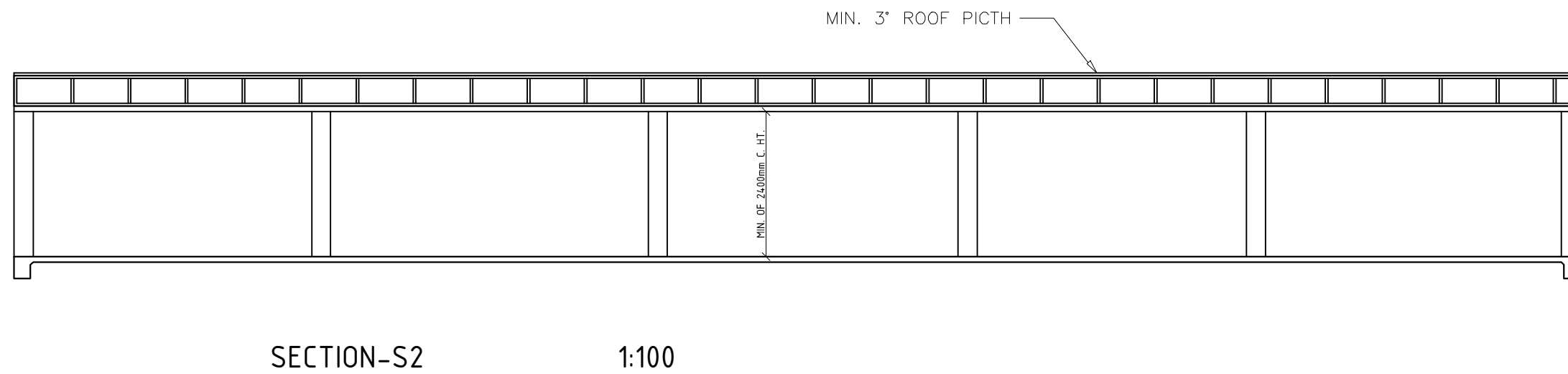
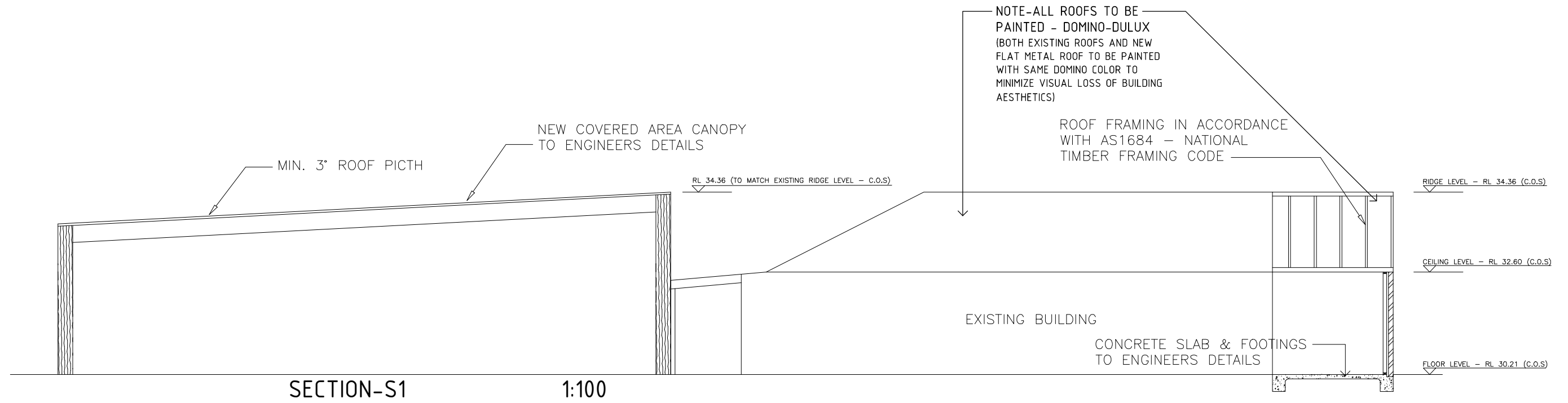
NORTH-EAST ELEVATION 1:100

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EMAIL: designbyrjv@outlook.com					

APPENDIX B: SITE PHOTOS



Photo 1: Existing dilapidated residential dwelling within southern portion of site looking north



Photo 2: Existing dilapidated residential dwelling within southern portion of site looking north-east showing potential hazardous construction materials



Photo 3: Existing metal shed within southern portion of site, looking east



Photo 4: Decommissioned pool looking north



Photo 6: Unkempt grassland with medium to high trees looking north



Photo 7: Unkempt grassland with medium-sized trees looking west within northern part of site



Photo 8: View of Dam looking north in northern part of site covered by vegetation



Photo 9: View of remnants of a concrete footprint area for a potential aboveground holding tank

APPENDIX C: LOTSEARCH



LOTSEARCH

LOTSEARCH ENVIRO PROFESSIONAL

Date: 16 Mar 2020 10:23:26

Reference: LS011629 EP

Address: 682 Castlereagh Road, Agnes Banks, NSW 2753

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:



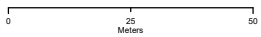
Dataset Name	Custodian	Supply Date	Currency Date	Update Frequency	Dataset Buffer (m)	No. Features Onsite	No. Features within 100m	No. Features within Buffer
Cadastre Boundaries	NSW Department of Finance, Services & Innovation	15/01/2020	15/01/2020	Quarterly	-	-	-	-
Topographic Data	NSW Department of Finance, Services & Innovation	25/06/2019	25/06/2019	As required	-	-	-	-
List of NSW contaminated sites notified to EPA	Environment Protection Authority	18/02/2020	18/02/2020	Monthly	1000	0	0	0
Contaminated Land Records of Notice	Environment Protection Authority	29/01/2020	29/01/2020	Monthly	1000	0	0	0
Former Gasworks	Environment Protection Authority	16/03/2020	11/10/2017	Monthly	1000	0	0	0
National Waste Management Facilities Database	Geoscience Australia	12/02/2020	07/03/2017	Quarterly	1000	0	0	0
National Liquid Fuel Facilities	Geoscience Australia	05/02/2020	13/07/2012	Quarterly	1000	0	0	0
EPA PFAS Investigation Program	Environment Protection Authority	12/02/2020	12/02/2020	Monthly	2000	0	0	0
Defence PFAS Investigation Program	Department of Defence	12/02/2020	12/02/2020	Monthly	2000	0	0	0
Defence PFAS Management Program	Department of Defence	12/02/2020	12/02/2020	Monthly	2000	0	0	0
Airservices Australia National PFAS Management Program	Airservices Australia	20/02/2020	20/02/2020	Monthly	2000	0	0	0
Defence 3 Year Regional Contamination Investigation Program	Department of Defence	04/03/2020	04/03/2020	Monthly	2000	0	0	0
EPA Other Sites with Contamination Issues	Environment Protection Authority	04/02/2020	13/12/2018	Annually	1000	0	0	0
Licensed Activities under the POEO Act 1997	Environment Protection Authority	11/03/2020	11/03/2020	Monthly	1000	0	0	0
Delicensed POEO Activities still regulated by the EPA	Environment Protection Authority	13/03/2020	13/03/2020	Monthly	1000	0	0	0
Former POEO Licensed Activities now revoked or surrendered	Environment Protection Authority	13/03/2020	13/03/2020	Monthly	1000	4	4	5
UBD Business Directories (Premise & Intersection Matches)	Hardie Grant			Not required	150	0	0	0
UBD Business Directories (Road & Area Matches)	Hardie Grant			Not required	150	-	2	8
UBD Business Directory Drycleaners & Motor Garages/Service Stations (Premise & Intersection Matches)	Hardie Grant			Not required	500	0	0	0
UBD Business Directory Dry Cleaners & Motor Garages/Service Stations (Road & Area Matches)	Hardie Grant			Not required	500	-	0	2
Points of Interest	NSW Department of Finance, Services & Innovation	17/10/2019	17/10/2019	Quarterly	1000	0	0	0
Tanks (Areas)	NSW Department of Customer Service - Spatial Services	17/10/2019	17/10/2019	Quarterly	1000	0	0	0
Tanks (Points)	NSW Department of Customer Service - Spatial Services	17/10/2019	17/10/2019	Quarterly	1000	0	0	0
Major Easements	NSW Department of Finance, Services & Innovation	17/10/2019	17/10/2019	Quarterly	1000	0	0	0
State Forest	Forestry Corporation of NSW	18/01/2018	18/01/2018	As required	1000	0	0	0
NSW National Parks and Wildlife Service Reserves	NSW Office of Environment & Heritage	21/01/2020	30/09/2019	Annually	1000	0	0	1
Hydrogeology Map of Australia	Commonwealth of Australia (Geoscience Australia)	08/10/2014	17/03/2000	As required	1000	1	1	2
Botany Groundwater Management Zones	NSW Department of Planning, Industry and Environment	15/03/2018	01/10/2005	As required	1000	0	0	0
Groundwater Boreholes	NSW Dept. of Primary Industries - Water NSW; Commonwealth of Australia (Bureau of Meteorology)	24/07/2018	23/07/2018	Annually	2000	0	0	30

Dataset Name	Custodian	Supply Date	Currency Date	Update Frequency	Dataset Buffer (m)	No. Features Onsite	No. Features within 100m	No. Features within Buffer
Geological Units 1:100,000	NSW Department of Planning, Industry and Environment	20/08/2014		None planned	1000	2	-	3
Geological Structures 1:100,000	NSW Department of Planning, Industry and Environment	20/08/2014		None planned	1000	0	-	0
Naturally Occurring Asbestos Potential	NSW Dept. of Industry, Resources & Energy	04/12/2015	24/09/2015	Unknown	1000	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	1000	1	1	2
Soil Landscapes	NSW Department of Planning, Industry and Environment	12/08/2014		None planned	1000	2	-	4
Environmental Planning Instrument Acid Sulfate Soils	NSW Department of Planning, Industry and Environment	10/03/2020	14/02/2020	Monthly	500	0	-	-
Atlas of Australian Acid Sulfate Soils	CSIRO	19/01/2017	21/02/2013	As required	1000	1	1	3
Dryland Salinity - National Assessment	National Land and Water Resources Audit	18/07/2014	12/05/2013	None planned	1000	0	0	0
Dryland Salinity Potential of Western Sydney	NSW Department of Planning, Industry and Environment	12/05/2017	01/01/2002	None planned	1000	1	1	3
Mining Subsidence Districts	NSW Department of Customer Service - Subsidence Advisory NSW	17/10/2019	17/10/2019	Quarterly	1000	0	0	0
Environmental Planning Instrument SEPP State Significant Precincts	NSW Department of Planning, Industry and Environment	10/03/2020	07/12/2018	Monthly	1000	0	0	0
Environmental Planning Instrument Land Zoning	NSW Department of Planning, Industry and Environment	10/03/2020	28/02/2020	Monthly	1000	1	3	10
Commonwealth Heritage List	Australian Government Department of the Agriculture, Water and the Environment	04/02/2020	31/07/2018	Quarterly	1000	0	0	0
National Heritage List	Australian Government Department of the Agriculture, Water and the Environment	04/02/2020	20/11/2019	Quarterly	1000	0	0	0
State Heritage Register - Curtilages	NSW Department of Planning, Industry and Environment	12/02/2020	09/11/2018	Quarterly	1000	0	0	1
Environmental Planning Instrument Heritage	NSW Department of Planning, Industry and Environment	10/03/2020	28/02/2020	Monthly	1000	0	2	8
Bush Fire Prone Land	NSW Rural Fire Service	04/02/2020	14/12/2019	Quarterly	1000	2	2	4
Remnant Vegetation of the Cumberland Plain	NSW Office of Environment & Heritage	07/10/2014	04/08/2011	Unknown	1000	1	3	11
Ramsar Wetlands of Australia	Department of the Agriculture, Water and the Environment	08/10/2014	24/06/2011	As required	1000	0	0	0
Groundwater Dependent Ecosystems	Bureau of Meteorology	14/08/2017	15/05/2017	Unknown	1000	0	1	4
Inflow Dependent Ecosystems Likelihood	Bureau of Meteorology	14/08/2017	15/05/2017	Unknown	1000	0	1	7
NSW BioNet Species Sightings	NSW Office of Environment & Heritage	13/03/2020	13/03/2020	Weekly	10000	-	-	-

Site Diagram

682 Castlereagh Road, Agnes Banks, NSW 2753



Legend  Site Boundary  Internal Parcel Boundaries	Total Area: 20257m ² Total Perimeter: 734m	Scale: 
	Disclaimers: Measurements are approximate only and may have been simplified or smaller lengths removed for readability. Parcels that make up a small percentage of the total site area have not been labelled for increased legibility.	Data Sources: Aerial Imagery: © Aerometrex Pty Ltd
		Date: 16 March 2020

Contaminated Land

682 Castlereagh Road, Agnes Banks, NSW 2753

List of NSW contaminated sites notified to EPA

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

Map Id	Site	Address	Suburb	Activity	Management Class	Status	Location Confidence	Dist (m)	Direction
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

682 Castlereagh Road, Agnes Banks, NSW 2753

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

682 Castlereagh Road, Agnes Banks, NSW 2753

National Waste Management Site Database

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

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

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

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 (m)	Direction
N/A	No records in buffer										

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

PFAS Investigation & Management Programs

682 Castlereagh Road, Agnes Banks, NSW 2753

EPA PFAS Investigation Program

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

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

682 Castlereagh Road, Agnes Banks, NSW 2753

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

682 Castlereagh Road, Agnes Banks, NSW 2753

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
- Pasmenco Lead Abatement Strategy Area

Sites within the dataset buffer:

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

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

EPA Activities

682 Castlereagh Road, Agnes Banks, NSW 2753

Licensed Activities under the POEO Act 1997

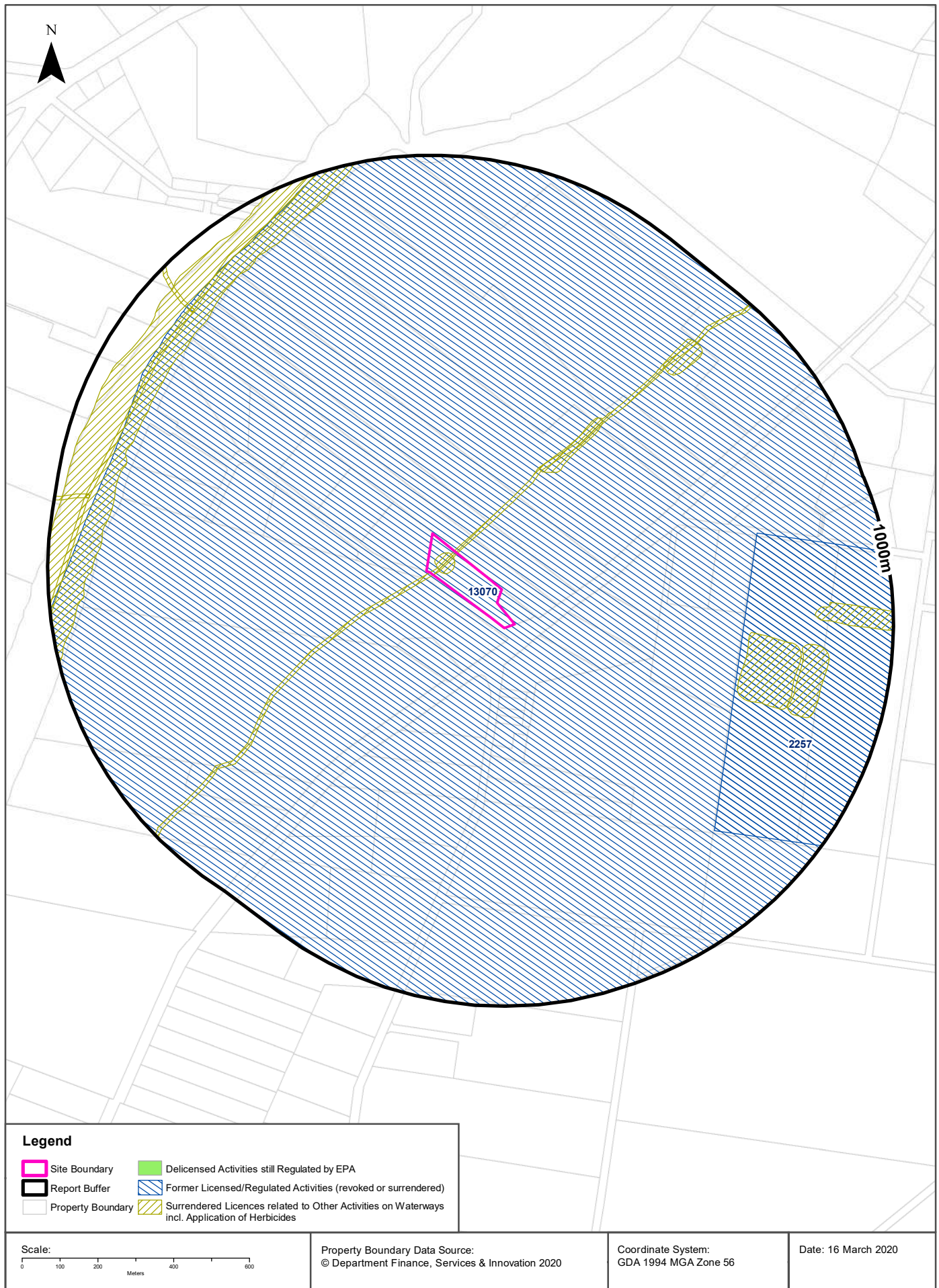
Licensed activities under the Protection of the Environment Operations Act 1997, within the dataset buffer:

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

POEO Licence Data Source: Environment Protection Authority
© State of New South Wales through the Environment Protection Authority

Delicensed & Former Licensed EPA Activities

682 Castlereagh Road, Agnes Banks, NSW 2753



EPA Activities

682 Castlereagh Road, Agnes Banks, NSW 2753

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

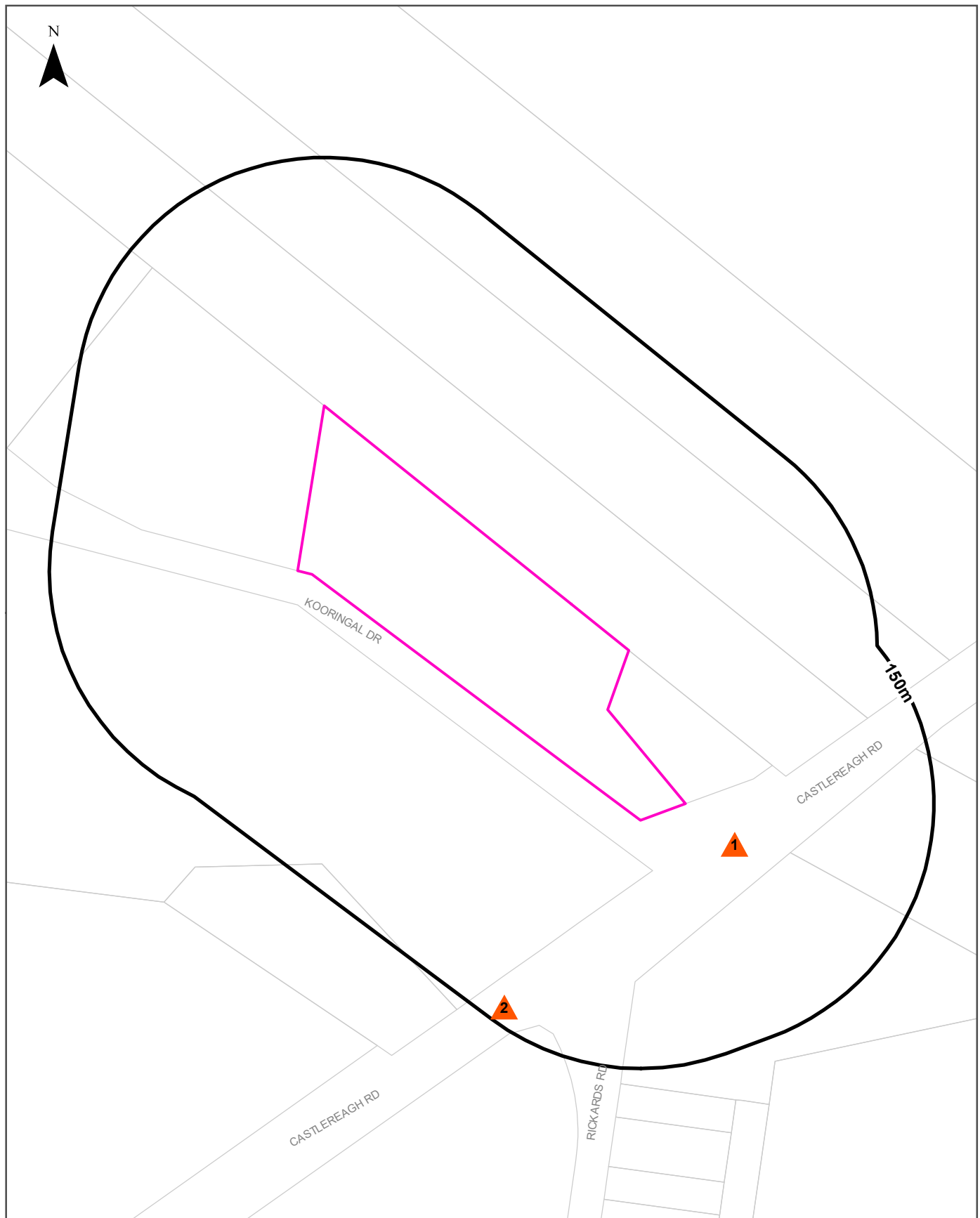
Former Licensed activities under the Protection of the Environment Operations Act 1997, now revoked or surrendered, within the dataset buffer:

Licence No	Organisation	Location	Status	Issued Date	Activity	Loc Conf	Distance	Direction
13070	SYDNEY WATER CORPORATION	Agnes Banks and Londonderry Sewerage Scheme including the townships of Agnes Banks and, LONDONDERRY, NSW, 2753	Surrendered	27/04/2009	Sewage treatment processing by small plants	General Area/ Suburb Match	0m	Onsite
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	Onsite
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	Onsite
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	Onsite
2257	P B WHITE MINERALS PTY LTD	END OF TORKINGTON ROAD, LONDONDERRY, NSW 2753	Surrendered	04/09/2000	Other Land-Based Extraction	Premise Match	599m	East

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

Historical Business Directories

682 Castlereagh Road, Agnes Banks, NSW 2753



Legend <ul style="list-style-type: none"> 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: 16 March 2020
Data Sources: Reproduced with permission of UBD and Hardie Grant Media Pty Ltd DD 01/08/2018 Property Boundaries © NSW Department Finance, Services & Innovation 2020			

Historical Business Directories

682 Castlereagh Road, Agnes Banks, NSW 2753

Business Directory Records 1950-1991 Premise or Road Intersection Matches

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

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

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

Business Directory Records 1950-1991 Road or Area Matches

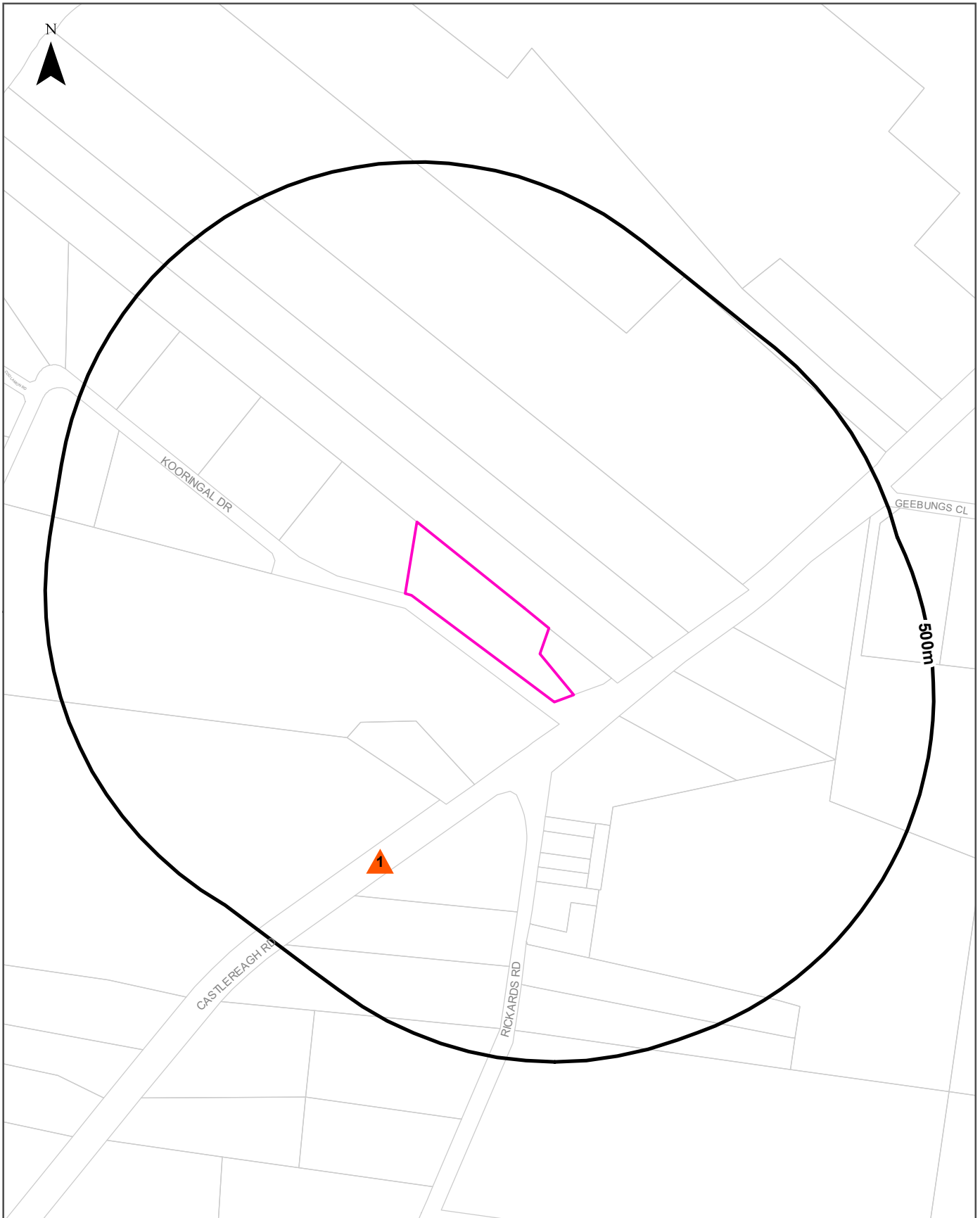
Universal Business Directory records from years 1991, 1986, 1982, 1970, 1961 & 1950, mapped to a road or an area, within the dataset buffer. Records are mapped to the road when a building number is not supplied, cannot be found, or the road has been renumbered since the directory was published:

Map Id	Business Activity	Premise	Ref No.	Year	Location Confidence	Distance to Road Corridor or Area
1	Veterinary Supplies &/or Instruments	Nature Vet Pty Ltd, 11 Castlereagh Rd Agnes Banks 2753	65677	1991	Road Match	0m
	Veterinary Supplies &/or Instruments	R W R Beterinary Products Pty Ltd, 11 Castlereagh Rd Agnes Banks 2753	65682	1991	Road Match	0m
2	Motor Garages & Service Stations	Doherty, P & M Transport, 122 Castlereagh Rd, Castlereagh 2749	53687	1991	Road Match	125m
	GRAVEL, SAND & SOIL SUPPLIES	Nepean Sand & Gravel Co. Pty. Ltd., Castlereagh Rd. Castlereagh	535345	1970	Road Match	125m
	GRAVEL, SAND & SOIL SUPPLIES	Nepean Sand & Gravel Co. Pty. Ltd., Castlereagh Rd., Castlereagh	194150	1961	Road Match	125m
	MIXED BUSINESSES	Young, G. W., Castlereagh Rd., Castlereagh	194151	1961	Road Match	125m
	MOTOR BUS SERVICES	Young, G. W., Castlereagh Rd., Castlereagh	194152	1961	Road Match	125m
	MOTOR OIL & SPIRIT DEPOTS	Young, G. W., Castlereagh Rd., Castlereagh	194153	1961	Road Match	125m

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

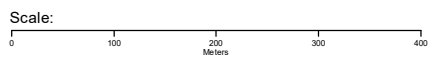
Dry Cleaners, Motor Garages & Service Stations

682 Castlereagh Road, Agnes Banks, NSW 2753



Legend

- Site Boundary
- Buffer 500m
- 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



Coordinate System:
GDA 1994 MGA Zone 56

Date: 16 March 2020

Data Sources: Reproduced with permission of UBD and Hardie Grant Media Pty Ltd DD 01/08/2018
Property Boundaries © NSW Department Finance, Services & Innovation 2020

Historical Business Directories

682 Castlereagh Road, Agnes Banks, NSW 2753

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
	No records in buffer						

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

Dry Cleaners, Motor Garages & Service Stations 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.

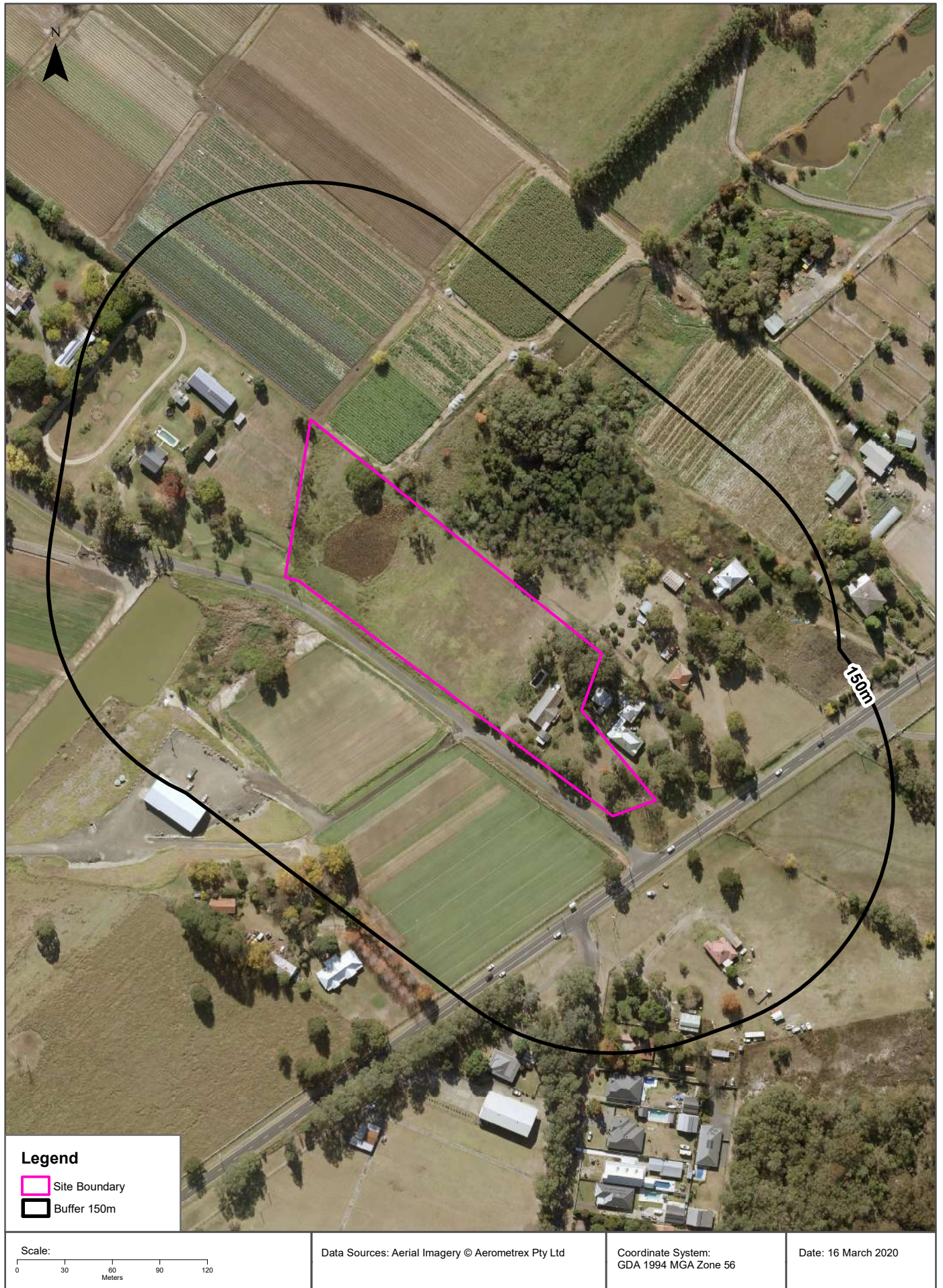
Note: The Universal Business Directories were published between 1948 and 1993. Dry Cleaners, Motor Garages & Service Stations have been extracted from all of these directories except the following years 1951, 1955, 1957, 1960, 1963, 1973, 1974, 1977, 1987.

Map Id	Business Activity	Premise	Ref No.	Year	Location Confidence	Distance to Road Corridor or Area
1	MOTOR GARAGES & SERVICE STATIONS.	Doherty P & M Transport, 122 Castlereagh Rd., Castlereagh. 2749	18900	1993	Road Match	125m
	Motor Garages & Service Stations	Doherty, P & M Transport, 122 Castlereagh Rd, Castlereagh 2749	53687	1991	Road Match	125m

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

Aerial Imagery 2019

682 Castlereagh Road, Agnes Banks, NSW 2753



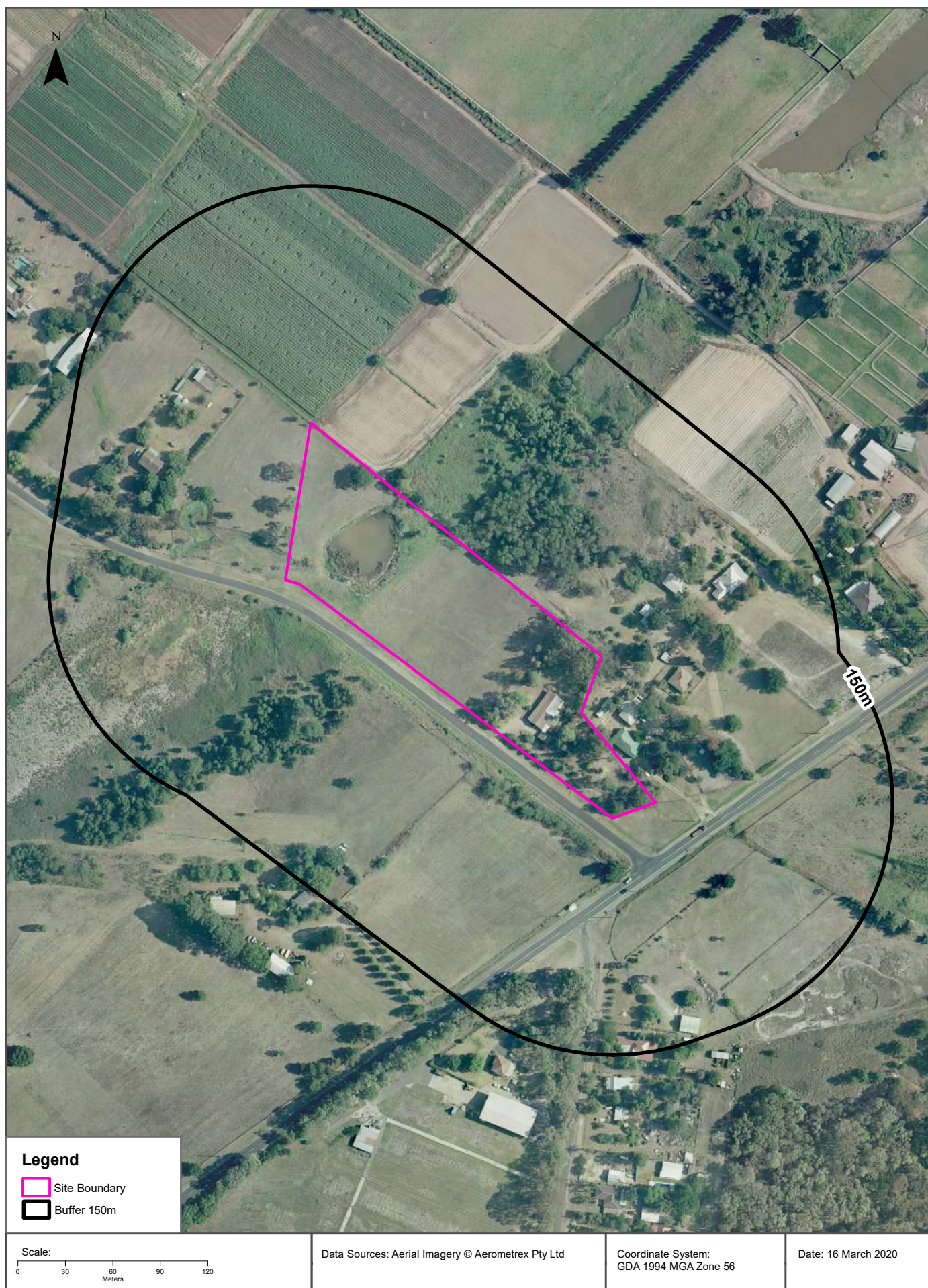
Aerial Imagery 2014

682 Castlereagh Road, Agnes Banks, NSW 2753





Aerial Imagery 2007

682 Castlereagh Road, Agnes Banks, NSW 2753



Legend

-  Site Boundary
-  Buffer 150m

Scale:
0 30 60 90 120
Meters

Data Sources: Aerial Imagery © Aerometrex Pty Ltd

Coordinate System:
GDA 1994 MGA Zone 56

Date: 16 March 2020

Aerial Imagery 2005

682 Castlereagh Road, Agnes Banks, NSW 2753



Aerial Imagery 1991

682 Castlereagh Road, Agnes Banks, NSW 2753



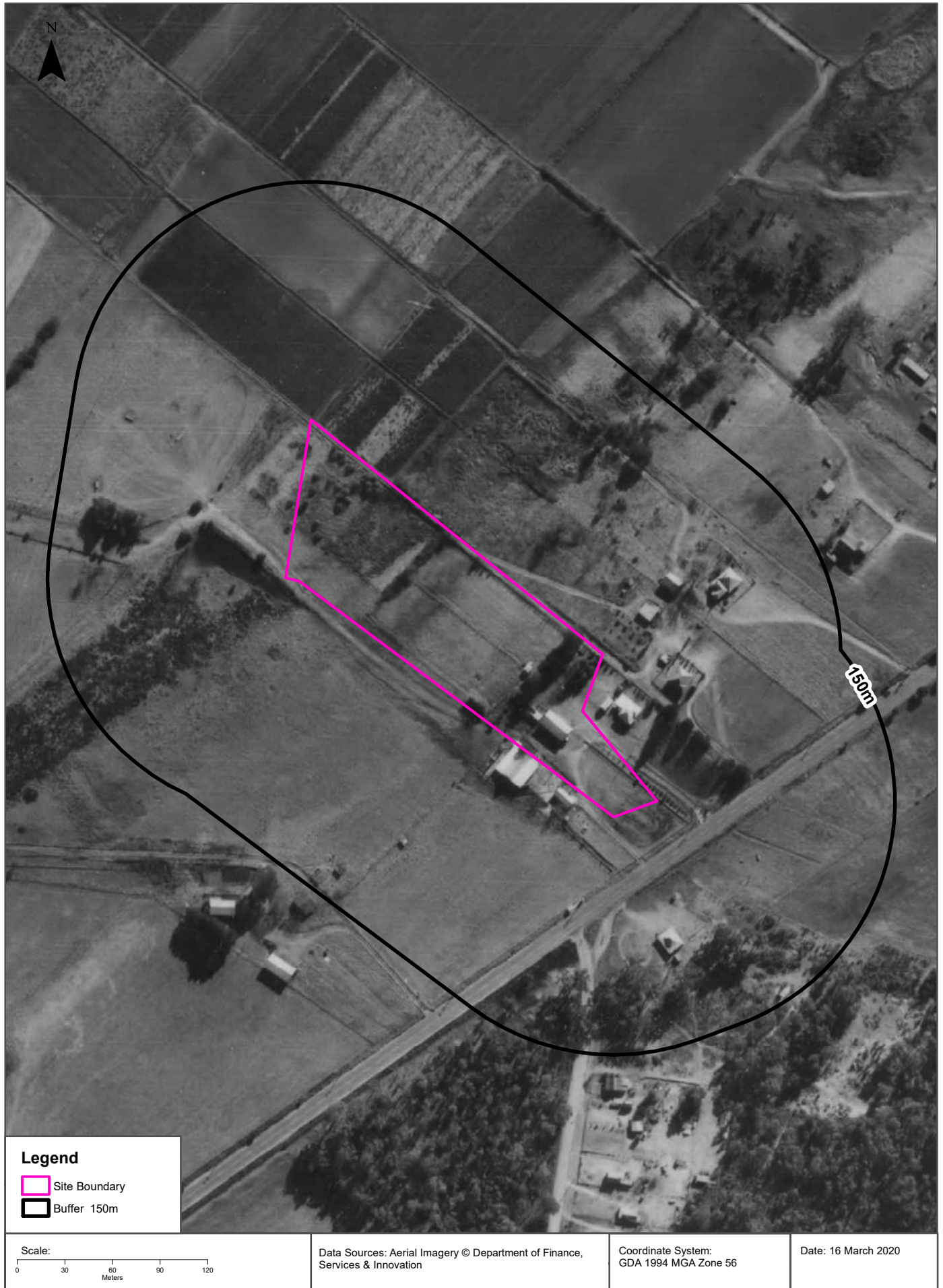
Aerial Imagery 1982

682 Castlereagh Road, Agnes Banks, NSW 2753



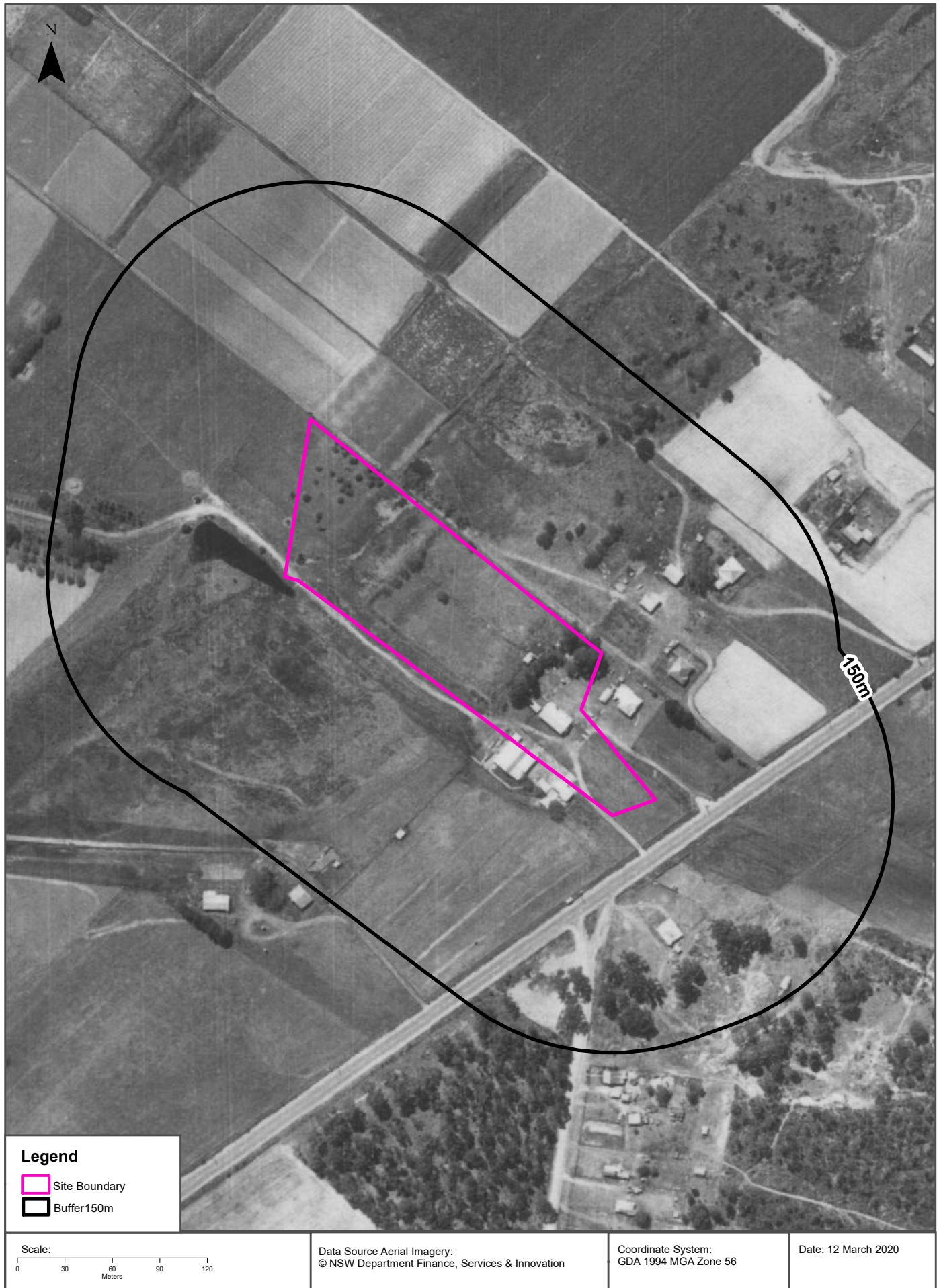
Aerial Imagery 1970

682 Castlereagh Road, Agnes Banks, NSW 2753



Aerial Imagery 1965

682 Castlereagh Road, Agnes Banks, NSW 2753



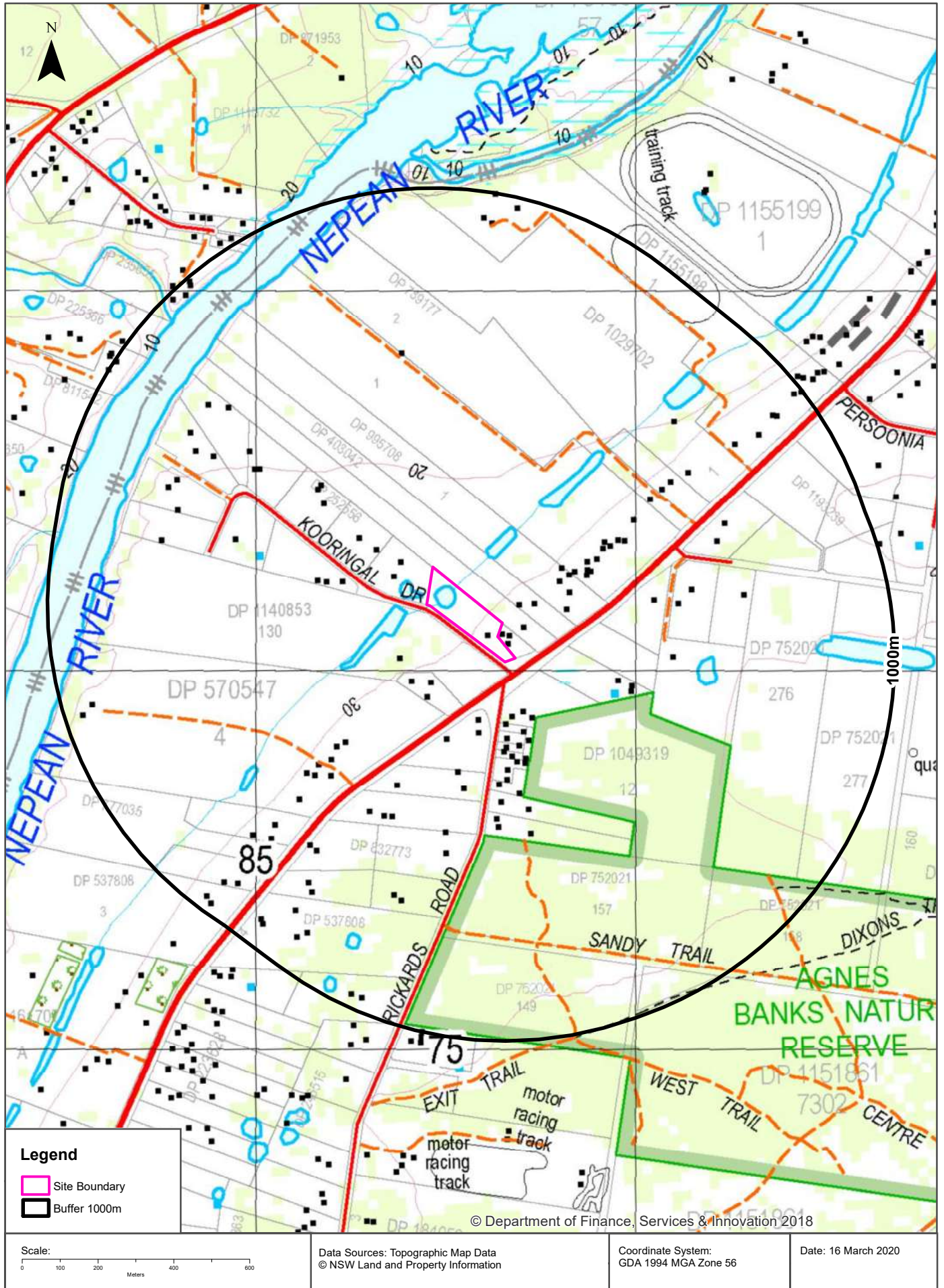
Aerial Imagery 1961

682 Castlereagh Road, Agnes Banks, NSW 2753



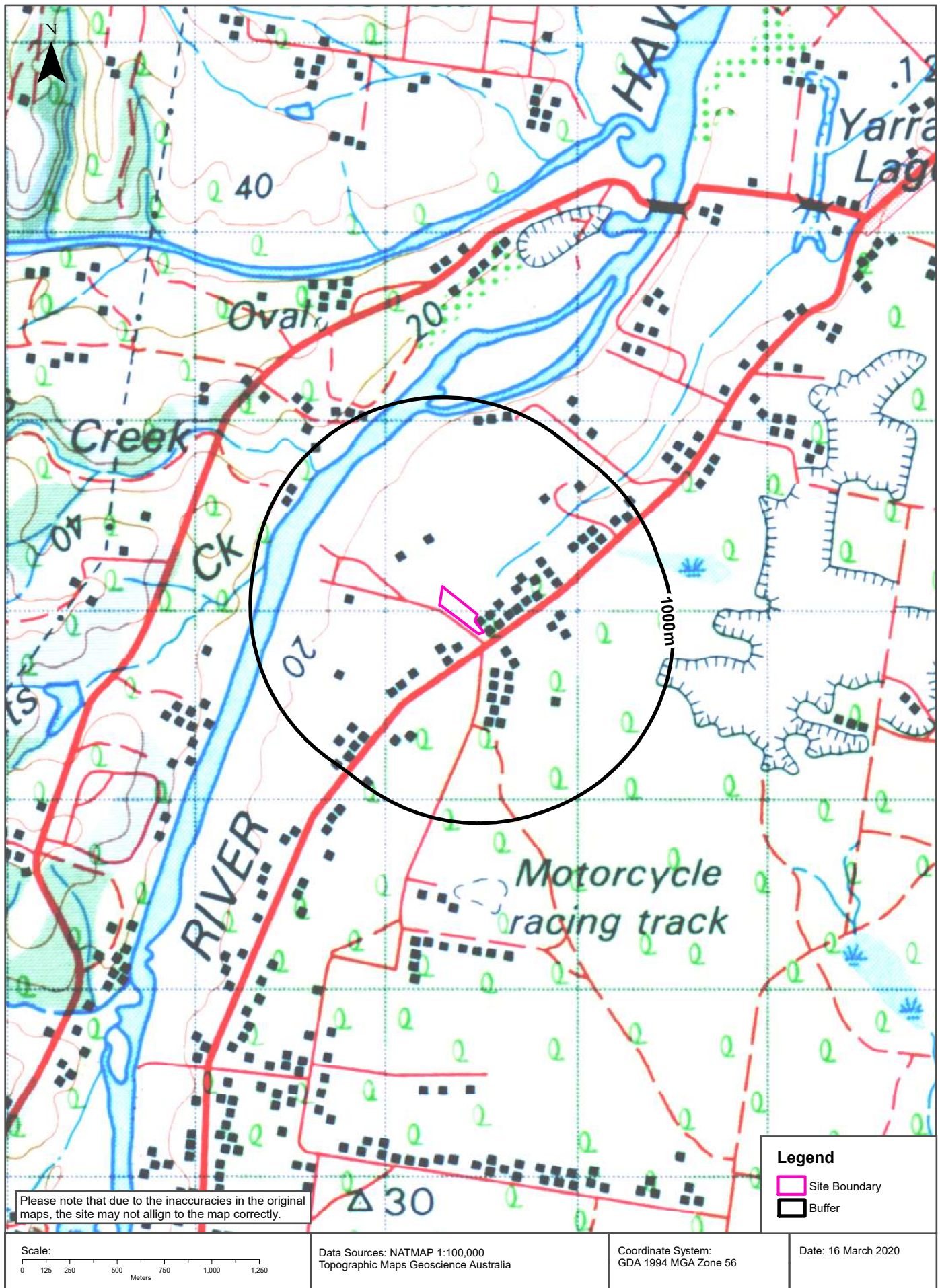
Topographic Map 2015

682 Castlereagh Road, Agnes Banks, NSW 2753



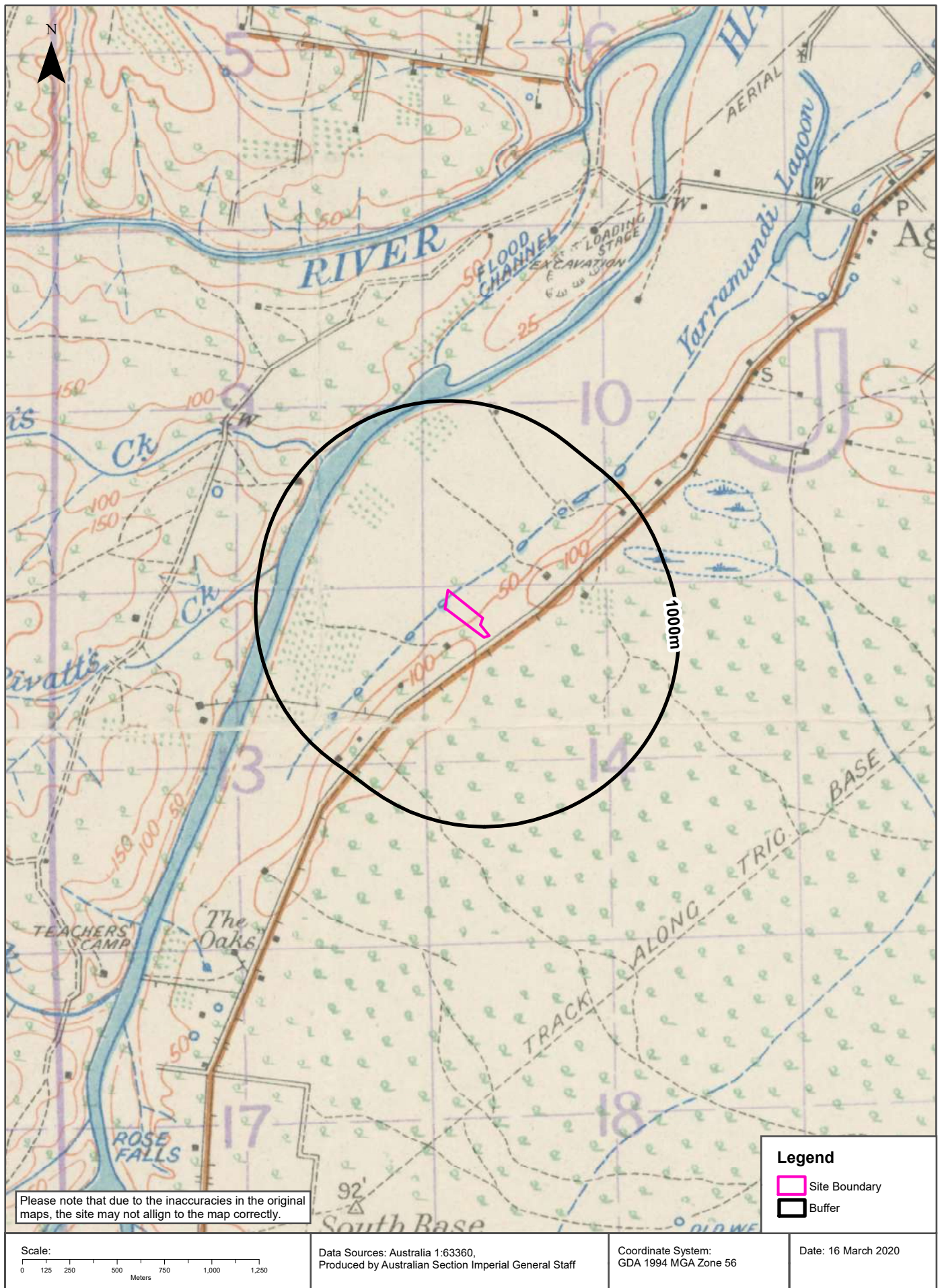
Historical Map 1975

682 Castlereagh Road, Agnes Banks, NSW 2753



Historical Map c.1929

682 Castlereagh Road, Agnes Banks, NSW 2753



Topographic Features

682 Castlereagh Road, Agnes Banks, NSW 2753

Points of Interest

What Points of Interest exist within the dataset buffer?

Map Id	Feature Type	Label	Distance	Direction
N/A				

Topographic Data Source: © Land and Property Information (2015)
Creative Commons 3.0 © Commonwealth of Australia <http://creativecommons.org/licenses/by/3.0/au/deed.en>

Topographic Features

682 Castlereagh Road, Agnes Banks, NSW 2753

Tanks (Areas)

What are the Tank Areas located within the dataset buffer?

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

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

Tanks (Points)

What are the Tank Points located within the dataset buffer?

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

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

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

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Major Easements

What Major Easements exist within the dataset buffer?

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

Map Id	Easement Class	Easement Type	Easement Width	Distance	Direction
N/A	No records in buffer				

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

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Topographic Features

682 Castlereagh Road, Agnes Banks, NSW 2753

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

National Parks and Wildlife Service Reserves

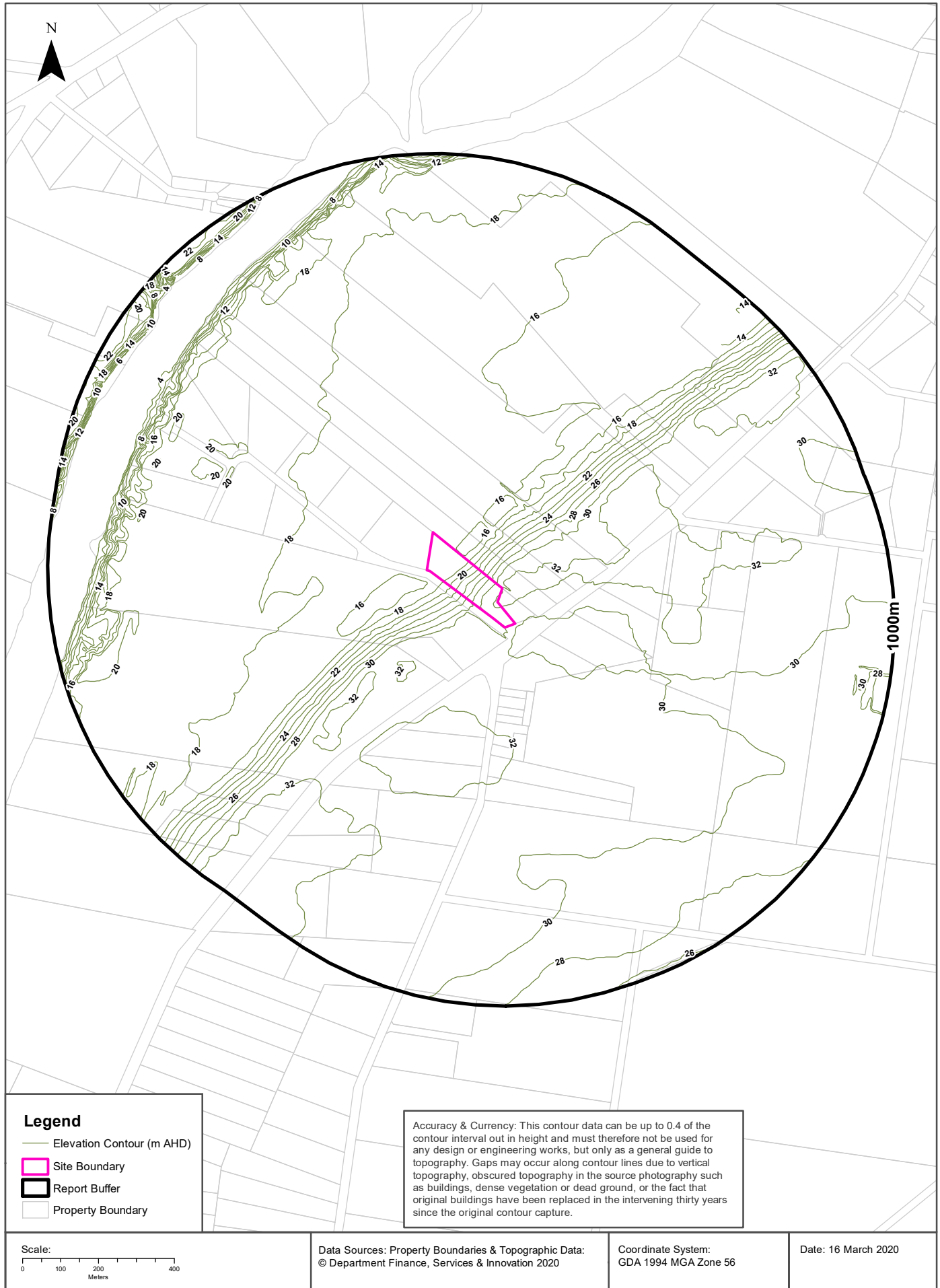
What NPWS Reserves exist within the dataset buffer?

Reserve Number	Reserve Type	Reserve Name	Gazetted Date	Distance	Direction
N0546	NATURE RESERVE	Agnes Banks Nature Reserve	26/03/1982	165m	South East

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

682 Castlereagh Road, Agnes Banks, NSW 2753



Hydrogeology & Groundwater

682 Castlereagh Road, Agnes Banks, NSW 2753

Hydrogeology

Description of aquifers on-site:

Description
Porous, extensive highly productive aquifers

Description of aquifers within the dataset buffer:

Description
Porous, extensive aquifers of low to moderate productivity
Porous, extensive highly productive aquifers

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

Botany Groundwater Management Zones

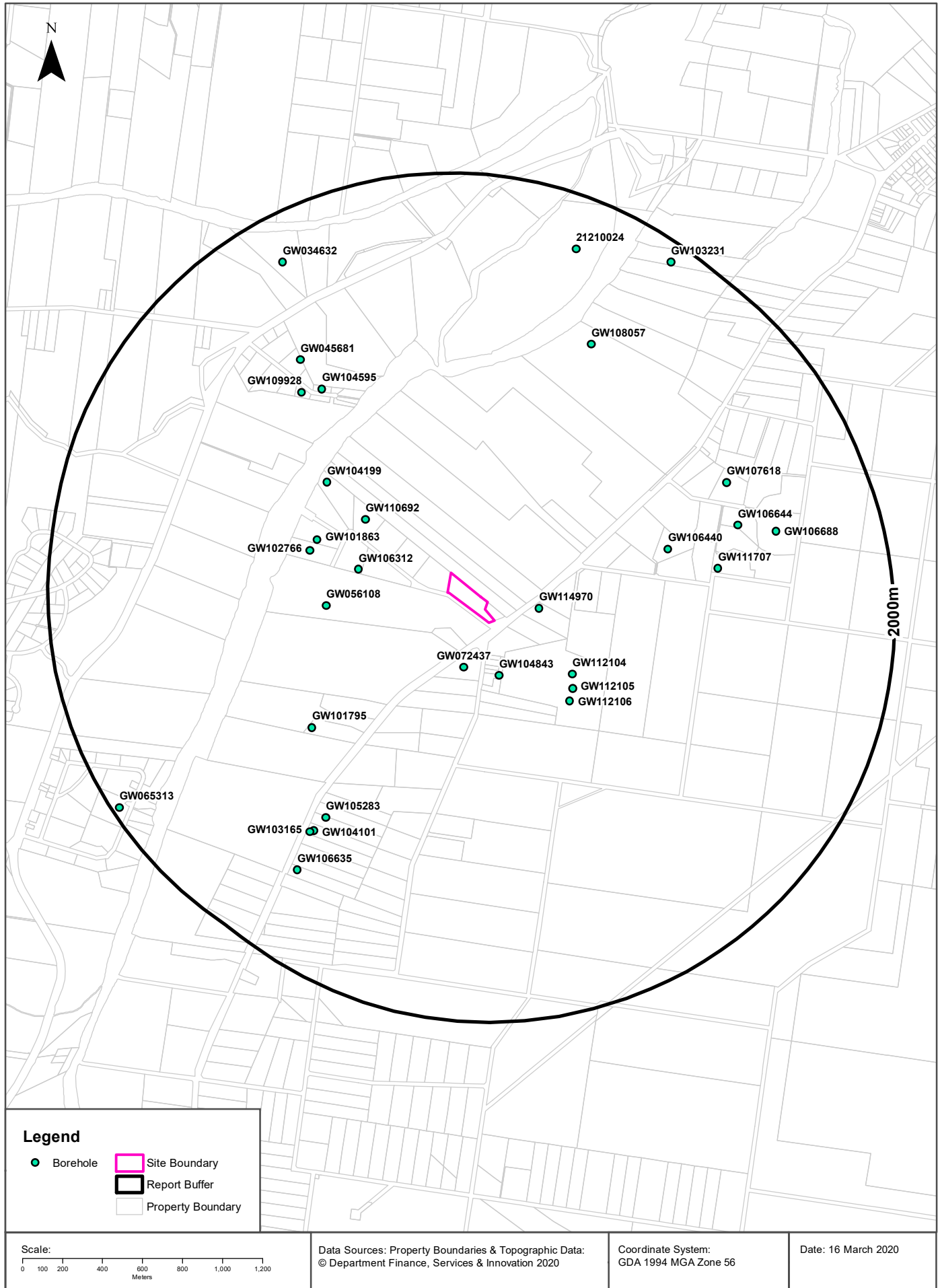
Groundwater management zones relating to the Botany Sand Beds aquifer within the dataset buffer:

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

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

Groundwater Boreholes

682 Castlereagh Road, Agnes Banks, NSW 2753



Hydrogeology & Groundwater

682 Castlereagh Road, Agnes Banks, NSW 2753

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
GW114 970	10WA11 9135	Bore	Private	Domestic	Domestic		05/02/2015	174.00	174.00		29.00	0.250		233m	East
GW072 437	10BL156 098, 10WA11 2645	Bore	Private	Domestic	Domestic		08/11/1994	24.00	24.00	60	9.00	0.400		257m	South
GW104 843	10BL159 689, 10WA10 8461	Bore	Private	Domestic, Stock	Domestic, Stock		01/01/2002	4.00	4.00		10.00	0.555		269m	South
GW106 312	10BL162 016	Bore	Private	Domestic, Stock	Domestic		16/05/2003	18.00	18.00			0.600		458m	West
GW112 104	10BL156 746	Bore	Private	Monitoring Bore	Monitoring Bore		25/06/1996	13.00	13.00					474m	South East
GW110 692	10BL601 201, 10WA11 2713	Bore	Private	Domestic, Stock	Domestic, Stock		14/03/2007	42.00	42.00	250	15.50	7.000		501m	North West
GW112 105	10BL156 746	Bore	Private	Monitoring Bore	Monitoring Bore		25/06/1996	11.50	11.50					518m	South East
GW112 106	10BL156 746	Bore	Private	Monitoring Bore	Monitoring Bore		25/06/1996	13.00	13.00					551m	South East
GW056 108	10BL121 843, 10WA11 2625	Bore	Private	Domestic, Stock	Domestic, Stock		01/11/1981	18.00	18.00					609m	West
GW101 863	10BL157 403, 10WA11 2663	Bore		Domestic, Stock	Domestic		01/01/1992	26.00	26.00			1.000		687m	West
GW102 766	10BL159 518, 10WA11 2675	Bore		Domestic, Stock	Domestic, Stock		24/01/2000	19.70	19.70	165				713m	West
GW104 199	10BL160 286, 10WA11 2679	Bore	Private	Domestic	Domestic		04/10/2001	20.30	20.30	200	6.00	0.900		766m	North West
GW106 440	10BL162 074, 10WA10 8565	Bore	Private	Domestic, Stock	Domestic, Stock		19/09/2003	55.00	55.00	160	14.00	1.900		940m	East
GW101 795	10BL157 230, 10WA11 2661	Bore		Domestic, Stock	Domestic, Stock		12/03/1996	27.50	27.50	200	6.00	0.370		957m	South West
GW104 595	10BL160 429, 10WA11 2681	Bore	Private	Domestic	Domestic		12/01/2002	120.00	120.00		46.00	0.700		1122m	North West
GW111 707	10BL600 755, 10WA10 9114	Bore	Private	Stock	Stock		01/01/2009	60.00	60.00			2.000		1148m	East
GW109 928	10BL602 672, 10WA11 2719	Bore	Private	Domestic, Stock	Domestic, Stock		10/09/2008	66.00	66.00	350	32.00	0.300		1169m	North West

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
GW105 283	10BL161 816, 10WA11 2688	Bore		Domestic, Stock	Domestic, Stock		07/05/2003	120.30	120.30	205	40.00	0.400		1269m	South West
GW045 681	10BL105 874, 10WA11 2619	Bore	Private	Domestic, Stock	General Use		01/02/1977	48.80	48.80	501-1000 ppm				1302m	North West
GW106 644	10BL163 969, 10WA10 8811	Bore		Domestic			16/11/2005							1308m	East
GW107 618	10BL164 444, 10WA10 8885	Bore	Private	Domestic, Stock	Domestic, Stock		29/09/2005	23.00	23.00	50	12.00	0.700		1338m	North East
GW108 057	10BL162 532, 10BL600 253, 10WA11 2708	Bore		Stock, Test Bore	Stock		02/12/2003	60.00	60.00	600	9.00	3.000		1342m	North East
GW104 101	10BL159 947, 10BL160 038, 10WA11 2769	Bore		Domestic, Industrial, Stock	Industrial		10/01/2001	144.00	144.00	210				1356m	South West
GW103 165	10BL159 786, 10BL159 882, 10WA11 2769	Bore	Private	Domestic, Industrial, Stock	Industrial		21/08/2000	20.00	21.60	95	9.00	0.200		1374m	South West
GW106 688	10BL164 407, 10WA10 8879	Bore	Private	Domestic, Stock	Domestic, Stock		18/11/2004	20.00	20.00	50	9.50	0.600		1478m	East
GW106 635	10BL163 058, 10BL165 990, 10CA10 9467	Bore		Irrigation, Test Bore	Irrigation		16/04/2004	174.00	174.00	180	44.00	3.000		1563m	South West
212100 24					UNK								9.44	1736m	North
GW034 632	10BL028 919, 10WA11 2617	Bore open thru rock	Private	Domestic	General Use		01/11/1971	76.20	76.20					1767m	North West
GW103 231	10BL157 386, 10WA11 2662	Bore		Stock	Domestic, Stock		20/01/1996	19.80	19.80	240				1904m	North East
GW065 313		Bore open thru rock	Private		Domestic, Stock		14/06/1988	54.00						1961m	South West

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

Hydrogeology & Groundwater

682 Castlereagh Road, Agnes Banks, NSW 2753

Driller's Logs

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

Groundwater No	Drillers Log	Distance	Direction
GW114970	0.00m-2.00m SAND 2.00m-14.00m CLAY BROWN 14.00m-21.00m SAND / GRAVEL 21.00m-27.00m SHALE 27.00m-125.00m SHALE / SANDSTONE 125.00m-133.00m SHALE 133.00m-148.00m SANDSTONE / SHALE 148.00m-174.00m SANDSTONE / QUARTZ	233m	East
GW072437	0.00m-2.50m LOAM/SAND 2.50m-17.80m GREY/RED CLAYS 17.80m-18.10m ALLUVIAL GRAVELS (ROUNDED) 18.10m-21.40m ALLUVIAL RIDGE GRAVELS (IRREGULAR)SLIGHT CLAY/SANDY MATRIX 21.40m-24.00m LIGHT BASALT	257m	South
GW106312	0.00m-6.00m sand 6.00m-9.00m gravel 9.00m-12.00m sand, clay 12.00m-17.00m gravel 17.00m-18.00m conglomerate	458m	West
GW110692	0.00m-2.00m SAND/CLAY 2.00m-10.00m SAND 10.00m-15.50m SAND/GRAVEL 15.50m-18.00m SANDSTONE YELLOW 18.00m-42.00m SANDSTONE / SHALE	501m	North West
GW056108	0.00m-11.00m Silt Sandy 11.00m-18.00m Gravel River Water Bearing	609m	West
GW102766	0.00m-10.50m TOPSOIL 10.50m-16.00m SAND LOAM 16.00m-16.50m CLAY DARK 16.50m-19.30m GRAVELS COARSE RIVER 19.30m-19.70m SANDSTONE WHITE M.G.	713m	West
GW104199	0.00m-0.60m SOIL 0.60m-10.60m FINE SAND 10.60m-16.70m DRY GRAVEL 16.70m-20.00m WET GRAVEL 20.00m-20.30m SHALE	766m	North West
GW106440	0.00m-1.00m sand 1.00m-13.00m clay 13.00m-20.00m sand, gravel 20.00m-41.00m shale 41.00m-55.00m sandstone	940m	East
GW101795	0.00m-0.50m SOIL (LOAM) 0.50m-6.50m SAND GREY 6.50m-12.00m SAND WHITE 12.00m-21.00m SANDSTONE, SOFT 21.00m-22.00m SAND, FINE 22.00m-27.50m SANDSTONE, COARSER	957m	South West
GW104595	0.00m-1.50m BROWN SHALE 1.50m-5.00m GREY SHALE 5.00m-11.00m SANDSTONE 11.00m-35.00m BROWN SHALE 35.00m-61.00m SANDSTONE 61.00m-65.00m SHALE 65.00m-120.00m SANDSTONE	1122m	North West
GW109928	0.00m-2.00m SAND/CLAY/IRONSTONE 2.00m-41.00m SANDSTONE YELLOW 41.00m-66.00m SANDSTONE/SHALE SEAMS	1169m	North West

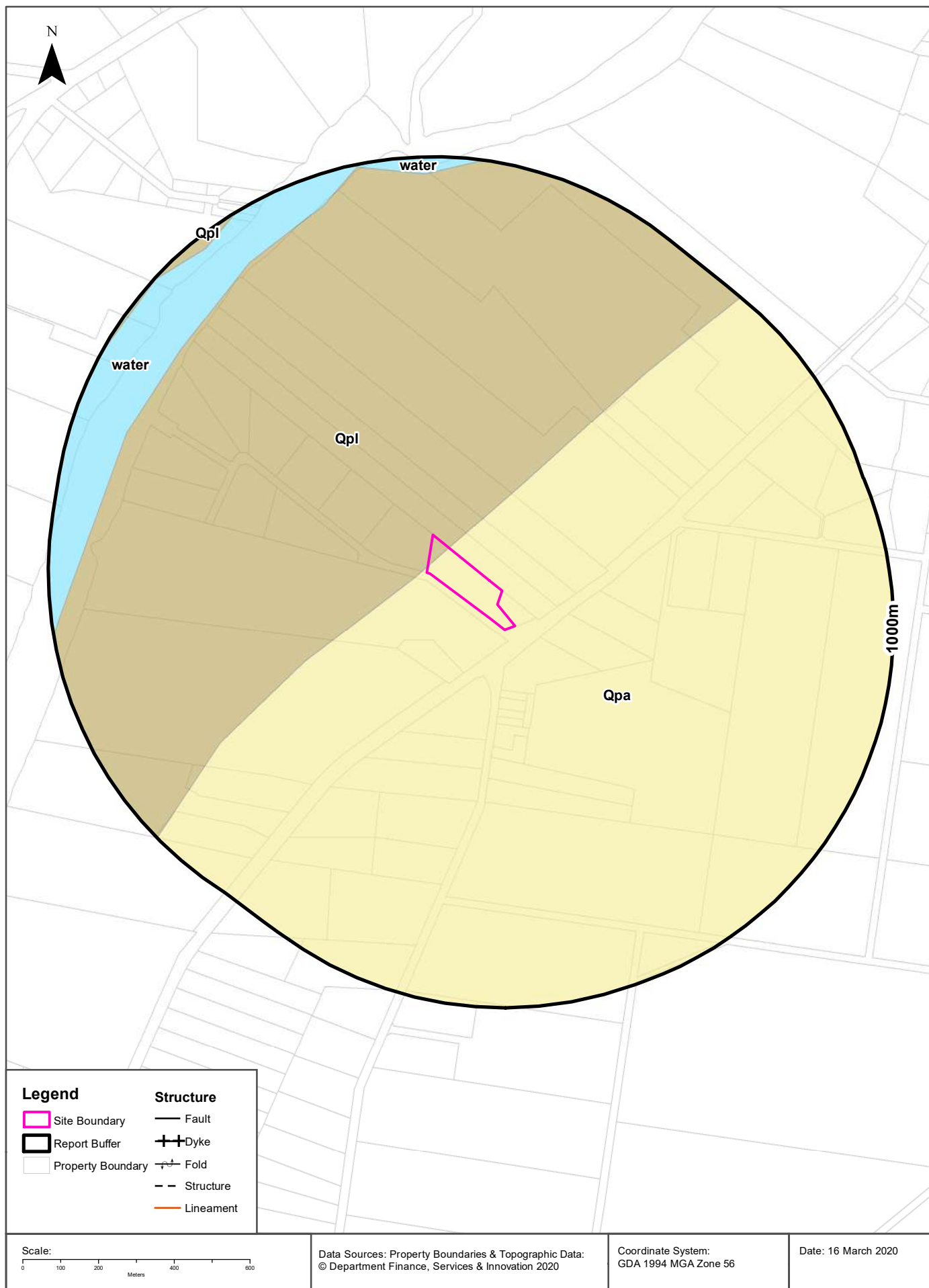
Groundwater No	Drillers Log	Distance	Direction
GW105283	0.00m-0.20m TOPSOIL 0.20m-1.00m SANDS LT BROWN 1.00m-11.20m CLAY BROWN GREY RED 11.20m-15.20m CLAY YELLOW 15.20m-18.70m ALLUVIAL GRAVELS 18.70m-24.30m SANDSTONE BROWN GREY COURSE 24.30m-59.30m SANDSTONE GREY COURSE GRAIN 59.30m-62.80m QUARTZ (W) 62.80m-76.80m SANDSTONE GREY TO DARK GREY 76.80m-81.80m SANDSTONE AND QUARTZ (W) 81.80m-86.80m SANDSTONE GREY 86.80m-87.00m SANDSTONE FRACTURED (W) 87.00m-96.30m SANDSTONE GREY /LT GREY 96.30m-120.30m SANDSTONE LT GREY FINE GRAIN	1269m	South West
GW045681	0.00m-1.00m Clay Sandy 1.00m-2.30m Rock Clay 2.30m-28.00m Sand Multicoloured 28.00m-29.50m Sand 29.50m-42.25m Sand Silty 42.25m-43.25m Sand Shaley 43.25m-46.00m Sand Dark 46.00m-46.90m Sand Coarse 46.90m-48.75m Sand Silty	1302m	North West
GW107618	0.00m-2.00m fill 2.00m-4.00m clay/sand 4.00m-11.00m sand 11.00m-17.00m clay 17.00m-22.50m sand/gravel 22.50m-23.00m shale	1338m	North East
GW108057	0.00m-14.00m SAND 14.00m-30.00m SHALE 30.00m-60.00m SANDSTONE	1342m	North East
GW104101	0.00m-1.00m SANDY LOAM 1.00m-17.00m RED AND YELLOW CLAY 17.00m-19.00m ALLUVIAL GRAVELS 19.00m-20.50m WEATHERED BROWN SANDSTONE 20.50m-23.00m LT GREY SANDSTONE 23.00m-27.00m DARK GREY SANDSTONE 27.00m-33.00m LT GREY WHITE SANDSTONE 33.00m-60.00m LT GREY SANDSTONE M.G. 60.00m-61.15m LT GREY SILTSTONE 61.15m-63.00m WHITE SANDSTONE M.G. 63.00m-64.50m LT GREY SILTSTONE 64.50m-80.00m LT GREY CEMENTED SANDSTONE 80.00m-81.00m WHITE SANDSTONE M.G. 81.00m-88.00m LT GREY SANDSTONE M.G. 88.00m-100.00m DARK GREY SANDSTONE M.G. 100.00m-112.00m LT GREY SANDSTONE M.G. 112.00m-120.00m DARK GREY SANDSTONE F.M.G. 120.00m-130.00m LT GREY SANDSTONE M.G. 130.00m-133.00m WHITE SANDSTONE M.G. WITH QUARTZ 133.00m-140.00m LT GREY TO WHITE SANDSTONE 140.00m-144.00m LT GREY SANDSTONE SOFT M.G.	1356m	South West
GW103165	0.00m-1.50m SANDY LOAM 1.50m-3.00m YELLOW CLAY 3.00m-17.30m RED BROWN CLAY 17.30m-20.00m SMALL ALUVIAL GRAVELS WITH SAND 20.00m-21.60m LT GREY TO WHITE SANDSTONE M.G.	1374m	South West
GW106688	0.00m-15.00m Sand/Clay 15.00m-19.50m gravel 19.50m-20.00m shale	1478m	East
GW106635	0.00m-2.00m SAND 2.00m-17.00m CLAY/SAND 17.00m-24.00m SANDSTONE SOFT 24.00m-58.00m SANDSTONE WHITE 58.00m-82.00m SANDSTONE/SHALE 82.00m-84.00m SHALE 84.00m-148.00m SANDSTONE 148.00m-154.00m SANDSTONE/QUARTZITE 154.00m-157.00m SANDSTONE/SHALE 157.00m-159.00m SHALE 159.00m-161.00m SANDSTONE/SHALE 161.00m-169.00m SANDSTONE/QUARTZITE 169.00m-170.00m SHALE 170.00m-174.00m SANDSTONE	1563m	South West

Groundwater No	Drillers Log	Distance	Direction
GW034632	0.00m-0.91m Topsoil 0.91m-3.96m Claystone 3.96m-35.05m Sandstone Yellow 35.05m-36.58m Sandstone Water Supply 36.58m-52.43m Sandstone Silty 52.43m-54.86m Sandstone Water Supply 54.86m-59.74m Sandstone Shaley 59.74m-61.57m Sandstone White Water Supply 61.57m-64.01m Sandstone Shaley 64.01m-70.10m Sandstone Very Silty 70.10m-71.93m Sandstone Shaley 71.93m-76.20m Sandstone Silty	1767m	North West
GW103231	0.00m-1.00m SOIL 1.00m-7.50m LOAM/SAND 7.50m-12.50m SAND/COURSE 12.50m-16.50m GRAVEL/SAND 16.50m-17.50m SANDSTONE SOFT 17.50m-19.80m SHALE	1904m	North East

Drill Log Data Source: NSW Department of Primary Industries - Office of Water / Water Administration Ministerial Corp
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Geology 1:100,000

682 Castlereagh Road, Agnes Banks, NSW 2753



Geology

682 Castlereagh Road, Agnes Banks, NSW 2753

Geological Units

What are the Geological Units onsite?

Symbol	Description	Unit Name	Group	Sub Group	Age	Dom Lith	Map Sheet	Dataset
Qpa	Quartz sand (limonite coated), minor clay, clay-sized quartz	Agnes Banks Sand			Quaternary		Penrith	1:100,000
Qpl	Gravel, sand, silt, clay	Lowlands Formation			Quaternary		Penrith	1:100,000

What are the Geological Units within the dataset buffer?

Symbol	Description	Unit Name	Group	Sub Group	Age	Dom Lith	Map Sheet	Dataset
Qpa	Quartz sand (limonite coated), minor clay, clay-sized quartz	Agnes Banks Sand			Quaternary		Penrith	1:100,000
Qpl	Gravel, sand, silt, clay	Lowlands Formation			Quaternary		Penrith	1:100,000
water							Penrith	1:100,000

Geological Structures

What are the Geological Structures onsite?

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

What are the Geological Structures within the dataset buffer?

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

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

© State of New South Wales through the NSW Department of Industry, Resources & Energy

Naturally Occurring Asbestos Potential

682 Castlereagh Road, Agnes Banks, NSW 2753

Naturally Occurring Asbestos Potential

Naturally Occurring Asbestos Potential within the dataset buffer:

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

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



Legend Site Boundary Report Buffer Property Boundary		Australian Soil Classification Orders <table border="0"> <tr> <td> Anthroposol</td> <td> Dermosol</td> <td> Kandosol</td> <td> Podosol</td> <td> Tenosol</td> <td> No Data</td> </tr> <tr> <td> Calcarosol</td> <td> Ferrosol</td> <td> Kurosol</td> <td> Rudosol</td> <td> Vertosol</td> <td></td> </tr> <tr> <td> Chromosol</td> <td> Hydrosol</td> <td> Organosol</td> <td> Sodosol</td> <td> Lake</td> <td></td> </tr> </table>						Anthroposol	Dermosol	Kandosol	Podosol	Tenosol	No Data	Calcarosol	Ferrosol	Kurosol	Rudosol	Vertosol		Chromosol	Hydrosol	Organosol	Sodosol	Lake	
Anthroposol	Dermosol	Kandosol	Podosol	Tenosol	No Data																				
Calcarosol	Ferrosol	Kurosol	Rudosol	Vertosol																					
Chromosol	Hydrosol	Organosol	Sodosol	Lake																					
Scale: 		Data Sources: Property Boundaries & Topographic Data: © Department Finance, Services & Innovation 2020		Coordinate System: GDA 1994 MGA Zone 56		Date: 16 March 2020																			

Soils

682 Castlereagh Road, Agnes Banks, NSW 2753

Atlas of Australian Soils

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

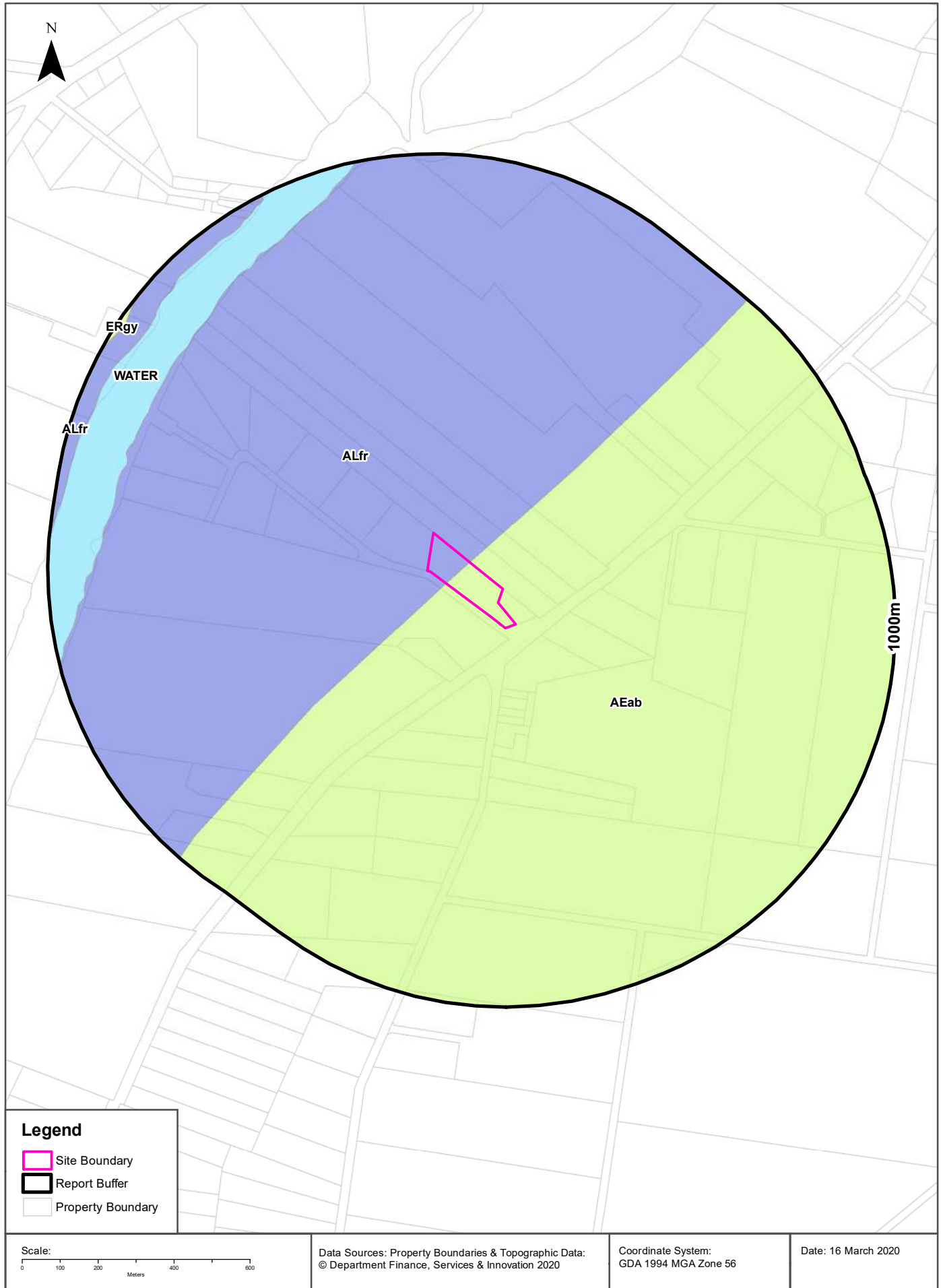
Map Unit Code	Soil Order	Map Unit Description	Distance
Gb6	Dermosol	Younger river terraces, present flood-plain, and swamps: chief soils are dark friable loamy soils (Um6.11), possibly with some (Gn2.8) soils on the terraces. Associated are various (Um) and (Uc) soils on the flood-plains and swamps. Area is subject to periodic inundation. As mapped, areas of units X9, Mb2, and Sp1 are included.	0m
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.	395m

Atlas of Australian Soils Data Source: CSIRO

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Soil Landscapes

682 Castlereagh Road, Agnes Banks, NSW 2753



Soils

682 Castlereagh Road, Agnes Banks, NSW 2753

Soil Landscapes

What are the onsite Soil Landscapes?

Soil Code	Name	Group	Process	Map Sheet	Scale
AEab	AGNES BANKS		AEOLIAN	Penrith	1:100,000
ALfr	FREEMANS REACH		ALLUVIAL	Penrith	1:100,000

What are the Soil Landscapes within the dataset buffer?

Soil Code	Name	Group	Process	Map Sheet	Scale
AEab	AGNES BANKS		AEOLIAN	Penrith	1:100,000
ALfr	FREEMANS REACH		ALLUVIAL	Penrith	1:100,000
ERgy	GYMEA		EROSIONAL	Penrith	1:100,000
WATER	WATER		WATER	Penrith	1:100,000

Soils Landscapes Data Source : NSW Office of Environment and Heritage

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Acid Sulfate Soils

682 Castlereagh Road, Agnes Banks, NSW 2753

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?

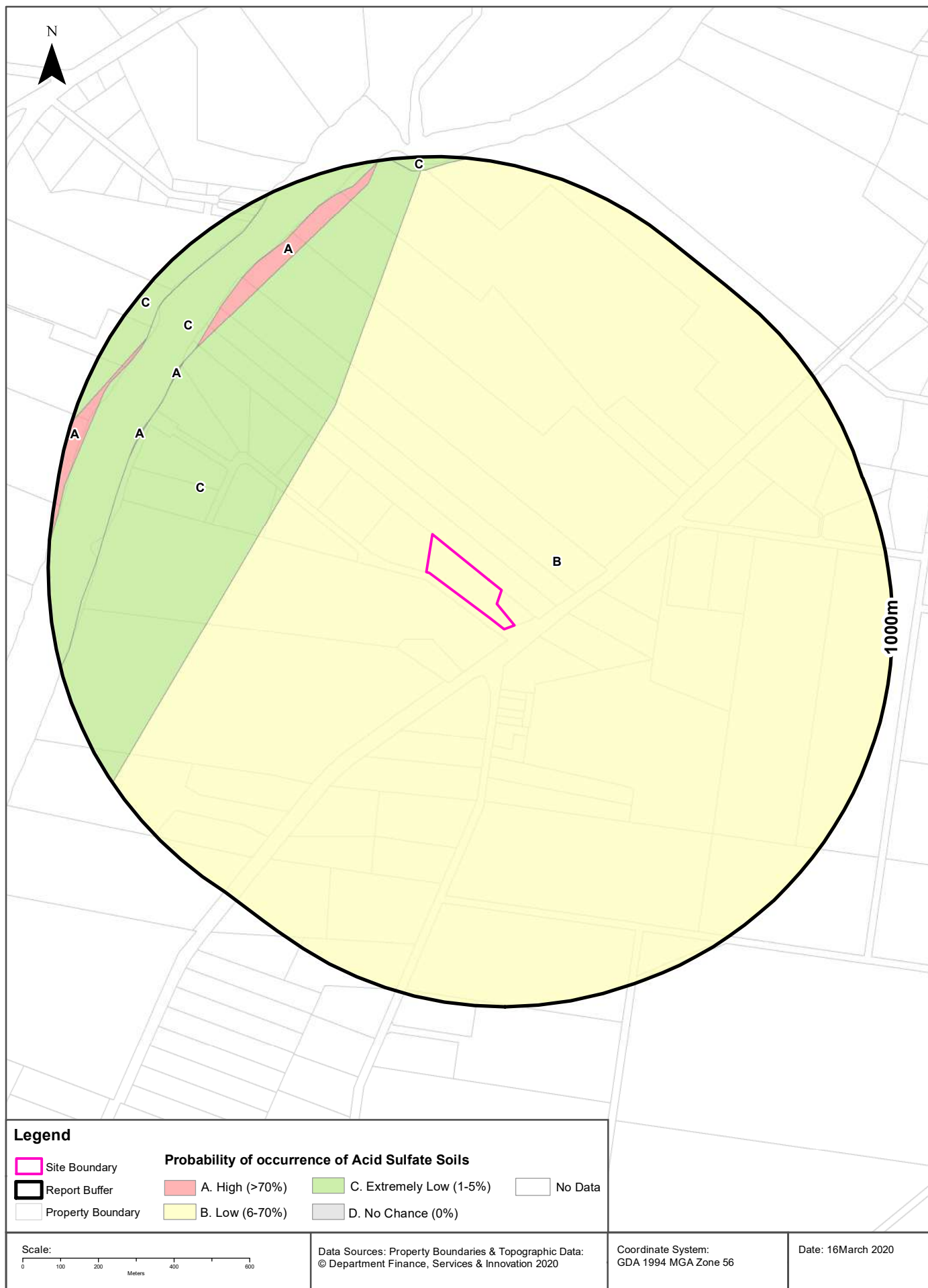
Soil Class	Description	EPI Name	Distance	Direction
N/A				

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Atlas of Australian Acid Sulfate Soils

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Acid Sulfate Soils

682 Castlereagh Road, Agnes Banks, NSW 2753

Atlas of Australian Acid Sulfate Soils

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

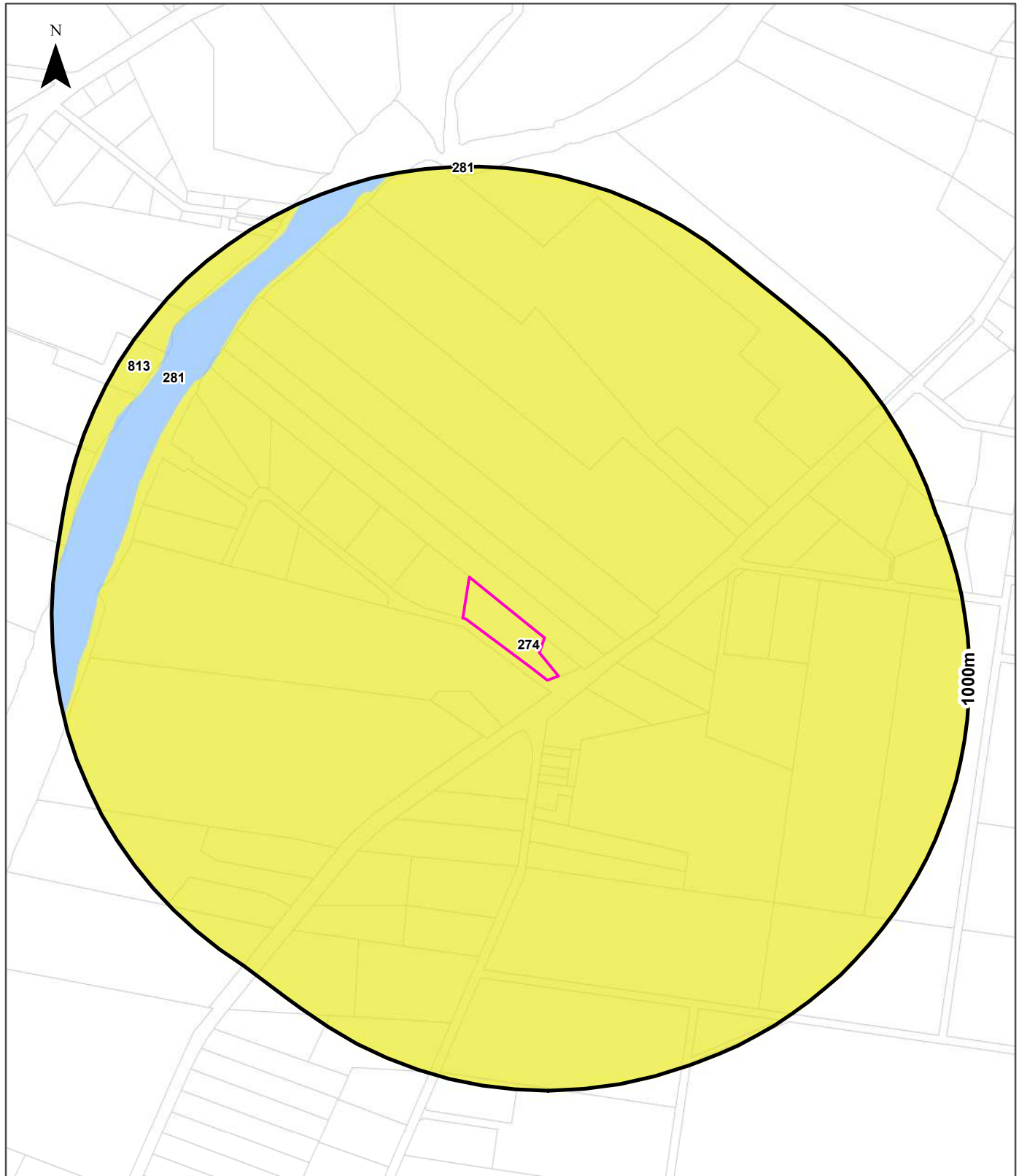
Class	Description	Distance
B	Low Probability of occurrence. 6-70% chance of occurrence.	0m
C	Extremely low probability of occurrence. 1-5% chance of occurrence with occurrences in small localised areas.	396m
A	High Probability of occurrence. >70% chance of occurrence.	789m

Atlas of Australian Acid Sulfate Soils Data Source: CSIRO

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Dryland Salinity

682 Castlereagh Road, Agnes Banks, NSW 2753



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

<p>Scale:</p>	<p>Data Sources: Property Boundaries & Topographic Data: © Department Finance, Services & Innovation 2020</p>	<p>Coordinate System: GDA 1994 MGA Zone 56</p>	<p>Date: 16 March 2020</p>
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Dryland Salinity

682 Castlereagh Road, Agnes Banks, NSW 2753

Dryland Salinity - National Assessment

Is there Dryland Salinity - National Assessment data onsite?

No

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

No

What Dryland Salinity assessments are given?

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

Dryland Salinity Data Source : National Land and Water Resources Audit

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

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

Dryland Salinity Potential of Western Sydney

Dryland Salinity Potential of Western Sydney within the dataset buffer?

Feature Id	Classification	Description	Distance	Direction
274	MODERATE	Area of Moderate Salinity Potential	0m	Onsite
281	WATER	Area of Water	811m	South East
813	MODERATE	Area of Moderate Salinity Potential	910m	North East

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

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Mining Subsidence Districts

682 Castlereagh Road, Agnes Banks, NSW 2753

Mining Subsidence Districts

Mining Subsidence Districts within the dataset buffer:

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

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

682 Castlereagh Road, Agnes Banks, NSW 2753

State Significant Precincts

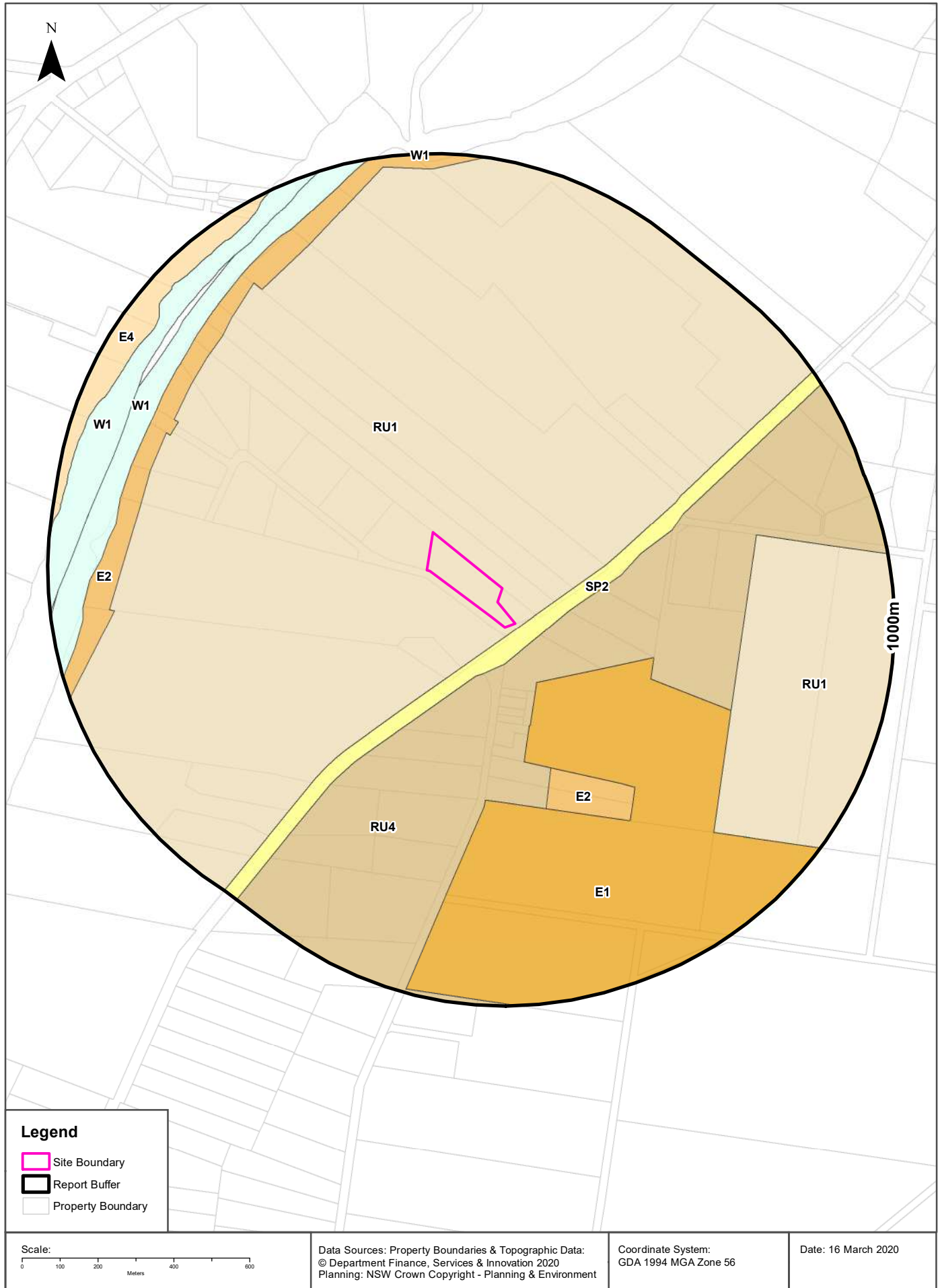
What SEPP State Significant Precincts exist within the dataset buffer?

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

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EPI Planning Zones

682 Castlereagh Road, Agnes Banks, NSW 2753



Environmental Planning Instrument

682 Castlereagh Road, Agnes Banks, NSW 2753

Land Zoning

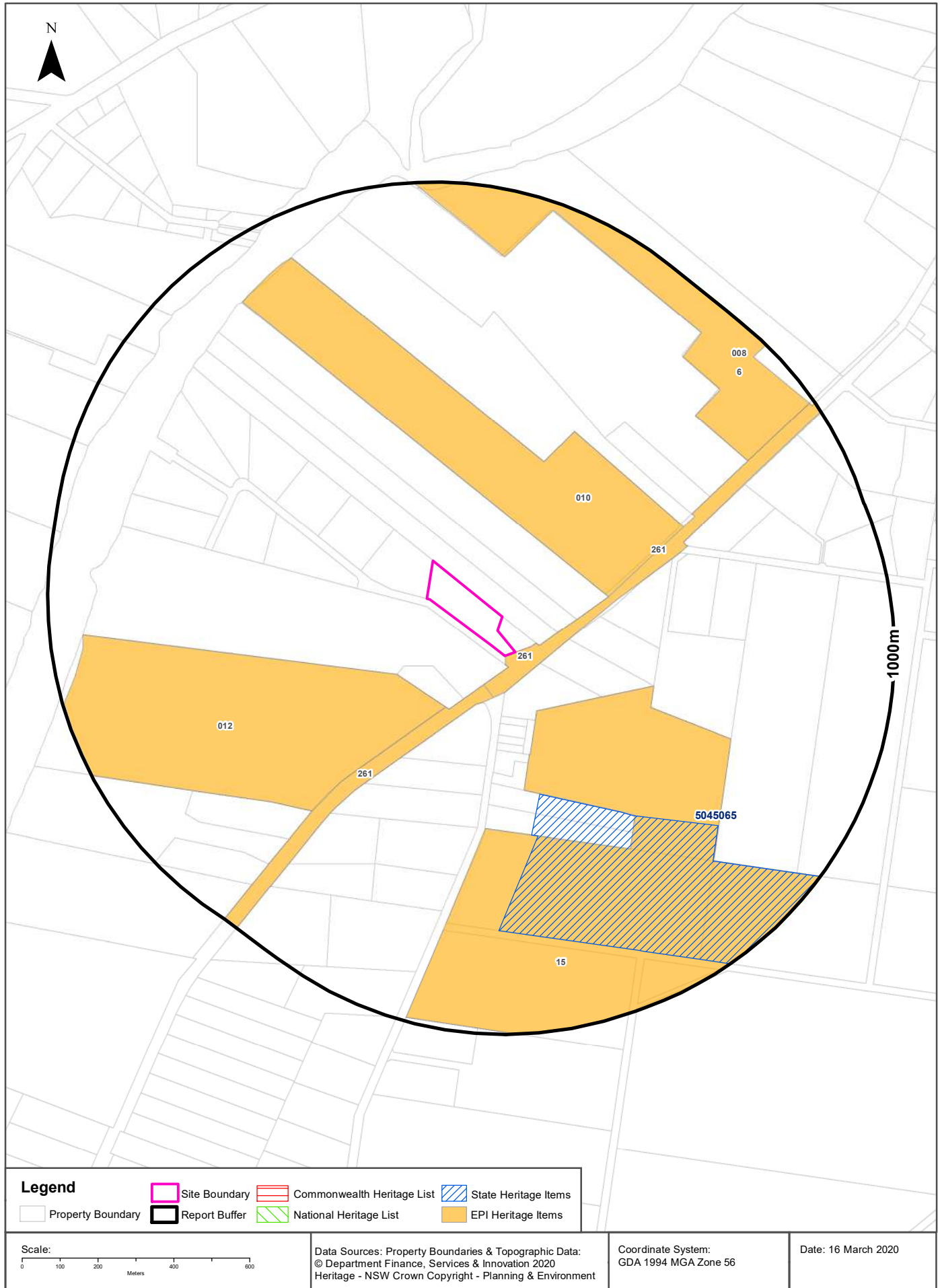
What EPI Land Zones exist within the dataset buffer?

Zone	Description	Purpose	EPI Name	Published Date	Commenced Date	Currency Date	Amendment	Distance	Direction
RU1	Primary Production		Penrith Local Environmental Plan 2010	22/09/2010	22/09/2010	20/12/2019		0m	Onsite
SP2	Infrastructure	Classified Road	Penrith Local Environmental Plan 2010	27/09/2019	27/09/2019	20/12/2019	Amendment No 22	12m	South
RU4	Primary Production Small Lots		Penrith Local Environmental Plan 2010	27/09/2019	27/09/2019	20/12/2019	Amendment No 22	63m	East
E1	National Parks and Nature Reserves		Penrith Local Environmental Plan 2010	22/09/2010	22/09/2010	20/12/2019		165m	South East
E2	Environmental Conservation		Penrith Local Environmental Plan 2010	22/09/2010	22/09/2010	20/12/2019		390m	South East
RU1	Primary Production		Penrith Local Environmental Plan 2010	22/09/2010	22/09/2010	20/12/2019		594m	East
E2	Environmental Conservation		Penrith Local Environmental Plan 2010	22/09/2010	22/09/2010	20/12/2019		733m	South West
W1	Natural Waterways		Penrith Local Environmental Plan 2010	22/09/2010	22/09/2010	20/12/2019		799m	North West
W1	Natural Waterways		Hawkesbury Local Environmental Plan 2012	21/09/2012	21/09/2012	28/02/2019		861m	South West
E4	Environmental Living		Hawkesbury Local Environmental Plan 2012	21/09/2012	21/09/2012	28/02/2019		912m	North West

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Heritage Items

682 Castlereagh Road, Agnes Banks, NSW 2753



Heritage

682 Castlereagh Road, Agnes Banks, NSW 2753

Commonwealth Heritage List

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

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

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

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

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

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

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

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

Map Id	Name	Address	LGA	Listing Date	Listing No	Plan No	Distance	Direction
5045065	Natural Area	Rickards Avenue, Agnes Banks	Penrith	02/04/1999	00649	1683	376m	South East

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
261	Castlereagh Road	Item - General	Local	Penrith Local Environmental Plan 2010	22/09/2010	22/09/2010	20/12/2019	0m	North East
261	Castlereagh Road	Item - General	Local	Penrith Local Environmental Plan 2010	22/09/2010	22/09/2010	20/12/2019	97m	South West
15	Agnes Banks Nature Reserve	Item - General	State	Penrith Local Environmental Plan 2010	28/01/2015	25/02/2015	20/12/2019	165m	South East

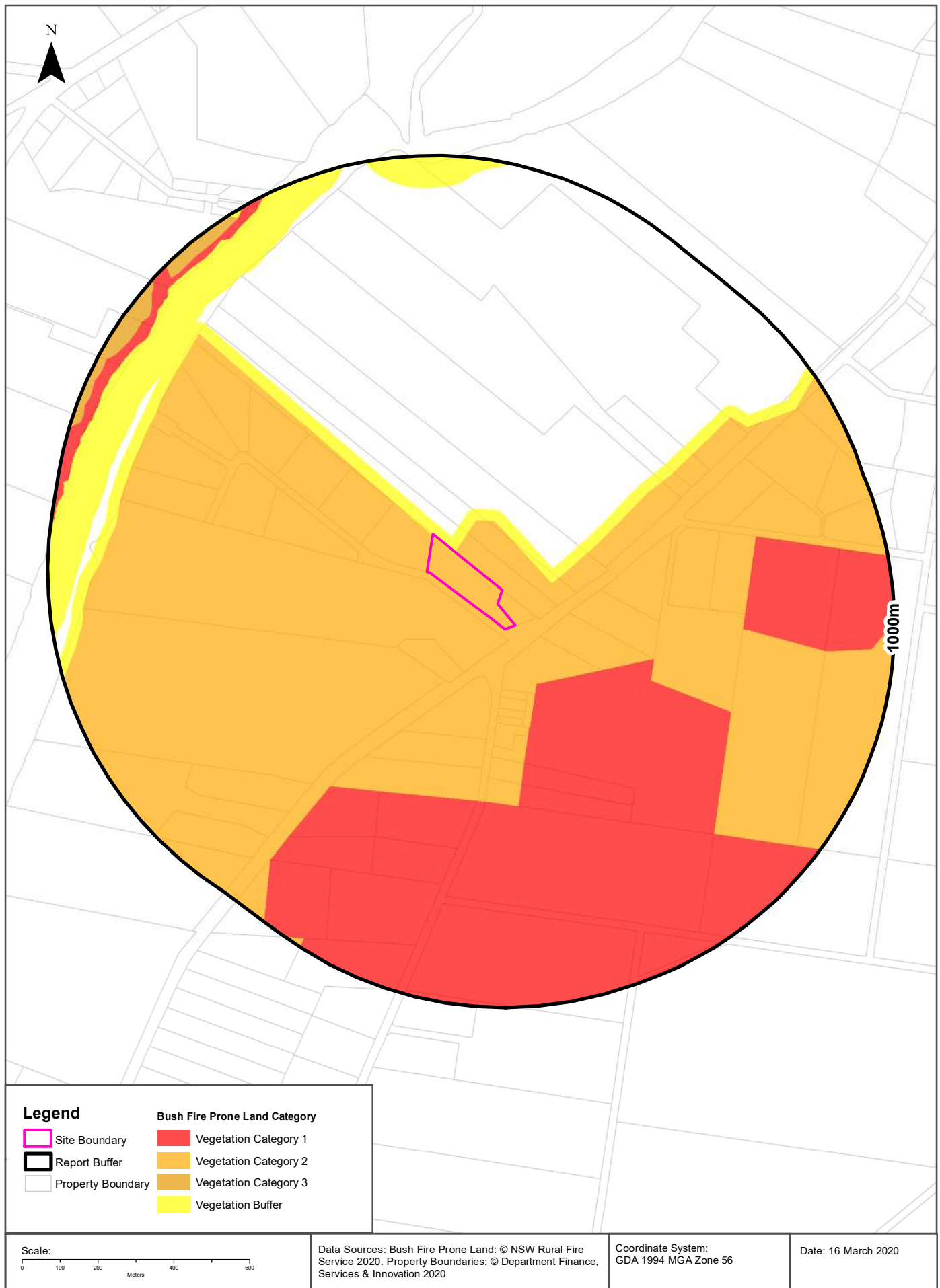
Map Id	Name	Classification	Significance	EPI Name	Published Date	Commenced Date	Currency Date	Distance	Direction
012	Federation farmhouse and trees	Item - General	Local	Penrith Local Environmental Plan 2010	22/09/2010	22/09/2010	20/12/2019	204m	South West
010	Tyreel - dwelling and barn	Item - General	Local	Penrith Local Environmental Plan 2010	22/09/2010	22/09/2010	20/12/2019	216m	North
261	Castlereagh Road	Item - General	Local	Penrith Local Environmental Plan 2010	22/09/2010	22/09/2010	20/12/2019	449m	East
6	Osborne, homestead, barn, outbuildings and plantings	Item - General	Local	Penrith Local Environmental Plan 2010	28/01/2015	25/02/2015	20/12/2019	735m	North East
008	Chestnut - dwelling, slab cottage and trees	Item - General	Local	Penrith Local Environmental Plan 2010	22/09/2010	22/09/2010	20/12/2019	735m	North East

Heritage Data Source: NSW Crown Copyright - Planning & Environment

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Natural Hazards - Bush Fire Prone Land

682 Castlereagh Road, Agnes Banks, NSW 2753



Natural Hazards

682 Castlereagh Road, Agnes Banks, NSW 2753

Bush Fire Prone Land

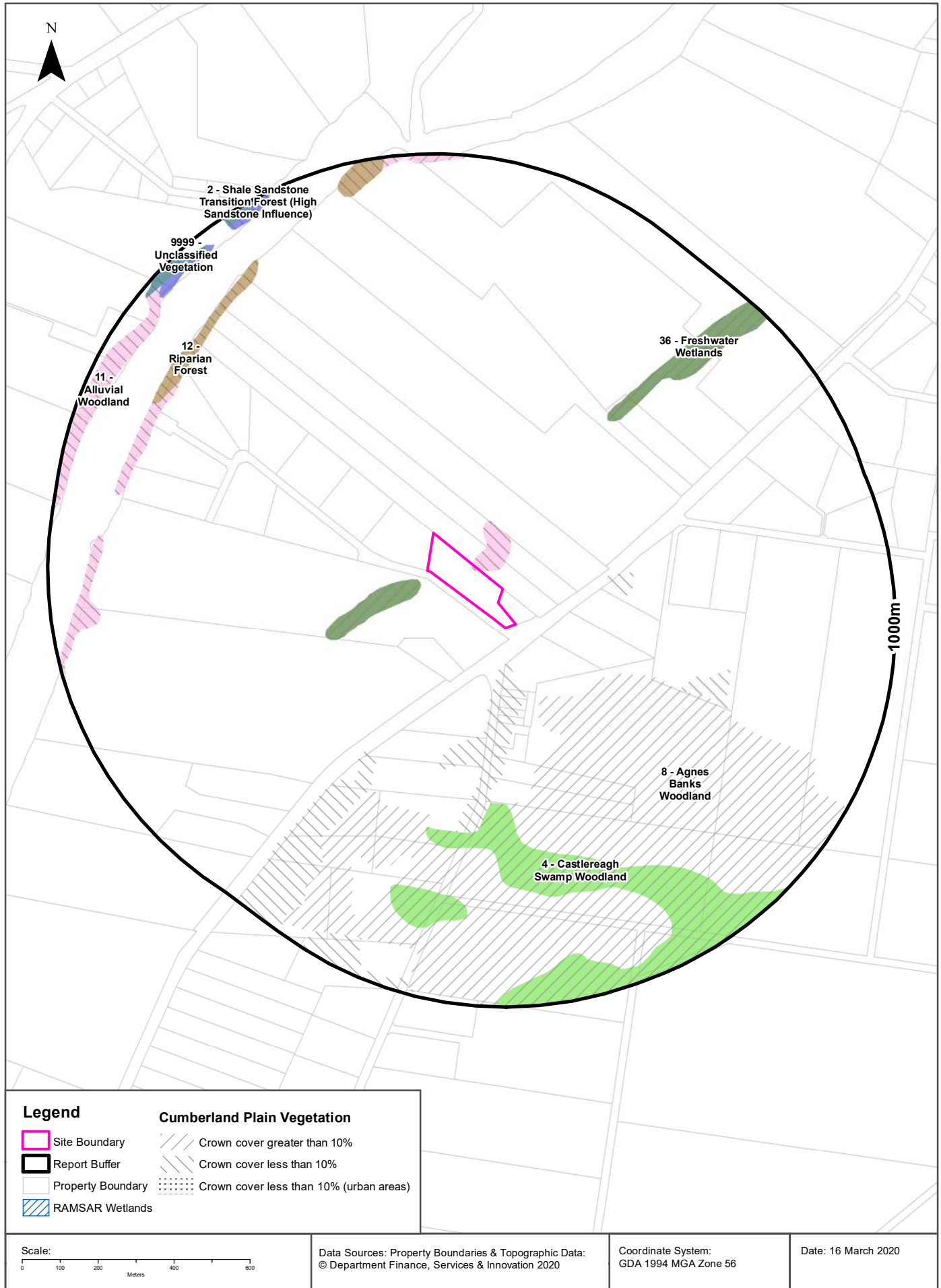
What are the nearest Bush Fire Prone Land Categories that exist within the dataset buffer?

Bush Fire Prone Land Category	Distance	Direction
Vegetation Buffer	0m	Onsite
Vegetation Category 2	0m	Onsite
Vegetation Category 1	164m	South East
Vegetation Category 3	942m	North West

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

Ecological Constraints - Remnant Vegetation of the Cumberland Plain

682 Castlereagh Road, Agnes Banks, NSW 2753



Ecological Constraints

682 Castlereagh Road, Agnes Banks, NSW 2753

Remnant Vegetation of the Cumberland Plain

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

Description	Crown Cover	Distance	Direction
11 - Alluvial Woodland	Crown cover less than 10%	0m	Onsite
36 - Freshwater Wetlands	Crown cover greater than 10%	33m	West
8 - Agnes Banks Woodland	Crown cover less than 10%	94m	South
8 - Agnes Banks Woodland	Crown cover greater than 10%	206m	South East
4 - Castlereagh Swamp Woodland	Crown cover greater than 10%	461m	South East
12 - Riparian Forest	Crown cover less than 10%	778m	North West
2 - Shale Sandstone Transition Forest (High Sandstone Influence)	Crown cover greater than 10%	943m	North West
2 - Shale Sandstone Transition Forest (High Sandstone Influence)	Crown cover less than 10%	945m	North West
9999 - Unclassified Vegetation	Crown cover less than 10%	961m	North West
9999 - Unclassified Vegetation	Crown cover greater than 10%	963m	North West
11 - Alluvial Woodland	Crown cover greater than 10%	974m	North

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

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Ramsar Wetlands

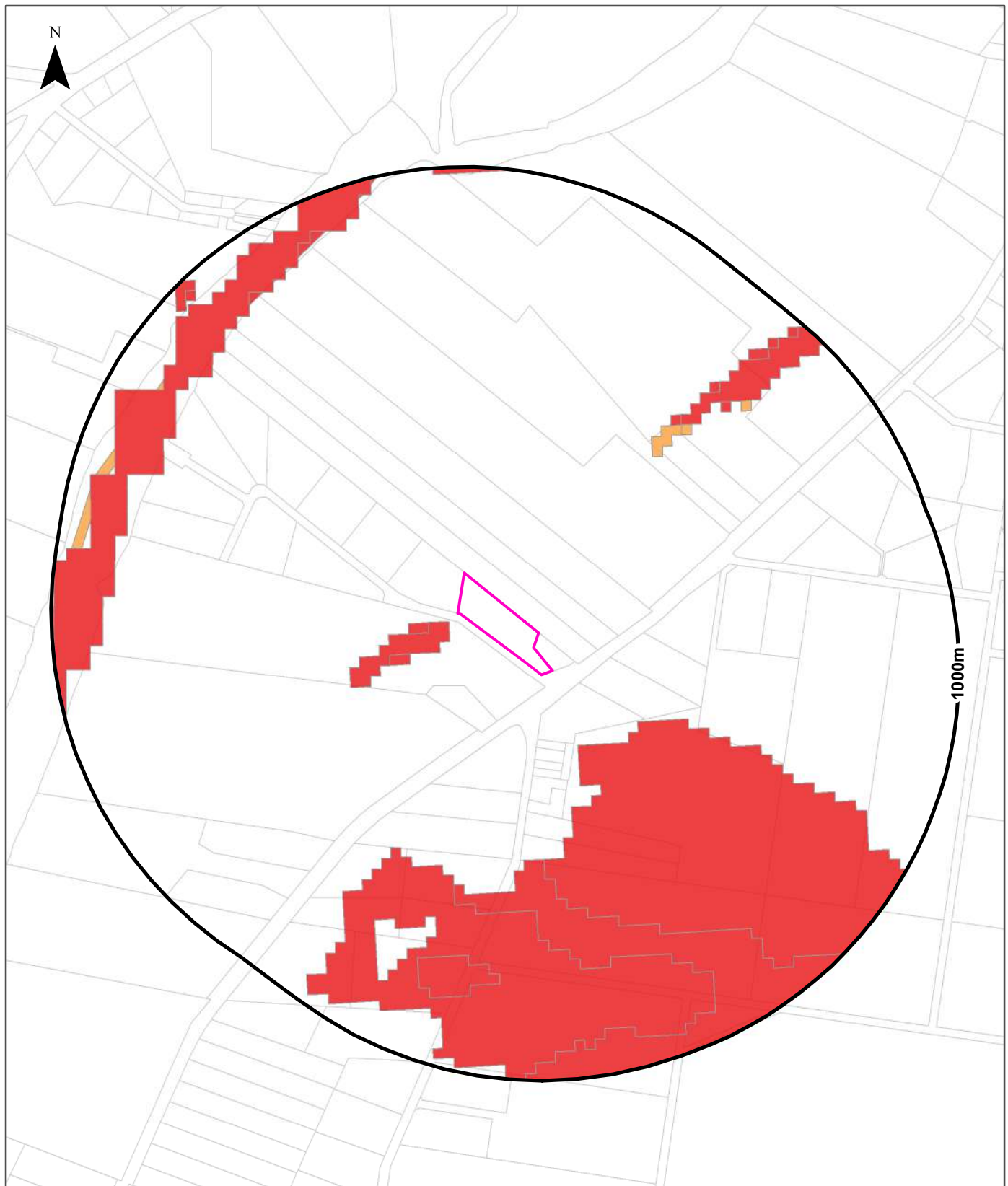
What Ramsar Wetland areas exist within the dataset buffer?

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

Ramsar Wetlands Data Source: © Commonwealth of Australia - Department of Environment

Ecological Constraints - Groundwater Dependent Ecosystems Atlas

682 Castlereagh Road, Agnes Banks, NSW 2753



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

<p>Scale:</p>	<p>Data Sources: Property Boundaries & Topographic Data: © Department Finance, Services & Innovation 2020</p>	<p>Coordinate System: GDA 1994 MGA Zone 56</p>	<p>Date: 16 March 2020</p>
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Ecological Constraints

682 Castlereagh Road, Agnes Banks, NSW 2753

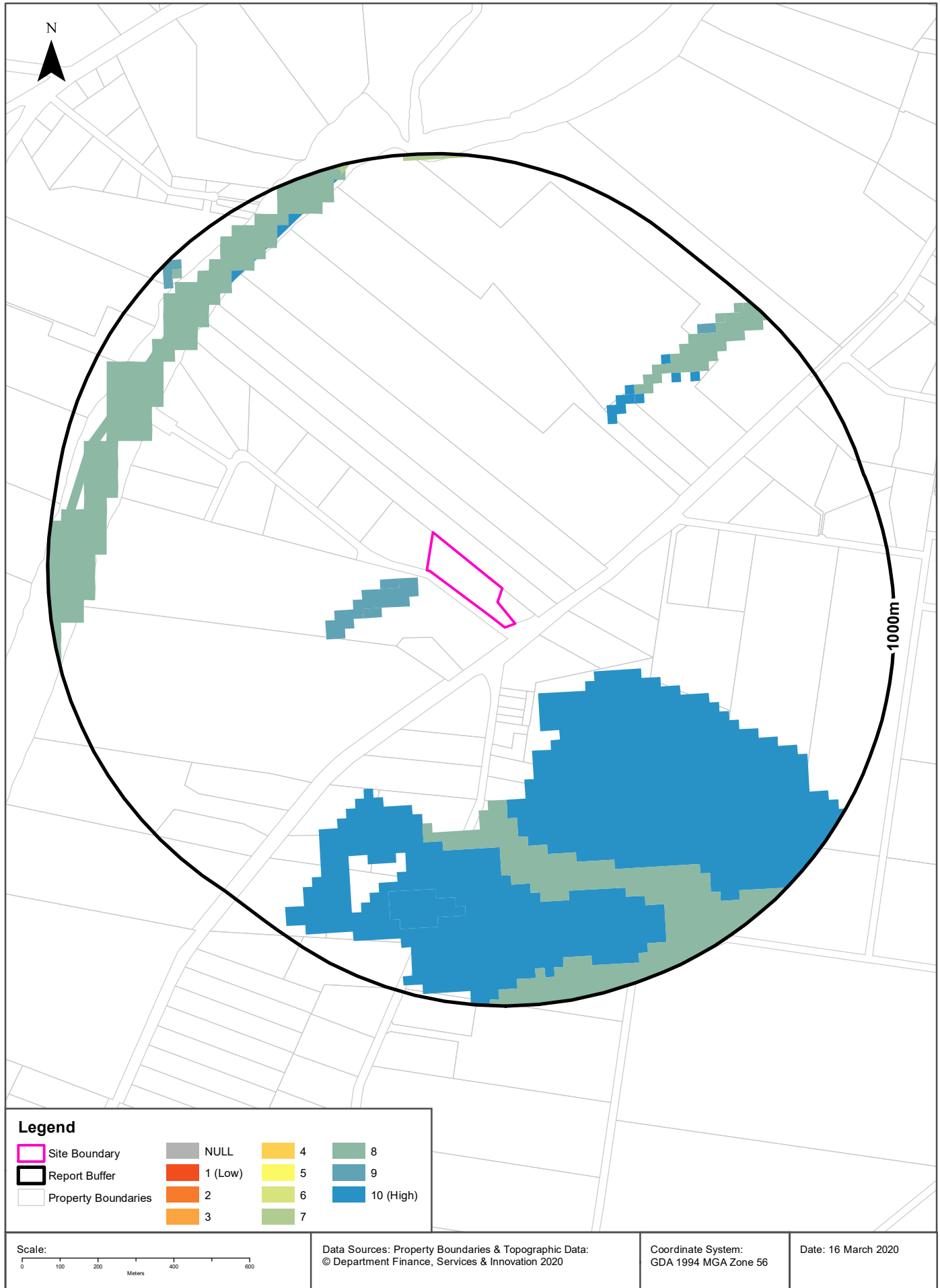
Groundwater Dependent Ecosystems Atlas

Type	GDE Potential	Geomorphology	Ecosystem Type	Aquifer Geology	Distance
Terrestrial	High potential GDE - from national assessment	Undulating to low hilly country, mainly on shale.	Vegetation	Unconsolidated sedimentary	29m
Terrestrial	Moderate potential GDE - from national assessment	Undulating to low hilly country, mainly on shale.	Vegetation	Unconsolidated sedimentary	511m
Aquatic	High potential GDE - from national assessment	Undulating to low hilly country, mainly on shale.	Wetland		778m
Aquatic	Moderate potential GDE - from national assessment	Undulating to low hilly country, mainly on shale.	River		846m

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

682 Castlereagh Road, Agnes Banks, NSW 2753



Ecological Constraints

682 Castlereagh Road, Agnes Banks, NSW 2753

Inflow Dependent Ecosystems Likelihood

Type	IDE Likelihood	Geomorphology	Ecosystem Type	Aquifer Geology	Distance
Terrestrial	9	Undulating to low hilly country, mainly on shale.	Vegetation	Unconsolidated sedimentary	29m
Terrestrial	10	Undulating to low hilly country, mainly on shale.	Vegetation	Consolidated sedimentary	193m
Terrestrial	8	Undulating to low hilly country, mainly on shale.	Vegetation	Consolidated sedimentary	454m
Aquatic	8	Undulating to low hilly country, mainly on shale.	Wetland		778m
Aquatic	10	Undulating to low hilly country, mainly on shale.	River		841m
Aquatic	7	Undulating to low hilly country, mainly on shale.	River		969m
Terrestrial	7	Undulating to low hilly country, mainly on shale.	Vegetation	Unconsolidated sedimentary	982m

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

682 Castlereagh Road, Agnes Banks, NSW 2753

NSW BioNet Atlas

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

Kingdom	Class	Scientific	Common	NSW Conservation Status	NSW Sensitivity Class	Federal Conservation Status	Migratory Species Agreements
Animalia	Amphibia	Heleioporus australiacus	Giant Burrowing Frog	Vulnerable	Not Sensitive	Vulnerable	
Animalia	Amphibia	Litoria aurea	Green and Golden Bell Frog	Endangered	Not Sensitive	Vulnerable	
Animalia	Amphibia	Pseudophryne australis	Red-crowned Toadlet	Vulnerable	Not Sensitive	Not Listed	
Animalia	Aves	Acrocephalus orientalis	Oriental Reed-Warbler	Not Listed	Not Sensitive	Not Listed	ROKAMBA;CAMBA
Animalia	Aves	Actitis hypoleucos	Common Sandpiper	Not Listed	Not Sensitive	Not Listed	ROKAMBA;CAMBA;JAMBA
Animalia	Aves	Anseranas semipalmata	Magpie 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	Ardea ibis	Cattle Egret	Not Listed	Not Sensitive	Not Listed	CAMBA;JAMBA
Animalia	Aves	Ardenna tenuirostris	Short-tailed Shearwater	Not Listed	Not Sensitive	Not Listed	ROKAMBA;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	Callocephalon fimbriatum	Gang-gang Cockatoo	Vulnerable	Category 3	Not Listed	
Animalia	Aves	Calyptrorhynchus banksii samueli	Red-tailed Black-Cockatoo (inland subspecies)	Vulnerable	Category 2	Not Listed	
Animalia	Aves	Calyptrorhynchus lathamii	Glossy Black-Cockatoo	Vulnerable	Category 2	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	Climacteris picumnus victoriae	Brown Treecreeper (eastern subspecies)	Vulnerable	Not Sensitive	Not Listed	
Animalia	Aves	Daphoenositta chrysoptera	Varied Sittella	Vulnerable	Not Sensitive	Not Listed	
Animalia	Aves	Ephippiorhynchus asiaticus	Black-necked Stork	Endangered	Not Sensitive	Not Listed	
Animalia	Aves	Epthianura albifrons	White-fronted Chat	Vulnerable	Not Sensitive	Not Listed	
Animalia	Aves	Falco subniger	Black Falcon	Vulnerable	Not Sensitive	Not Listed	
Animalia	Aves	Gallinago hardwickii	Latham's Snipe	Not Listed	Not Sensitive	Not Listed	ROKAMBA;CAMBA;JAMBA
Animalia	Aves	Glossopsitta pusilla	Little Lorikeet	Vulnerable	Not Sensitive	Not Listed	
Animalia	Aves	Grantiella picta	Painted Honeyeater	Vulnerable	Not Sensitive	Vulnerable	
Animalia	Aves	Haliaeetus leucogaster	White-bellied Sea-Eagle	Vulnerable	Not Sensitive	Not Listed	CAMBA

Kingdom	Class	Scientific	Common	NSW Conservation Status	NSW Sensitivity Class	Federal Conservation Status	Migratory Species Agreements
Animalia	Aves	Hieraaetus morphnoides	Little Eagle	Vulnerable	Not Sensitive	Not Listed	
Animalia	Aves	Hirundapus caudacutus	White-throated Needletail	Not Listed	Not Sensitive	Not Listed	ROKAMBA;CAMBA; JAMBA
Animalia	Aves	Irediparra gallinacea	Comb-crested Jacana	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	
Animalia	Aves	Melithreptus gularis gularis	Black-chinned Honeyeater (eastern subspecies)	Vulnerable	Not Sensitive	Not Listed	
Animalia	Aves	Merops ornatus	Rainbow Bee-eater	Not Listed	Not Sensitive	Not Listed	JAMBA
Animalia	Aves	Neophema pulchella	Turquoise Parrot	Vulnerable	Category 3	Not Listed	
Animalia	Aves	Ninox connivens	Barking Owl	Vulnerable	Category 3	Not Listed	
Animalia	Aves	Ninox strenua	Powerful Owl	Vulnerable	Category 3	Not Listed	
Animalia	Aves	Onychoprion fuscata	Sooty Tern	Vulnerable	Not Sensitive	Not Listed	
Animalia	Aves	Petroica boodang	Scarlet Robin	Vulnerable	Not Sensitive	Not Listed	
Animalia	Aves	Petroica phoenicea	Flame Robin	Vulnerable	Not Sensitive	Not Listed	
Animalia	Aves	Petroica rodinogaster	Pink Robin	Vulnerable	Not Sensitive	Not Listed	
Animalia	Aves	Pezoporus wallicus wallicus	Eastern Ground Parrot	Vulnerable	Category 3	Not Listed	
Animalia	Aves	Pluvialis squatarola	Grey Plover	Not Listed	Not Sensitive	Not Listed	ROKAMBA;CAMBA; JAMBA
Animalia	Aves	Polytelis swainsonii	Superb Parrot	Vulnerable	Category 3	Vulnerable	
Animalia	Aves	Pomatostomus temporalis temporalis	Grey-crowned Babbler (eastern subspecies)	Vulnerable	Not Sensitive	Not Listed	
Animalia	Aves	Stagonopleura guttata	Diamond Firetail	Vulnerable	Not Sensitive	Not Listed	
Animalia	Aves	Tringa stagnatilis	Marsh Sandpiper	Not Listed	Not Sensitive	Not Listed	ROKAMBA;CAMBA; JAMBA
Animalia	Aves	Tyto longimembris	Eastern Grass Owl	Vulnerable	Category 3	Not Listed	
Animalia	Aves	Tyto novaehollandiae	Masked Owl	Vulnerable	Category 3	Not Listed	
Animalia	Aves	Tyto tenebricosa	Sooty Owl	Vulnerable	Category 3	Not Listed	
Animalia	Gastropoda	Meridolum corneovirens	Cumberland Plain Land Snail	Endangered	Not Sensitive	Not Listed	
Animalia	Gastropoda	Pommerhelix duralensis	Dural Land Snail	Endangered	Not Sensitive	Endangered	
Animalia	Mammalia	Cercartetus nanus	Eastern Pygmy-possum	Vulnerable	Not Sensitive	Not Listed	
Animalia	Mammalia	Chalinolobus dwyeri	Large-eared Pied Bat	Vulnerable	Not Sensitive	Vulnerable	
Animalia	Mammalia	Dasyurus maculatus	Spotted-tailed Quoll	Vulnerable	Not Sensitive	Endangered	
Animalia	Mammalia	Dasyurus viverrinus	Eastern Quoll	Endangered	Not Sensitive	Endangered	
Animalia	Mammalia	Falsistrellus tasmaniensis	Eastern False Pipistrelle	Vulnerable	Not Sensitive	Not Listed	
Animalia	Mammalia	Micronomus norfolkensis	Eastern Coastal Free-tailed Bat	Vulnerable	Not Sensitive	Not Listed	
Animalia	Mammalia	Miniopterus australis	Little Bent-winged Bat	Vulnerable	Not Sensitive	Not Listed	

Kingdom	Class	Scientific	Common	NSW Conservation Status	NSW Sensitivity Class	Federal Conservation Status	Migratory Species Agreements
Animalia	Mammalia	Miniopterus orianae oceanensis	Large Bent-winged Bat	Vulnerable	Not Sensitive	Not Listed	
Animalia	Mammalia	Myotis macropus	Southern Myotis	Vulnerable	Not Sensitive	Not Listed	
Animalia	Mammalia	Petauroides volans	Greater Glider	Not Listed	Not Sensitive	Vulnerable	
Animalia	Mammalia	Petaurus australis	Yellow-bellied Glider	Vulnerable	Not Sensitive	Not Listed	
Animalia	Mammalia	Petaurus norfolcensis	Squirrel Glider	Vulnerable	Not Sensitive	Not Listed	
Animalia	Mammalia	Phascogale tapoatafa	Brush-tailed Phascogale	Vulnerable	Not Sensitive	Not Listed	
Animalia	Mammalia	Phascolarctos cinereus	Koala	Vulnerable	Not Sensitive	Vulnerable	
Animalia	Mammalia	Pteropus poliocephalus	Grey-headed Flying-fox	Vulnerable	Not Sensitive	Vulnerable	
Animalia	Mammalia	Saccolaimus flaviventris	Yellow-bellied Sheathtail-bat	Vulnerable	Not Sensitive	Not Listed	
Animalia	Mammalia	Scoteanax rueppellii	Greater Broad-nosed Bat	Vulnerable	Not Sensitive	Not Listed	
Animalia	Mammalia	Vespadelus troughtoni	Eastern Cave Bat	Vulnerable	Not Sensitive	Not Listed	
Animalia	Reptilia	Caretta caretta	Loggerhead Turtle	Endangered	Not Sensitive	Endangered	
Animalia	Reptilia	Chelonia mydas	Green Turtle	Vulnerable	Not Sensitive	Vulnerable	
Animalia	Reptilia	Eulamprus leuraensis	Blue Mountains Water Skink	Endangered	Not Sensitive	Endangered	
Plantae	Flora	Acacia bynoeana	Bynoe's Wattle	Endangered	Not Sensitive	Vulnerable	
Plantae	Flora	Acacia pubescens	Downy Wattle	Vulnerable	Not Sensitive	Vulnerable	
Plantae	Flora	Allocasuarina glareicola		Endangered	Not Sensitive	Endangered	
Plantae	Flora	Cynanchum elegans	White-flowered Wax Plant	Endangered	Not Sensitive	Endangered	
Plantae	Flora	Dillwynia tenuifolia		Vulnerable	Not Sensitive	Not Listed	
Plantae	Flora	Epacris sparsa	Sparse Heath	Vulnerable	Not Sensitive	Vulnerable	
Plantae	Flora	Eucalyptus benthamii	Camden White Gum	Vulnerable	Not Sensitive	Vulnerable	
Plantae	Flora	Grammitis stenophylla	Narrow-leaf Finger Fern	Endangered	Category 3	Not Listed	
Plantae	Flora	Grevillea juniperina subsp. juniperina	Juniper-leaved Grevillea	Vulnerable	Not Sensitive	Not Listed	
Plantae	Flora	Isotoma fluviatilis subsp. fluviatilis		Not Listed	Not Sensitive	Extinct	
Plantae	Flora	Leucopogon exolasius	Woronora Beard-heath	Vulnerable	Not Sensitive	Vulnerable	
Plantae	Flora	Leucopogon fletcheri subsp. fletcheri		Endangered	Not Sensitive	Not Listed	
Plantae	Flora	Marsdenia viridiflora subsp. viridiflora	Native Pear	Endangered Population	Not Sensitive	Not Listed	
Plantae	Flora	Melaleuca deanei	Deane's Paperbark	Vulnerable	Not Sensitive	Vulnerable	
Plantae	Flora	Micromyrtus minutiflora		Endangered	Not Sensitive	Vulnerable	
Plantae	Flora	Persoonia hirsuta	Hairy Geebung	Endangered	Category 3	Endangered	
Plantae	Flora	Persoonia nutans	Nodding Geebung	Endangered	Not Sensitive	Endangered	
Plantae	Flora	Pimelea curviflora var. curviflora		Vulnerable	Not Sensitive	Vulnerable	
Plantae	Flora	Pimelea spicata	Spiked Rice-flower	Endangered	Not Sensitive	Endangered	

Kingdom	Class	Scientific	Common	NSW Conservation Status	NSW Sensitivity Class	Federal Conservation Status	Migratory Species Agreements
Plantae	Flora	<i>Pultenaea parviflora</i>		Endangered	Not Sensitive	Vulnerable	
Plantae	Flora	<i>Pultenaea villifera</i>		Endangered Population	Not Sensitive	Not Listed	
Plantae	Flora	<i>Rhodamnia rubescens</i>	Scrub Turpentine	Critically Endangered	Not Sensitive	Not Listed	
Plantae	Flora	<i>Syzygium paniculatum</i>	Magenta Lilly Pilly	Endangered	Not Sensitive	Vulnerable	
Plantae	Flora	<i>Tetradlea glandulosa</i>		Vulnerable	Not Sensitive	Not Listed	
Plantae	Flora	<i>Zieria involucrata</i>		Endangered	Not Sensitive	Vulnerable	

Data does not include NSW category 1 sensitive species.

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LC Code	Location Confidence
Premise match	Georeferenced to the site location / premise or part of site
General area or suburb match	Georeferenced with the confidence of the general/approximate area
Road match	Georeferenced to the road or rail
Road intersection	Georeferenced to the road intersection
Feature is a buffered point	Feature is a buffered point
Land adjacent to geocoded site	Land adjacent to Georeferenced Site
Network of features	Georeferenced to a network of features

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