



MFS Camden Park Station



Preliminary Site Investigation

South Australian Metropolitan Fire Service

20 July 2023

→ The Power of Commitment



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Executive Summary

GHD Pty Ltd (GHD) was engaged by the South Australian Metropolitan Fire Service (MFS) to prepare this Preliminary Site Investigation (PSI) for the Camden Park Fire Station, located at 65 Morphett Rd, Camden Park, South Australia (the site). This PSI is limited to potential contamination resulting from the historic use of firefighting foam containing per- and poly-fluoroalkyl substances (PFAS). Other potential contaminating activities and related contaminants of concern are not included in this assessment. This report is subject to, and must be read in conjunction with, the limitations set out in Section 3 and the assumptions and qualifications contained throughout the report.

The purpose of the PSI is to address the action required in the South Australian (SA) Environment Protection Authority (EPA) letter EPA GENI 62917. The letter states the need to develop a plan of proposed works to address high risk MFS sites, of which the Camden Park station is included. The SA EPA letter can be found in Appendix A.

The objectives of this PSI are in accordance with the appropriate guidance and legislation as outlined in Section 1.4 and include the following:

- Characterise the potential presence of PFAS impacts associated with historical use of firefighting foam at the site
- Identify and assess any potential risks to human health and/or the environment as a result of identified and/or potential PFAS impacts, in the context of the site's continued commercial/industrial use and the relevant land uses associated with any potentially affected off-site properties

The scope of works for the PSI is summarised below:

- Desktop assessment and site inspection to determine the site history and historical activities which may have contributed to PFAS contamination of the site and surrounds
- Identification of sensitive land uses, groundwater bore usage and ecological receptors to determine potential environmental values of groundwater/surface water in the vicinity of the site
- Development of a Preliminary Conceptual Site Model (PCSM), comprising an assessment of PFAS source areas, pathways, and receptors
- Preparation of a PSI report

The results of this desktop investigation provided information for the development of a PCSM and to inform the preparation of an SAQP for further assessments.

Characterisation of site contamination and risk to human health and environment

- Questionnaires confirmed the storage of PFAS containing AFFF at the site since 1994
- Questionnaires provided evidence of one incident was reported where an AFFF tank of an appliance at the Camden Park Fire Station had to be drained. There was approximately 1,500-1,800 L of foam and rinse water released in the washdown area
- Minimal soil sampling has been undertaken on-site with reported sample results being below the HIL B adopted assessment criteria, but above the ecological indirect exposure guidelines
- While soil on-site has confirmed the presence of PFAS, the extent of PFAS in soil and groundwater on-site and off-site has not yet been characterised

The PCSM identified the following potentially complete PFAS exposure pathways:

- Exposure of site users, visitors, maintenance and construction workers to PFAS via direct dermal contact with contaminated soil, incidental ingestion of contaminated soil or inhalation of contaminated soil/dust from disturbed soils
- Leaching of PFAS from contaminated soils or concrete/bitumen surfaces followed by migration through porous media into groundwater
- Consumption of contaminated groundwater extracted off-site for domestic/drinking purposes

- Consumption of edible vegetation grown off-site where plants were irrigated with contaminated groundwater or where plant roots accessed shallow contaminated groundwater
- Incidental ingestion of contaminated groundwater extracted off-site for recreational purposes such as filling of swimming pools

Recommendations

GHD recommends that a SAQP be prepared to undertake further intrusive investigations to determine the nature and extent of identified PFAS impacts in on-site and off-site areas associated with historical activities at the site and to identify and assess any potential risks to human health and the environment in the context of the current commercial and industrial land use.

Table of Abbreviations

Abbreviation	Full form
AFAC	Australasian Fire and Emergency Service Authorities Council
AFFF	Aqueous Film-Forming Foam
AHD	Australian Height Datum
ASC NEPM	<i>National Environment Protection (Assessment of Site Contamination) Measure 1999, as amended 2013</i>
CoPC	Chemicals of Potential Concern
PCSM	Preliminary Conceptual Site Model
FTS	Fluorotelomers
GAR	South Australian <i>Guidelines for the Assessment and Remediation of Site Contamination 2019</i>
GHD	GHD Pty Ltd
HEPA	Heads of Environment Protection Authorities Australia
LOR	Limit of Reporting
m bgl	Metres Below Ground Level
MFS	South Australian Metropolitan Fire Service
mg/L	Milligrams/Litre
NEMP	PFAS National Environmental Management Plan Version 2.0 - January 2020
NEPC	National Environmental Protection Council
NHMRC	National Health and Medical Research Council
PFAS	Per- and Poly-Fluoroalkyl Substances
PFHxS	Perfluorohexane Sulfonate
PFOA	Perfluorooctanoic Acid
PFOS	Perfluorooctane Sulfonate
PSI	Preliminary Site Investigation
SA EPA	South Australian Environment Protection Authority
SAQP	Sampling and Analysis Quality Plan
SPR	Source-Pathway-Receptor
SWL	Standing Water Level
TDS	Total Dissolved Solids
TOC	Top of Casing
WQEP	South Australian <i>Environmental Protection (Water Quality) Policy 2015</i>

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1. Introduction

GHD Pty Ltd (GHD) was engaged by the South Australian Metropolitan Fire Service (MFS) to prepare this Preliminary Site Investigation (PSI) for the Camden Park Fire Station, located at 65 Morphett Rd, Camden Park, South Australia (the site). The site location is shown in Figure 1.

This PSI is limited to potential impacts from the historic use of firefighting foam containing per- and poly-fluoroalkyl substances (PFAS). Other potential contaminating activities and related contaminants of concern are not included in this assessment. The purpose of the PSI is to address the action required in the South Australian (SA) Environment Protection Authority (EPA) letter EPA GENI 62917. The letter states the need to develop a plan of proposed works to address high risk MFS sites, of which Camden Park is included. The SA EPA letter is included in Appendix A.

1.1 Background

The Camden Park Fire Station has been in operation since 1993 as a fire station staffed by fulltime firefighters who provide 24-hour emergency response, 365 days of the year.

Historically, the MFS have used aqueous film-forming foams (AFFF) containing PFAS at the site during training activities. However, it is understood that the MFS commenced phasing out the use of firefighting foams containing perfluorooctane sulfonate (PFOS) in 2007 and perfluorooctanoic acid (PFOA) in 2014 after consultation and liaison with the Australasian Fire and Emergency Service Authorities Council (AFAC) and the SA EPA. The MFS replaced all firefighting foam in 2016 to ensure that only fluorine-free foam was in use. Currently, state-wide, all MFS appliances carry firefighting foams that do not contain PFOS or PFOA and are fluorine-free. During 2017/2018, the MFS removed all fire extinguishers containing PFAS. Currently, state-wide, all MFS appliances carry firefighting foams that do not contain PFOS or PFOA and are fluorine-free.

In 2022, GHD undertook a site history review of 17 MFS sites (GHD 2022), and inspections of eight metropolitan sites to support environmental risk profiling using a multi-criteria analysis approach. The work was required to address the potential risks associated with former use of AFFF containing PFAS. The sites were prioritised to assist with the implementation of assessment and management measures to address the potential PFAS risks. The Camden Park MFS fire station was identified in the report as one of the eight high risk priority sites.

The GHD 2022 Report was provided to the SA EPA, who subsequently issued a letter dated 1 February 2023 (EPA GENI 62917) with the requirement of “a plan of proposed works and associated timelines to address the highest risk sites” (refer Appendix A).

To assist the MFS in meeting the requirements of the SA EPA, GHD proposed the preparation of a PSI for the high-risk MFS fire stations to assist in the future development of a Sampling and Analysis Quality Plan (SAQP) and further detailed investigations at the site.

1.2 Objectives

The objectives of this PSI are in accordance with the relevant guidance and legislation outlined in Section 1.4 and include the following:

- Characterise the potential presence of PFAS impacts associated with historical use of firefighting foam at the site
- Identify and assess any potential risks to human health and/or the environment as a result of identified and/or potential PFAS impacts, in the context of the site’s continued commercial/industrial use and the relevant land uses associated with any potentially affected off-site properties

1.3 Person requesting works

The work was requested by:

Mr Eero Haatainen, Assistant Chief Fire Officer, Metropolitan Operations- Central and Special Operations, SA MFS, 99 Wakefield St, Adelaide SA 5000.

1.4 Methodology

The PSI methodology was in general accordance with the following industry guidelines:

- Gov SA 1993, South Australian *Environment Protection Act 1993* (Gov SA 1993) and associated regulations
- NEPC 1999, *National Environmental Protection (Assessment of Site Contamination) Measure 1999* (as amended May 2013) (ASC NEPM)
- SA EPA 2019, *Guidelines for the assessment and remediation of site contamination* (GAR)
- HEPA 2020, *PFAS National Environmental Management Plan, Version 2.0, January 2020*, (PFAS NEMP)

1.5 Previous investigations

Previous PFAS investigations at the Camden Park Fire Station have been carried out by GHD in 2019 and 2022. Documentation of these investigations can be found in the following reports:

- GHD (2019) *MFS State-wide Appliance and Station Sampling*, Report for South Australian Metropolitan Fire Service, May 2019
- GHD (2022) *MFS 17 Fire Stations PFA Risk Profiling*, Report for South Australian Metropolitan Fire Service, October 2022

Locations sampled at the Camden Park Fire Stations as part of these investigations are presented in Figure 2.

1.5.1 GHD (2019) MFS State-wide Appliance and Station Sampling

GHD (2019) reported that the Camden Park Fire Station was part of the 2019 environmental investigations carried out at 35 fire stations across South Australia to assess PFAS concentrations that may remain in firefighting appliances, accessible soil and any biota (edible vegetation and poultry) if present.

It is noted that the 2018 PFAS NEMP guidelines were used in this report, which were superseded by the 2020 PFAS NEMP 2.0.

Key outcomes from the GHD (2019) included:

- Two surface soil samples (CAMDEN_1 and CAMDEN_2) collected from a small patch of inedible vegetation located in the middle of the carpark, which is an area where AFFF has historically been sprayed. Both samples exceeded the PFAS NEMP Ecological indirect exposure guideline, with one sample also exceeding the PFAS NEMP public open space guideline for Sum of PFHxS and PFOS
- Both soil samples were below the PFAS NEMP HIL B assessment criteria ,
- No edible vegetation was observed to be grown on-site
- No groundwater, surface water or concrete samples were taken for the investigation

1.5.2 GHD (2022) MFS 17 Fire Stations PFAS Risk Profiling

The Camden Park fire station was part of a 2022 desktop risk assessment and multi-criteria analysis (MCA) carried out at 17 MFS fire stations across South Australia to support appropriate risk management approaches associated with potential or identified PFAS contamination. The 17 sites required for prioritisation, including Camden Park, were identified by the SA EPA in the letter GENI 62485 dated 21 October 2021 (Appendix A).

The report presented the methodology and findings of the PFAS risk profiling for the 17 MFS fire stations with identified PFAS impacts in soil. The desktop review focused on identifying historical activities that may represent a source of PFAS contamination and potentially sensitive human or ecological receptors in the vicinity of the sites as well as understanding potential source-pathway-receptor linkages that may be present.

The report provided a summary of the sites' prioritisation for further assessment based on their potential to cause harm to the environment and/or human health. The Camden Park MFS fire station was classified as high-risk with high priority for further investigation of PFAS contamination for the following reasons:

- On-site historical bulk storage of AFFF concentrate was estimated to be 680 L
- Shallow groundwater beneath the site (1.8-6.0 m bgl) ,
- The relatively short distance to the closest groundwater bore (50 m south with an unlisted purpose)
- The relatively short distance to the closest surface water body (0.3 km south and 0.9 km south-west Sturt River)
- Residential land use was adjacent to the station

2. Scope of works

The scope of works for the PSI is summarised below:

- Desktop assessment of the site history and historical activities which may have contributed to PFAS contamination of the site and surrounds including a review of:
 - Past and current ownership and occupier details and certificates of title
 - Past and current aerial photography
 - State and local government records including SA EPA Public Register records,
- Review of available information regarding the local geology, hydrogeology and hydrology, including the state groundwater database and geological maps
- Review of available soil, sediment, surface water and groundwater data from previous environmental investigations undertaken at the site and surrounding the site
- Identification of sensitive land uses, groundwater bore usage and ecological receptors to determine potential beneficial uses of groundwater/surface water in the vicinity of the site
- A site inspection and interviews with site personnel to confirm features documented in the desktop review and update the site history with respect to stormwater management, high-risk historical activities such as foam spill events, on-site storage of large quantities of PFAS containing foam and on-site or potential off-site fire-training activities and overspray
- Development of a preliminary Conceptual Site Model (CSM), comprising an assessment of PFAS source areas, pathways, and receptors
- Preparation of a PSI report

Some of the background information relating to environmental settings, historical ownership and land use of the site and surrounding properties was obtained from the Lotsearch report included in Appendix B and referenced below.

- Lotsearch (2023), 65-69 Morphett Road, Camden Park, SA 5038, Reference number LS040324 EP, prepared by Lotsearch Enviro Professional, 13 February 2023

3. Limitations

This report: has been prepared by GHD for South Australian Metropolitan Fire Service and may only be used and relied on by South Australian Metropolitan Fire Service for the purpose agreed between GHD and South Australian Metropolitan Fire Service as set out in section 1.2 of this report.

GHD otherwise disclaims responsibility to any person other than South Australian Metropolitan Fire Service arising in connection with this report. GHD also excludes implied warranties and conditions, to the extent legally permissible.

The services undertaken by GHD in connection with preparing this report were limited to those specifically detailed in the report and are subject to the scope limitations set out in the report.

The opinions, conclusions and any recommendations in this report are based on conditions encountered and information reviewed at the date of preparation of the report. GHD has no responsibility or obligation to update this report to account for events or changes occurring subsequent to the date that the report was prepared.

The opinions, conclusions and any recommendations in this report are based on assumptions made by GHD described in this report. GHD disclaims liability arising from any of the assumptions being incorrect.

The opinions, conclusions and any recommendations in this report are based on information obtained from, and testing undertaken at or in connection with, specific sample points. Site conditions at other parts of the site may be different from the site conditions found at the specific sample points.

Investigations undertaken in respect of this report are constrained by the particular site conditions, such as the location of buildings, services and vegetation. As a result, not all relevant site features and conditions may have been identified in this report. GHD has prepared this report on the basis of information provided by South Australian Metropolitan Fire Service and others who provided information to GHD (including Government authorities)], which GHD has not independently verified or checked beyond the agreed scope of work. GHD does not accept liability in connection with such unverified information, including errors and omissions in the report which were caused by errors or omissions in that information.

4. Site information

Unless otherwise stated the information within this PSI report was obtained from Lotsearch Report Reference Number LS040324 EP provided in Appendix B.

4.1 Site identification

Site information details are summarised in Table 4.1 below.

Table 4.1 Summary of General Site Identification Information

Item	Detail
Site Address	65-69 Morphett Road Camden Park, SA 5038
Certificate of Title:	CT 5413/751
Legal Description:	Allotments 6, 7 and 8, deposited Plan 2237 in the area named Camden Park, Hundred of Adelaide
Local Government Authority:	City of West Torrens
Current Zoning:	Strategic Employment
Property Owner:	South Australian Metropolitan Fire Service
Current Site Use:	Operational Fire Station
Area:	2,771 m ²
Site Elevation:	8 m AHD

Copies of the current certificate of titles and excerpts from the South Australia Property and Planning Atlas (SAPPA 2023) including zoning information are provided in Appendix C. The site layout plan is shown in Figure 3.

4.2 Site inspection and description

The MFS Camden Park Fire Station is located on the corner of Morphett Road and Albert Avenue, approximately 1.0 km north of the Morphett Road/Anzac Highway intersection. The site is used as an operational fire station staffed in four shifts. A site inspection was conducted by GHD field staff on 20 June 2022. The site photographs are presented in Appendix D.

The site included the following buildings and features:

- One main building, located centrally on the site, which housed an engine bay, administrative offices and living quarters
- A storage shed was located along the southern boundary of the site to the southeast corner
- No fruit trees or poultry were present on-site

4.3 Site drainage

The topography of the site is relatively flat. On-site stormwater infrastructure included ten stormwater drains (five along the eastern boundary, four along the southern boundary and presented in Figure 3) which is discharged into a stormwater drain on Albert Avenue. A control valve is present to regulate the stormwater discharge into the Albert Avenue drain. Stormwater is inferred to discharge through the drains to Sturt Creek.

Most of the site surface was sealed with concrete and pavers, with garden areas along the northern and western street frontages including grassed areas and trees. A small area of garden is located at the south-east corner of the station building.

4.4 Historical PFAS use

A questionnaire regarding the historical use of AFFF at the site was circulated to MFS staff. Three Surveys were completed, one survey was completed on 20 June 2022 by Station Officers and the remainder were completed by officers on 1 and 2 July 2022 as part of the MCA works. The station officers who had been working at the site for a number of years provided relevant anecdotal information on the site history in an interview during the site inspection on 20 June 2022. Copies of the completed surveys can be found in Appendix E.

AFFF was used at the site from 1994, however there were no training exercises conducted at the site. One incident was reported where an AFFF tank of an appliance at the Camden Park Fire Station had to be drained. There was approximately 1,500-1,800 L of foam and rinse water released in the washdown area (see Figure 3).

Appliances and equipment were washed down on the concrete pad and paved area along the eastern portion of the site and water collected in the stormwater infrastructure onsite.

4.5 Historical storage of PFAS

Storage of AFFF on-site was within the firefighting appliances as well as a special storage pod just south of the building's veranda, where 1000 L IBCs of AFFF were stored in case of major incidents. The storage pod and AFFF containers was moved to the Adelaide Station, however the specific date this was moved is unknown.

AFFF was not transferred or decanted at the Camden Park Fire Station. Appliances and storage containers within the pod were filled at the Adelaide Fire Station.

4.6 Surrounding land uses

Land use surrounding the site is summarised in Table 4.2. Land uses and zoning are shown on Figure 4.

Table 4.2 Land Uses and Zoning

Orientation	Description of Land Use	Zoning (Municipal Council)	Zoning (SAPPA)
North	Albert Avenue, commercial/industrial warehouse, followed by Patricia Avenue and low-density residential properties	Strategic Employment	Public Institution
East	Furniture manufacturer, Carlisle Street followed by residential properties.	Strategic Employment/General Neighbourhood	Public Institution
South	Furniture upholsterer and motor body repairs followed by residential properties.	Strategic Employment	Public Institution
West	Morphett Road, commercial properties (IGA, chemist, takeaway) followed by Graham Crescent Reserve and residential properties.	General Neighbourhood	Residential

5. Environmental setting

5.1 Topography and hydrology

The topography of the site and surrounding land is relatively flat and forms part of the Adelaide Plains, between the Gulf St Vincent to the west and the Mount Lofty Ranges to the east. The site sits at an elevation of approximately 8 m AHD.

With the exception of some small garden beds, the site is comprised of sealed surfaces (buildings, concrete hardstand, pavers, etc.). The majority of stormwater is collected in nine stormwater drains along the eastern and southern site boundaries and discharging to stormwater drains on Albert Avenue to the north. Stormwater is subsequently discharged to the Sturt River and Patawalonga River which flow to the Gulf St Vincent (Gov SA 2023).

5.2 Surface water

The nearest natural surface water bodies from the site are the Sturt River, 0.9 km southwest, and Brown Hill Creek/Willawilla, 1.2 km northwest. Both surface water bodies converge at the Sturt Overflow 2.0 km northwest of the site. Surface water then continues to flow in a westerly direction and discharges into the Patawalonga River and subsequently into the Gulf St Vincent, 2.6 km west.

5.3 Geology and soils

The Lotsearch (2023) report indicated that site surface geology is characterised by Pooraka formation consisting of clay, sand and carbonate earth, silty, with gravel lenses. The soil classification orders were identified to be Rudosol at the site and Chromosol in surrounding areas.

Rudosol soils, on-site and to the northwest, are characterised as coastal dunes and plains of calcareous and siliceous sands. Chromosols, found to the southeast of the site, are characterised by outwash plains with hard alkaline red soils, small areas of cracking clay soils and various alluvial soils in the stream valleys.

The site lies within a region of extremely low probability of potential acid sulphate soil (PASS) occurrence.

5.4 Hydrogeology

According to the Department of Water, Land and Biodiversity Conservation (DWLBC) Report (Gerges 2006), the site lies within 'hydrogeological zone 2A'. This hydrogeologically important, highly faulted, zone connects zone 2 with zone 3. Limited information is available for deep aquifers hence interpretation of major structures is speculative. Major features include up to four Quaternary aquifers and possibly three or four Tertiary aquifers.

A search of the South Australian Resources Information Gateway (SARIG) database reported shallow groundwater in the vicinity of the site with standing water levels (SWL) of 2-5 m bgl, producing yields in the range of 0.5-2.5 L/second. Groundwater salinity ranged from 3000 - 7000 mg/L TDS, indicating saline water.

The Lotsearch report (2023) included a search of the South Australian WaterConnect database (DEW 2022) for registered groundwater wells located within a 2.0 km radius of the site. The results are summarised as follows:

- There were 468 registered wells within a 2.0 km radius
- Of these registered wells, 59 were listed as backfilled, 50 as operational, 15 as abandoned, nine as decommissioned, five as controlled (4 flowing and 2 shut in), five as rehabilitated, four as unknown, two as not operational, one as not in use and 318 had no listed status
- Of the 50 registered operational wells, 25 were listed for domestic purposes, 14 for aquifer recharge, seven for drainage, two for irrigation, one for industrial, and one for stock
- Of the 322 wells with unknown or no registered status, 100 were listed for investigation purposes, 45 for monitoring, 41 for domestic, 13 for observation, four for drainage, one for irrigation and 118 had no listed purpose

- TDS data were available for 238 wells within the 2.0 km radius from the site and ranged between 67 mg/L and 22,880 mg/L. The five closest wells (<0.7 km) with TDS data less than 30 years old ranged between 1,154 mg/L and 6,389 mg/L

5.5 Determination of environmental values

To assess the contamination status of groundwater at a site, the SA EPA provides a four-step process to determine the environmental values of groundwater and to determine if actual or potential harm to groundwater that is not trivial has occurred. The four-step process described in the GAR (SA EPA 2019) is described in Table 5.1.

Table 5.1 Four Step Process for Determining Harm to Groundwater

Process	Assessment
1. Apply Table 3 of Schedule 1 of the 2015 Water Quality Environment Protection Policy (WQEPP, Gov SA 2015) based on TDS ranges. Groundwater well data were filtered so only recent data (<30 years old) from within the same aquifer was used.	The Lotsearch report listed 468 registered bores located within a 2.0 km radius of the site. The five closest wells (<0.7 km) with TDS data less than 30 years old ranged between 1,154 mg/L and 6,389 mg/L indicating slightly saline water (1,000 mg/L - 3,000 mg/L) to moderately saline water (3,000 mg/L - 10,000 mg/L).
2. Assess and identify surface water bodies within a 2.0 km buffer of the site.	The nearest surface water bodies are the Sturt River, 1.2 km northwest, and the wetlands associated with the Glenelg Golf Club approximately 0.7 km northeast. The watercourse shown in the Lotsearch report approximately 0.3 km to the south west of the site (Appendix B) was identified as a former open stormwater drain that has been backfilled and replaced with underground stormwater pipes.
3. Review registered groundwater users in the WaterConnect database.	A review of the WaterConnect database provided in the Lotsearch report (Appendix B) identified a total of 468 registered bores within a 2.0 km radius of the site. The identified uses of the bores with operational or unknown status were domestic (25), monitoring/drainage (7), aquifer recharge (14), irrigation (2), industrial (1) and stock (1).
4. Apply the SA EPA recognised criteria for the most sensitive environmental value.	The most sensitive environmental values to be applied to the site are PFAS NEMP 2020 Drinking Water for human health. The most sensitive environmental value for ecological receptors is the 99% freshwater ecological guidelines.

The environmental values for the site were identified to include:

- Potable use of groundwater (<1,200 mg/L)
- Irrigation and general water use (<3,000 mg/L)
- Livestock drinking water, aquaculture and human consumption of aquatic foods (<13,000 mg/L)
- Aquatic ecosystem, recreation and aesthetics (due to proximity to the Sturt River, Glenelg Golf Club wetlands and Patawolonga Creek)

6. Site history searches

6.1 Historical ownership summary

Information regarding the historical ownership of the MFS site was obtained from certificates of title (CTs) through the South Australian Integrated Land Information System (SAILIS). Copies of the current CT and historical CT are provided in Appendix C.

A review of the historical ownership of the MFS site identified that the land was granted to the MFS on 18 April 1997. Prior to this, information regarding historical ownership of the site has not been provided although it is understood that the station was commissioned in 1993.

Relevant details are listed in Table 6.1 below.

Table 6.1 Summary of Historical Certificates of Title

CT	Date	Details
4381/877	18/04/1999 to Current	Title issued to South Australian Metropolitan Fire Service, Allotments 6, 7 and 8 deposited plan 2237.

6.2 Historical aerial photographs

Historical aerial photos are presented in the Lotsearch report in Appendix B. A review of the aerial images is provided in Table 6.2.

Table 6.2 Summary of Historical Aerial Images

Year	Description
1935	The site and its surrounds appeared to be vacant, and vegetation has been cleared. The road immediately west of site (present-day Morphett Road) appears largely undeveloped. Some residential structures appear to have been established to the east and south.
1949	Some minor access roads appear to have shifted, with some additional residential dwellings constructed to the south-east of the site.
1959	A large warehouse structure has been constructed and encompasses the northern portion of the site. The surrounding land in the north appears to have been developed into commercial warehousing with associated work yards. Further north (approximately 150 m onwards) there has been construction of additional residential housing. Land to the east and south have been further developed with additional residential dwellings. Land to the west remains predominantly undeveloped.
1969	The on-site warehouse structure now encompasses the entire site and land immediately adjacent to the east and south. Additional developments have occurred to the north of the site, with the previously mentioned commercial warehouse expanding to encompass the entire block. Residential development has increased in surrounding lands to the north, east and south however land immediately adjacent to the west remains undeveloped. All roads now appear to be sealed asphalt as opposed to unsealed dirt roads.
1979	No significant changes since 1969.
1989	Commercial buildings have been constructed immediately adjacent to the site to the west, with residential developments also being constructed to the north-west and south-west of the site. On-site imagery remains largely unchanged since 1969.
1999	The warehouse on the site has been demolished and replaced with the Camden Park Fire Station. Sections of the warehouse remain in the south-east corner of the site (potentially a shed) as well as on the adjacent eastern and southern properties. The warehouse to the north of the site has been demolished and replaced with a new building with an adjoining car park. Additional residential properties have been constructed to the south-west of the site. Some commercial properties to the west have been demolished and replaced with residential properties.

Year	Description
2002	A brown square patch, either bare ground or footings of a building located in the east of the site has been concreted over on-site. This may have been associated with the warehouse demolition on-site. No other significant changes on or off-site.
2007	No significant changes since 2002
2012	No significant changes since 2007
2017	No significant changes since 2012
2022	No significant changes since 2012

6.3 SA EPA public register

The SA EPA maintains a public register under the Environment Protection Act 1993 to make information available for the public to inspect. Information available on the register includes: environmental authorisations and applications; environmental protection and clean-up orders; and a site-contamination index, which incorporates Section 83A Notifications.

Results of institutes within a 1 km radius of the site in possession of a licence issued by the SA EPA, or those with pending applications, are summarised in Table 6.3. A complete summary of the Public Register search provided by Lotsearch (2023) is provided in Appendix B.

Table 6.3 Summary of SA EPA Public Register Search

Record No.	Record Type	Entity	Site Address	Activity	Distance (m)	Direction
13127	ENVIRONMENT PROTECTION ORDER	SA Liquor Distributors Ltd	Morphett Road, Camden Park SA 5038	Failed to submit a noise monitoring plan as required by license condition	15 m	North East
10277	ENVIRONMENT PROTECTION ORDER	Rossdale Homes Pty Ltd	Charles Leitch Court, Novar Gardens SA 5040	Produced waste which was found on footpaths, kerbing/gutters, roadways and the stormwater drainage systems adjacent to or near the building site.	132 m	West
10278	ENVIRONMENT PROTECTION ORDER	Henley Properties	Stanford Avenue, Novar Gardens SA 5040	Produced waste which was found on footpaths, kerbing/gutters, roadways and the stormwater drainage systems adjacent to or near the building site.	219 m	West
10281	ENVIRONMENT PROTECTION ORDER	Henley Properties	Scott Court, Novar Gardens SA 5040	Produced waste which was found on footpaths, kerbing/gutters, roadways and the stormwater drainage systems adjacent to or near the building site.	235 m	West
10269	ENVIRONMENT PROTECTION ORDER	City Homes, Giovanni Reveruzzi	Stanford Avenue, Novar Gardens SA 5040	Produced waste which was found on footpaths, kerbing/gutters, roadways and the stormwater drainage systems adjacent to or near the building site.	252 m	West
10280	ENVIRONMENT PROTECTION ORDER	Henley Properties	Scott Court, Novar Gardens SA 5040	Produced waste which was found on footpaths, kerbing/gutters, roadways and the stormwater drainage systems adjacent to or near the building site.	262 m	South West

Record No.	Record Type	Entity	Site Address	Activity	Distance (m)	Direction
10271	ENVIRONMENT PROTECTION ORDER	Wabnitz Homes	Scott Court, Novar Gardens SA 5040	Produced waste which was found on footpaths, kerbing/gutters, roadways and the stormwater drainage systems adjacent to or near the building site.	277 m	West
10275	ENVIRONMENT PROTECTION ORDER	Rossdale Homes Pty Ltd	Scott Court, Novar Gardens SA 5040	Produced waste which was found on footpaths, kerbing/gutters, roadways and the stormwater drainage systems adjacent to or near the building site.	279 m	South West
10274	ENVIRONMENT PROTECTION ORDER	Mike Hall A V Jennings Homes	Alexander Court, Novar Gardens SA 5040	Produced waste which was found on footpaths, kerbing/gutters, roadways and the stormwater drainage systems adjacent to or near the building site.	308 m	West
10270	ENVIRONMENT PROTECTION ORDER	Mike Hall A V Jennings Homes	Alexander Court, Novar Gardens SA 5040	Produced waste which was found on footpaths, kerbing/gutters, roadways and the stormwater drainage systems adjacent to or near the building site.	326 m	West
10272	ENVIRONMENT PROTECTION ORDER	Galaxy Homes	Alexander Court, Novar Gardens SA 5040	Produced waste which was found on footpaths, kerbing/gutters, roadways and the stormwater drainage systems adjacent to or near the building site.	349 m	West
10279	ENVIRONMENT PROTECTION ORDER	Henley Properties	Alexander Court, Novar Gardens SA 5040	Produced waste which was found on footpaths, kerbing/gutters, roadways and the stormwater drainage systems adjacent to or near the building site.	368 m	West
10267	ENVIRONMENT PROTECTION ORDER	Federation Homes	Stanford Avenue, Novar Gardens SA 5040	Produced waste which was found on footpaths, kerbing/gutters, roadways and the stormwater drainage systems adjacent to or near the building site.	377 m	West
10266	ENVIRONMENT PROTECTION ORDER	GR Thompson & Co	Stanford Avenue, Novar Gardens SA 5040	Produced waste which was found on footpaths, kerbing/gutters, roadways and the stormwater drainage systems adjacent to or near the building site.	381 m	West
10273	ENVIRONMENT PROTECTION ORDER	Galaxy Homes	Stanford Avenue, Novar Gardens SA 5040	Produced waste which was found on footpaths, kerbing/gutters, roadways and the stormwater drainage systems adjacent to or near the building site.	387 m	West

Record No.	Record Type	Entity	Site Address	Activity	Distance (m)	Direction
10268	ENVIRONMENT PROTECTION ORDER	Alan Sheppard Homes	Stanford Avenue, Novar Gardens SA 5040	Produced waste which was found on footpaths, kerbing/gutters, roadways and the stormwater drainage systems adjacent to or near the building site.	423 m	West
10276	ENVIRONMENT PROTECTION ORDER	Rossdale Homes Pty Ltd	Stanford Avenue, Novar Gardens SA 5040	Produced waste which was found on footpaths, kerbing/gutters, roadways and the stormwater drainage systems adjacent to or near the building site.	425 m	West
13417	ENVIRONMENT PROTECTION ORDER	Hardchrome Services Pty Ltd	Mooringe Avenue, Camden Park SA 5038	Caused the discharge of waste (namely chromic acid mist) to the environment as a result of metal finishing operations performed at the site. Also failed maintain and operate a chromic acid scrubber, located on the site, in a proper and efficient manner.	448 m	North
13407	ENVIRONMENT PROTECTION ORDER	Brown Wood Panels Pty Ltd	Mooringe Avenue, Camden Park SA 5038	Discharged waste (namely wood dust) to the environment as a result of wood processing operations performed at the site. Also failed to maintain and operate wood dust filtration plant in a proper and efficient manner.	554 m	Northeast

6.4 SA EPA section 7 search

GHD contacted the SA EPA in order to obtain an EPA Statement to Form 1 – Contracts for Sale of Land or Business for CT Volume 5413 Folio 751. Particulars of mortgages, charges and prescribed encumbrances affecting the land, and environmental protection are summarised below.

Regarding the site (CT5413/751) the EPA has the following records of issues associated with the particulars of mortgages, charges or prescribed encumbrances affecting the land:

- Details of serious or material environmental harm caused or threatened in the course of an activity (whether or not notified under section 83 of the *Environment Protection Act 1993*)
- A copy of a report of an environmental assessment (whether prepared by the EPA or some other person or body and whether or not required under legislation) that forms part of the information required to be recorded in the public register

The EPA Statement to Form 1 – Contracts for Sale of Land or Business is presented in Appendix F.

6.5 Review of council records

The City of West Torrens were contacted to supply any relevant documents or information pertaining to the site on 27 February 2023. The council responded on 28 February 2023 and provided two development approval forms relating to additions to the existing fire station. The forms were dated March 1997 and January 2001. No other council record documentation was provided.

7. Potentially contaminating activities

The following potentially contaminating activities (PCAs) with respect to PFAS have been identified as potentially occurring at or in the vicinity of the site.

Table 7.1 Potentially Contaminating Activities (PCAs)

Activity	On-site or Off-site	Rationale/Details	Likely Significance
Historical storage of PFAS-containing firefighting AFFF	On-site and off-site	PFAS-containing firefighting foams were historically stored on-site. This PCA at the site may have impacted concrete slabs, bitumen, soil and groundwater.	High significance Contamination associated with this PCA may have a significant impact on concrete, bitumen and soil at the site which could potentially impact soil and groundwater on- and off-site. Additionally on-site and off-site vegetation may be impacted by this PCA.
Washdown of equipment, trucks and appliances and drainage to stormwater	On-site and off-site	After use of and/or incidents involving AFFF use, appliances, equipment and tanks were washed down in the back yard and rear apron of the engine room. The wash down water was directed towards the garden or managed as stormwater and discharged off-site. Foam and wastewater from the training events was allowed to soak into the ground or discharged off-site into the public stormwater system.	High significance Contamination associated with this PCA may have a significant impact to on- and off-site soil, bitumen, concrete and surface water receptors and has contributed to off-site migration of PFAS compounds. Groundwater may also be impacted given the soaking of wastewater through the soil.
Residual PFAS in concrete or bitumen	On-site	If PFAS has impacted concrete or bitumen at the site, there is the potential for leaching of PFAS from concrete or bitumen surfaces within the fire training area to underlying and surrounding soil and groundwater	High significance Contamination associated with this PCA will likely continue to contribute to contaminant mass flux into the environment over time.

8. Preliminary conceptual site model (PCSM)

A preliminary conceptual site model (PCSM) is a qualitative analysis tool which identifies the contamination sources, transport mechanisms, exposure pathways and receptors considered in a site-specific risk assessment.

For an identifiable risk to exist, an exposure pathway must be present which requires each of the following to be identified:

- Presence of substances that may cause harm (SOURCE)
- Presence of a receptor which may be harmed (RECEPTOR)
- Existence of a means of exposing a receptor to the source (EXPOSURE ROUTE/EXPOSURE PATHWAY)

A PCSM has been developed based on GHDs understanding of the site setting, including geology, hydrogeology and surrounding land use in order to identify potentially significant source-pathway-receptor (SPR) linkages in respect to the potential risks that may be encountered during commercial/industrial activities at the site.

8.1 Chemicals of potential concern

In accordance with the VSCAP, this PSI is limited to PFAS, which are the primary chemicals of potential concern (CoPC) for this site.

Scientists have identified thousands of individual PFAS compounds, but commercial laboratories only typically analyse a limited selection of these. The standard analytical suite focuses on the 28 individual PFAS that generally account for the majority of the PFAS mass in environmental samples and that are understood to be the most persistent, bioaccumulative and toxic.

The groups of PFAS included in the standard analytical suite include:

- Perfluoroalkyl sulfonates (PFSA), of which PFOS and PFHxS are the most well-studied
- Perfluoroalkyl carboxylates (PFCA), of which PFOA is the most well-studied
- Fluorotelomers, including 8:2 FTS and 6:2 FTS
- Perfluoroalkyl sulfonamides

8.2 Sources of PFAS contamination

Based on the site history investigation, the primary source of PFAS contamination at the site is the historical use of PFAS containing firefighting foams for firefighting training activities.

The following known and potential sources of PFAS were identified on-site:

- Historical wash down of PFAS containing foams from appliances/equipment on the concrete pad/pavers along eastern boundary
- Historical release of approximately 1,500-1,800 L of foam and rinse water released in the washdown area
- Appliances and equipment were washed down on the concrete pad/pavers along the eastern site boundary
- Ongoing leaching of PFAS from impacted soils beneath the open areas historically released during post-incident washing down of appliances. It should be noted that all appliances on-site do not contain PFAS and are not considered an on-going risk to human health or the environment
- Ongoing leaching of PFAS from impacted surfaces (concrete slabs and bitumen) associated with wash down activities
- Storage of AFFF on-site was within the firefighting appliances as well as a special storage pod just south of the building's veranda, where approximately 1000 L IBCs of AFFF were stored in case of major incidents

8.3 Exposure pathways

For an exposure to occur, a complete pathway must exist between a source of contamination and a receptor. Where the exposure pathway is incomplete, there is no exposure, and hence no risk. The following exposure pathways need to be considered:

- Consumption of contaminated groundwater,
- Consumption of contaminated off-site edible vegetation ,
- Direct dermal contact or incidental ingestion of contaminated soil, groundwater or surface runoff from impacted surfaces (concrete slabs or bitumen),
- Inhalation or ingestion of contaminated soil or dust,
- Surface runoff and groundwater transporting the contaminants off-site to the downstream and down-gradient neighbouring area.

8.4 Receptors

The potential receptors relevant to potential site activities are:

- Current and future on-site staff and visitors
- Subsurface construction workers and maintenance workers (on-site and down-gradient off-site) who may come into contact with contaminated soil and/or groundwater
- On and off-site vegetation such as trees and bushes
- People using groundwater for domestic and drinking purposes down-gradient of the site
- People using groundwater for irrigation of off-site edible vegetation with which they grow for consumption
- People growing edible vegetation in open soil which may interact with off-site groundwater
- People using off-site groundwater for recreational purposes such as filling of swimming pools
- Off-site surface water bodies where stormwater systems and/or groundwater discharge

8.5 Potentially complete exposure pathways

Potential SPR linkages based on the PCSM are summarised in Table 8.1.

Table 8.1 Preliminary Conceptual Site Model

Potential source	Receptor	Pathway	Pathway present?
On-site PFAS impacted soils	Site users, visitors, maintenance, and construction workers	Direct dermal contact with contaminated soil	Possible PFAS concentrations detected to date in on-site soils were below the adopted Tier 1 HIL B for residential minimal accessible soil land use. However, the extent of PFAS impacts in soils across the site has not been determined yet.
		Incidental ingestion of contaminated soil	
		Inhalation of contaminated soil or dust from disturbed soils	
	Ecosystem at, and immediately surrounding, the site	Direct contact with contaminated soil	Possible PFAS concentrations detected to date in soil on-site (GHD 2019) exceeded the adopted Tier 1 ecological criteria for indirect exposure. The unsealed areas of the site and trees are accessible to flora and fauna, however considering the highly urbanised environment it is considered unlikely to impact a high value ecosystem. However, as the full extend of PFAS impacts to soil and the exceedances of the assessment criteria, impact to ecosystems cannot be precluded.
		Ingestion of contaminated soil	
		Bioaccumulation through indirect contact	
	Groundwater beneath the site	Rainwater/surface runoff leaching impacted soil followed by migration through porous media into groundwater	Possible The potential of PFAS leaching from contaminated soil into the groundwater has not been tested yet. Given the use of PFAS containing AFFF on-site and the allowance of wastewater to soak into the ground it is possible that this has infiltrated into groundwater.
		Historical soaking of washdown wastewater into the ground	
		Storage of impacted water in subsurface tanks and leaking to groundwater	
On-site PFAS impacted concrete and bitumen surfaces	Groundwater beneath the site	Rainwater/surface runoff leaching impacted soil followed by migration through porous media into groundwater	Possible Concrete and bitumen surfaces on-site that have historically been exposed to PFAS containing AFFF during training activities have not been tested for PFAS yet. The potential of PFAS leaching from contaminated concrete or bitumen on-site into the groundwater has not been tested yet.
		Historical soaking of washdown wastewater into the ground	

Potential source	Receptor	Pathway	Pathway present?
Off-site PFAS impacted soils	Off-site maintenance and subsurface construction workers	Direct dermal contact with contaminated soil	<p>Unlikely</p> <p>PFAS concentrations detected to date in on-site soils were below the adopted Tier 1 HIL B for residential minimal soil accessible land use. It is considered unlikely that off-site visitors, maintenance, or construction workers would be exposed to PFAS quantities detrimental to their health. However, the extent of PFAS impacts in soils on-site and off-site has not been determined yet.</p>
		Incidental ingestion of contaminated soil	
		Inhalation of contaminated soil or dust from disturbed soils	
	Off-site public open space	Direct dermal contact or ingestion of contaminated soils	<p>Unlikely</p> <p>PFAS concentrations detected to date in on-site soils were below the adopted Tier 1 HIL B for residential minimal soil accessible land use, which is more conservative than the HIL C public open space guideline values. However, the extent of PFAS impacts in soils on-site and off-site has not been determined yet.</p>
Ecosystem surrounding the site		Direct contact with contaminated soil	<p>Possible</p> <p>PFAS concentrations detected to date in soil on-site (GHD 2019) exceeded the adopted Tier 1 interim ecological criteria for indirect exposure, with this in mind the use of PFAS substances extended beyond the site boundaries</p>
		Ingestion of contaminated soil	
		Bioaccumulation through indirect contact	
Groundwater beneath impacted soil		Rainwater/surface runoff leaching impacted soil followed by migration through porous media into groundwater	<p>Possible</p> <p>The potential of PFAS leaching from contaminated soil into the groundwater has not been tested yet.</p>
PFAS-impacted groundwater	People using groundwater for: domestic and drinking purposes	Consumption of contaminated groundwater	<p>Unlikely</p> <p>The presence of PFAS contamination in groundwater on-site or down hydraulic gradient of the site has not been assessed.</p> <p>Within a 2.0 km radius of the site 16 registered well had TDS values in groundwater below 1,200 mg/L, which is considered suitable for domestic and primary irrigation purposes (Gov SA 2015). As some of the wells had an unlisted purpose, potable use of groundwater cannot be ruled out at this stage.</p> <p>The region of the site has reticulated water supply so it is considered unlikely that groundwater would be utilised for consumption.</p>

Potential source	Receptor	Pathway	Pathway present?
	People using groundwater for irrigation of vegetable gardens and/or fruit trees with which they grow produce for consumption	Consumption of fruit and vegetables irrigated by contaminated groundwater	<p>Possible</p> <p>Nine registered wells within a 2.0 km radius of the site had irrigation purposes.</p> <p>The extent of PFAS in groundwater down hydraulic gradient of the site has not been assessed and residential properties with gardens where edible vegetation could be grown are present within 2.0 km of the site.</p>
	People growing edible vegetation and/or in open soil which may interact with groundwater	Consumption of PFAS impacted edible vegetation	<p>On-site: No</p> <p>MFS staff have removed all edible vegetation from the MFS sites.</p> <p>Off-site: possible</p> <p>Currently the groundwater flow direction is unknown. The presence of PFAS contamination in the inferred groundwater flow direction off the site has not been assessed and residential properties with gardens where edible vegetation could be grown are present within 2.0 km of the site.</p>
	People using groundwater for recreational purposes such as filling of swimming pools	Incidental ingestion of contaminated groundwater	<p>Possible</p> <p>The extent of PFAS in groundwater down hydraulic gradient of the site has not been assessed and one well within a 2.0 km radius of the site was identified as having an environmental/recreational purpose.</p>
	On-site and down gradient off-site maintenance and sub-surface construction workers that contact PFAS contaminated groundwater	Direct dermal contact or incidental ingestion of contaminated groundwater	<p>Possible</p> <p>Whilst it is possible that off-site maintenance or sub-surface construction workers could incidentally ingest contaminated groundwater, it is unlikely that they will ingest quantities detrimental to their health. Dermal contact is a possible pathway given the expected shallow depth of groundwater at the site.</p>
	Freshwater ecosystem of Sturt River, Brown Hill Creek/Willawilla and Patawalonga River	<p>Direct contact and/or ingestion with contaminated groundwater.</p> <p>Bioaccumulation through direct contact.</p>	<p>Possible</p> <p>All surface water bodies lie within the 2km radius of the site. Groundwater is reported to be at a minimum, approximately 2 - 5 m bgl and the depth of nearby surface water bodies and groundwater elevations have not been assessed. The extent of PFAS in groundwater down hydraulic gradient of the site has not been assessed, nor has the interaction of surface water with the groundwater beneath it. This cannot be ruled out at this stage.</p>
	Recreational users of Sturt River, Brown Hill Creek/Willawilla and Patawalonga River	Direct contact and/or ingestion with contaminated groundwater.	

8.6 PCSM data gaps

Based upon the results of this PSI and the PCSM the following data gaps have been identified:

- The lateral and vertical extent of PFAS contamination in groundwater has not been delineated
- The lateral and vertical extent of PFAS contamination in soil across the site has not been delineated
- The uptake of PFAS by on and off-site vegetation has not been assessed
- The extent of PFAS contamination in on-site concrete and paved surfaces and the associated PFAS flux from these materials has not been assessed
- The extent of groundwater use for domestic (i.e. potable), irrigation or recreational purposes downgradient of the site remains remain unknown
- The potential for PFAS to leach from contaminated on-site soil into the groundwater has not been assessed

9. Conclusions

GHD was engaged by the MFS to undertake a desktop preliminary site investigation for the Camden Park fire station located at 65 – 69 Morphett Road Camden Park, SA.

The objective of the PSI was to assess the current and historical activities at the site and surrounding properties that may have involved the use of PFAS containing foam, thus contributing to PFAS contamination that may pose a risk to human health or the environment.

The results of this desktop investigation provided information for the development of a PCSM and to inform the preparation of an SAQP for further assessments.

Determination of site contamination and risk to human health and environment

- Questionnaires confirmed the storage of PFAS containing AFFF at the site since 1994
- Questionnaires provided evidence of one incident was reported where an AFFF tank of an appliance at the Camden Park Fire Station had to be drained. There was approximately 1,500-1,800 L of foam and rinse water released in the washdown area
- Limited soil sampling has been undertaken on-site with samples reporting results below the HIL B adopted assessment criteria, however exceeded the ecological indirect exposure guidelines
- While soil on-site has confirmed the presence of PFAS, the extent of PFAS in soil and groundwater on-site and off-site has not yet been determined

The PCSM identified the following potentially complete PFAS exposure pathways:

- Exposure of site users, visitors, maintenance and construction workers to PFAS via direct dermal contact with contaminated soil, incidental ingestion of contaminated soil or inhalation of contaminated soil/dust from disturbed soils
- Leaching of PFAS from contaminated soils or concrete/bitumen surfaces followed by migration through porous media into groundwater
- Consumption of contaminated groundwater extracted off-site for domestic/drinking purposes
- Consumption of edible vegetation grown off-site where plants were irrigated with contaminated groundwater or where plant roots accessed shallow contaminated groundwater
- Direct contact or ingestion of groundwater through intrusive maintenance works
- Incidental ingestion of contaminated groundwater extracted off-site for recreational purposes such as filling of swimming pools

Recommendations

GHD recommends that a SAQP be prepared to undertake further intrusive investigations to determine the nature and extent of identified PFAS impacts in on-site and off-site areas associated with historical activities at the site and to identify and assess any potential risks to human health and the environment in the context of relevant current and potential future land uses.

10. References

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Figures

- Figure 1* *Site Location Plan*
- Figure 2* *Historical Sampling Locations*
- Figure 3* *Site Layout Plan*
- Figure 4* *Surrounding land use and zoning*

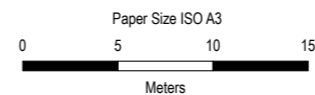


Legend

- Roads
- ▭ Site Boundary
- ▭ Cadastre

Data Disclaimer

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Map Projection: Transverse Mercator
Horizontal Datum: GDA 1994
Grid: GDA 1994 MGA Zone 54

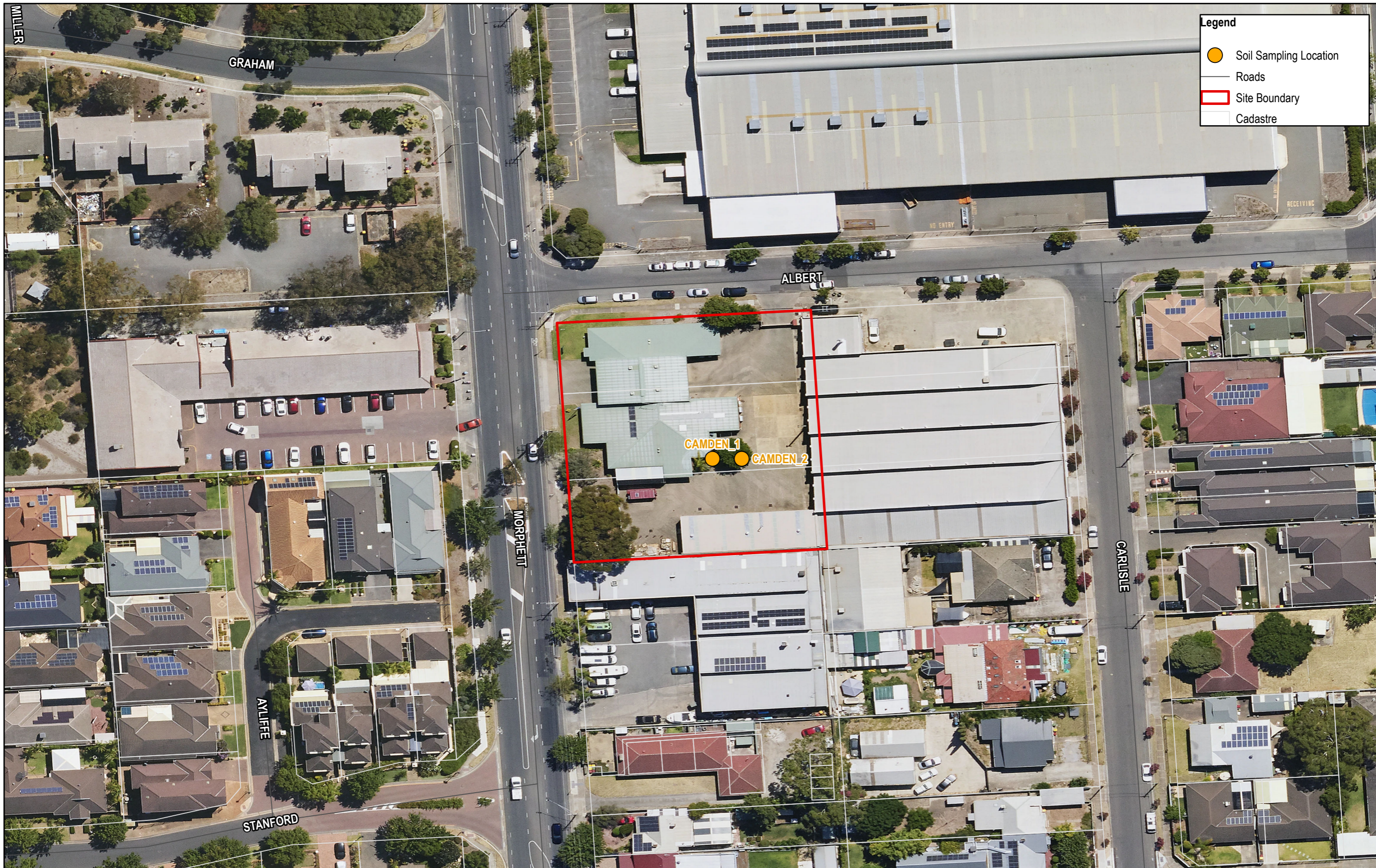


South Australian Metropolitan Fire Service
PSI/SAQP for MFS High Risk Sites

Project No. 12602101
Revision No. A
Date 05/05/2023

Camden Park Site Location Plan

FIGURE 1



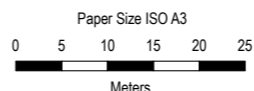
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- Soil Sampling Location
- Roads
- Site Boundary
- Cadastre

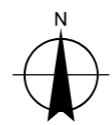
CAMDEN_1
CAMDEN_2

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South Australian Metropolitan Fire Service
PSI/SAQP for MFS High Risk Sites

**Camden Park Historical
Sampling Locations 2019**

Project No. 12602101
Revision No. A
Date 05/05/2023

FIGURE 2

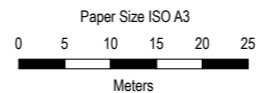


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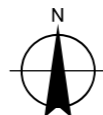
- Stormwater Pits
- Wash Down Bay
- Former AFFF Road Storage
- Site Boundary
- Cadastre

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Map Projection: Transverse Mercator
 Horizontal Datum: GDA 1994
 Grid: GDA 1994 MGA Zone 54

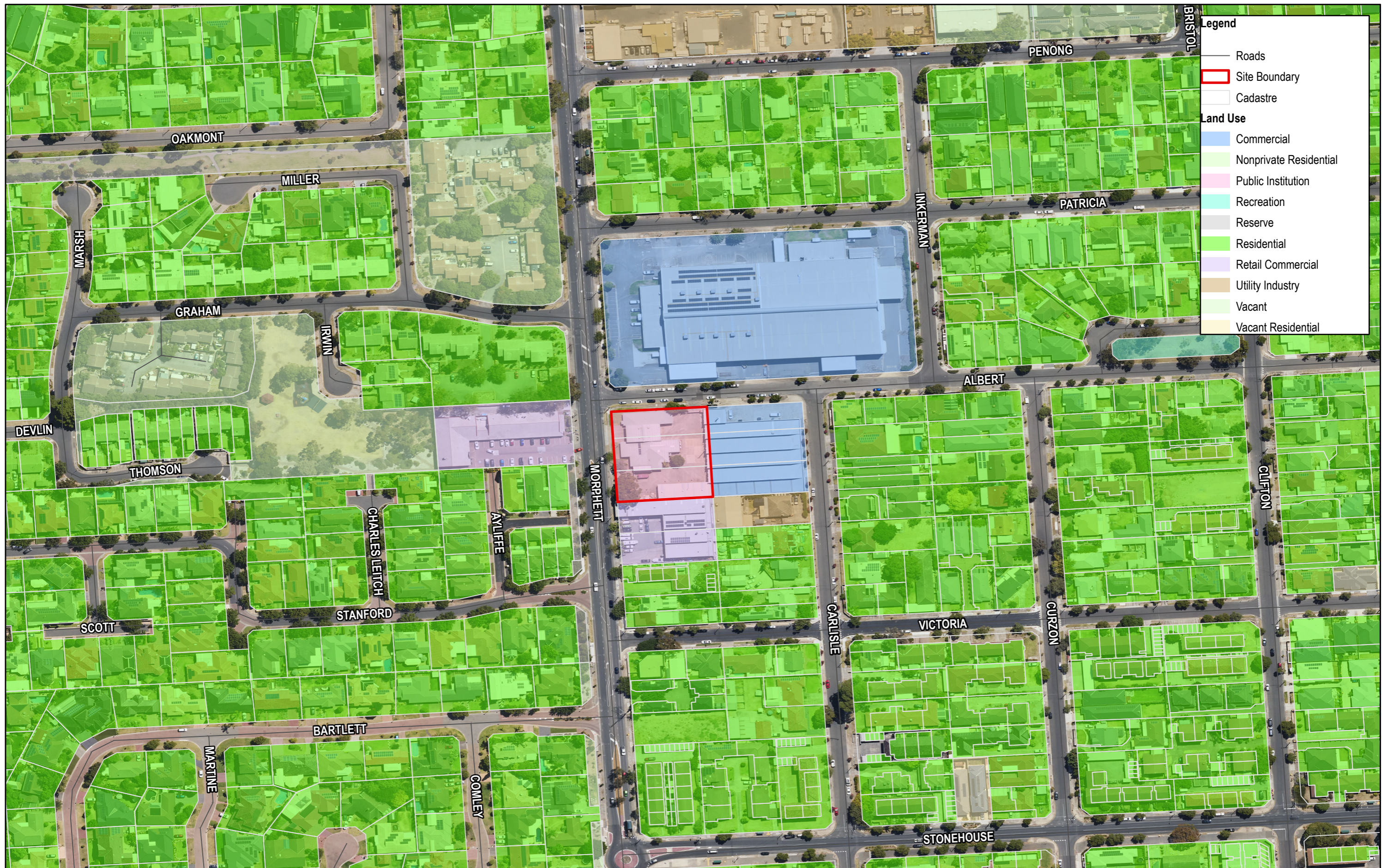


**South Australian Metropolitan Fire Service
 PSI/SAQP for MFS High Risk Sites**

Project No. **12602101**
 Revision No. **A**
 Date **08/05/2023**

Camden Park Site Layout Plan

FIGURE 3



Legend

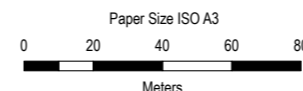
- Roads
- ▭ Site Boundary
- ▭ Cadastre

Land Use

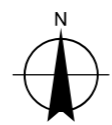
- Commercial
- Nonprivate Residential
- Public Institution
- Recreation
- Reserve
- Residential
- Retail Commercial
- Utility Industry
- Vacant
- Vacant Residential

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Map Projection: Transverse Mercator
Horizontal Datum: GDA 1994
Grid: GDA 1994 MGA Zone 54



South Australian Metropolitan Fire Service
PSI/SAQP for MFS High Risk Sites

Project No. 12602101
Revision No. A
Date 05/05/2023

Camden Surrounding Land Use Plan

FIGURE 4

Appendices

Appendix A

SA EPA Correspondence

OFFICIAL



Environment Protection Authority

GPO Box 2607 Adelaide SA 5001

T (08) 8204 2004

Country areas 1800 623 445

EPA GENI 62917

Krystle Mitchell
Senior Scientific and Environmental Officer
South Australian Metropolitan Fire Service
By Email: Krystle.Mitchell@eso.sa.gov.au

Dear Ms Mitchell,

RE: REVIEW OF SITE CONTAMINATION REPORT – ACTION REQUIRED

Site: Various Metropolitan Fire Service (MFS) Fire Stations, South Australia

Thank you for providing the Environment Protection Authority (EPA) with a copy of the following report:

- *MFS 17 Fire Stations PFAS Risk Profiling*, prepared by GHD and dated 26 October 2022.

The above report documents a desktop risk profiling and prioritisation assessment completed for 17 MFS stations previously identified as containing PFAS contamination, based on limited site sampling completed in 2019 (GHD 2019)¹.

The EPA requests that you submit a plan of proposed works and associated timelines to address the highest risk sites by **30 June 2023**.

If you agree to undertake the above listed works it is requested that you submit written acknowledgement to the EPA stating as such. If you wish to discuss potential alterations to the recommended works or delivery date please contact the EPA as soon as possible.

It is not clear in the above report whether stations where no soil sampling was completed, or where the limited sampling showed no site contamination, were considered as part of the risk screening assessment. The EPA notes that the sampling documented in GHD (2019) was highly limited and may not capture all potential PFAS source areas at a station. The EPA recommends that these stations be risk profiled if not undertaken previously.

Please provide a copy of this letter to your engaged consultant to assist them in developing a scope of works for the relevant sites. Fact sheets relating to your obligations under the *Environment Protection Act 1993* and how to engage a site contamination consultant be found at www.epa.sa.gov.au. If you would like further assistance on this matter please contact Brooke Ryan on (08) 8204 8525 or at brooke.ryan2@sa.gov.au.

Yours sincerely

H Custance

Hannah Custance

PRINCIPAL ADVISER, SITE CONTAMINATION

ENVIRONMENT PROTECTION AUTHORITY

Date: 1 February 2023

Cc: Ben Petticrew, Technical/Project Director – Contamination Assessment and Remediation, GHD (ben.petticrew@ghd.com)

¹ *MFS State Wide Appliance and Station Sampling*, prepared by GHD and dated May 2019.

Appendix B

Lotsearch Report LS040324 EP



LOTSEARCH

LOTSEARCH ENVIRO PROFESSIONAL

Date: 13 Feb 2023 16:56:06

Reference: LS040324 EP

Address: 65-69 Morphett Road, Camden Park, SA 5038

Disclaimer:

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

Dataset Listing

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

Dataset Name	Custodian	Supply Date	Currency Date	Update Frequency	Dataset Buffer (m)	No. Features On-site	No. Features within 100m	No. Features within Buffer
Cadastre Boundaries	PSMA Australia Limited	01/11/2021	01/11/2021	Quarterly	-	-	-	-
EPA Site Contamination Index	EPA South Australia	13/02/2023	13/02/2023	Monthly	1000m	1	4	47
EPA Environmental Protection Orders	EPA South Australia	25/01/2023	25/01/2023	Monthly	1000m	0	1	31
EPA Environmental Authorisations	EPA South Australia	25/01/2023	25/01/2023	Monthly	1000m	0	0	29
EPA Assessment Areas	EPA South Australia	25/01/2023	25/01/2023	Quarterly	1000m	0	0	1
EPA Groundwater Prohibition Areas	EPA South Australia	23/01/2023	20/08/2022	Monthly	1000m	0	0	0
Defence PFAS Investigation & Management Program - Investigation Sites	Department of Defence	06/01/2023	06/01/2023	Monthly	2000m	0	0	0
Defence PFAS Investigation & Management Program - Management Sites	Department of Defence	06/01/2023	06/01/2023	Monthly	2000m	0	0	0
Airservices Australia National PFAS Management Program	Airservices Australia	13/02/2023	13/02/2023	Monthly	2000m	0	0	1
Defence 3 Year Regional Contamination Investigation Program	Department of Defence	02/09/2022	02/09/2022	Quarterly	2000m	0	0	0
National Waste Management Facilities Database	Geoscience Australia	26/05/2022	07/03/2017	Annually	1000m	0	0	0
EPA Collection Depots	EPA South Australia	20/12/2022	20/08/2022	Quarterly	1000m	0	0	1
National Liquid Fuel Facilities	Geoscience Australia	23/08/2022	15/03/2012	Annually	1000m	0	0	1
Historical Business Directories (Premise & Intersection Matches)	Hardie Grant, Sands & McDougall			Not required	100m	4	25	25
Historical Business Directories (Road & Area Matches)	Hardie Grant, Sands & McDougall			Not required	100m	-	26	26
UBD Business Directory Dry Cleaners & Motor Garages/Service Stations (Premise & Intersection Matches)	Hardie Grant, Sands & McDougall			Not required	250m	0	0	3
UBD Business Directory Dry Cleaners & Motor Garages/Service Stations (Road & Area Matches)	Hardie Grant, Sands & McDougall			Not required	250m	-	2	2
Mines and Mineral Deposits	Department for Energy and Mining	13/02/2023	13/02/2023	Quarterly	1000m	0	0	0
Groundwater Aquifers	Department for Environment and Water	29/03/2021	01/01/2008	Annually	1000m	1	1	1
Drillholes	Department for Environment and Water	19/10/2022	07/10/2022	Quarterly	2000m	0	2	468
Surface Geology 1:100,000	Department for Energy and Mining	12/07/2018	01/07/2018	As required	1000m	1	1	3
Geological Linear Structures 1:100,000	Department for Energy and Mining	12/07/2018	01/07/2018	As required	1000m	0	0	2
Atlas of Australian Soils	ABARES	19/05/2017	17/02/2011	As required	1000m	2	2	2
Soil Types	Department for Environment and Water	12/07/2018	01/07/2009	As required	1000m	1	1	1
Atlas of Australian Acid Sulfate Soils	CSIRO	19/01/2017	21/02/2013	As required	1000m	1	1	2
Acid Sulfate Soil Potential	Department for Environment and Water	06/04/2022	18/02/2020	Annually	1000m	1	1	1
Soil Salinity - Watertable Induced	Department for Environment and Water	23/06/2022	09/06/2016	Annually	1000m	1	1	1
Soil Salinity - Non-watertable	Department for Environment and Water	19/04/2022	18/02/2020	Annually	1000m	1	1	1
Soil Salinity - Non-watertable (magnesia patches)	Department for Environment and Water	19/04/2022	18/02/2020	Annually	1000m	1	1	1

Dataset Name	Custodian	Supply Date	Currency Date	Update Frequency	Dataset Buffer (m)	No. Features On-site	No. Features within 100m	No. Features within Buffer
Planning and Design Code - Zones	Attorney-General's Department	13/02/2023	02/02/2023	Monthly	1000m	1	3	21
Planning and Design Code - Subzones	Attorney-General's Department	13/02/2023	08/12/2022	Monthly	1000m	0	0	1
Land Use Generalised 2020	Department of Planning, Transport and Infrastructure	18/10/2022	07/03/2022	Annually	1000m	1	7	12
Commonwealth Heritage List	Australian Government Department of Agriculture, Water and the Environment	03/06/2022	13/04/2022	Annually	1000m	0	0	0
National Heritage List	Australian Government Department of Agriculture, Water and the Environment	03/06/2022	13/04/2022	Annually	1000m	0	0	0
State Heritage Areas	Department for Environment and Water	06/04/2022	18/02/2020	Annually	1000m	0	0	0
SA Heritage Places	Department for Environment and Water	19/10/2022	23/09/2021	Quarterly	1000m	0	0	6
Aboriginal Land	Department for Energy and Mining	06/04/2022	08/04/2018	Annually	1000m	0	0	0
Planning and Design Code - Overlays - Bushfire	Attorney-General's Department	13/02/2023	13/02/2023	Monthly	1000m	0	0	0
Bushfires and Prescribed Burns History	Department for Environment and Water	06/04/2022	24/02/2020	Annually	1000m	0	0	0
Planning and Design Code - Overlays - Flooding	Attorney-General's Department	13/02/2023	13/02/2023	Monthly	1000m	1	1	3
Groundwater Dependent Ecosystems Atlas	Bureau of Meteorology	28/10/2022	26/10/2022	Annually	1000m	0	0	0
Inflow Dependent Ecosystems Likelihood	Bureau of Meteorology	28/10/2022	26/10/2022	Annually	1000m	0	0	0
Ramsar Wetland Areas	Department for Environment and Water	28/03/2022	18/02/2020	Annually	1000m	0	0	0

Site Diagram

65-69 Morphett Road, Camden Park, SA 5038



<p>Legend</p> <ul style="list-style-type: none"> Site Boundary Internal Parcel Boundaries 	<p>Total Area: 2771m²</p> <p>Total Perimeter: 211m</p> <p><small>Disclaimers:</small></p> <p>Measurements are approximate only and may have been simplified or smaller lengths removed for readability.</p> <p>Parcels that make up a small percentage of the total site area have not been labelled for increased legibility.</p>	<p>Scale:</p> <p>Data Source Aerial Imagery: © Aerometrex Pty Ltd</p> <table border="1" style="width: 100%;"> <tr> <td style="width: 50%;">Coordinate System: GDA 1994 MGA Zone 54</td> <td style="width: 50%;">Date: 13 February 2023</td> </tr> </table>	Coordinate System: GDA 1994 MGA Zone 54	Date: 13 February 2023
Coordinate System: GDA 1994 MGA Zone 54	Date: 13 February 2023			

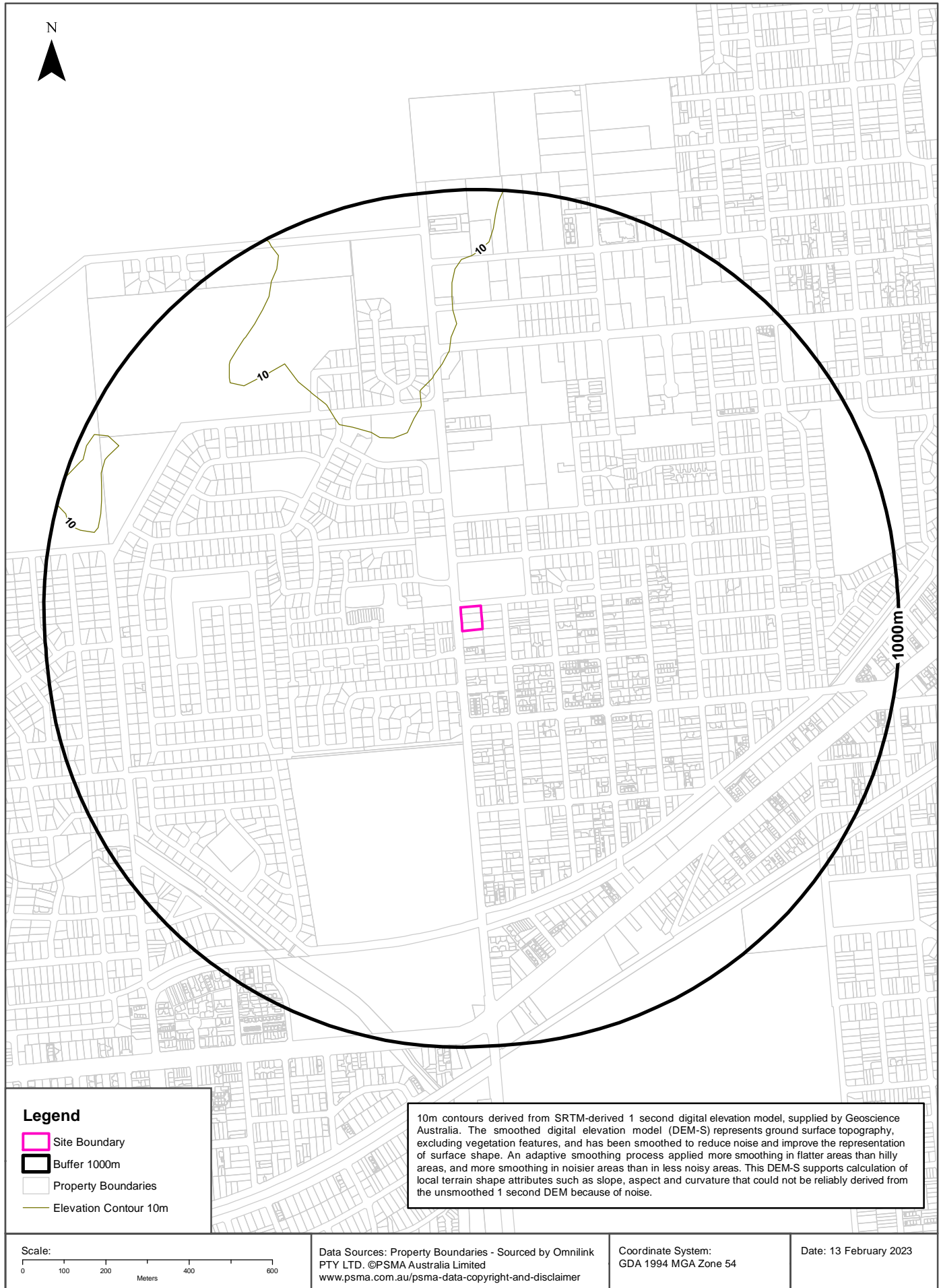
Topographic Features

65-69 Morphett Road, Camden Park, SA 5038

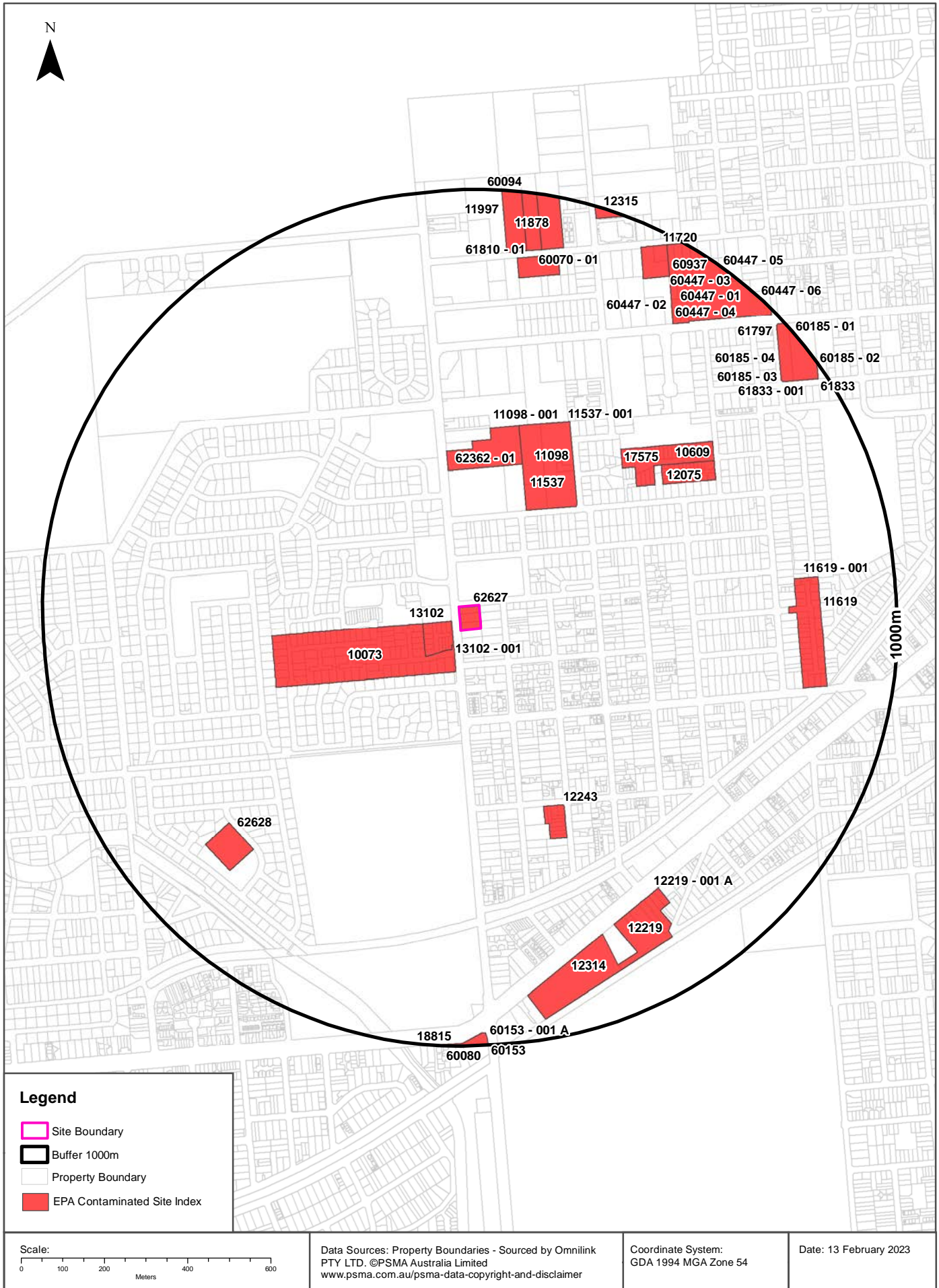


Elevation Contours

65-69 Morphett Road, Camden Park, SA 5038



EPA Site Contamination Index
 65-69 Morphett Road, Camden Park, SA 5038



EPA Contaminated Land

65-69 Morphett Road, Camden Park, SA 5038

EPA Site Contamination Index

Sites on the EPA Contamination Index within the dataset buffer:

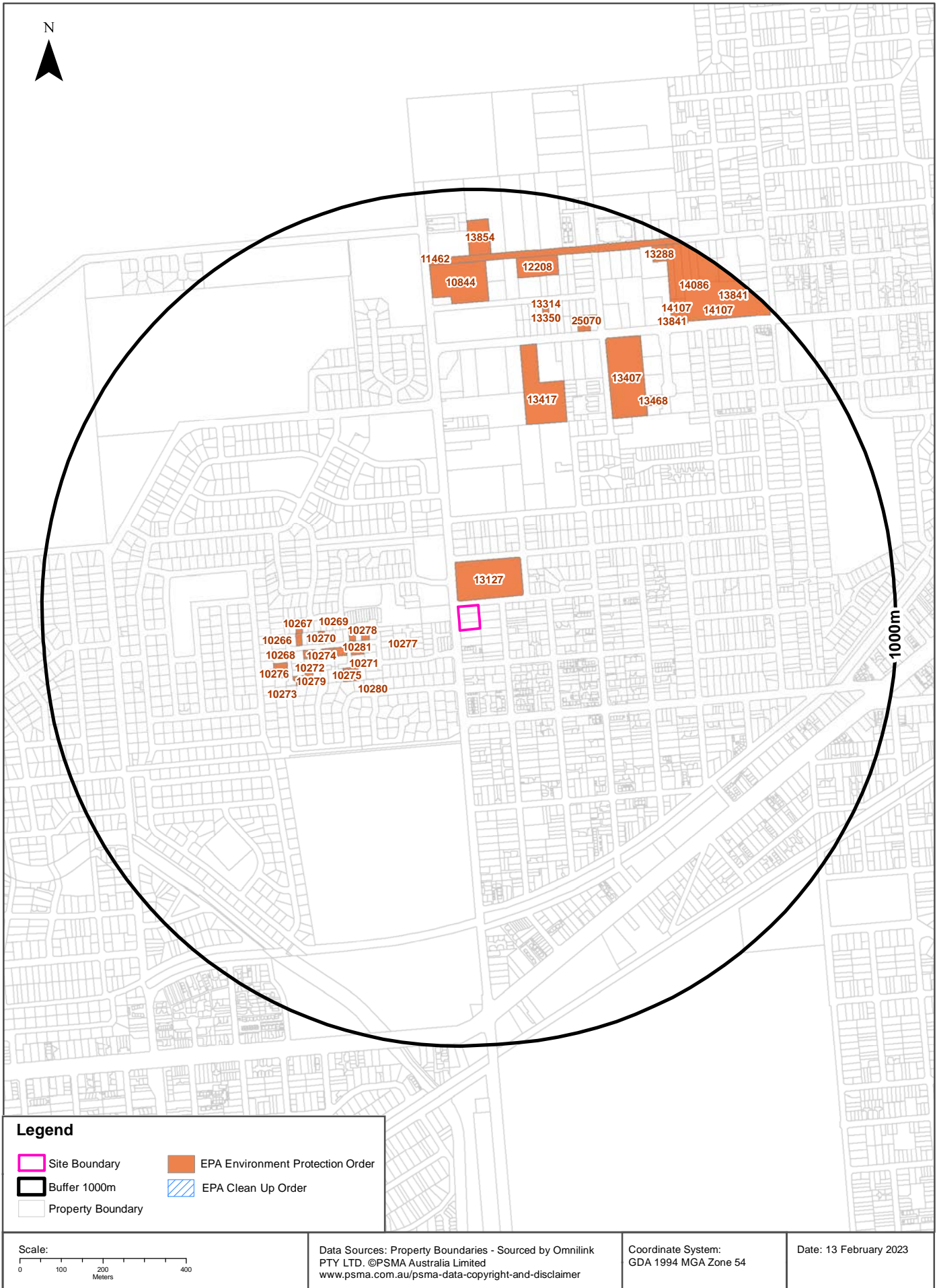
Notification No	Type	Address	Activity	Status	LocConf	Dist	Dir
62627	109 Notification	65-69 Morphett Road CAMDEN PARK SA 5038	Fire stations; Fire training areas	Current EPA List	Premise Match	0m	On-site
10073	SAHC	Lots 100 & 101 Morphett Road NOVAR GARDENS SA 5040	Not recorded	Current EPA List	Premise Match	20m	West
13102	Pre 1 July 2009 Audit Notification	102 Morphett Road NOVAR GARDENS SA 5040	Not recorded	Current EPA List	Premise Match	20m	South West
13102 - 001	Pre 1 July 2009 Audit Report	102 Morphett Road NOVAR GARDENS SA 5040	Not recorded	Current EPA List	Premise Match	20m	South West
11098	Pre 1 July 2009 Audit Notification	55-65 Penong Avenue CAMDEN PARK SA 5038	Not recorded	Current EPA List	Premise Match	255m	North East
11098 - 001	Pre 1 July 2009 Audit Report	55-65 Penong Avenue CAMDEN PARK SA 5038	Not recorded	Current EPA List	Premise Match	255m	North East
11537	Pre 1 July 2009 Audit Notification	55-65 Penong Avenue CAMDEN PARK SA 5038	Not recorded	Current EPA List	Premise Match	255m	North East
11537 - 001	Pre 1 July 2009 Audit Report	55-65 Penong Avenue CAMDEN PARK SA 5038	Not recorded	Current EPA List	Premise Match	255m	North East
62362 - 01	S83A Notification	99-103 Morphett Road CAMDEN PARK SA 5038	Listed Substances (storage); Transport depots or loading sites	Current EPA List	Premise Match	329m	North
12243	SAHC	12-14 Curzon Street CAMDEN PARK SA 5038	Not recorded	Current EPA List	Premise Match	452m	South East
10609	SAHC	1,3-5,7-25 PRITCHARD CT & 26,28 FITZROY AVE CAMDEN PARK SA 5038	Not recorded	Current EPA List	Premise Match	473m	North East
17575	109 Notification	1,3-5,7-25 Pritchard Ct & 26,28 Fitzroy Ave CAMDEN PARK SA 5038	Not recorded	Current EPA List	Premise Match	473m	North East
12075	SAHC	30 Fitzroy Avenue CAMDEN PARK SA 5038	Not recorded	Current EPA List	Premise Match	528m	North East
62628	S83 Notification	19-23 Sheoak Avenue NOVAR GARDENS SA 5040	Electrical transformer or capacitor works	Current EPA List	Premise Match	724m	South West
11619	Pre 1 July 2009 Audit Notification	Stonehouse Avenue PLYMPTON SA 5038	Not recorded	Current EPA List	Premise Match	739m	East
11619 - 001	Pre 1 July 2009 Audit Report	Stonehouse Avenue PLYMPTON SA 5038	Not recorded	Current EPA List	Premise Match	739m	East
12219	Pre 1 July 2009 Audit Notification	424-440 Anzac Highway CAMDEN PARK SA 5038	Not recorded	Current EPA List	Premise Match	754m	South East
12219 - 001 A	Pre 1 July 2009 Audit Report	424-440 Anzac Highway CAMDEN PARK SA 5038	Service stations	Current EPA List	Premise Match	754m	South East
12314	S83 Notification	Lots 3-6, 14, 18-19 424-440 Anzac Highway CAMDEN PARK SA 5038	Not recorded	Current EPA List	Premise Match	754m	South
61810 - 01	S83A Notification	51-59 Kinkaid Avenue NORTH PLYMPTON SA 5037	Wood preservation works	Current EPA List	Premise Match	793m	North
60447 - 01	S83A Notification	76-92 Mooringe Avenue NORTH PLYMPTON SA 5037	Fuel burning facilities; Metal coating, finishing or spray painting; Metal forging	Current EPA List	Premise Match	820m	North East
60447 - 02	S83A Notification	76-92 Mooringe Avenue NORTH PLYMPTON SA 5037	Fuel burning facilities; Metal coating, finishing or spray painting; Metal forging	Current EPA List	Premise Match	820m	North East
60447 - 03	S83A Notification	76-92 Mooringe Avenue NORTH PLYMPTON SA 5037	Fuel burning facilities; Metal coating, finishing or spray painting; Metal forging	Current EPA List	Premise Match	820m	North East
60447 - 04	S83A Notification	76-92 Mooringe Avenue NORTH PLYMPTON SA 5037	Fuel burning facilities; Metal coating, finishing or spray painting; Metal forging	Current EPA List	Premise Match	820m	North East

Notification No	Type	Address	Activity	Status	LocConf	Dist	Dir
60447 - 05	S83A Notification	76-92 Mooringe Avenue NORTH PLYMPTON SA 5037	Fuel burning facilities; Metal coating, finishing or spray painting; Metal forging	Current EPA List	Premise Match	820m	North East
60447 - 06	S83A Notification	76-92 Mooringe Avenue NORTH PLYMPTON SA 5037	Fuel burning facilities; Metal coating, finishing or spray painting; Metal forging	Current EPA List	Premise Match	820m	North East
60937	S83 Notification	76-92 Mooringe Avenue NORTH PLYMPTON SA 5037	Not recorded	Current EPA List	Premise Match	820m	North East
11878	S83 Notification	42-52 Kinkaid Avenue NORTH PLYMPTON SA 5037	Not recorded	Current EPA List	Premise Match	850m	North
11997	S83 Notification	54-58 Kinkaid Avenue NORTH PLYMPTON SA 5037	Not recorded	Current EPA List	Premise Match	850m	North
60094	Audit Notification	48-52 Kinkaid Avenue NORTH PLYMPTON SA 5037	Not recorded	Current EPA List	Premise Match	850m	North
60094	Audit Termination	48-52 Kinkaid Avenue NORTH PLYMPTON SA 5037	Not recorded	Current EPA List	Premise Match	850m	North
60070 - 01	S83A Notification	Lot 701 Kinkaid Avenue NORTH PLYMPTON SA 5037	Paint manufacture	Current EPA List	Premise Match	859m	North
11720	S83 Notification	25-29 Kinkaid Avenue NORTH PLYMPTON SA 5037	Not recorded	Current EPA List	Premise Match	878m	North East
60185 - 01	S83A Notification	65 - 73 Mooringe Avenue PLYMPTON SA 5038	Asphalt or bitumen works	Current EPA List	Premise Match	904m	North East
60185 - 02	S83A Notification	65 - 73 Mooringe Avenue PLYMPTON SA 5038	Asphalt or bitumen works	Current EPA List	Premise Match	904m	North East
60185 - 03	S83A Notification	65 - 73 Mooringe Avenue PLYMPTON SA 5038	Asphalt or bitumen works	Current EPA List	Premise Match	904m	North East
60185 - 04	S83A Notification	65 - 73 Mooringe Avenue PLYMPTON SA 5038	Asphalt or bitumen works	Current EPA List	Premise Match	904m	North East
61797	Liability Transfer	65-73 Mooringe Avenue PLYMPTON SA 5038	Asphalt or bitumen works	Current EPA List	Premise Match	904m	North East
61833	Audit Notification	65-73 Mooringe Avenue PLYMPTON SA 5038	Asphalt or bitumen works; Fill or soil importation; Listed Substances (storage)	Current EPA List	Premise Match	904m	North East
61833 - 001	Audit Report	65-73 Mooringe Avenue PLYMPTON SA 5038	Asphalt or bitumen works; Fill or soil importation; Listed Substances (storage)	Current EPA List	Premise Match	904m	North East
18815	Pre 1 July 2009 Audit Termination	520 and 528 Anzac Highway GLENELG EAST SA 5045	Not recorded	Current EPA List	Premise Match	968m	South
18815	Pre 1 July 2009 Audit Notification	520 and 528 Anzac Highway GLENELG EAST SA 5045	Not recorded	Current EPA List	Premise Match	968m	South
60080	Audit Notification	520 & 528 Anzac Highway GLENELG EAST SA 5045	Not recorded	Current EPA List	Premise Match	968m	South
60080	Audit Termination	520 & 528 Anzac Highway GLENELG EAST SA 5045	Not recorded	Current EPA List	Premise Match	968m	South
60153	Audit Notification	520 & 528 Anzac Highway GLENELG EAST SA 5045	Not recorded	Current EPA List	Premise Match	968m	South
60153 - 001 A	Audit Report	520 & 528 Anzac Highway GLENELG EAST SA 5045	Agricultural activities; Fill or soil importation	Current EPA List	Premise Match	968m	South
12315	SAHC	47-51 Deeds Road NORTH PLYMPTON SA 5037	Not recorded	Current EPA List	Premise Match	970m	North

Site Contamination Index Data Source: EPA South Australia

EPA Environment Protection and Clean Up Orders

65-69 Morphett Road, Camden Park, SA 5038



EPA Public Register

65-69 Morphett Road, Camden Park, SA 5038

EPA Environment Protection and Clean Up Orders

EPA Environment Protection and Clean Up Orders, within the dataset buffer:

Record No.	Record Type	Record Status	Entity	Site Address	Activity	EPA Register Status	LocConf	Dist	Dir
13127	ENVIRONMENT PROTECTION ORDER	ISSUED	SA Liquor Distributors Ltd	Morphett Road, Camden Park SA 5038	Failed to submit a noise monitoring plan as required by a licence condition.	Current EPA Register	Premise Match	15m	North East
10277	ENVIRONMENT PROTECTION ORDER	COMPLIED	Rossdale Homes Pty Ltd	Charles Leitch Court, Novar Gardens SA 5040	Caused environmental nuisance in the form of waste which was found on footpaths, kerbing/gutters, roadways and the stormwater drainage systems adjacent to or near the building site.	Current EPA Register	Premise Match	132m	West
10278	ENVIRONMENT PROTECTION ORDER	COMPLIED	Henley Properties	Stanford Avenue, Novar Gardens SA 5040	Caused environmental nuisance in the form of waste which was found on footpaths, kerbing/gutters, roadways and the stormwater drainage systems adjacent to or near the building site.	Current EPA Register	Premise Match	219m	West
10281	ENVIRONMENT PROTECTION ORDER	COMPLIED	Henley Properties	Scott Court, Novar Gardens SA 5040	Caused environmental nuisance in the form of waste which was found on footpaths, kerbing/gutters, roadways and the stormwater drainage systems adjacent to or near the building site.	Current EPA Register	Premise Match	235m	West
10269	ENVIRONMENT PROTECTION ORDER	COMPLIED	City Homes, Giovanni Reveruzzi	Stanford Avenue, Novar Gardens SA 5040	Caused environmental nuisance in the form of waste which was found on footpaths, kerbing/gutters, roadways and the stormwater drainage systems adjacent to or near the building site.	Current EPA Register	Premise Match	252m	West
10280	ENVIRONMENT PROTECTION ORDER	COMPLIED	Henley Properties	Scott Court, Novar Gardens SA 5040	Caused environmental nuisance in the form of waste which was found on footpaths, kerbing/gutters, roadways and the stormwater drainage systems adjacent to or near the building site.	Current EPA Register	Premise Match	262m	South West
10271	ENVIRONMENT PROTECTION ORDER	COMPLIED	Wabnitz Homes	Scott Court, Novar Gardens SA 5040	Caused environmental nuisance in the form of waste which was found on footpaths, kerbing/gutters, roadways and the stormwater drainage systems adjacent to or near the building site.	Current EPA Register	Premise Match	277m	West
10275	ENVIRONMENT PROTECTION ORDER	COMPLIED	Rossdale Homes Pty Ltd	Scott Court, Novar Gardens SA 5040	Caused environmental nuisance in the form of waste which was found on footpaths, kerbing/gutters, roadways and the stormwater drainage systems adjacent to or near the building site.	Current EPA Register	Premise Match	279m	South West

Record No.	Record Type	Record Status	Entity	Site Address	Activity	EPA Register Status	LocConf	Dist	Dir
10274	ENVIRONMENT PROTECTION ORDER	COMPLIED	Mike Hall A V Jennings Homes	Alexander Court, Novar Gardens SA 5040	Caused environmental nuisance in the form of waste which was found on footpaths, kerbing/gutters, roadways and the stormwater drainage systems adjacent to or near the building site.	Current EPA Register	Premise Match	308m	West
10270	ENVIRONMENT PROTECTION ORDER	COMPLIED	Limberis N & Sons Pty Ltd	Stanford Avenue, Novar Gardens SA 5040	Caused environmental nuisance in the form of waste which was found on footpaths, kerbing/gutters, roadways and the stormwater drainage systems adjacent to or near the building site.	Current EPA Register	Premise Match	326m	West
10272	ENVIRONMENT PROTECTION ORDER	COMPLIED	Galaxy Homes	Alexander Court, Novar Gardens SA 5040	Caused environmental nuisance in the form of waste which was found on footpaths, kerbing/gutters, roadways and the stormwater drainage systems adjacent to or near the building site.	Current EPA Register	Premise Match	349m	West
10279	ENVIRONMENT PROTECTION ORDER	COMPLIED	Henley Properties	Alexander Court, Novar Gardens SA 5040	Caused environmental nuisance in the form of waste which was found on footpaths, kerbing/gutters, roadways and the stormwater drainage systems adjacent to or near the building site.	Current EPA Register	Premise Match	368m	West
10267	ENVIRONMENT PROTECTION ORDER	COMPLIED	Federation Homes	Stanford Avenue, Novar Gardens SA 5040	Caused environmental nuisance in the form of waste which was found on footpaths, kerbing/gutters, roadways and the stormwater drainage systems adjacent to or near the building site.	Current EPA Register	Premise Match	377m	West
10266	ENVIRONMENT PROTECTION ORDER	COMPLIED	GR Thompson & Co	Stanford Avenue, Novar Gardens SA 5040	Caused environmental nuisance in the form of waste which was found on footpaths, kerbing/gutters, roadways and the stormwater drainage systems adjacent to or near the building site.	Current EPA Register	Premise Match	381m	West
10273	ENVIRONMENT PROTECTION ORDER	COMPLIED	Galaxy Homes	Stanford Avenue, Novar Gardens SA 5040	Caused environmental nuisance in the form of waste which was found on footpaths, kerbing/gutters, roadways and the stormwater drainage systems adjacent to or near the building site.	Current EPA Register	Premise Match	387m	West
10268	ENVIRONMENT PROTECTION ORDER	COMPLIED	Alan Sheppard Homes	Stanford Avenue, Novar Gardens SA 5040	Caused environmental nuisance in the form of waste which was found on footpaths, kerbing/gutters, roadways and the stormwater drainage systems adjacent to or near the building site.	Current EPA Register	Premise Match	423m	West
10276	ENVIRONMENT PROTECTION ORDER	COMPLIED	Rossdale Homes Pty Ltd	Stanford Avenue, Novar Gardens SA 5040	Caused environmental nuisance in the form of waste which was found on footpaths, kerbing/gutters, roadways and the stormwater drainage systems adjacent to or near the building site.	Current EPA Register	Premise Match	425m	West

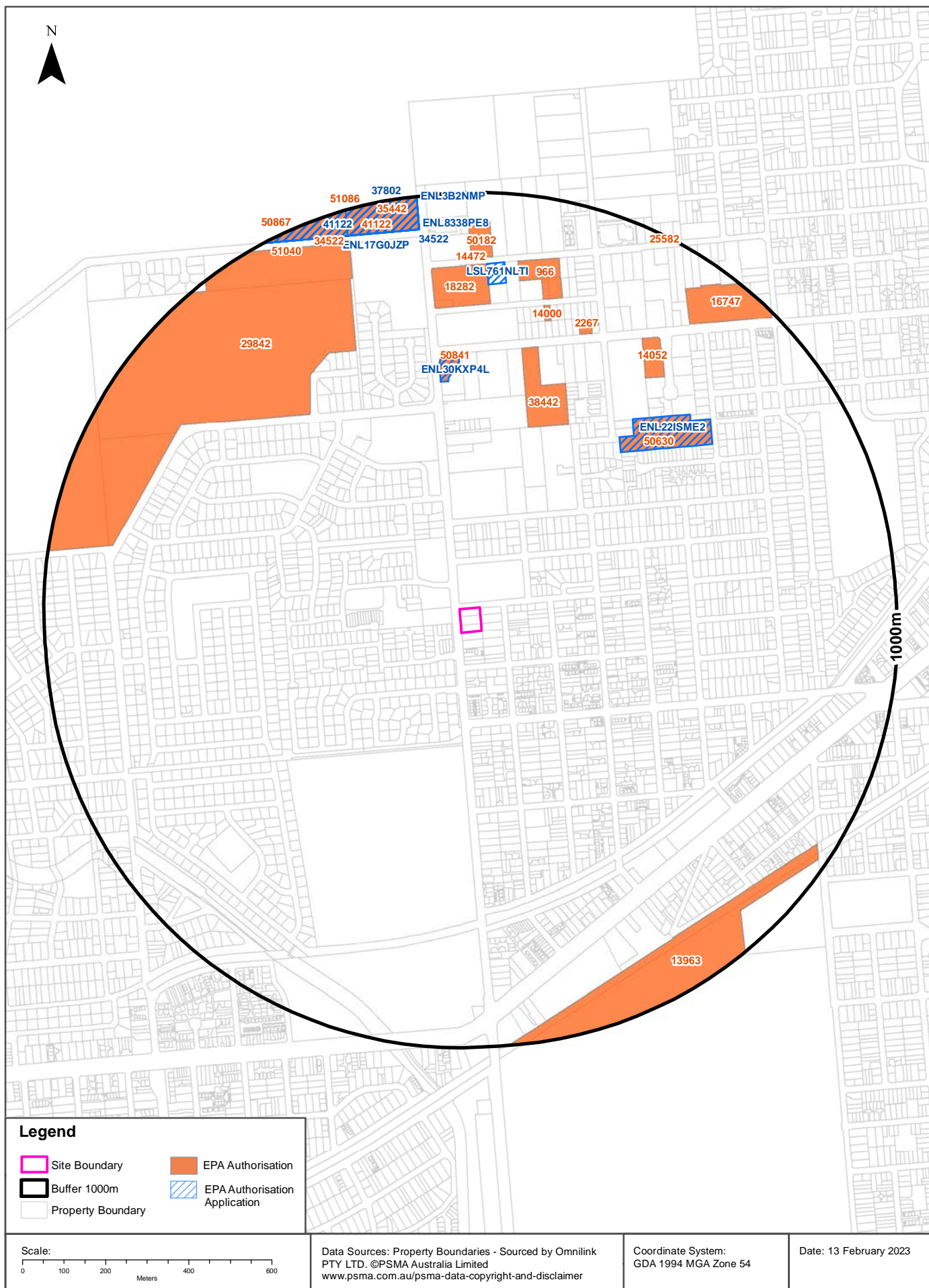
Record No.	Record Type	Record Status	Entity	Site Address	Activity	EPA Register Status	LocConf	Dist	Dir
13417	ENVIRONMENT PROTECTION ORDER	ISSUED	Hardchrome Services Pty Ltd	Mooringe Avenue, Camden Park SA 5038	Caused the discharge of waste (namely chromic acid mist) to the environment as a result of metal finishing operations performed at the site. Also failed maintain and operate a chromic acid scrubber, located on the site, in a proper and efficient manner.	Current EPA Register	Premise Match	448m	North
13407	ENVIRONMENT PROTECTION ORDER	ISSUED	Brown Wood Panels Pty Ltd	Mooringe Avenue, Camden Park SA 5038	Discharged waste (namely wood dust) to the environment as a result of wood processing operations performed at the site. Also failed to maintain and operate wood dust filtration plant in a proper and efficient manner.	Current EPA Register	Premise Match	554m	North East
13468	ENVIRONMENT PROTECTION ORDER	ISSUED	Taste Master Pty Ltd	Acorn Road, Camden Park SA 5038	Emitted odour to the environment as a result of decanting and mixing highly odorous chemicals at the site.	Current EPA Register	Premise Match	628m	North East
25070	ENVIRONMENT PROTECTION ORDER	ISSUED	AB & SM Rawlings Pty Ltd	Mooringe Avenue, North Plympton SA 5037	Caused or permitted the discharge of engine coolants to stormwater.	Current EPA Register	Premise Match	699m	North
13314	ENVIRONMENT PROTECTION ORDER	REVOKED	Peter John Treloar	Starr Avenue, North Plympton SA 5037	Stored waste materials, including plastics, masonry, metals, fill, concrete and other hard waste on the site without an environmental authorisation (licence).	Current EPA Register	Premise Match	706m	North
13350	ENVIRONMENT PROTECTION ORDER	ISSUED	Peter John Treloar	Starr Avenue, North Plympton SA 5037	Stored waste materials, including plastics, masonry, metals, fill, concrete and other hard waste on the site without an environmental authorisation (licence).	Current EPA Register	Premise Match	706m	North
10844	ENVIRONMENT PROTECTION ORDER	ISSUED	Bickfords Australia Pty Ltd	Starr Avenue, North Plympton SA 5037	Discharged wastewater entered the stormwater drainage system adjacent to or near Kinkaid Avenue, North Plympton.	Current EPA Register	Premise Match	728m	North
12208	ENVIRONMENT PROTECTION ORDER	ISSUED	TARMAC PTY. LTD.	Kinkaid Avenue, North Plympton SA 5037	Discharged wood dust to the environment as a result of wood processing operations performed at the site.	Current EPA Register	Premise Match	793m	North
13841	ENVIRONMENT PROTECTION ORDER	ISSUED	Castalloy Manufacturing Pty Ltd, (Subject to Deed of Company Arrangement)	Mooringe Avenue, North Plympton SA 5037	Failed to minimise environmental nuisance caused by noise emissions from the site during night shift.	Current EPA Register	Premise Match	820m	North East
14086	ENVIRONMENT PROTECTION ORDER	COMPLIED	Castalloy Manufacturing Pty Ltd, (Subject to Deed of Company Arrangement)	Mooringe Avenue, North Plympton SA 5037	Installed a vibrating table and sand bin where such installations were likely to result in an alteration to the process and increase in pollution and waste arising from the activity.	Current EPA Register	Premise Match	820m	North East
14107	ENVIRONMENT PROTECTION ORDER	ISSUED	Castalloy Manufacturing Pty Ltd, (Subject to Deed of Company Arrangement)	Mooringe Avenue, North Plympton SA 5037	Failed to submit a noise monitoring plan as required by a licence condition.	Current EPA Register	Premise Match	820m	North East

Record No.	Record Type	Record Status	Entity	Site Address	Activity	EPA Register Status	LocConf	Dist	Dir
11462	ENVIRONMENT PROTECTION ORDER	ISSUED	Amos Excavations	Kinkaid Avenue, North Plympton SA 5037	Discharged of wastewater, sediment and slurry waste into the stormwater drainage system.	Current EPA Register	Road Match	821m	North
13854	ENVIRONMENT PROTECTION ORDER	ISSUED	Kinkaid Pty Ltd, Trading as Cadillac Printing	Kinkaide Avenue, North Plympton SA 5037	Undertook a prescribed activity of environmental significance (fuel burning) without an environmental authorisation (licence).	Current EPA Register	Premise Match	841m	North
13288	ENVIRONMENT PROTECTION ORDER	ISSUED	Husquarna Construction Products Australia Pty Ltd	Kinkaid Avenue, North Plympton SA 5037	Permitted the emission of fume and offensive odours beyond the boundaries of the site.	Current EPA Register	Premise Match	926m	North East

Authorisations Data Source: EPA South Australia

EPA Authorisations and Applications

65-69 Morphett Road, Camden Park, SA 5038



EPA Public Register

65-69 Morphett Road, Camden Park, SA 5038

EPA Authorisations and Applications

EPA Authorisations and Authorisation Applications within the dataset buffer:

Record No.	Record Type	Record Status	Entity	Site Address	Activity	EPA Register Status	LocConf	Dist	Dir
38442	LICENCE	Issued	HARDCHROME SERVICES PTY LTD	135 Mooringe Avenue, CAMDEN PARK SA 5038	Activities producing listed wastes	Current EPA Register	Premise Match	448m	North
50630	LICENCE	Issued	MILFORD INDUSTRIES PTY LTD	20 Fitzroy Avenue, Camden Park SA 5038	Abrasive blasting,Activities producing listed wastes,Fuel burning comprising the burning of fuel to stove enamel or to bake or dry substances releasing dust or air impurities,Surface coating works (spray painting or powder coating)	Current EPA Register	Premise Match	505m	North East
ENL221 SME2	LICENCE APPLICATION	Authorisation Updated	MILFORD INDUSTRIES PTY LTD	20 Fitzroy Avenue, Camden Park SA 5038	Abrasive blasting,Activities producing listed wastes,Fuel burning comprising the burning of fuel to stove enamel or to bake or dry substances releasing dust or air impurities,Surface coating works (spray painting or powder coating)	Current EPA Register	Premise Match	505m	North East
50841	LICENCE	Issued	LIBERTY OIL CONVENIENCE PTY LTD	153-157 Mooringe Avenue, CAMDEN PARK SA 5038	Petrol stations	Current EPA Register	Premise Match	550m	North
ENL30 KXP4L	LICENCE APPLICATION	Authorisation Updated	LIBERTY OIL CONVENIENCE PTY LTD	153-157 Mooringe Avenue, CAMDEN PARK SA 5038	Petrol stations	Current EPA Register	Premise Match	550m	North
29842	LICENCE	Issued	GLENELG GOLF CLUB INCORPORATED	James Melrose Road, NOVAR GARDENS SA 5040	Discharge during the licence period of stormwater to underground aquifers from a stormwater drainage system situated in metropolitan Adelaide -	Current EPA Register	Premise Match	593m	North West
14052	LICENCE	Issued	LANE BROS. PRINTERS PTY. LTD.	101 Mooringe Avenue, CAMDEN PARK SA 5038	Activities producing listed wastes	Current EPA Register	Premise Match	681m	North East
2267	LICENCE	Issued	A.B. & S.M. RAWLINGS PTY. LTD.	Lot 700 (D52539) & Lot 88, Mooringe Avenue, PLYMPTON SA 5038	Recycling depot (battery recycling only)	Current EPA Register	Premise Match	699m	North
14000	LICENCE	Issued	BLUE BINS WASTE PTY LTD	15 Starr Avenue, NORTH PLYMPTON SA 5037	Waste recycling depot (waste for resource recovery or transfer)	Current EPA Register	Premise Match	706m	North
18282	LICENCE	Issued	A.S. MARSHALL HOLDINGS PTY. LTD.	34 Starr Avenue, NORTH PLYMPTON SA 5037	Activities producing listed wastes,Surface coating works (spray painting or powder coating)	Current EPA Register	Premise Match	728m	North
966	LICENCE	Issued	TARMAC PTY. LTD.	51-57 Kinkaid Avenue, NORTH PLYMPTON SA 5037	Activities producing listed wastes,Wood preservation works,Wood processing works	Current EPA Register	Premise Match	758m	North
LSL761 NLT1	LICENCE APPLICATION	Authorisation Updated	TARMAC PTY. LTD.	65-69 Kinkaid Avenue, NORTH PLYMPTON SA 5037	Timber preservation works	Current EPA Register	Premise Match	779m	North

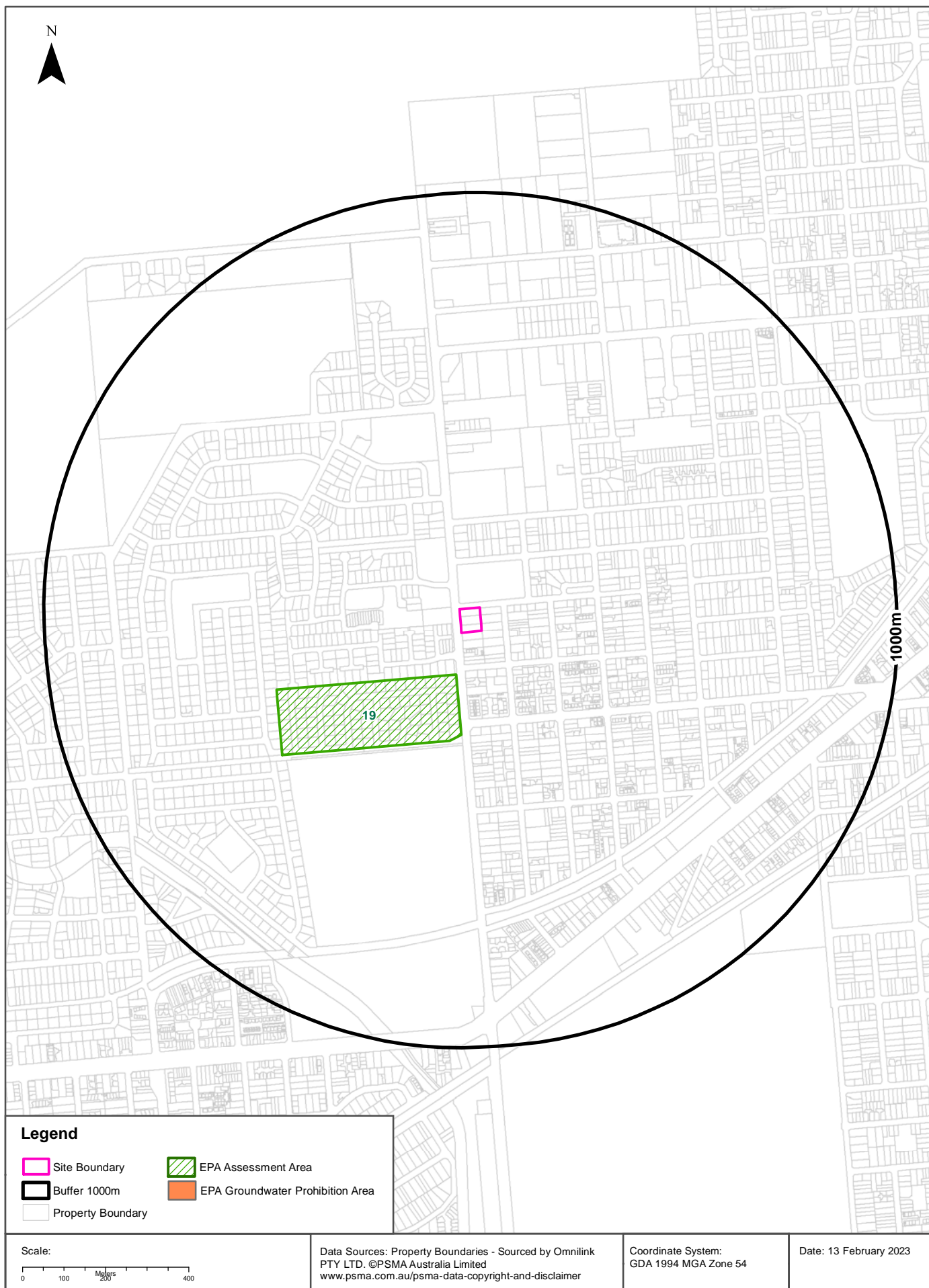
Record No.	Record Type	Record Status	Entity	Site Address	Activity	EPA Register Status	LocConf	Dist	Dir
14472	LICENCE	Transferred	KINKAID PTY LIMITED	64-70 Kinkaid Avenue, NORTH PLYMPTON SA	Activities producing listed wastes, Fuel burning comprising the burning of fuel to stove enamel or to bake or dry substances releasing dust or air impurities	Current EPA Register	Premise Match	841m	North
50182	LICENCE	Issued	GRAPHIC WEB PTY LIMITED	64-70 Kinkaid Avenue, NORTH PLYMPTON SA 5037	Activities producing listed wastes, Fuel burning comprising the burning of fuel to stove enamel or to bake or dry substances releasing dust or air impurities	Current EPA Register	Premise Match	841m	North
16747	LICENCE	Surrendered	NEW CASTALLOY PTY LTD	Allotment 57, 76-92 Mooringe Avenue, NORTH PLYMPTON SA 5037	Activities producing listed wastes, Ferrous and non-ferrous metal melting works, Fuel burning comprising the burning of fuel to stove enamel or to bake or dry substances releasing dust or air impurities, Surface coating works (spray painting or powder coating), Surface coating works - metal finishing	Current EPA Register	Premise Match	847m	North East
13963	LICENCE	Issued	SOUTH AUSTRALIAN JOCKEY CLUB INCORPORATED	Racecourse, MORPHETTVILLE, 5043, SA	Discharge during the licence period of stormwater to underground aquifers from a stormwater drainage system situated in metropolitan Adelaide -	Current EPA Register	Premise Match	868m	South East
34522	LICENCE APPLICATION	Proceed To Authorisation	Tru-Coat Pty Ltd	Adelaide Airport (corner James Melrose & Morphett Roads)	Surface coating works (spray painting or powder coating)	Current EPA Register	Premise Match	920m	North
34522	LICENCE	Issued	TRU-COAT PTY LTD	Portion of Allotment 50 (DP 49654), Adelaide Airport, ADELAIDE AIRPORT, SA	Abrasive blasting, Surface coating works (spray painting or powder coating)	Current EPA Register	Premise Match	920m	North
35442	LICENCE	Issued	BOART LONGYEAR AUSTRALIA PTY LTD	Adelaide Airport, ADELAIDE AIRPORT SA 5950	Abrasive blasting, Activities producing listed wastes, Chemical storage and warehousing facilities	Current EPA Register	Premise Match	920m	North
37802	WORKS APPROVAL APPLICATION	Proceed To Authorisation	South Australian Water Coporation	Adelaide Airport	Discharge during the licence period of stormwater to underground aquifers from a stormwater drainage system situated in metropolitan Adelaide -	Current EPA Register	Premise Match	920m	North
41122	LICENCE APPLICATION	Proceed To Authorisation	South Australian Water Corporation	Adelaide Airport	Discharge during the licence period of stormwater to underground aquifers from a stormwater drainage system situated in metropolitan Adelaide -	Current EPA Register	Premise Match	920m	North
41122	LICENCE	Issued	SOUTH AUSTRALIAN WATER CORPORATION	Adelaide Airport, ADELAIDE, 5000, SA	Discharge during the licence period of stormwater to underground aquifers from a stormwater drainage system situated in metropolitan Adelaide -	Current EPA Register	Premise Match	920m	North
50867	LICENCE	Issued	UNITED PETROLEUM PTY LTD	Sir Richard Williams Avenue, ADELAIDE AIRPORT SA 5950	Petrol stations	Current EPA Register	Premise Match	920m	North
51040	LICENCE	Issued	MURPHY HOLDINGS S.A. PTY. LIMITED	2 Sir Hubert Wilkins Road, ADELAIDE AIRPORT SA 5950	Petrol stations	Current EPA Register	Premise Match	920m	North

Record No.	Record Type	Record Status	Entity	Site Address	Activity	EPA Register Status	LocConf	Dist	Dir
51086	LICENCE	Issued	W T H PTY LTD	2 Sir Hubert Wilkins Road, ADELAIDE AIRPORT SA 5950	Petrol stations	Current EPA Register	Premise Match	920m	North
ENL17 G0JZP	LICENCE APPLICATION	Authorisation Updated	MURPHY HOLDINGS S.A. PTY. LIMITED	2 Sir Hubert Wilkins Road, ADELAIDE AIRPORT SA 5950	Petrol stations	Current EPA Register	Premise Match	920m	North
ENL3B 2NMP	LICENCE APPLICATION	Authorisation Updated	UNITED PETROLEUM PTY LTD	Sir Richard Williams Avenue, ADELAIDE AIRPORT SA 5950	Petrol stations	Current EPA Register	Premise Match	920m	North
ENL83 38PE8	LICENCE APPLICATION	Authorisation Updated	W T H PTY LTD	2 Sir Hubert Wilkins Road, ADELAIDE AIRPORT SA 5950	Petrol stations	Current EPA Register	Premise Match	920m	North
25582	LICENCE	Issued	S.T. & H.M. INVESTMENTS PTY LTD	14 Kinkaid Avenue, NORTH PLYMPTON SA 5037	Abrasive blasting, Surface coating works (spray painting or powder coating)	Current EPA Register	Premise Match	981m	North East

Authorisations Data Source: EPA South Australia

EPA Assessment and Groundwater Prohibition Areas

65-69 Morphett Road, Camden Park, SA 5038



EPA Assessment and Groundwater Prohibition Areas

65-69 Morphett Road, Camden Park, SA 5038

EPA Assessment Areas

EPA Assessment Areas within the dataset buffer:

Map Id	Supplied Ref	Area Name	Map Link	Status	Location Confidence	Distance	Direction
19	4771240	Novar Gardens	https://www.epa.sa.gov.au/environmental_info/site_contamination/assessment_areas/old_lightburn_factory_site	Current	Premise Match	101m	South West

Assessment Areas Data Source: EPA South Australia

EPA Assessment and Groundwater Prohibition Areas

65-69 Morphett Road, Camden Park, SA 5038

EPA Groundwater Prohibition Areas

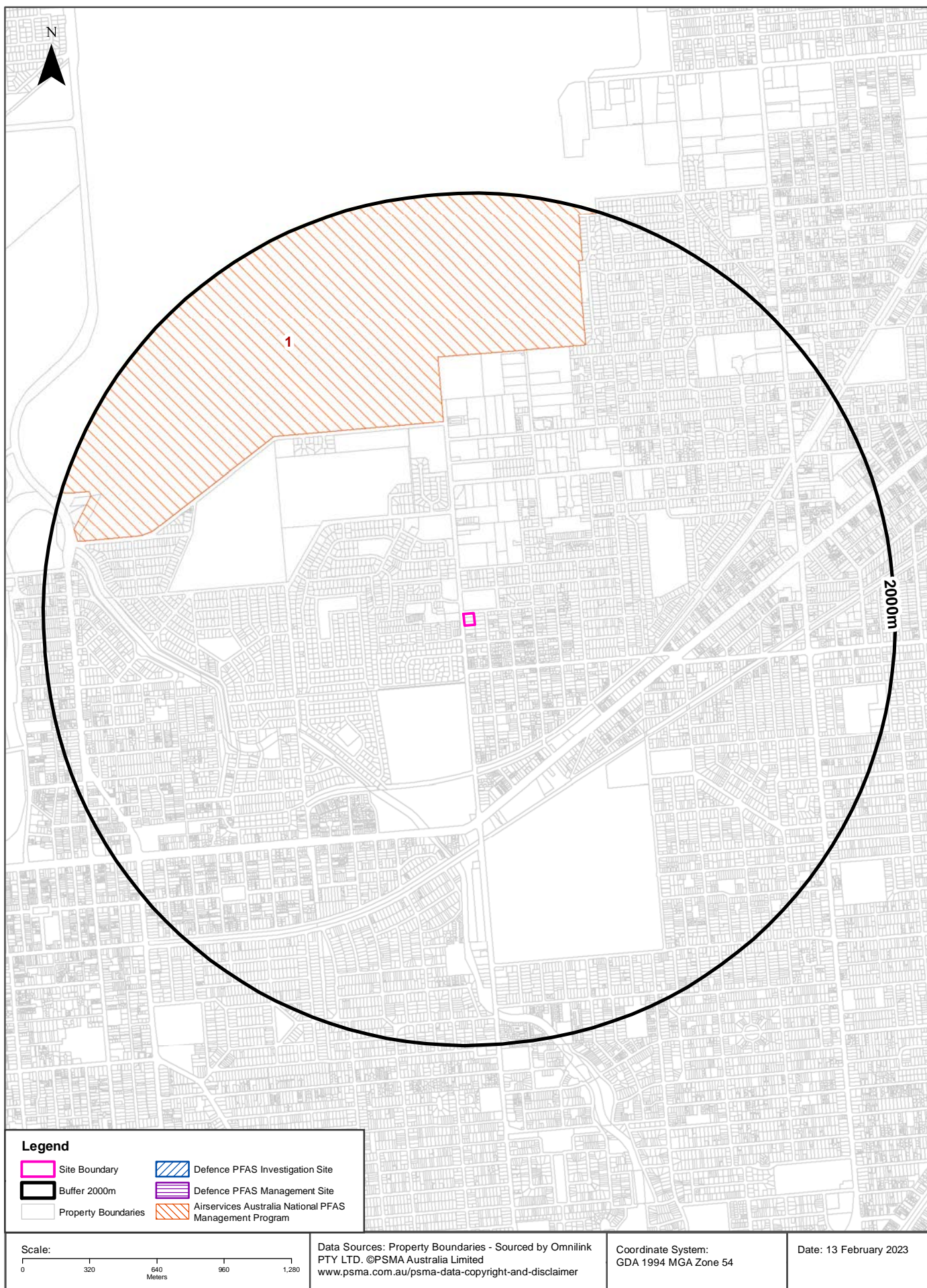
EPA Groundwater Prohibition Areas within the dataset buffer:

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

Groundwater ProhibitionAreas Data Source: EPA South Australia

PFAS Investigation and Management Programs

65-69 Morphett Road, Camden Park, SA 5038



PFAS Investigation & Management Programs

65-69 Morphett Road, Camden Park, SA 5038

Defence PFAS Investigation & Management Program Investigation Sites

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

Map ID	Base Name	Address	Location Confidence	Distance	Direction
N/A	No records in buffer				

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

Defence PFAS Investigation & Management Program Management Sites

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

Map ID	Base Name	Address	Location Confidence	Distance	Direction
N/A	No records in buffer				

Defence PFAS Investigation & 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	Location Confidence	Distance	Direction
1	Adelaide Airport	Confirmed at fire station and fire training ground	Premise Match	920m	North West

Airservices Australia National PFAS Management Program Data Custodian: Airservices Australia

Defence Sites

65-69 Morphett Road, Camden Park, SA 5038

Defence 3 Year Regional Contamination Investigation Program

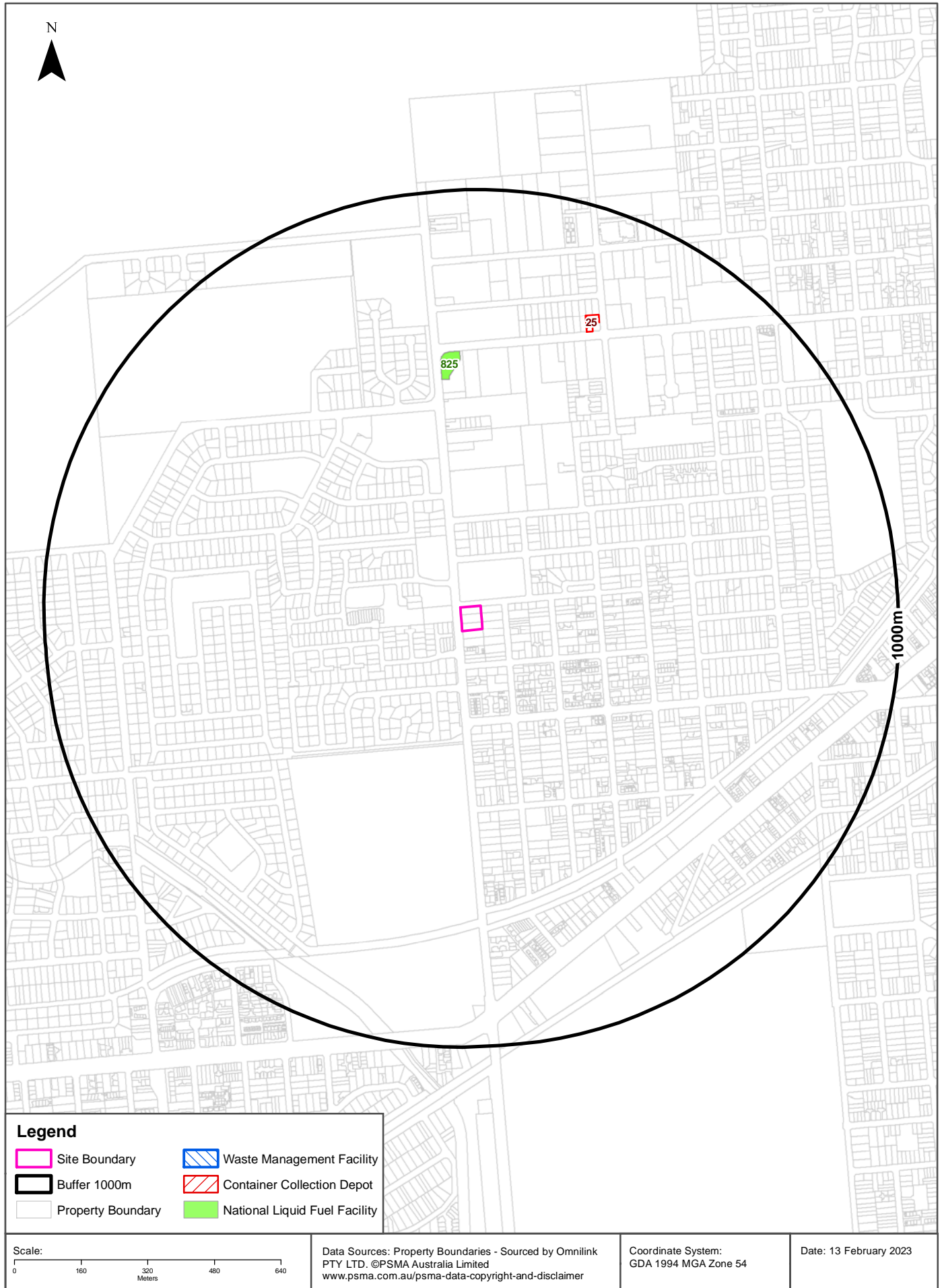
Sites which have been assessed as part of the Defence 3 Year Regional Contamination Investigation Program within the dataset buffer:

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

Waste Management & Liquid Fuel Facilities

65-69 Morphett Road, Camden Park, SA 5038



Waste Management and Liquid Fuel Facilities

65-69 Morphett Road, Camden Park, SA 5038

National Waste Management Site Database

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

Site Id	Owner	Name	Address	Suburb	Class	Revised Date	Location Confidence	Distance	Direction
N/A	No records in buffer								

Waste Management Facilities Data Source: Australian Government Geoscience Australia
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EPA Approved Container Collection Depots

EPA approved container collection depots within the dataset buffer:

MapId	Name	Address	Suburb	Loc Conf	Distance	Direction
25	Mooringie Ave Bottle Company	114 Mooringie Avenue	NORTH PLYMPTON	Premise Match	706m	North

Collection Depot Data Source: EPA South Australia

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	Dir
825	Caltex	Woolworths Caltex Camden Park	153-157 Mooringie Avenue	Camden Park	Petrol Station	Operational		25/07/2011	Premise Match	550m	North

National Liquid Fuel Facilities Data Source: Geoscience Australia
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Historical Business Directories

65-69 Morphett Road, Camden Park, SA 5038



Legend Site Boundary Buffer 100m 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 54
	Data Sources: Reproduced with permission of UBD and Hardie Grant Media Pty Ltd DD 01/08/2018 Sands & McDougall's Directory - Digitised by State Library Victoria Property Boundaries - Sourced by Omnilink PTY LTD. ©PSMA Australia Limited 2023 www.psm.com.au/psma-data-copyright-and-disclaimer	Date: 13 February 2023

Historical Business Directories

65-69 Morphett Road, Camden Park, SA 5038

Business Directory Records 1910-1991 Premise or Road Intersection Matches

Universal Business Directory and Sands & McDougall Directory records, from years 1991, 1984, 1973, 1965, 1955, 1950, 1940, 1930, 1920 & 1910, 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
1	Cable Flexible &/or Wire Mfrs. &/or Dist.	Pirelli Ericsson Cables Limited, 61 Morphett Rd., Camden Park. 5038	3879	1984	Premise Match	0m	On-site
	Electrical Wiring Accessories &/or Equipment Mfrs. &/or Dist.	Pirelli Ericsson Cables Limited, 61 Morphett Rd., Camden Park. 5038	10238	1984	Premise Match	0m	On-site
	Electric Wires &/Or Cables	Pirelli Ericsson Cables Limited, 61 Morphett Rd., Camden Park. 5038.	9917	1984	Premise Match	0m	On-site
	Electrical Wiring Accessories &/or Equipment Mfrs. &/or Dist.	PIRELLI-ERICSSON CABLES LIMITED 61-79 Morphett Road, Camden Park. 5038	10233	1984	Premise Match	0m	On-site
2	CABINET MAKERS & FRENCH POLISHERS	Thuys W 56 Carlisle st Camden Park	6907	1965	Premise Match	0m	South East
3	Electric Cable - Flexible &/or Wire - Mfrs &/or Dist	Pirelli Cables Australia Limited 71 Morphett Rd Camden Park 5038	42668	1991	Premise Match	15m	North
	Electrical Wiring Accessories &/or Equipment Mfrs &/or Dist	Pirelli Cables Australia Limited, 71 Morphett Rd Camden Park 5038	19745	1991	Premise Match	15m	North
	Cable Flexible &/or Wire Mfrs &/or Dist	Pirelli Cables Australia Limited, 71 Morphett Rd., Camden Park. 5038.	39645	1991	Premise Match	15m	North
	ELECTRICAL WHOLESALERS	Camelec Ltd 79 Morphett rd Camden Park	9916	1973	Premise Match	15m	North
	PLASTIC GOODS MANUFACTURERS AND SUPPLIERS	Camelec Ltd 79 Morphett rd Camden Park	31710	1973	Premise Match	15m	North
	ELECTRICAL APPLIANCES - RETAIL	Lamelec Ltd 79 Morphett rd Camden Park	9812	1973	Premise Match	15m	North
	ENGINEERS (Mechanical & General)	Camelec Ltd 77-81 Morphett rd Camden Park	33880	1955	Premise Match	15m	North
	BATTERY CABLE LUGS & CLIPS	Camelec Ltd., 77-81 Morphett Rd., Camden Estate	1081	1950	Premise Match	15m	North
	ENGINEERS-GENERAL, MECHANICAL & MANUFACTURING	Camelec Ltd., 77-81 Morphett Rd., Camden Estate	6788	1950	Premise Match	15m	North
	ENGINEERS-PRESSED METAL	Comelec Ltd., 77-81 Morphett Rd., Camden Estate	6979	1950	Premise Match	15m	North
MOTOR ELECTRICAL WIRING SYSTEM MANUFACTURERS	omelec. Ltd., 77-81 Morphett Rd., Camden Estate	13843	1950	Premise Match	15m	North	
4	CABINET MAKERS & FRENCH POLISHERS	Horvat N 53 Carlisle st Camden Park	5880	1965	Premise Match	67m	South East
5	Pump Repair Specialists	A.B. Electrical Pty. Ltd., Rear, 53 Morphett Rd., Camden Park. 5038.	31832	1991	Premise Match	94m	South
	Electrical Contractors &/or Electricians	A.B. ELECTRICAL PTY. LTD. Rear 53 Morphett Road, Camden Park. 5038	9962	1984	Premise Match	94m	South
	Electrical Contractors &/or Electricians	A.B. Electrical Pty. Ltd., Rear 53 Morphett Rd., Camden Park, 5038	9966	1984	Premise Match	94m	South
	Secondhand Dealers	A.B. Electrical Pty. Ltd., Rear 53 Morphett Rd., Camden Park. 5038	22889	1984	Premise Match	94m	South
	Secondhand Dealers	A.B. ELECTRICAL PTY. LTD. Rear 53 Morphett Road, Camden Park. 5038	22886	1984	Premise Match	94m	South
	ELECTRICIAN & ELECTRICAL CONTRACTORS	AB Electrical P/L 53 Morphett rd Camden Pk	9952	1973	Premise Match	94m	South
	ELECTRICAL ACCESSORIES, MANUFACTURERS AND WHOLESALERS	AB Electrical Pty Ltd 53 Morphett rd Camden Park	9792	1973	Premise Match	94m	South

Map Id	Business Activity	Premise	Ref No.	Year	Location Confidence	Distance to Property Boundary or Road Intersection	Direction
5	ELECTRICIAN & ELECTRICAL CONTRACTORS	Camden Electrical Service 53 Morphett rd Camden Park	10023	1973	Premise Match	94m	South

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Business Directory Records 1910-1991 Road or Area Matches

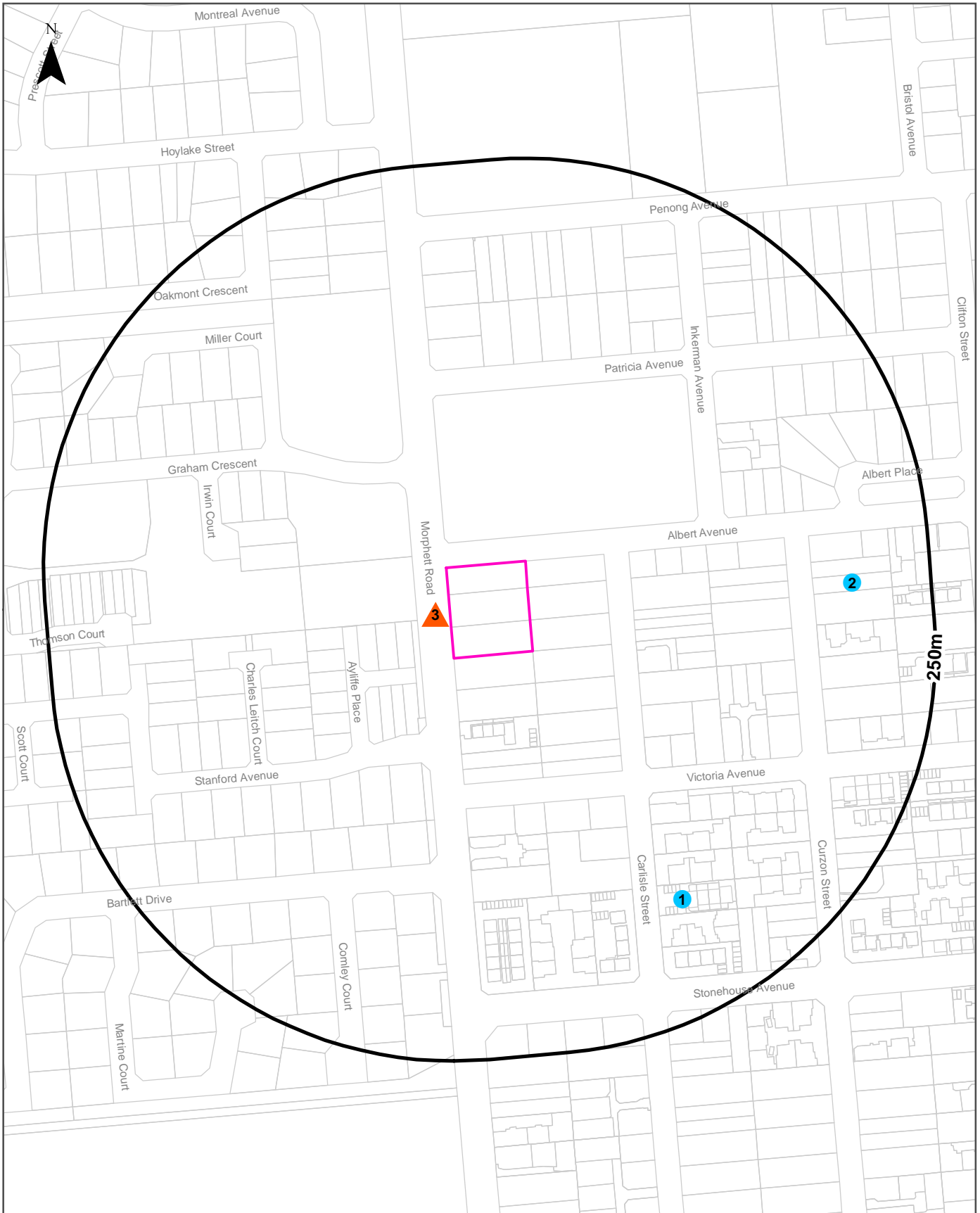
Universal Business Directory and Sands & McDougall Directory records, from years 1991, 1984, 1973, 1965, 1955, 1950, 1940, 1930, 1920 & 1910, mapped to a road or an area, within the dataset buffer. Records are mapped to the road when a building number is not supplied, cannot be found, or the road has been renumbered since the directory was published:

Map Id	Business Activity	Premise	Ref No.	Year	Location Confidence	Distance to Road Corridor or Area
6	Motor Garages & Service Stations	Caltex Camden Park Service Station, Morphett Rd, Camden Park, 5038	27576	1991	Road Match	8m
	Motor Garages & Service Stations	Camden Park Car Maintenance Centre, (Caltex Service Station), Morphett Rd, Camden Park, 5038	27617	1991	Road Match	8m
	Tool Mfrs - Precision	Lightburn Products Ltd, Morphett Rd, Novar Gardens 5040	25096	1984	Road Match	8m
	Concrete Mixer Mfrs &/or Dists	Lightburn Products Ltd, Morphett Rd, Novar Gardens 5040	6086	1984	Road Match	8m
	Motor Garage Equipment /Or Tools Mfrs &/Or Dists.	Lightburn Products Ltd, Morphett Rd, Novar Gardens 5040	18125	1984	Road Match	8m
	Washing Machine Mfrs &/or Dists	Lightburn Products Ltd, Morphett Rd, Novar Gardens 5040	25859	1984	Road Match	8m
	Concrete Mixer Repairers	Lightburn Products Ltd, Morphett Rd, Novar Gardens, 5040	6089	1984	Road Match	8m
	Engineers - General &/or Manufacturing &/or Mechanical	Lightburn Products Ltd, Morphett Rd., Novar Gardens. 5040.	10700	1984	Road Match	8m
	Builders Hardware Mfrs. &/Or Dists.	Lightburn Products Ltd. Morphett Rd Novar Gardens 5040	2921	1984	Road Match	8m
	Electrical &/or Industrial Plant Mfrs. &/or Dists	Lightburn Products Ltd. Morphett Rd Novar Gardens, 5040	10143	1984	Road Match	8m
	Hydraulic Jack Mfrs. &/or Dists	Lightburn Products Ltd., Morphett Rd.. Novar Gardens. 5040.	15313	1984	Road Match	8m
	Hiring Services	Lightburn Products Ltd.. Morphett Rd., Novar Gardens. 5040.	14682	1984	Road Match	8m
	ENGINEERS (GENERAL MNFCTRNG. MECHANICAL)	Lightburn & Co Ltd Morphett rd Camden	12837	1973	Road Match	8m
	Manufacturers (General)	Lightburn & Co Ltd Morphett rd Novar Gdns	39306	1973	Road Match	8m
	Manufacturers (General)	Ligntburn & Co Ltd Morphett rd Glenelg N	39305	1973	Road Match	8m
	COLLEGES & PRIVATE SCHOOLS	Immanuel College Morphett rd Novar Gdns	36075	1965	Road Match	8m
	Manufacturers (General)	Lightburn & Co Ltd Morphett rd Glenelg N	47007	1965	Road Match	8m
	Manufacturers (General)	Lightburn & Co Ltd Morphett rd Novar Gdns	47008	1965	Road Match	8m
	CEMENT MANUFACTURERS & CEMENT PRODUCTS	Bucklands Cement Works Morphett rd Camden Park	21784	1955	Road Match	8m
	Carriers & Haulage Contractors	Charlick G H Morphett rd Camden Park	21253	1955	Road Match	8m
Manufacturers (General)	Lightburn & Co Ltd Morphett rd Glenelg N	15784	1955	Road Match	8m	
Manufacturers (General)	Lightburn & Co Ltd Morphett rd Novar Gdns	15785	1955	Road Match	8m	
BUILDERS & GENERAL CONTRACTORS	Wood M C Ltd Morphett rd Camden Park	9738	1955	Road Match	8m	
SAND, GRAVEL, SHINGLES, ETC.	Charlick, G. H., Morphett Rd., Camden Park	16660	1950	Road Match	8m	
7	DENTAL SUPPLIES & MAINTENANCE	Engelhard Industries Pty Ltd Morphett rd Plympton North	6012	1973	Road Match	10m
	DENTAL SUPPLIES & MAINTENANCE	Engelhard Wallace Pty Ltd Morphett rd Plympton North	6013	1973	Road Match	10m

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Dry Cleaners, Motor Garages & Service Stations

65-69 Morphett Road, Camden Park, SA 5038



Legend Site Boundary Buffer 250m 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 54
	Date: 13 February 2023	Data Sources: Reproduced with permission of UBD and Hardie Grant Media Pty Ltd DD 01/08/2018 Sands & McDougall's Directory - Digitised by State Library Victoria Property Boundaries - Sourced by Omnilink PTY LTD. ©PSMA Australia Limited 2023 www.pdma.com.au/psma-data-copyright-and-disclaimer

Historical Business Directories

65-69 Morphett Road, Camden Park, SA 5038

Dry Cleaners, Motor Garages & Service Stations 1930-1991 Premise or Road Intersection Matches

Dry Cleaners, Motor Garages & Service Stations from UBD Business Directories and Sands & McDougall's Directories, from years 1991, 1984, 1973, 1965, 1955, 1950, 1940 & 1930, 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
1	MOTOR ENGINEERS, GARAGES & SERVICE STATIONS	Jones W 41 Carlisle st Camden Park	2240	1965	Premise Match	165m	South East
2	MOTOR ENGINEERS, GARAGES & SERVICE STATIONS	Powditch W J J 49 Curzon st Camden Park	5801	1965	Premise Match	177m	East
	MOTOR ENGINEERS, GARAGES & SERVICE STATIONS	Powditch W J J 49 Curzon st Camden Park	21662	1955	Premise Match	177m	East

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Dry Cleaners, Motor Garages & Service Stations 1930-1991 Road or Area Matches

Dry Cleaners, Motor Garages & Service Stations from UBD Business Directories and Sands & McDougall's Directories, from years 1991, 1984, 1973, 1965, 1955, 1950, 1940 & 1930, 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
3	Motor Garages & Service Stations	Caltex Camden Park Service Station, Morphett Rd, Camden Park, 5038	27576	1991	Road Match	8m
	Motor Garages & Service Stations	Camden Park Car Maintenance Centre, (Caltex Service Station), Morphett Rd, Camden Park, 5038	27617	1991	Road Match	8m

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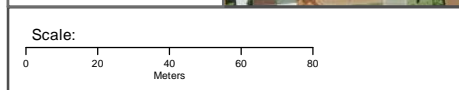
Aerial Imagery 2022

65-69 Morphett Road, Camden Park, SA 5038



Legend

- Site Boundary
- Buffer 150m



Data Source Aerial Imagery:
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Coordinate System:
GDA 1994 MGA Zone 54

Date: 13 February 2023

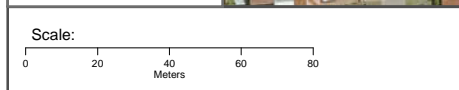
Aerial Imagery 2017

65-69 Morphett Road, Camden Park, SA 5038



Legend

- Site Boundary
- Buffer 150m



Data Source Aerial Imagery:
© Aerometrex Pty Ltd

Coordinate System:
GDA 1994 MGA Zone 54

Date: 13 February 2023



Aerial Imagery 2012

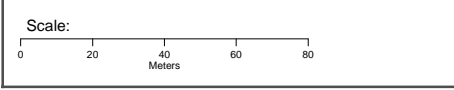
65-69 Morphett Road, Camden Park, SA 5038



150m

Legend

-  Site Boundary
-  Buffer 150m



Data Source Aerial Imagery:
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Coordinate System:
GDA 1994 MGA Zone 54

Date: 13 February 2023



Aerial Imagery 2007

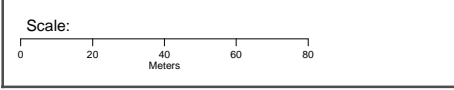
65-69 Morphett Road, Camden Park, SA 5038



150m

Legend

-  Site Boundary
-  Buffer 150m



Data Source Aerial Imagery:
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Coordinate System:
GDA 1994 MGA Zone 54

Date: 13 February 2023



Aerial Imagery 2002

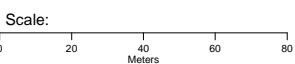
65-69 Morphett Road, Camden Park, SA 5038



150m

Legend

-  Site Boundary
-  Buffer 150m



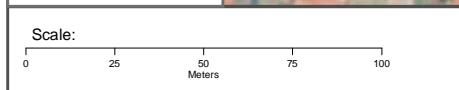
Data Source Aerial Imagery:
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Coordinate System:
GDA 1994 MGA Zone 54

Date: 13 February 2023

Aerial Imagery 1999

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Coordinate System:
GDA 1994 MGA Zone 54



Date: 09 February 2023

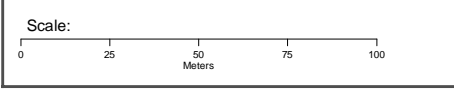
Aerial Imagery 1989

65-69 Morphett Road, Camden Park, SA 5038



Legend

-  Site Boundary
-  Buffer 150m



Data Sources Aerial Imagery: © South Australia
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Coordinate System:
GDA 1994 MGA Zone 54


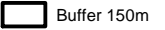
Date: 09 February 2023

Aerial Imagery 1979

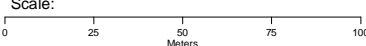
65-69 Morphett Road, Camden Park, SA 5038



Legend

-  Site Boundary
-  Buffer 150m

Scale:



0 25 50 75 100
Meters

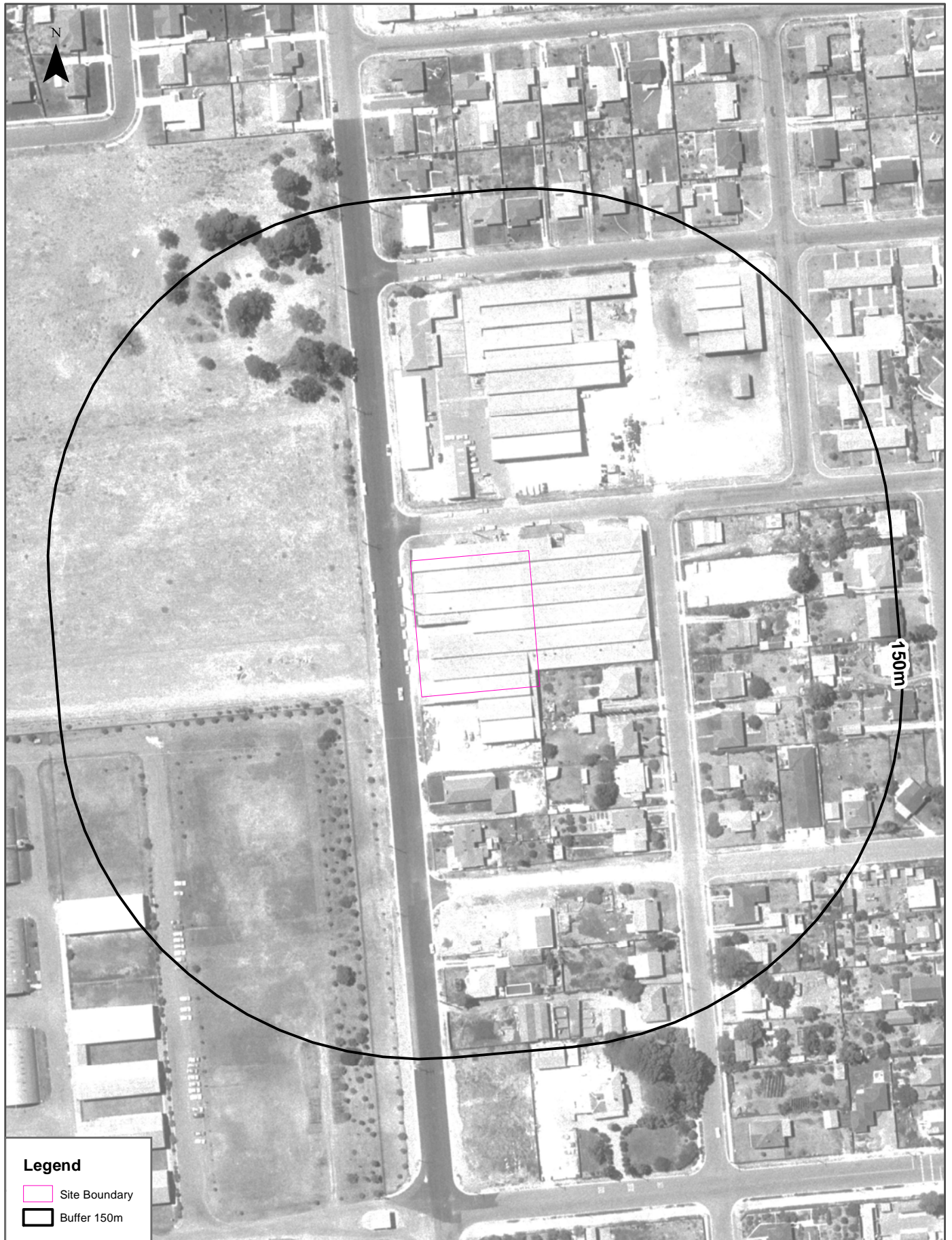
Data Sources Aerial Imagery: © South Australia
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Coordinate System:
GDA 1994 MGA Zone 54


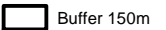
Date: 09 February 2023

Aerial Imagery 1969

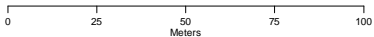
65-69 Morphett Road, Camden Park, SA 5038



Legend

-  Site Boundary
-  Buffer 150m

Scale:



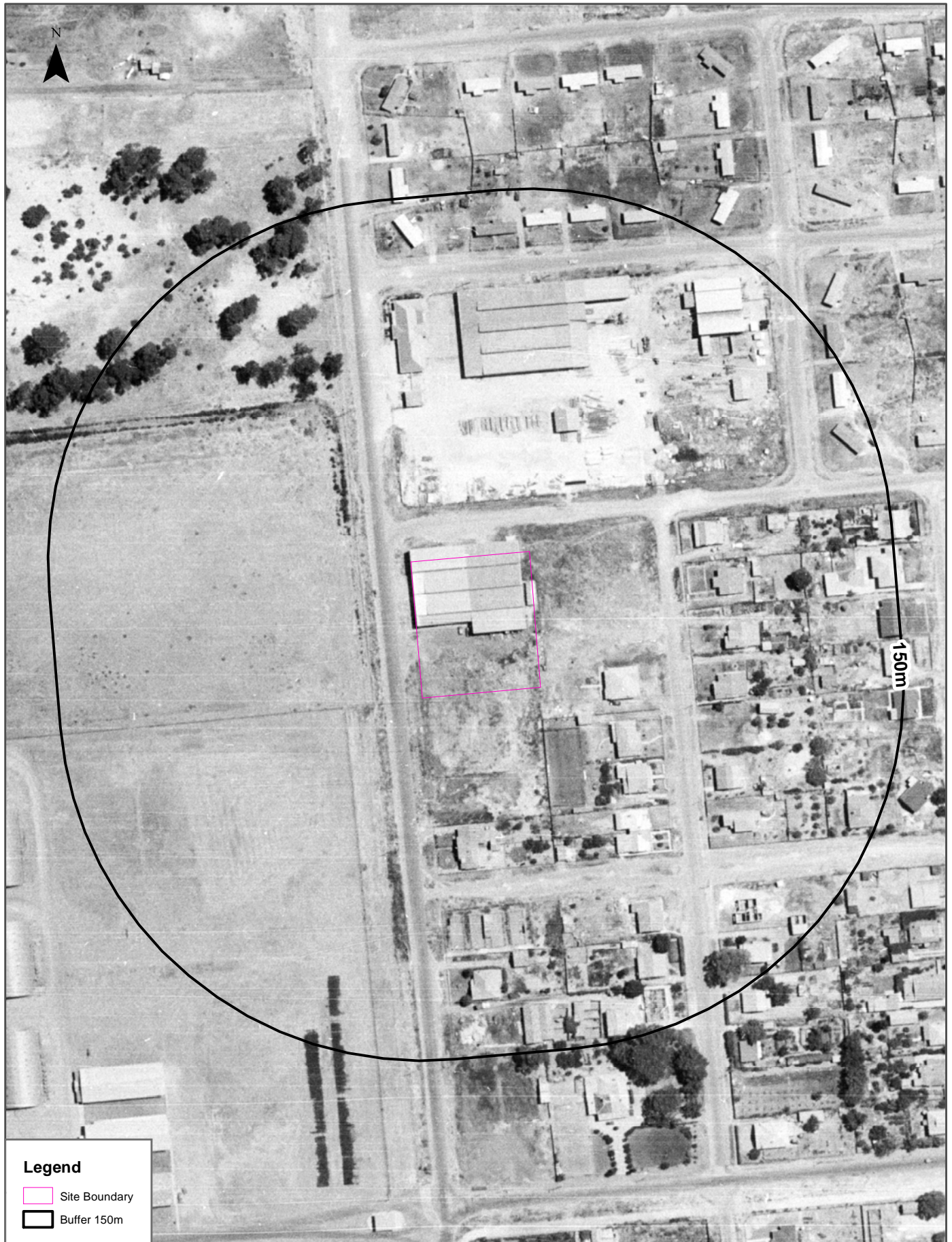
Data Sources Aerial Imagery: © South Australia
Department for Environment & Water

Coordinate System:
GDA 1994 MGA Zone 54


Date: 09 February 2023

Aerial Imagery 1959

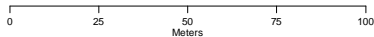
65-69 Morphett Road, Camden Park, SA 5038



Legend

-  Site Boundary
-  Buffer 150m

Scale:



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Coordinate System:
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Date: 09 February 2023

Aerial Imagery 1949

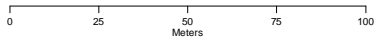
65-69 Morphett Road, Camden Park, SA 5038



Legend

-  Site Boundary
-  Buffer 150m

Scale:



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Date: 09 February 2023

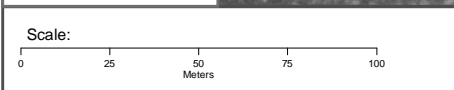
Aerial Imagery 1935

65-69 Morphett Road, Camden Park, SA 5038



Legend

-  Site Boundary
-  Buffer 150m



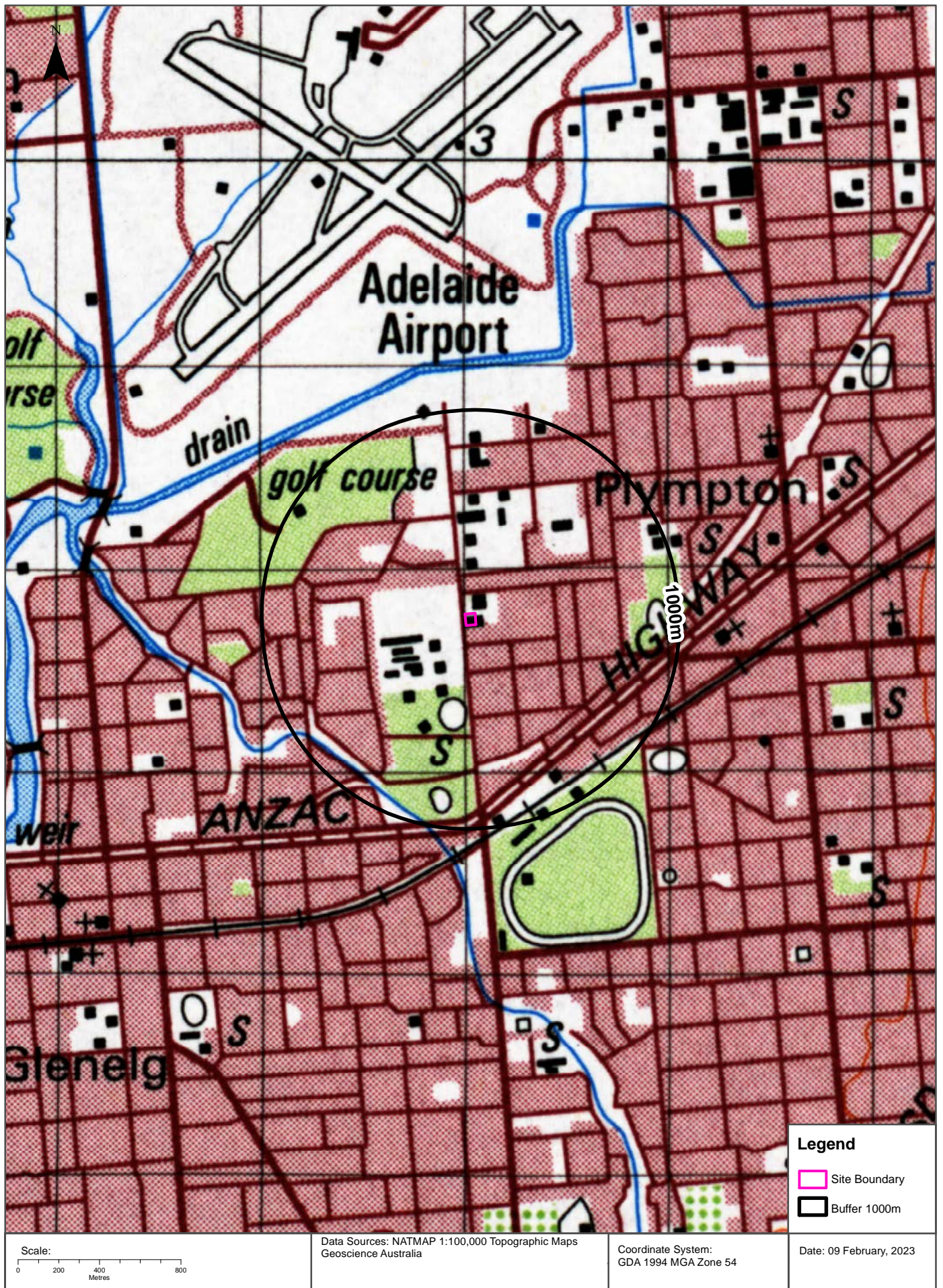
Data Sources Aerial Imagery:(c)2021 Geoscience Australia

Coordinate System:
GDA 1994 MGA Zone 54

Date: 09 February 2023

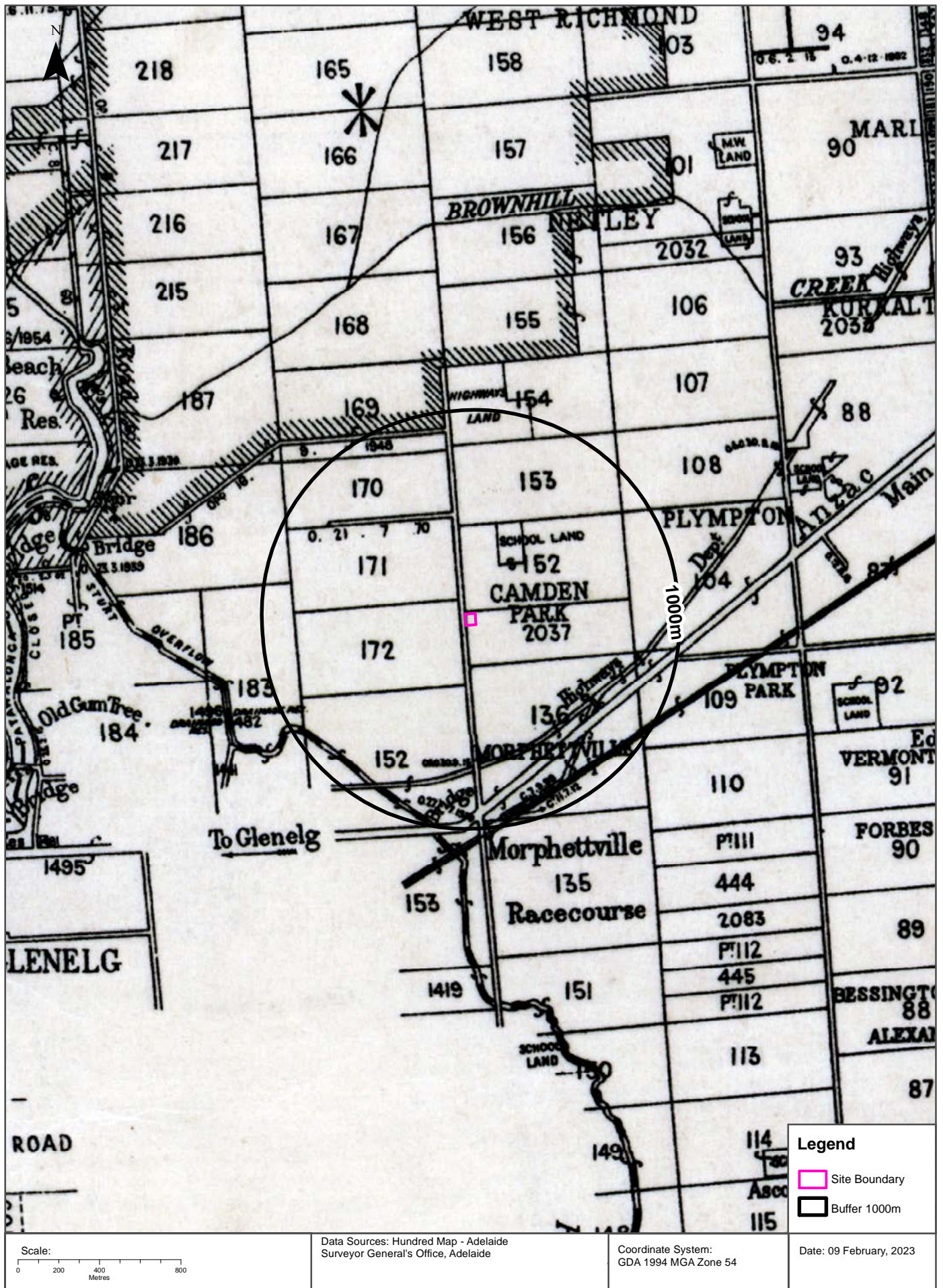
Historical Map 1982

65-69 Morphett Road, Camden Park, SA 5038



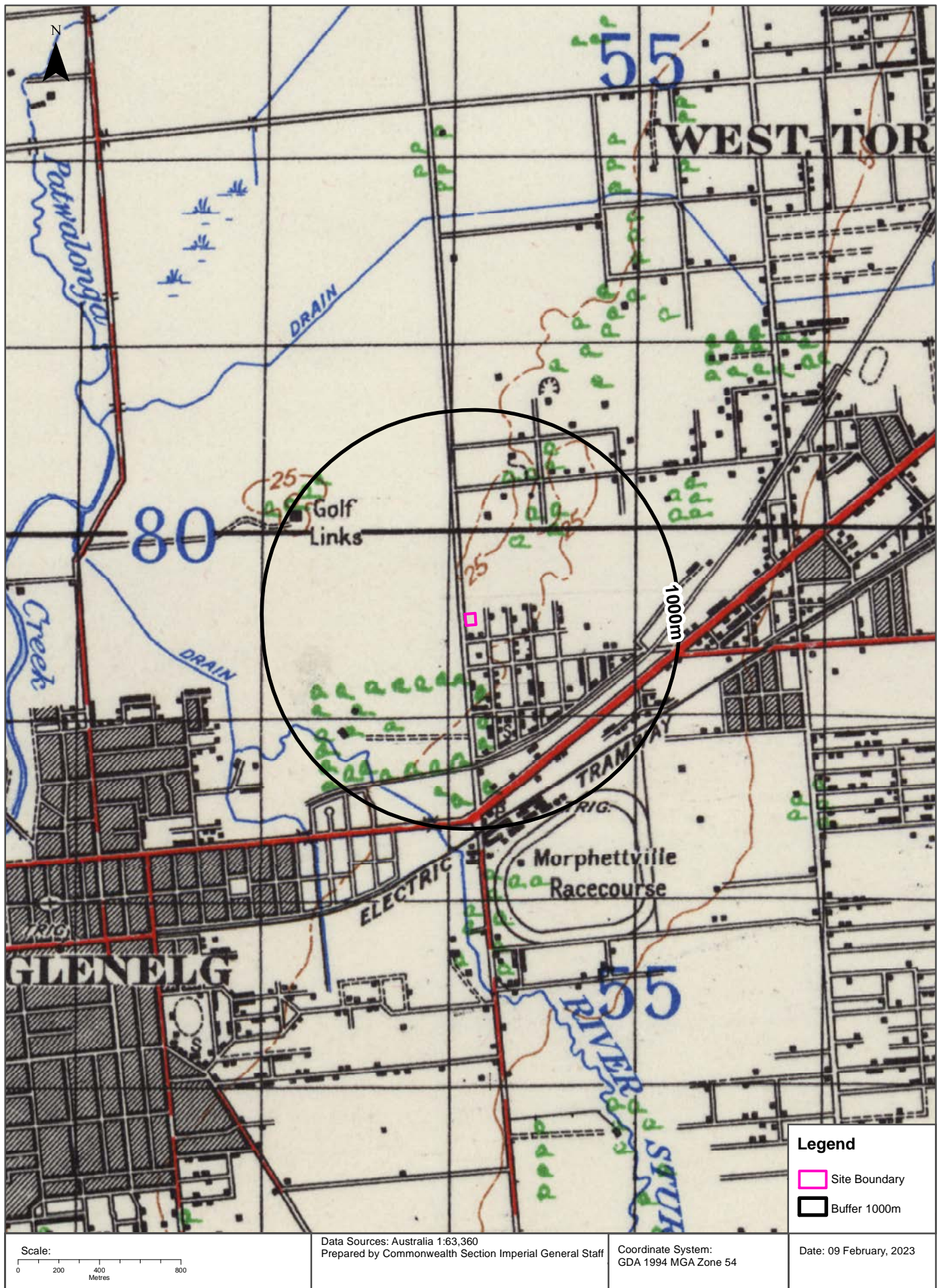
Historical Map 1959

65-69 Morphett Road, Camden Park, SA 5038



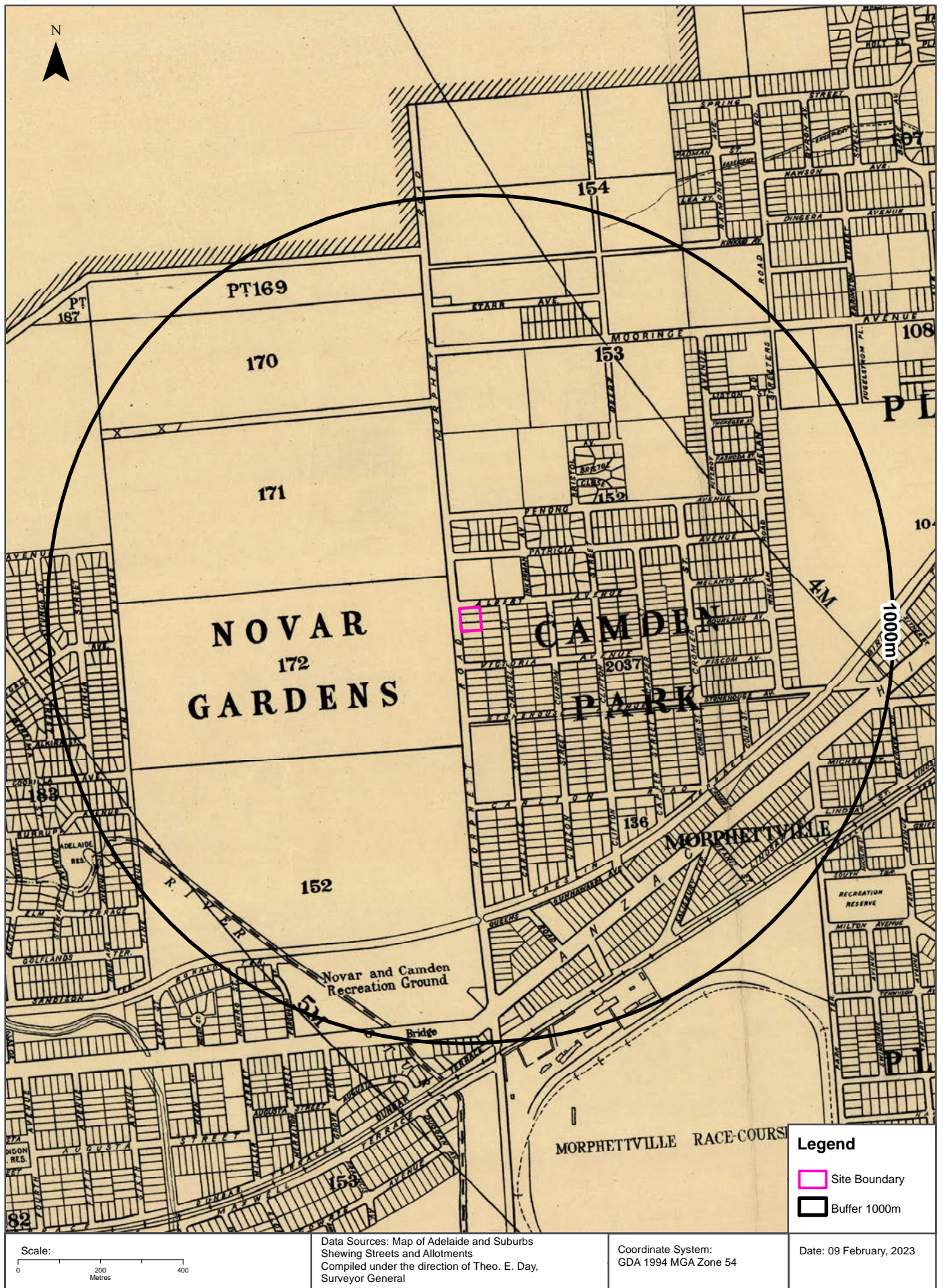
Historical Map c.1937

65-69 Morphett Road, Camden Park, SA 5038



Historical Map 1927

65-69 Morphett Road, Camden Park, SA 5038



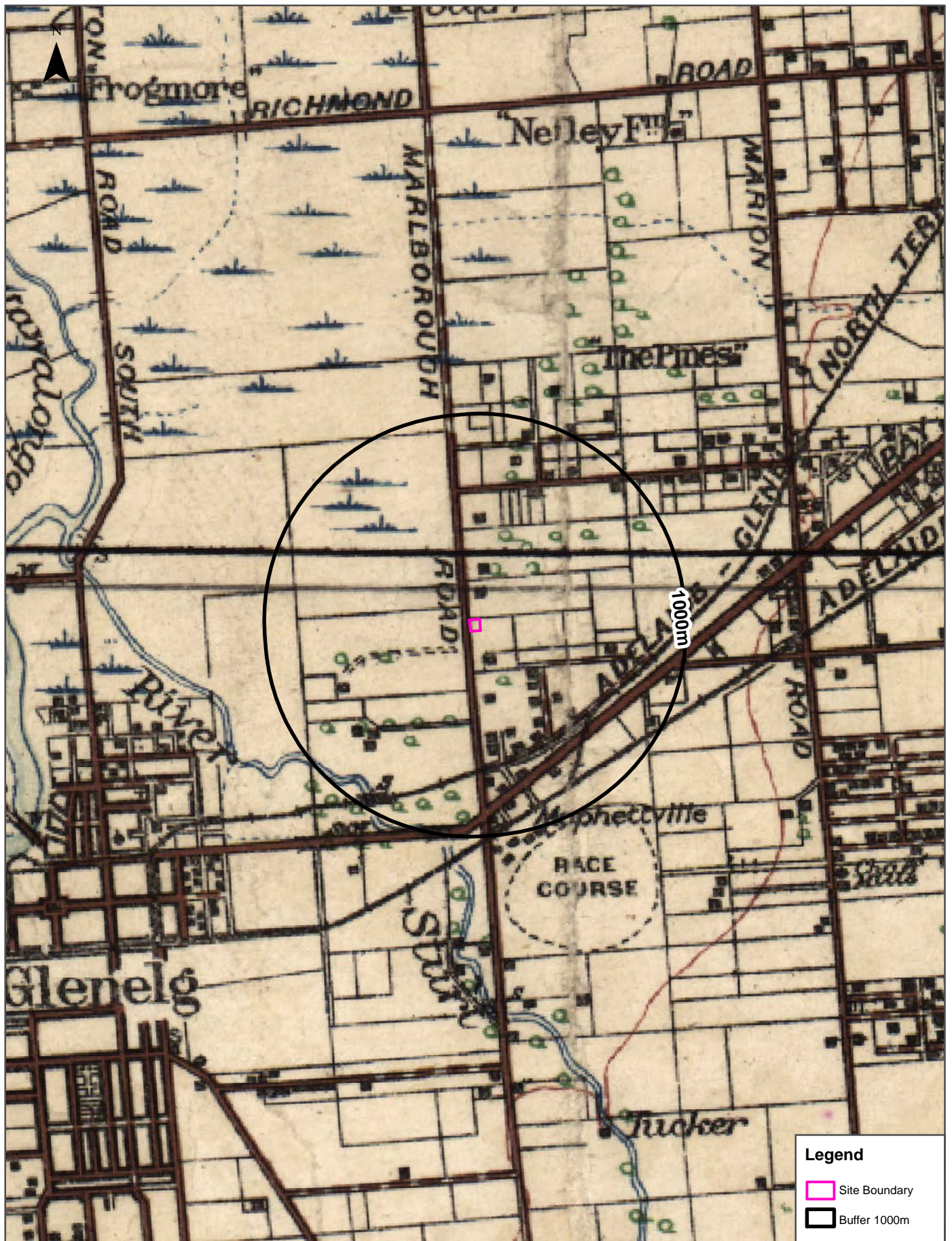
Historical Map 1926

65-69 Morphett Road, Camden Park, SA 5038


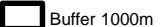


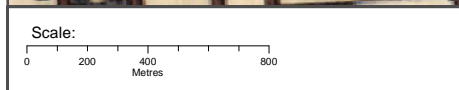
Historical Map c.1914

65-69 Morphett Road, Camden Park, SA 5038



Legend

-  Site Boundary
-  Buffer 1000m



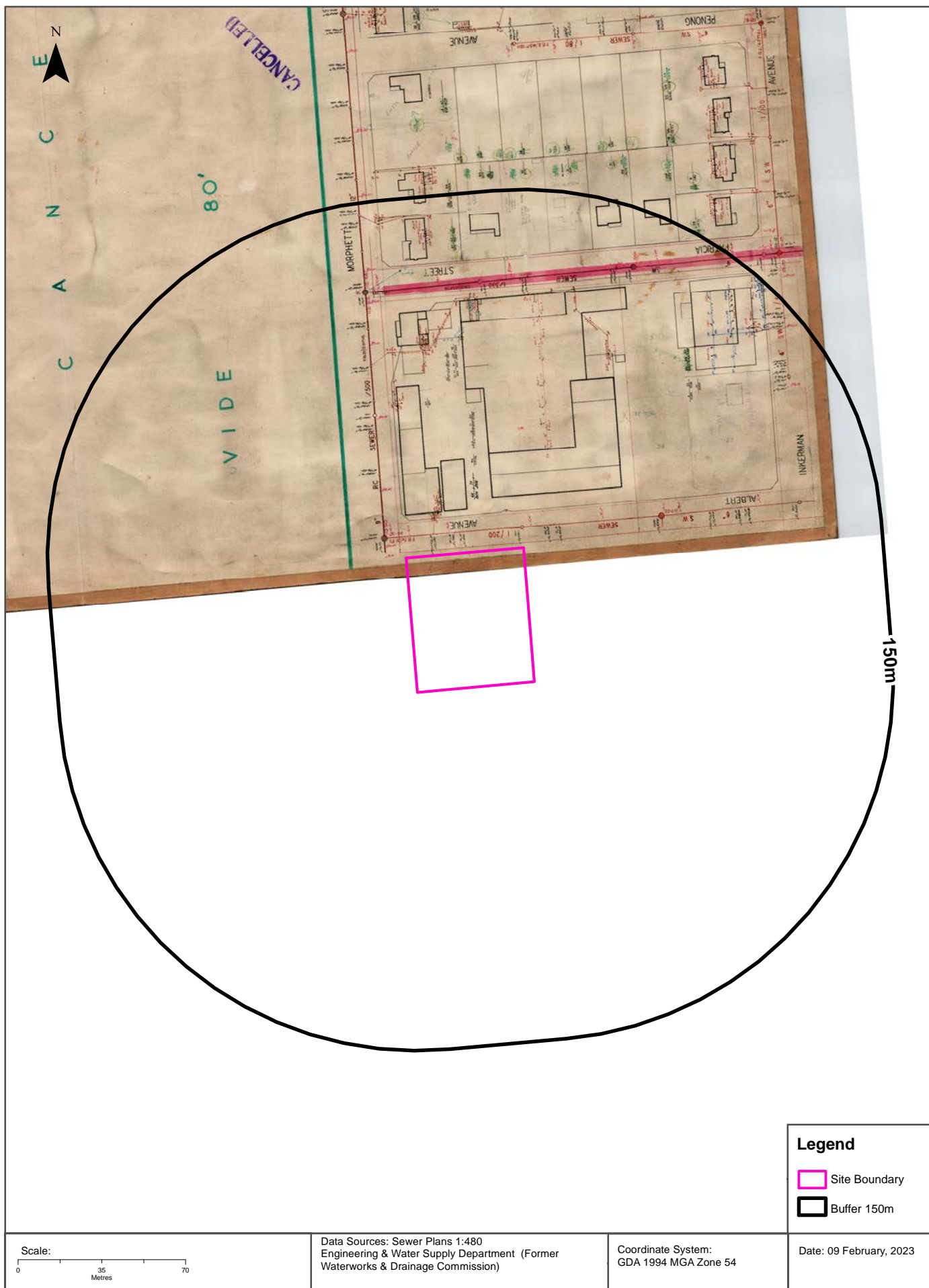
Data Sources: Australia 1:63,360
Prepared by Commonwealth Section Imperial General Staff

Coordinate System:
GDA 1994 MGA Zone 54

Date: 09 February, 2023

Historical Map 1900-1970

65-69 Morphett Road, Camden Park, SA 5038



Scale: 0 35 70 Metres

Data Sources: Sewer Plans 1:480
Engineering & Water Supply Department (Former
Waterworks & Drainage Commission)

Coordinate System:
GDA 1994 MGA Zone 54

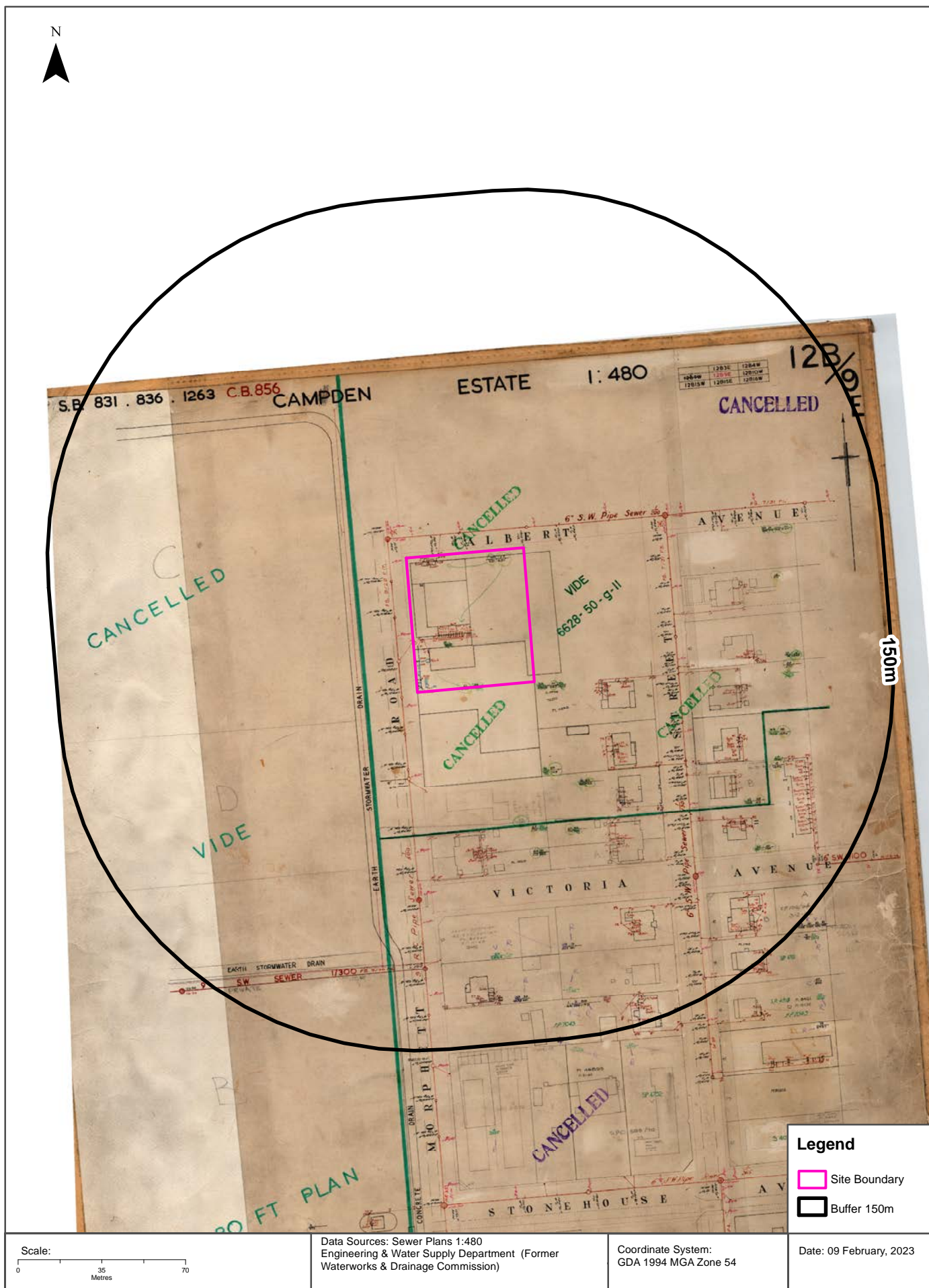
Legend

- Site Boundary
- Buffer 150m

Date: 09 February, 2023

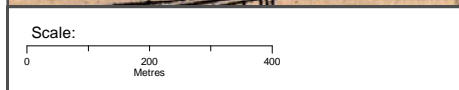
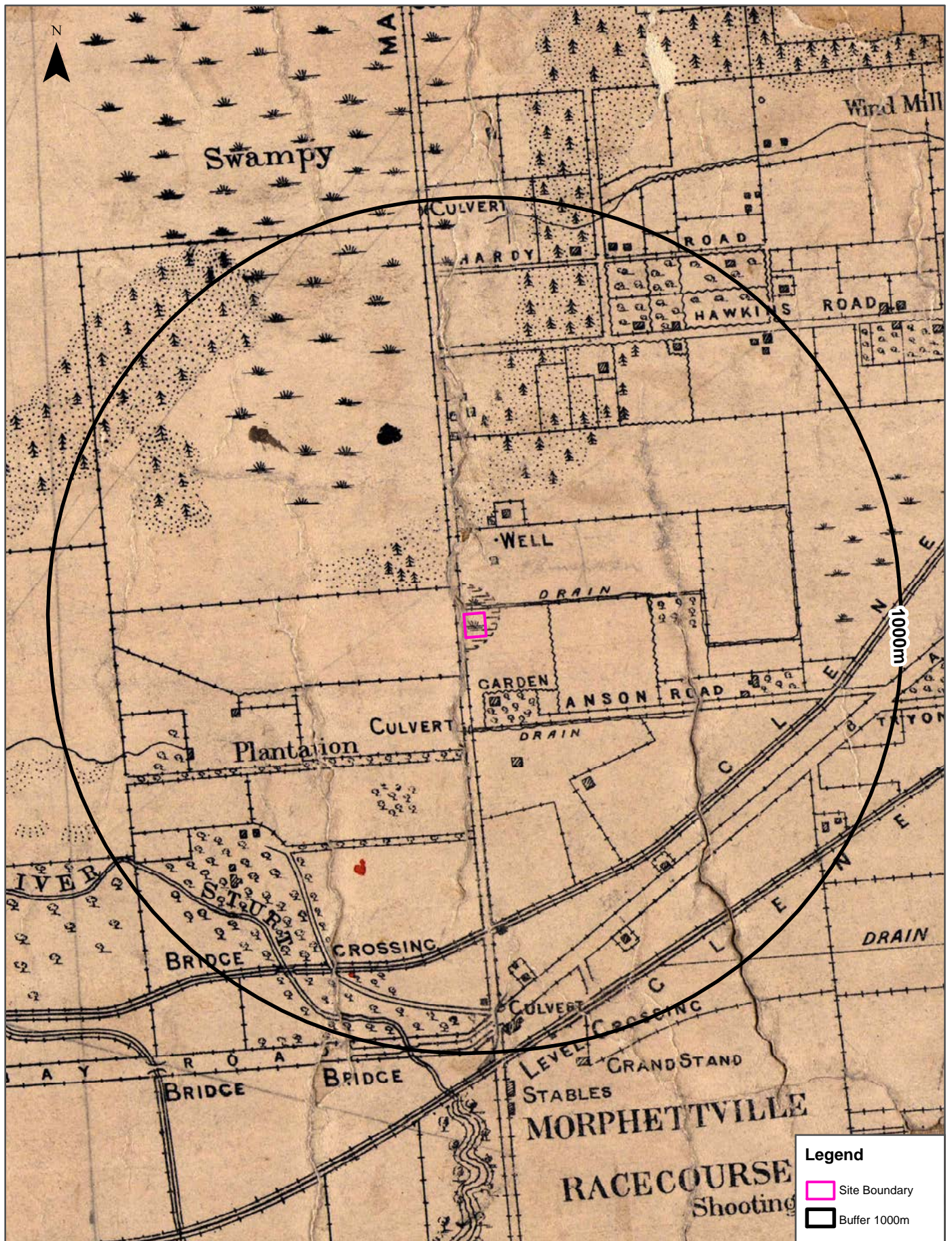
Historical Map 1900-1970

65-69 Morphett Road, Camden Park, SA 5038



Historical Map 1889

65-69 Morphett Road, Camden Park, SA 5038


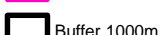


Data Sources:
Military Map
Compiled in the Surveyor General's Office 1889

Coordinate System:
GDA 1994 MGA Zone 54

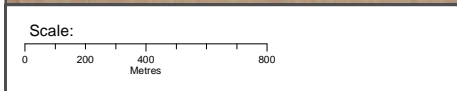
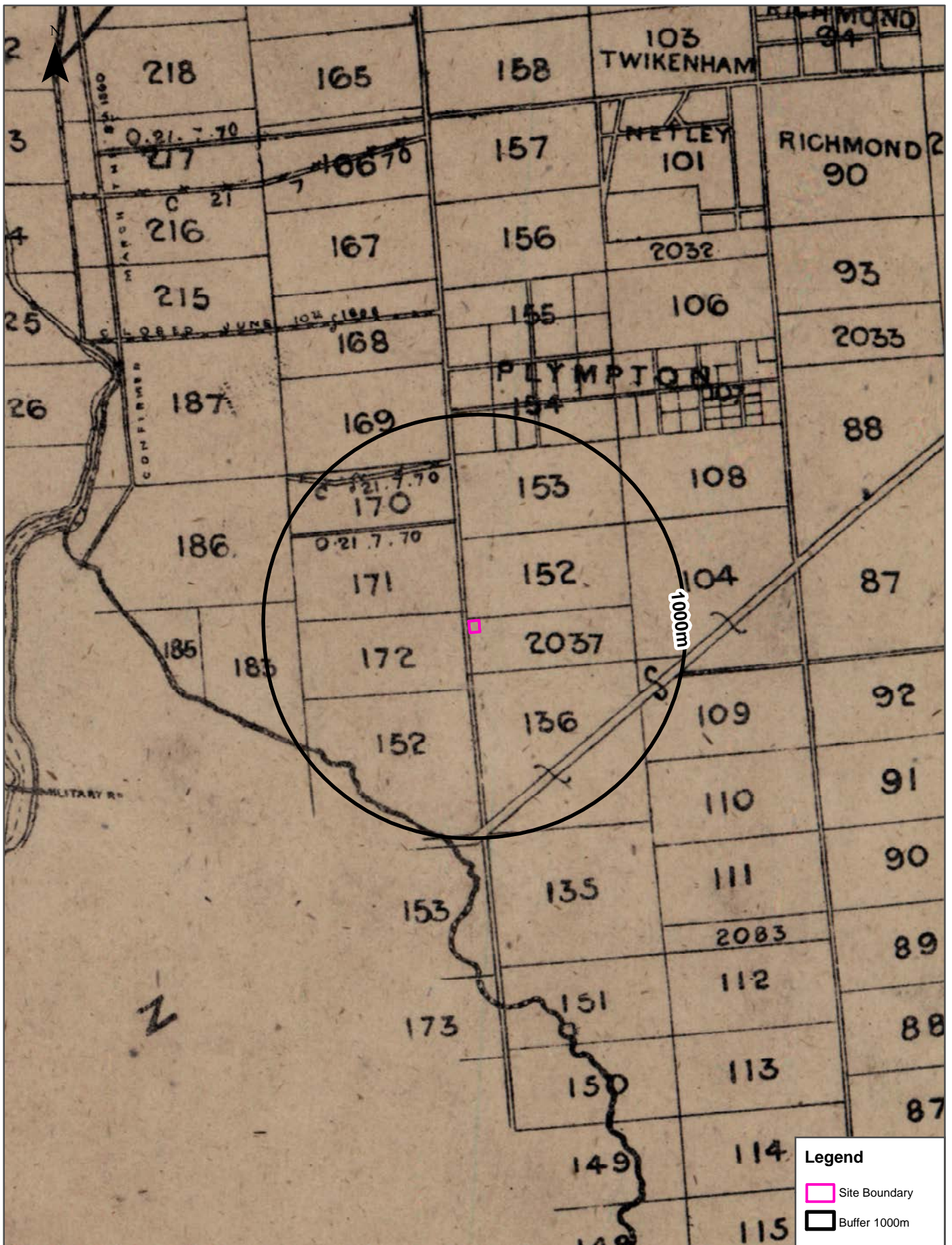
Date: 09 February, 2023

Legend

-  Site Boundary
-  Buffer 1000m

Historical Map 1873

65-69 Morphet Road, Camden Park, SA 5038



Data Sources: Hundred Map - Adelaide
Surveyor General's Office, Adelaide

Coordinate System:
GDA 1994 MGA Zone 54

Date: 09 February, 2023

Mining

65-69 Morphett Road, Camden Park, SA 5038

Mines and Mineral Deposits

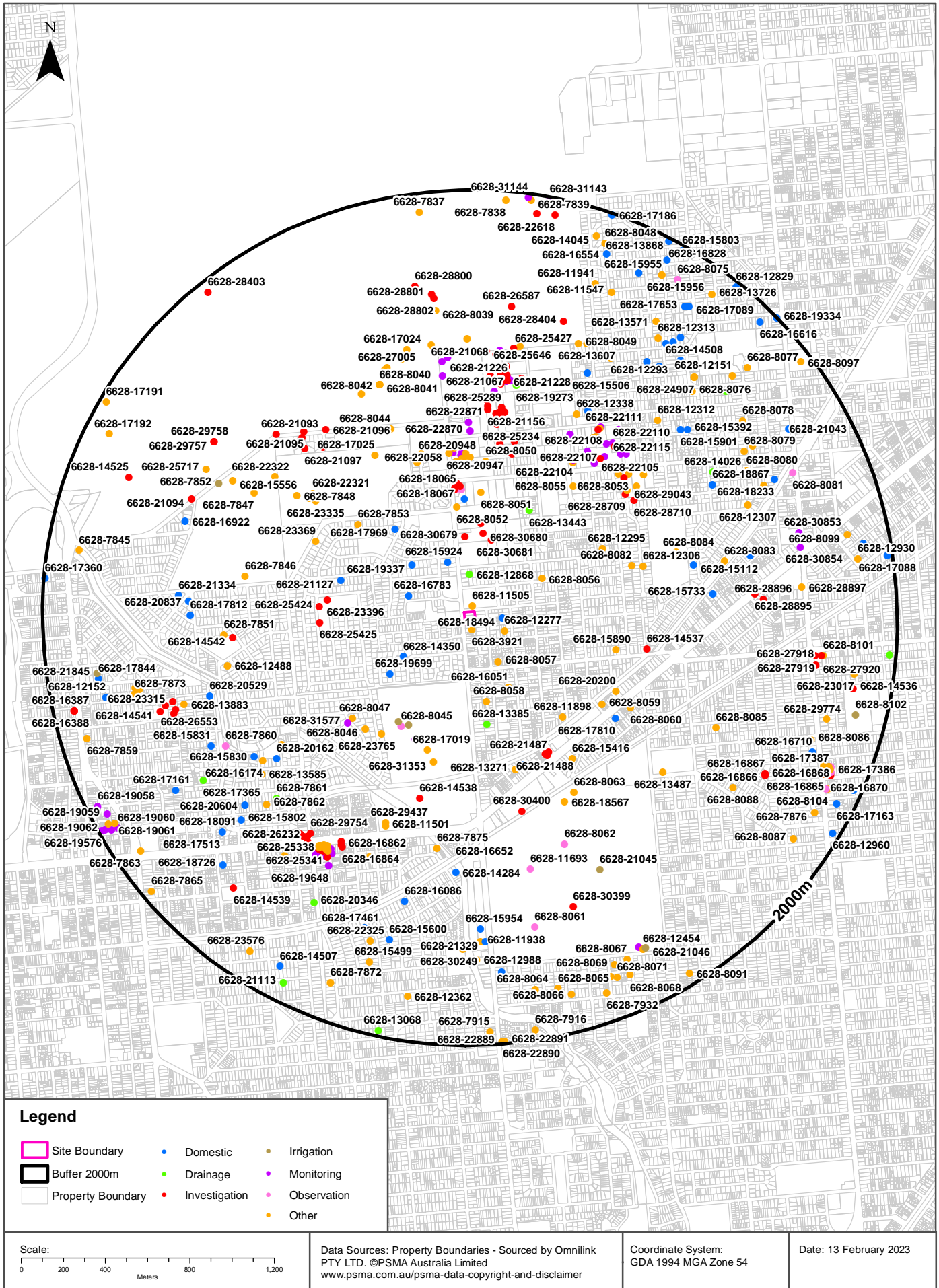
Mines and mineral deposits within the dataset buffer:

Deposit No.	Name	Class	Status	Commodity	Year	Description	Dist	Dir
N/A	No records in buffer							

All Mines and Mineral Deposits Data Source: Dept. of State Development, Resources and Energy - South Australia
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Drillholes

65-69 Morphett Road, Camden Park, SA 5038



Groundwater and Drillholes

65-69 Morphett Road, Camden Park, SA 5038

Groundwater Aquifers

Groundwater aquifers within the dataset buffer:

Aquifer Code	Description	Distance	Direction
20	Sedimentary Rocks - basins include limestone, often cavernous, sandstone, sand shale and clay	0m	On-site

Groundwater Aquifers Data Source: Dept. of Environment, Water and Natural Resources - South Australia
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Drillholes

Drillholes within the dataset buffer:

Unit No	Drillhole No	Name	Status	Purpose	Drill Date	Max Depth	Ref Elev	Ground Elev	PH	TDS	EC	Yield	DTW	SWL	RSWL	Dist	Dir
6628-11505	58474					103.63		6.75				8.8400				26m	North
6628-3921	50890				1980-02-16	10.05		7.03	9.20	2312	4150	0.3000	4.00	4.00	3.03	31m	South
6628-18494	164821		Operational	Domestic	1997-04-26	22.00		7.28		6332	11050	1.0000	6.00	6.00	1.28	129m	East
6628-12277	59246		Backfilled		1983-05-04	14.60		7.54	7.40	6176	10799	1.6000	1.80	1.80	5.74	143m	East
6628-12868	59837		Operational	Drainage	1984-03-30	24.00		6.24	7.40	10511	17908					175m	North
6628-8057	55026					4.27		7.74		7839	13578					214m	South East
6628-15924	62893		Operational	Domestic	1992-02-22	12.00		5.81	7.50	5946	10416		3.00	3.00	2.81	248m	North
6628-16783	146342			Domestic	1994-10-25	16.50		5.67	6.70	8899	15300					274m	West
6628-14350	61319		Operational	Domestic	1988-01-21	9.10		6.69	7.80	5994	10500	1.2000	2.20	2.20	4.49	333m	South West
6628-19337	173836			Domestic	1999-01-15	12.00		5.37		6925	12040	1.0000	2.00	2.00	3.37	335m	North West
6628-16051	63020		Backfilled		1992-04-14	15.00		8.10	7.60	5951	10425	2.0000	6.00	6.00	2.10	343m	South East
6628-30681	335374			Investigation	2020-03-04	5.00										347m	North
6628-8056	55025				1951-01-01	1.28		7.21		22880	36575		1.23	1.23	5.98	354m	North East
6628-30679	335372			Investigation	2020-03-04	4.50										355m	North
6628-30680	335373			Investigation	2020-03-04	5.00										372m	North
6628-8058	55027					12.19	8.00			4990	8801	0.2500				378m	South
6628-30682	335376			Investigation	2020-03-04	5.00										420m	North
6628-19699	176607			Domestic	1999-09-15	12.00		6.92		4031	7150		3.00	3.00	3.92	430m	South West
6628-13385	60354		Operational	Drainage	1985-03-27	11.00		8.30	7.60	3712	6600	1.0000	4.50	4.50	3.80	485m	South

Unit No	Drillhole No	Name	Status	Purpose	Drill Date	Max Depth	Ref Elev	Ground Elev	PH	TDS	EC	Yield	DTW	SWL	RSWL	Dist	Dir
6628-8052	55021	EWS 30	Controlled Flowing	Managed aquifer recharge monitoring; Observation	1946-01-18	103.63	6.21	5.77	8.70	865	1570	8.8400	0.33	-0.11	5.88	499m	North
6628-17969	160026			Domestic	1996-09-06	12.00		4.93	7.10	7924	13700	1.0000				514m	North West
6628-18093	162660			Domestic	1996-11-06	11.00		5.25	7.30	8402	14500	1.2500				533m	North
6628-13443	60412		Operational	Drainage	1985-08-08	9.14		6.29	7.20	8400	14496	2.5000	1.83	1.83	4.46	543m	North East
6628-26395	270204	IMMANUEL COLLEGE 2	Controlled Flowing	Irrigation	2008-09-27	124.00			7.33	1279	2311	10.1024	1.94	1.94		550m	South West
6628-27008	276015	IMMANUEL COLLEGE 3	Controlled Flowing	Irrigation		124.00			7.24	1154	2090	20.0000	4.00	4.00		562m	South West
6628-8051	55020							5.34		956	1733					566m	North
6628-8045	55014	IMMANUEL COLLEGE 1	Unknown	Observation	1964-09-22	106.68	7.72	6.73	7.70	1289	2330	15.1600	-3.94	-4.93	11.66	574m	South West
6628-18067	162605	C 3		Observation	1995-10-31	4.00		5.14	7.60	2199	3950					579m	North
6628-18065	162603	C 1		Observation	1995-10-31	4.00		5.05	7.80	2030	3650					581m	North
6628-28377	289309			Investigation		4.00										585m	North
6628-28378	289310			Investigation	2016-04-26	4.00										592m	North
6628-18066	162604	C 2		Observation	1995-10-31	4.00		5.07	7.50	2653	4750					595m	North
6628-22630	219168	GMW 1	Not Operational	Monitoring		6.00		8.25					5.20	5.20	3.05	596m	South West
6628-28375	289307			Investigation	2016-04-26	4.00										598m	North
6628-21127	195721		Backfilled	Domestic	2001-10-19	10.00		5.03		6389	11150		2.40	2.40	2.63	605m	West
6628-28376	289308			Investigation	2016-04-26	4.00										610m	North
6628-11898	58867				1981-12-16	20.10		9.33	7.60	2909	5200	0.7500	2.40	2.40	6.93	611m	South East
6628-17019	148188	SZ 30	Not Operational			3.86	8.00									625m	South
6628-23396	236801	MW 1		Investigation	2008-01-25	4.50		5.29					3.03	3.03	2.26	653m	West
6628-7853	54822					2.44		4.98	7.20	816	1480		0.61	0.61	4.37	653m	North West
6628-23765	241497				2008-02-24	12.00		6.44				0.3000	5.60	5.60	0.84	657m	South West
6628-31353	357170	METRO SOILS BORE GH 26				43.00										673m	South
6628-12295	59264				1983-03-23	18.50		8.03	6.90	13701	22929	0.9000	6.00	6.00	2.03	676m	North East
6628-15890	62859		Abandoned		1992-02-09	15.00		9.13	7.70	9941	16998		15.00	15.00	-5.87	678m	East
6628-25424	259092	GMW 2		Investigation	2009-12-23	6.00										687m	West
6628-25425	259093	GMW 3		Investigation	2009-12-23	6.00										687m	West
6628-8046	55015					86.26		4.62		2130	3829		2.74	2.74	1.88	688m	South West
6628-22057	203661	MW 14			2004-11-09	4.00		4.90								696m	North
6628-8047	55016					14.02	6.00		7.40	3236	5771	1.3000	3.66	3.66	2.34	697m	South West

Unit No	Drillhole No	Name	Status	Purpose	Drill Date	Max Depth	Ref Elev	Ground Elev	PH	TDS	EC	Yield	DTW	SWL	RSWL	Dist	Dir
6628-21486	198090	GMW		Investigation	2003-05-26	5.50		9.42					2.50	2.50	6.92	703m	South East
6628-21488	198092			Investigation	2003-05-26	4.50		9.37					2.50	2.50	6.87	705m	South East
6628-17818	156098		Abandoned	Domestic	1996-04-04	19.00		9.29				0.3500				711m	South
6628-8059	55028	EWS 2	Decommissioned		1914-01-01	111.86		9.78		1730	3118	15.1600	1.68	1.68	8.10	714m	South East
6628-22056	203660	MW 13			2004-11-09	4.20		4.88								715m	North
6628-21487	198091			Investigation	2003-05-26	5.00		9.43					2.50	2.50	6.93	716m	South East
6628-8050	55019					90.00	6.00			1013	1834	1.8900	0.00	0.00	6.00	716m	North
6628-13271	60240				1985-03-01	20.00		9.30	7.90	3714	6601	1.0000	3.00	3.00	6.30	721m	South
6628-22053	203657	MW 10			2004-11-09	4.20		4.90								725m	North
6628-22055	203659	MW 12			2004-11-09	4.80		4.88								727m	North
6628-31577	362105			Monitoring	2021-10-29	5.00										730m	South West
6628-22052	203656	MW 9			2004-11-10	4.50		4.91								732m	North
6628-20200	180892		Backfilled		2000-03-03	20.00		9.82								741m	South East
6628-20948	193545	MW 7		Monitoring	2002-11-14	4.50		4.87								741m	North
6628-22780	228373		Backfilled		2007-01-18	10.00		4.83		11098	18840	1.5000				743m	North
6628-20947	193544	MW 6	Abandoned	Monitoring	2002-11-14	4.50		4.87								752m	North
6628-22054	203658	MW 11			2004-11-09	4.50		4.88								752m	North
6628-20949	193546	MW 8		Monitoring	2002-11-14	4.50		4.84								757m	North
6628-8055	55024				1939-01-01	60.96		7.29		985	1785	3.7900	0.61	0.61	6.68	757m	North East
6628-22058	203662	MW 15			2004-11-09	4.00		4.84								758m	North
6628-22595	218522	GW 4		Investigation	2006-05-30	4.50		5.75					2.60	2.60	3.15	769m	North
6628-8082	55051		Decommissioned			76.81		8.71				0.5100				775m	East
6628-22060	203664	MW 17			2004-11-08	3.80		4.83								778m	North
6628-22594	218521	GW 3		Investigation	2006-05-30	4.50		5.59					2.60	2.60	2.99	779m	North
6628-22059	203663	MW 16			2004-11-08	4.00		4.84								780m	North
6628-23369	236746				2007-02-14	5.00		4.80		5081	8950		3.00	3.00	1.80	781m	North West
6628-15416	62385				1988-02-01	10.50	10.00					0.4000	5.00	5.00	5.00	792m	South East
6628-17810	156090			Domestic	1995-12-13	20.00		10.17	7.40	7190	12500	0.5000				803m	South East
6628-22592	218519	GW 1		Investigation	2006-05-30	4.50		5.38					2.60	2.60	2.78	803m	North
6628-14537	61506	GH 25	Abandoned	Investigation	1981-12-14	10.50	10.00									821m	East
6628-22593	218520	GW 2		Investigation	2006-05-30	4.50		5.77					2.60	2.60	3.17	825m	North
6628-12306	59275				1982-07-01	18.29		8.95	6.80	12163	20501		2.13	2.13	6.82	828m	East
6628-8060	55029					17.98		10.30		5140	9055		2.13	2.13	8.17	838m	South East
6628-14099	61068				1988-02-26	11.00		7.34	7.30	5181	9120	0.9500	3.00	3.00	4.34	845m	North East

Unit No	Drillhole No	Name	Status	Purpose	Drill Date	Max Depth	Ref Elev	Ground Elev	PH	TDS	EC	Yield	DTW	SWL	RSWL	Dist	Dir
6628-22870	229366	BH18 MW18		Monitoring	2005-11-14	4.50		4.88					1.70	1.70	3.18	854m	North
6628-14538	61507	GH 26	Abandoned	Investigation	1981-12-15	9.85	7.00									857m	South
6628-17025	148194					3.74	2.00									857m	North West
6628-22104	203940	SB09/MW03		Monitoring	2005-03-22	5.00		7.35		2369	4250		3.01	3.01	4.34	858m	North East
6628-23335	236177	GLENELG GC 18 ASR1	Operational	Managed Aquifer Recharge (incl ASR)	2007-05-29	124.00		4.88		1083	1961	15.0000	0.85	0.85	4.03	880m	North West
6628-25234	256119	MW 1		Investigation	2007-08-13	4.50							3.00	3.00		893m	North
6628-22871	229367	BH19 MW19		Monitoring	2005-11-14	4.20		4.88					1.30	1.30	3.58	897m	North
6628-22105	203944	SB10/MW04		Monitoring	2005-03-15	5.00		7.91		2227	4000		2.93	2.93	4.98	901m	North East
6628-28709	291383	MW 26		Investigation	2016-10-12	4.50							1.50	1.50		904m	North East
6628-22321	209578	GLENELG GC 13 ASR2	Operational	Managed Aquifer Recharge (incl ASR)	2005-10-04	221.00		4.97	7.73	435	790	12.0000				913m	North West
6628-7849	54818	GLENELG GC 5	Rehabilitated		1956-12-07	114.60		7.03		1100	1992	22.7300	0.00	0.00	7.03	913m	North West
6628-30400	325655			Investigation	2019-09-23	5.00										919m	South
6628-28710	291384	MW 27		Investigation	2016-10-12	4.50							1.60	1.60		921m	North East
6628-29043	299983		Backfilled	Environmental	2017-08-16	4.00										924m	North East
6628-28708	291382	MW 25		Investigation	2016-10-12	4.50							2.00	2.00		927m	North East
6628-22108	203948	SB18/MW12		Monitoring	2005-03-21	5.00		7.71		842	1527		3.01	3.01	4.70	929m	North East
6628-7850	54819				1909-09-01	88.70		6.13					0.00	0.00	6.13	929m	South West
6628-8063	55032		Decommissioned		1914-09-30	103.63	5.00			5698	10000	10.1000	1.07	1.07	3.93	930m	South East
6628-24802	247433	GW12/DW1		Investigation	2008-12-20	10.10						10.0000	7.50	7.50		936m	North East
6628-8044	55013	GLENELG GC 4			1951-04-30	91.44		4.76		1145	2072	6.0600	14.33	14.33	-9.57	937m	North West
6628-8054	55023					60.96		8.55		11738	19891	0.6300	2.74	2.74	5.81	941m	North East
6628-22872	229368	BH20 MW20		Monitoring	2005-11-14	4.00		4.88								942m	North
6628-25291	256245	MW 118		Investigation	2010-07-13	4.20										943m	North
6628-25292	256246	MW 117		Investigation	2010-07-13	4.00										944m	North
6628-18567	166239	MORPHE TTVILLE RACECOURSE	Operational	Industrial	1997-04-06	82.00		10.31	7.60	1110	2030	40.0000	8.00	8.00	2.31	948m	South East
6628-28711	291385	MW 28	Backfilled	Investigation	2016-10-12	4.00							1.80	1.80		948m	North East
6628-25290	256244	MW 114		Investigation	2010-07-15	8.00							5.00	5.00		951m	North
6628-22109	203949	SB07/MW01		Monitoring	2005-03-16	5.00		7.28					2.29	2.29	4.99	953m	North East
6628-25288	256242	MW 116		Investigation	2010-07-15	8.00							4.00	4.00		955m	North
6628-22107	203947	SB17/MW11		Monitoring	2005-03-21	5.00		8.18		2426	4350		2.93	2.93	5.25	957m	North East
6628-21156	196102			Investigation	2003-03-25	5.00		5.01								960m	North
6628-7848	54817	GLENELG GC 2			1930-01-14	170.69		10.41		1000	1811	1.2600	0.00	0.00	10.41	968m	North West

Unit No	Drillhole No	Name	Status	Purpose	Drill Date	Max Depth	Ref Elev	Ground Elev	PH	TDS	EC	Yield	DTW	SWL	RSWL	Dist	Dir
6628-29253	304210		Backfilled	Environmental	2017-08-16	4.00										970m	North East
6628-25289	256243	MW 115		Investigation	2010-07-15	8.00							3.50	3.50		974m	North
6628-25236	256121	SB/MW 22		Investigation	2007-08-14	4.50										977m	North
6628-27794	285190	WILLIAM LIGHT R-12	Controlled - shut in	Irrigation	2015-05-15	70.00			7.09	1284	2320	10.0000	1.45	1.45		979m	East
6628-8053	55022	BITUMAX LTD	Backfilled		1959-11-05	7.32		8.83		11440	19421		0.84	0.84	7.99	979m	North East
6628-8084	55053	WILLIAM LIGHT R-12	Decommissioned		1968-08-08	81.38	3.00		7.70	1183	2140		4.73	4.73	-1.73	996m	East
6628-26437	270974	MW 31			2012-08-03	5.50							3.40	3.40		997m	North East
6628-25235	256120	SB/MW 21		Investigation	2007-08-13	4.50							3.20	3.20		1004m	North
6628-22112	203952	SB16/MW 10		Monitoring	2005-03-21	5.00		7.81		1088	1969		3.18	3.18	4.63	1007m	North East
6628-23307	236141	MW 6			2007-10-29	5.80		7.81								1007m	North East
6628-22115	203955	SB15/MW 09		Monitoring	2005-03-21	5.00		8.16		1602	2890		2.81	2.81	5.35	1011m	North East
6628-29437	307002				2018-04-09	107.50						20.0000	10.00	10.00		1015m	South
6628-22106	203946	SB11/MW 05		Monitoring	2005-03-15	5.00		8.61					2.53	2.53	6.08	1017m	North East
6628-16652	142277			Domestic	1994-04-16	14.00		8.76	7.40	1519	2740		4.00	4.00	4.76	1020m	South
6628-26225	267634	MW 30		Investigation	2012-02-10	4.80							2.80	2.80		1027m	North East
6628-21099	195408			Investigation	2002-09-17	2.00		4.70					0.50	0.50	4.20	1030m	North West
6628-29044	299984		Backfilled	Environmental	2017-08-16	4.50										1030m	North East
6628-11501	58470	WEST TORRENS COUNCIL	Decommissioned	Recreational	1990-08-25	109.73		8.17	7.78	1222	2210	25.2561	10.66	10.66	-2.49	1033m	South
6628-22110	203950	SB08/MW 02		Monitoring	2005-03-21	5.00		8.28					3.36	3.36	4.92	1033m	North East
6628-22114	203954	SB12/MW 06		Monitoring	2005-03-15	5.00		8.54		2001	3600		2.54	2.54	6.00	1037m	North East
6628-23305	236139	MW 4		Monitoring	2007-10-02	5.70		8.74					4.20	4.20	4.54	1037m	North East
6628-25775	264011	MW 29		Investigation	2011-05-27	5.20				2386	4280		3.09	3.09		1041m	North East
6628-24743	247140				2008-10-23	23.00		5.55		2182	3920	0.2000	4.00	4.00	1.55	1042m	South West
6628-28733	291480			Monitoring	2017-03-01	9.00							3.20	3.20		1049m	North
6628-12338	59307				1980-12-11	9.60		6.50	8.50	3943	7000	0.7500	3.13	3.13	3.37	1053m	North East
6628-23306	236140	MW 5			2007-10-29	6.00		7.46								1053m	North East
6628-7846	54815	GLENELG GC 3	Decommissioned		1951-04-03	103.63		5.07		6600	11517	6.3200	15.85	15.85	-10.78	1053m	West
6628-22111	203951	SB14/MW 08		Monitoring	2005-03-15	5.00		7.42		2460	4410		3.25	3.25	4.17	1059m	North East
6628-15112	62081		Operational	Domestic	1989-01-01	11.00		10.15	7.40	4049	7182		8.00	8.00	2.15	1060m	East
6628-7875	54844				1914-01-01	92.96		9.35		1185	2145	2.5300	0.00	0.00	9.35	1073m	South
6628-21097	195406			Investigation	2002-09-17	3.00		4.79					1.80	1.80	2.99	1085m	North West
6628-21096	195405			Investigation	2002-09-17	2.00		4.67					0.70	0.70	3.97	1087m	North West

Unit No	Drillhole No	Name	Status	Purpose	Drill Date	Max Depth	Ref Elev	Ground Elev	PH	TDS	EC	Yield	DTW	SWL	RSWL	Dist	Dir
6628-26256	267679	MW 6		Investigation	2012-01-23	5.00							2.60	2.60		1087 m	North
6628-19273	173641			Drainage	1998-07-06	18.00		5.39		3390	6040	3.8000	1.85	1.85	3.54	1089 m	North
6628-21335	197210			Domestic	2003-05-28	15.00		6.54		4280	7580	1.3000	4.00	4.00	2.54	1092 m	North East
6628-22113	203953	SB13/MW 07		Monitoring	2005-03-15	5.70		7.85		1485	2680		2.64	2.64	5.21	1099 m	North East
6628-25645	262693	MW 2		Investigation	2010-11-11	5.00				1187	2147		2.40	2.40		1099 m	North
6628-20162	180562			Domestic	2000-03-08	12.50		5.81		2561	4590	1.0000	2.20	2.20	3.61	1101 m	South West
6628-21228	196720			Monitoring	2003-05-05	5.00		5.22					3.00	3.00	2.22	1102 m	North
6628-26255	267678	MW 5		Investigation	2012-01-23	4.50							2.40	2.40		1103 m	North
6628-26778	274740	MW 11		Investigation	2013-01-24	5.00							3.10	3.10		1103 m	North
6628-22322	209579	GLENELG GC 9 ASR3	Operational	Managed Aquifer Recharge (incl ASR)	2005-10-12	196.70		5.91		1039	1881	10.0000	7.00	7.00	-1.09	1104 m	North West
6628-14542	61511	GH 30	Abandoned	Investigation	1981-12-21	10.00	6.50									1105 m	West
6628-21067	195372	GW 5		Monitoring	2003-02-05	4.50		5.24					3.50	3.50	1.74	1108 m	North
6628-17808	156088			Domestic	1995-10-30	30.00		8.11	7.20	4205	7450		4.00	4.00	4.11	1110 m	South
6628-26254	267677	MW 4		Investigation	2012-01-23	5.20							2.70	2.70		1116 m	North
6628-21226	196718			Monitoring	2003-05-05	5.00		5.15					3.00	3.00	2.15	1118 m	North
6628-25644	262692	MW 1		Investigation	2010-11-11	5.00						5.0000	2.70	2.70		1121 m	North
6628-21296	197037			Monitoring	2003-08-06	4.40		4.97								1125 m	North
6628-28735	291482			Investigation	2017-03-02	8.00										1126 m	North
6628-28736	291483			Investigation	2017-03-02	8.50										1127 m	North
6628-26777	274739	MW 10		Investigation	2013-01-24	5.00							3.30	3.30		1129 m	North
6628-21098	195407			Investigation	2002-09-17	2.50		4.38					0.79	0.79	3.59	1130 m	North West
6628-26775	274737	MW 8		Investigation	2013-01-23	5.00							4.00	4.00		1131 m	North
6628-15733	62702		Operational	Domestic	1991-11-22	20.00		10.71	7.20	5298	9319		4.50	4.50	6.21	1133 m	East
6628-8062	55031	OBS 2		Observation		42.67		11.30		370	670	12.6300	7.01	7.01	4.29	1133 m	South East
6628-13487	60456		Rehabilitated		1985-10-30	75.50		11.47	7.70	1564	2820	3.0000	7.75	7.75	3.72	1137 m	South East
6628-26774	274736	MW 7		Investigation	2013-01-23	5.00							4.10	4.10		1144 m	North
6628-7851	54820					2.44		5.00	7.90	1027	1860					1144 m	West
6628-12488	59457		Backfilled		1983-09-13	7.90		4.90					1.80	1.80	3.10	1145 m	West
6628-25718	263489	AAP 2	Operational	Managed Aquifer Recharge (incl ASR)	2010-10-17	280.00				2709	4850	15.0000	0.00	0.00		1145 m	North West
6628-21095	195404			Investigation	2002-09-17	3.00		4.35					2.00	2.00	2.35	1146 m	North West
6628-7847	54816	GLENELG GC 1	Backfilled		1927-02-14	115.82		3.97		1070	1938	5.6800	0.00	0.00	3.97	1146 m	North West
6628-8040	55009	W&H			1948-03-12	12.80		4.74								1150 m	North

Unit No	Drillhole No	Name	Status	Purpose	Drill Date	Max Depth	Ref Elev	Ground Elev	PH	TDS	EC	Yield	DTW	SWL	RSWL	Dist	Dir
6628-8041	55010	W&H				13.11		4.74								1150 m	North
6628-8042	55011	W&H				13.72		4.74								1150 m	North
6628-8043	55012	W&H				12.19		4.74								1150 m	North
6628-26776	274738	MW 9		Investigation	2013-01-23	5.00							4.30	4.30		1151 m	North
6628-16174	63143		Operational	Recharge	1992-10-30	9.10		5.49	7.60	3667	6520	0.7500	1.40	1.40	4.09	1159 m	South West
6628-21357	197628			Investigation	2003-05-30	4.50		4.97								1170 m	North
6628-21490	198094			Investigation	2003-06-12	2.00		6.09								1177 m	North East
6628-14284	61253		Operational	Domestic	1988-04-29	19.00		9.80	7.90	1732	3120	0.6300	9.70	9.70	0.10	1182 m	South
6628-15830	62799		Operational	Domestic	1991-12-24	10.00		5.51	7.80	2920	5220	0.3000	4.00	4.00	1.51	1182 m	South West
6628-16863	147122			Investigation	1994-10-21	4.00		7.24								1190 m	South West
6628-21294	197035			Monitoring	2003-08-06	4.50		4.98								1194 m	North
6628-11693	58662	OBS 4		Observation	1980-11-15	52.00		10.60	7.20	1158	2096		2.00	2.00	8.60	1195 m	South
6628-13585	60554		Backfilled		1986-02-01	6.00		5.42				0.2000	5.50	5.50	-0.08	1198 m	South West
6628-24540	245309				2007-10-17	12.10		8.00		4951	8730	0.7500	3.60	3.60	4.40	1198 m	South West
6628-16862	147121			Investigation	1994-10-21	4.00		7.32								1202 m	South West
6628-16864	147123			Investigation	1994-10-21	4.00		7.38								1209 m	South West
6628-8083	55052				1914-01-01	37.19		11.24		871	1580	5.6800				1209 m	East
6628-27006	276007	AAP 4A	Decommissioned			186.00				1156	2092					1210 m	North
6628-21295	197036			Monitoring	2003-08-06	4.50		5.00								1211 m	North
6628-27005	276006	AAP 4	Decommissioned		2013-04-29	180.00										1216 m	North
6628-21358	197629	SOLO RESOURCE RECOVERY GW II		Monitoring	2003-05-30	5.00		5.00					2.80	2.80	2.20	1218 m	North
6628-7861	54830		Operational	Drainage	1978-09-22	17.00	5.00		7.70	2058	3700	0.7600	5.00	5.00	0.00	1219 m	South West
6628-21068	195374	GW 6		Investigation	2003-02-05	5.00		5.00					2.50	2.50	2.50	1224 m	North
6628-21093	195402			Investigation	2002-09-17	3.00		4.00					2.40	2.40	1.60	1227 m	North West
6628-29754	313474			Investigation	2018-08-01	4.50										1234 m	South West
6628-25646	262694	MW 3		Investigation	2010-11-11	5.00							3.20	3.20		1235 m	North
6628-27007	276008	AAP 4B	Operational	Managed Aquifer Recharge (incl ASR)	2013-06-13	234.00				2721	4870	30.0000	2.50	2.50		1236 m	North
6628-26766	274719	BH 20	Backfilled													1238 m	South West
6628-8085	55054					7.32		12.72		3180	5677		2.13	2.13	10.59	1243 m	South East
6628-28732	291479			Monitoring	2017-03-01	9.00							4.00	4.00		1244 m	North
6628-19647	176119			Monitoring	1999-02-23	4.00		7.22				0.0100	2.00	2.00	5.22	1245 m	South West
6628-26773	274726	BH 18	Backfilled													1245 m	South West

Unit No	Drillhole No	Name	Status	Purpose	Drill Date	Max Depth	Ref Elev	Ground Elev	PH	TDS	EC	Yield	DTW	SWL	RSWL	Dist	Dir
6628-26765	274718	MW 10	Backfilled													1246 m	South West
6628-25337	258594	SB/MW48	Backfilled	Investigation	2009-11-21	4.50							4.20	4.20		1248 m	South West
6628-26764	274717	BH 41S	Backfilled													1248 m	South West
6628-15506	62475		Abandoned	Domestic	1991-04-04	10.20	8.00		8.00	1664	3000	1.5000	4.30	4.30	3.70	1251 m	North East
6628-12312	59281				1982-09-01	15.24		8.82	7.40	2058	3700	0.5000	3.00	3.00	5.82	1255 m	North East
6628-26772	274725	BH 19	Backfilled													1255 m	South West
6628-25338	258595	SB/MW49	Backfilled	Investigation	2009-11-11	4.50							2.20	2.20		1256 m	South West
6628-26762	274715	MW 40	Backfilled													1256 m	South West
6628-26232	267645	MW 1		Investigation	2011-10-04	4.00							1.80	1.80		1258 m	South West
6628-26763	274716	BH 22	Backfilled													1258 m	South West
6628-26771	274724	BH 2	Backfilled													1258 m	South West
6628-19646	176118			Monitoring	1999-02-23	4.00		7.30				0.0100	2.00	2.00	5.30	1259 m	South West
6628-20529	184825			Domestic	2001-02-20	14.50		4.76		1681	3030	3.0000	6.00	6.00	-1.24	1259 m	West
6628-25427	259424	DFW T2	Operational	Managed aquifer recharge monitoring; Monitoring	2010-06-24	227.00	6.64	5.78	7.59	1020	1847	10.0000	-2.93	-3.79	9.57	1259 m	North
6628-26770	274723	BH 6	Backfilled													1259 m	South West
6628-27246	279619	MW 1A		Investigation	2013-12-16	4.00							3.00	3.00		1259 m	South West
6628-25341	258598	SB/MW 52	Backfilled	Investigation	2009-11-11	4.50							2.20	2.20		1261 m	South West
6628-25342	258599	SB/MW 53	Backfilled	Investigation	2009-11-12	4.50							2.20	2.20		1262 m	South West
6628-28734	291481			Investigation	2017-03-01	8.00										1262 m	North
6628-15556	62525	GLENELG GC 8	Operational	Managed Aquifer Recharge (incl ASR)	1991-01-24	215.00		4.59	7.90	1050	1830	10.0000	6.70	6.70	-2.11	1263 m	North West
6628-25339	258596	SB/MW50	Backfilled	Investigation	2009-11-11	4.50							2.20	2.20		1263 m	South West
6628-26769	274722	BH 5	Backfilled													1263 m	South West
6628-26768	274721	BH 3	Backfilled													1264 m	South West
6628-26234	267647	MW 3	Backfilled	Investigation	2011-10-04	4.00							1.60	1.60		1267 m	South West
6628-26233	267646	MW 2		Investigation	2011-10-04	4.00							1.80	1.80		1268 m	South West
6628-25384	258820	MW 59	Backfilled	Investigation	2010-09-09	4.00										1269 m	South West
6628-26767	274720	BH 12	Backfilled													1269 m	South West
6628-27245	279618	MW 3A		Investigation	2013-12-16	4.00							1.80	1.80		1269 m	South West
6628-25340	258597	SB/MW 51	Backfilled	Investigation	2009-11-11	4.50							2.10	2.10		1271 m	South West
6628-25336	258593	SB/MW 54		Investigation	2009-11-12	4.50							2.80	2.80		1273 m	South West
6628-25362	258787	MW 55		Investigation	2010-04-01	5.60										1273 m	South West
6628-25383	258819	MW 58	Backfilled	Investigation	2010-09-09	4.00							1.50	1.50		1273 m	South West

Unit No	Drillhole No	Name	Status	Purpose	Drill Date	Max Depth	Ref Elev	Ground Elev	PH	TDS	EC	Yield	DTW	SWL	RSWL	Dist	Dir
6628-7860	54829	EWS 79	Backfilled	Observation	1950-10-06	109.73	5.45		8.10	1199	2170	0.0000	2.79	2.79	2.66	1274 m	South West
6628-7862	54831				1951-01-01	5.49		5.30	6.70	3945	7004		3.05	3.05	2.25	1274 m	South West
6628-17024	148193	SZ 35				8.62	2.00									1275 m	North
6628-25428	259425	DFW T1	Operational	Managed aquifer recharge monitoring; Observation	2010-06-28	117.00	6.66	5.89	7.51	1104	1998	5.0000	-3.83	-4.60	10.49	1275 m	North
6628-29753	313473			Investigation	2018-08-01	4.50										1276 m	South West
6628-18867	168288			Domestic	1998-02-26	12.00		11.20		3846	6830	0.2500	3.00	3.00	8.20	1277 m	North East
6628-25719	263513	AAP 1	Operational	Managed Aquifer Recharge (incl ASR)	2010-07-08	240.00				1035	1874	10.0000	0.81	0.81		1278 m	North
6628-29752	313472			Investigation	2018-08-01	4.50										1278 m	South West
6628-25363	258788	MW 56		Investigation	2010-04-01	5.50										1284 m	South West
6628-19645	176117			Monitoring	1999-02-23	4.00		7.18				0.0100	2.00	2.00	5.18	1288 m	South West
6628-19642	176114			Monitoring	1999-02-23	4.00		6.93				0.0100	2.00	2.00	4.93	1292 m	South West
6628-27002	276003	AAP 5	Operational	Managed Aquifer Recharge (incl ASR)	2013-05-26	220.00				925	1676	30.0000	3.50	3.50		1292 m	North
6628-17812	156092			Domestic	1996-02-27	14.00		4.79	7.10	4905	8650	0.2500				1299 m	West
6628-15901	62870		Operational	Domestic	1992-02-07	12.00		9.62	7.30	3007	5371		2.00	2.00	7.62	1302 m	North East
6628-19643	176115			Monitoring	1999-02-23	4.00		6.92				0.0100	2.00	2.00	4.92	1303 m	South West
6628-20837	190541			Domestic	2002-04-09	8.00		4.77		1973	3550		2.20	2.20	2.57	1307 m	West
6628-14026	60995		Operational	Drainage	1987-11-05	11.00		11.14	7.70	2852	5100	0.5000	2.00	2.00	9.14	1308 m	North East
6628-21045	195126	MAR WELL	Operational	Irrigation; Managed Aquifer Recharge (incl ASR)	2002-02-20	75.00		12.18	7.60	1100	2000	40.0000	10.00	10.00	2.18	1310 m	South East
6628-19644	176116			Monitoring	1999-02-23	4.00		6.98				0.0100	2.00	2.00	4.98	1313 m	South West
6628-7852	54821	GLENELG GC 6	Backfilled	Irrigation	1968-01-15	153.31	3.38	2.61	8.30	1077	1950		0.78	0.01	2.60	1313 m	North West
6628-19648	176120			Monitoring	1999-02-23	4.00		7.34				0.0100	2.00	2.00	5.34	1319 m	South West
6628-15392	62361		Operational	Domestic	1990-09-15	12.00	10.00		7.80	3023	5400	1.5000	2.10	2.10	7.90	1328 m	North East
6628-28895	295094			Investigation	2017-07-18	10.00										1330 m	East
6628-17477	153191			Domestic	1995-11-23	16.00		12.20	7.70	2375	4260	2.0000				1334 m	East
6628-15831	62800		Operational	Domestic	1991-12-24	9.00		4.88	7.50	2046	3681	0.5000	4.00	4.00	0.88	1338 m	South West
6628-16086	63055		Operational	Domestic	1992-02-20	18.00		9.42	7.30	2614	4682					1350 m	South
6628-20604	185812			Domestic	2001-05-23	15.00		4.97		2121	3810	0.8000	4.00	4.00	0.97	1353 m	South West
6628-21334	197209			Domestic	2003-05-28	10.00		4.71		2841	5080	1.0000	3.00	3.00	1.71	1357 m	West
6628-12293	59262				1982-11-29	10.90		7.94	8.20	1687	3040	1.0000	2.10	2.10	5.84	1363 m	North East
6628-8049	55018					4.72		5.72	7.00	2030	3652	0.0000	4.62	4.62	1.10	1363 m	North

Unit No	Drillhole No	Name	Status	Purpose	Drill Date	Max Depth	Ref Elev	Ground Elev	PH	TDS	EC	Yield	DTW	SWL	RSWL	Dist	Dir
6628-28896	295095			Investigation	2017-07-18	8.00										1369 m	East
6628-13607	60576				1985-12-01	8.00		6.13	8.00	1928	3470		3.24	3.24	2.89	1378 m	North East
6628-13883	60852				1986-12-01	5.00		4.60	7.50	2165	3890	0.1000	3.00	3.00	1.60	1387 m	West
6628-12307	59276		Backfilled		1983-03-01	15.00		12.05								1391 m	East
6628-16922	147629		Abandoned	Domestic	1995-01-09	6.50		4.53					3.30	3.30	1.23	1392 m	West
6628-7877	54846					5.49		6.29		1959	3525		2.44	2.44	3.85	1395 m	South West
6628-21094	195403			Investigation	2002-09-17	3.00		4.52					1.80	1.80	2.72	1399 m	North West
6628-25717	263488	AAP3	Operational	Managed aquifer recharge monitoring	2010-11-03	340.00				5580	9800	15.0000	3.00	3.00		1400 m	North West
6628-15802	62771		Operational	Domestic	1991-12-09	18.00		4.91	7.50	2001	3600		3.00	3.00	1.91	1412 m	South West
6628-30399	325654			Investigation	2019-09-23	6.50										1424 m	South
6628-26553	272190	MW 2		Investigation	2012-10-16	6.00							2.50	2.50		1433 m	West
6628-23315	236149			Investigation	2007-11-07	15.00		4.53		3339	5950	0.2000	3.00	3.00	1.53	1435 m	West
6628-29757	313483			Investigation	2018-07-31	4.00										1436 m	North West
6628-29758	313484			Investigation	2018-07-31	6.00										1436 m	North West
6628-28404	289390	GW3 PFC		Investigation	2016-05-19	7.00							2.20	2.20		1438 m	North
6628-8039	55008							4.85	7.50	827	1500		0.00	0.00	4.85	1438 m	North
6628-16958	147748			Domestic	1995-02-09	20.00		9.71	6.90	3747	6660					1440 m	North East
6628-26554	272191	MW 1		Investigation	2012-10-16	6.00							2.20	2.20		1446 m	West
6628-17365	151242		Abandoned	Drainage	1995-07-13	9.00		4.70				0.2000				1449 m	South West
6628-15954	62923		Operational	Domestic	1992-03-16	9.00		10.07	7.70	2830	5061	0.7500	4.80	4.80	5.27	1450 m	South
6628-8080	55049					54.86		11.97		871	1580	3.7900				1451 m	North East
6628-8088	55057					2.74		13.33	6.70	3030	5413		2.13	2.13	11.20	1451 m	South East
6628-13394	60363		Operational	Domestic	1985-03-28	8.50		10.03				1.0000	2.10	2.10	7.93	1455 m	North East
6628-26587	272274	GW 11		Investigation	2012-07-20	6.00				3189	5690		3.00	3.00		1458 m	North
6628-8076	55045					6.71	10.00		7.00	2285	4102	0.2400	2.44	2.44	7.56	1467 m	North East
6628-8061	55030	OBS 3		Observation	1945-04-01	36.58	10.65			910	1650	10.1000	1.69	1.69	8.96	1470 m	South
6628-26552	272189	MW 3		Investigation	2012-10-16	5.00							2.70	2.70		1475 m	West
6628-8079	55048				1934-01-01	60.96		11.71		971	1760	10.1000	7.62	7.62	4.09	1486 m	North East
6628-28802	293970	GW 166		Investigation	2016-07-28	5.00							1.80	1.80		1494 m	North
6628-30324	325439		Backfilled			40.47				1474	2660					1494 m	North East
6628-14541	61510	GH 29	Abandoned	Investigation	1981-12-18	10.60	2.00									1506 m	West
6628-20346	182324			Drainage	2000-09-25	8.00		8.03		1743	3140	0.5000	3.50	3.50	4.53	1506 m	South West
6628-11938	58907				1982-02-05	26.20		10.13	7.30	1945	3500	1.7500	7.50	7.50	2.63	1511 m	South

Unit No	Drillhole No	Name	Status	Purpose	Drill Date	Max Depth	Ref Elev	Ground Elev	PH	TDS	EC	Yield	DTW	SWL	RSWL	Dist	Dir
6628-21329	197136			Domestic; Stock	2003-06-05	18.00		10.24		3731	6630	0.5000	5.80	5.80	4.44	1511 m	South
6628-28801	293969	GW 165		Investigation	2016-07-28	4.00							0.50	0.50		1516 m	North
6628-18091	162658			Domestic	1996-10-28	10.00		4.84	7.90	3407	6070	0.2400				1519 m	South West
6628-17461	152969			Domestic	1995-11-24	18.00		9.07	7.40	2375	4260	0.5000				1521 m	South
6628-25183	255878				2009-11-23	20.00				2995	5350	0.3330	5.00	5.00		1522 m	North East
6628-24907	252799		Backfilled			6.20										1524 m	North East
6628-22324	209625				2005-11-10	6.00		4.40		2177	3910					1527 m	West
6628-12531	59500		Backfilled		1983-08-26	12.80		11.98				1.0000	3.30	3.30	8.68	1533 m	North East
6628-16180	63149		Operational	Domestic	1992-09-19	15.00		10.48	7.10	3576	6362		2.70	2.70	7.78	1540 m	North East
6628-15600	62569		Operational	Domestic	1991-08-17	10.50		9.77	7.60	2567	4600	1.0000	5.70	5.70	4.07	1542 m	South
6628-30249	316803															1542 m	South
6628-16866	147125			Investigation	1994-10-20	4.50		14.15								1547 m	South East
6628-16867	147126			Investigation	1994-10-20	4.50		14.14								1549 m	South East
6628-16868	147127			Investigation	1994-10-20	4.50		14.13								1552 m	South East
6628-18233	163032			Domestic	1996-12-28	15.00		12.90		9574	16400		4.50	4.50	8.40	1554 m	North East
6628-28897	295096				2017-07-18	8.00										1554 m	East
6628-8078	55047					76.20		11.61		871	1580	2.5300	0.61	0.61	11.00	1559 m	North East
6628-12313	59282					7.00		10.22	7.40	1340	2420	0.5000	5.00	5.00	5.22	1560 m	North East
6628-19336	173835			Domestic	1999-01-25	18.00		10.34		3246	5790	1.0000	4.50	4.50	5.84	1561 m	North East
6628-28800	293968	GW 164		Investigation	2016-07-28	4.00							0.70	0.70		1566 m	North
6628-17018	148187	SZ 29				4.96	2.00									1568 m	West
6628-22325	209626				2005-01-27	4.00		9.44				4.0000	3.50	3.50	5.94	1572 m	South
6628-30854	346640			Monitoring	2020-02-24	4.60							2.80	2.80		1574 m	East
6628-23585	239392				2008-01-15	9.00		4.35		4846	8550	0.4000	3.20	3.20	1.15	1576 m	West
6628-30853	346145	MW15		Monitoring	2020-02-24	6.00							5.00	5.00		1583 m	East
6628-13603	60572		Operational	Drainage	1986-03-08	13.82		11.15				0.2500	5.18	5.18	5.97	1584 m	North East
6628-17161	149664			Domestic	1995-02-17	9.00		4.46	6.80	1530	2760					1584 m	South West
6628-15503	62472		Operational	Domestic	1991-03-15	10.50	10.00		8.10	2063	3709	1.0000	5.20	5.20	4.80	1587 m	North East
6628-12988	59957		Operational	Stock	1983-11-29	24.00		10.20	7.00	2036	3660	2.4000	3.00	3.00	7.20	1595 m	South
6628-7874	54843					5.49		4.33		6850	11954		2.44	2.44	1.89	1596 m	West
6628-7873	54842					3.96		4.31		6077	10645		1.52	1.52	2.79	1603 m	West
6628-27919	285963	MW 2		Investigation	2014-02-04	11.00										1617 m	East
6628-18726	167425			Domestic	1997-11-13	17.50		5.28		4968	8760	60.0000	4.00	4.00	1.28	1621 m	South West
6628-13571	60540				1985-12-10	12.20		10.23	7.80	1284	2320	1.2500	4.12	4.12	6.11	1622 m	North East

Unit No	Drillhole No	Name	Status	Purpose	Drill Date	Max Depth	Ref Elev	Ground Elev	PH	TDS	EC	Yield	DTW	SWL	RSWL	Dist	Dir
6628-14508	61477		Operational	Domestic	1989-01-21	10.60		10.70	7.00	3885	6900	1.2000	3.50	3.50	7.20	1625 m	North East
6628-27920	285964	MW 3		Investigation	2014-02-04	11.00										1626 m	East
6628-8081	55050	EWS 4	Rehabilitated	Observation	1914-09-08	70.70	13.98	13.18	7.30	1485	2680	5.0000	1.61	0.81	12.37	1643 m	North East
6628-11547	58516		Backfilled		1980-12-22	14.40		7.17	8.70	938	1700	0.2500	3.00	3.00	4.17	1646 m	North East
6628-27918	285962	MW 1		Investigation	2014-02-03	10.00										1648 m	East
6628-11941	58910				1979-05-16	14.00		6.13				0.7500	3.00	3.00	3.13	1656 m	North
6628-12151	59120				1983-02-12	11.50		11.42	6.70	2143	3850	0.5000	4.00	4.00	7.42	1656 m	North East
6628-8101	55070				1914-01-01			15.67		943	1709					1656 m	East
6628-17364	151241			Domestic	1995-06-17	22.50		10.85	7.40	2171	3900	1.5000				1663 m	South
6628-14539	61508	GH 27	Abandoned	Investigation	1981-12-16	10.25	5.00									1668 m	South West
6628-15499	62468		Operational	Recharge	1991-03-26	11.20	9.00		7.80	1703	3070	1.0000	5.80	5.80	3.20	1668 m	South
6628-8086	55055					40.50		15.54		67	122					1685 m	East
6628-21043	195092			Domestic	2002-08-09	36.00		13.43		1485	2680	0.5000	11.00	11.00	2.43	1702 m	North East
6628-16710	145592			Domestic	1994-05-17	19.00		15.60	7.30	2047	3680	0.5000	5.00	5.00	10.60	1711 m	East
6628-14525	61494	GH 13	Abandoned	Investigation	1980-06-17	14.50	5.00									1713 m	West
6628-11694	58663	OBS 1	Rehabilitated	Monitoring	1980-11-10	47.50		13.11	7.60	970	1760		4.50	4.50	8.61	1721 m	South East
6628-21044	195093			Domestic	2002-07-27	29.00		13.41		1867	3360	0.5000	15.00	15.00	-1.59	1722 m	North East
6628-29774	313555					4.96			7.35	2852	5100					1726 m	East
6628-8077	55046					81.69		11.87		913	1656	7.5800	5.49	5.49	6.38	1734 m	North East
6628-12454	59423		Abandoned		1968-09-25	48.77		13.21	7.40	1700	2980	6.0000	6.00	6.00	7.21	1740 m	South East
6628-12152	59121		Operational	Domestic	1983-01-24	10.90		4.17	7.50	2369	4250	1.0000	3.30	3.30	0.87	1741 m	West
6628-17513	153316		Controlled Flowing	Irrigation	1995-09-06	108.00		4.36	7.30	1194	2161	20.0000				1741 m	South West
6628-21046	195127	SITE 2 MAR WELL	Operational	Irrigation; Managed Aquifer Recharge (incl ASR)	2002-02-23	75.10		13.27	7.70	940	1702	40.0000	10.00	10.00	3.27	1742 m	South East
6628-8067	55036				1950-01-01	3.51		12.85	6.70	3730	6632		2.74	2.74	10.11	1751 m	South East
6628-8069	55038					6.40		12.55	7.00	3245	5789		5.79	5.79	6.76	1751 m	South East
6628-17653	155109			Domestic	1996-01-23	20.00		10.83	7.10	1804	3250					1756 m	North East
6628-17844	156159			Domestic	1996-02-07	12.00		4.22	7.00	5670	9950	0.5000				1757 m	West
6628-21845	200715			Irrigation	2004-07-13	10.00		4.24		8130	14030	0.2000	3.40	3.40	0.84	1762 m	West
6628-8064	55033				1915-01-01	96.01		11.83					5.49	5.49	6.34	1762 m	South
6628-17089	148598			Domestic	1995-02-27	20.50		10.93	7.10	2323	4170					1768 m	North East
6628-8065	55034				1949-01-01	7.62	12.00			2630	4711	1.8900	6.10	6.10	5.90	1778 m	South
6628-16921	147628			Domestic	1994-11-27	20.00		9.22	7.40	1703	3070	1.0000				1784 m	North East
6628-21385	197674	BH 22	Backfilled			4.50		15.78								1786 m	South East

Unit No	Drillhole No	Name	Status	Purpose	Drill Date	Max Depth	Ref Elev	Ground Elev	PH	TDS	EC	Yield	DTW	SWL	RSWL	Dist	Dir
6628-12362	59331				1983-06-05	13.70		10.56		1748	3150	0.6000	4.20	4.20	6.36	1790 m	South
6628-21382	197671	BH 19	Backfilled			4.50		15.75								1790 m	South East
6628-21375	197664	D & M GROUND WATER MW 1	Backfilled			4.50		15.74								1792 m	South East
6628-21383	197672	BH 20	Backfilled			4.50		15.72								1797 m	South East
6628-8070	55039				1967-01-01	7.01	13.00		6.70	3385	6032	0.5700	2.74	2.74	10.26	1798 m	South
6628-21379	197668	BH 16	Backfilled			4.50		15.73								1801 m	South East
6628-21380	197669	BH 17	Backfilled			4.50		15.83								1801 m	South East
6628-16865	147124			Investigation	1994-10-20	4.50		15.68					2.20	2.20	13.48	1802 m	South East
6628-21384	197673	BH 21	Backfilled			4.50		15.70								1802 m	South East
6628-8099	55068					9.14		15.45	6.50	9170	15767		4.57	4.57	10.88	1804 m	East
6628-21377	197666	BH 14	Backfilled			4.50		15.77								1805 m	South East
6628-21378	197667	BH 15	Backfilled			4.50		15.77								1805 m	South East
6628-21381	197670	BH 18	Backfilled			4.50		15.71								1805 m	South East
6628-21376	197665	BH 13	Backfilled			4.50		15.78								1806 m	South East
6628-16554	138743			Domestic	1994-01-28	10.00		6.95	7.10	1061	1920					1808 m	North
6628-21387	197676	BH 26	Backfilled			4.50		15.92								1808 m	South East
6628-23017	232425				2007-03-22	34.00		16.67		908	1645	0.3000	15.00	15.00	1.67	1811 m	East
6628-8071	55040					7.00		12.63	6.70	3315	5911		2.70	2.70	9.93	1811 m	South
6628-17388	152773	BH27		Observation	1995-08-04	4.61		15.94	7.30	3150	5620		2.01	2.01	13.93	1812 m	South East
6628-17387	152772	BH26		Observation	1995-08-04	4.50		15.91	7.55	2909	5200		2.36	2.36	13.55	1816 m	South East
6628-17390	152775	BH29		Observation	1995-08-04	4.53		15.98	7.50	2716	4860		1.98	1.98	14.00	1816 m	South East
6628-14536	61505	GH 24	Abandoned	Investigation	1981-12-11	7.50	17.00									1817 m	East
6628-17389	152774	BH28		Observation	1995-08-04	4.58		15.98	7.67	2978	5320		2.09	2.09	13.89	1820 m	South East
6628-21386	197675	BH 25	Backfilled			4.50		15.92								1820 m	South East
6628-8066	55035					4.88		12.32		2685	4807		3.66	3.66	8.66	1820 m	South
6628-7872	54841					5.18		8.48		2545	4563		3.81	3.81	4.67	1821 m	South
6628-8087	55056					12.19		14.66		2730	4888					1822 m	South East
6628-8068	55037				1951-01-01	23.77	13.00			1530	2761	1.8900	3.20	3.20	9.80	1824 m	South East
6628-15955	62924		Backfilled		1992-02-06	18.00		10.23	7.30	1144	2071	0.4000	6.00	6.00	4.23	1826 m	North East
6628-15956	62925		Backfilled		1992-03-09	12.00		10.23	8.20	1144	2071	0.2000	9.00	9.00	1.23	1826 m	North East
6628-16869	147128			Investigation	1994-10-20	4.50		15.89					2.20	2.20	13.69	1828 m	South East
6628-17386	152771	BH25		Observation	1995-08-04	4.00		15.93	7.58	1821	3280		2.21	2.21	13.72	1828 m	South East
6628-16870	147129			Investigation	1994-10-24	4.50		15.88					2.20	2.20	13.68	1831 m	South East

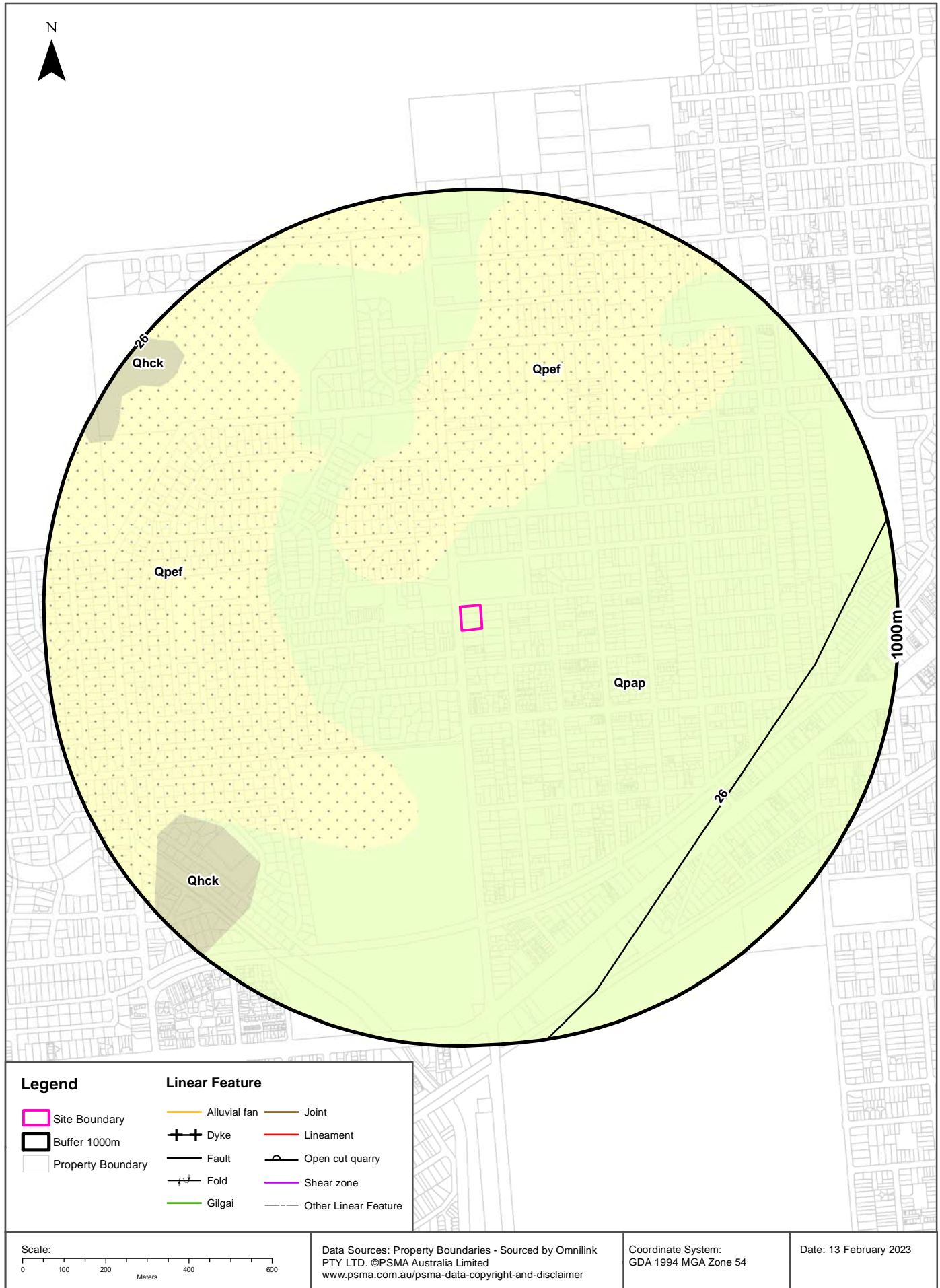
Unit No	Drillhole No	Name	Status	Purpose	Drill Date	Max Depth	Ref Elev	Ground Elev	PH	TDS	EC	Yield	DTW	SWL	RSWL	Dist	Dir
6628-12930	59899				1984-01-01	9.00		16.30	7.40	3840	6820					1834 m	East
6628-7876	54845					9.14		15.29	6.10	670	1216		1.83	1.83	13.46	1841 m	South East
6628-8105	55074	EWS 72	Rehabilitated	Observation		76.20	14.99	15.43	8.50	936	1697	10.1000	2.31	2.75	12.68	1841 m	South East
6628-8075	55044			Observation	1977-03-02	8.53	9.78	9.78	7.80	1597	2880	0.0000	2.89	2.89	6.89	1844 m	North East
6628-14507	61476		Operational	Domestic	1989-07-01	7.50		6.86	6.70	2574	4611	1.2000	2.80	2.80	4.06	1848 m	South West
6628-8104	55073	EWS 25			1945-11-13	77.42		15.35		1000	1811	10.1000	7.92	7.92	7.43	1848 m	South East
6628-7845	54814	EWS 49	Unknown		1949-12-15	160.02	2.00			1056	1913	6.3200	0.00	0.00	2.00	1849 m	West
6628-8048	55017				1946-03-30	140.51		6.80		843	1529	8.2100	7.92	7.92	-1.12	1851 m	North
6628-8102	55071	VERMONT GIRLS HIGH	Decommissioned	Irrigation	1968-10-24	83.51		16.95	7.70	1049	1900	7.4000	0.00	0.00	16.95	1854 m	East
6628-23576	239076				2008-06-05	12.00		5.73		1252	2263	0.6300	3.30	3.30	2.43	1858 m	South West
6628-7932	54901					18.29		12.67		3460	6164		6.10	6.10	6.57	1862 m	South
6628-18773	167554			Domestic	1997-11-15	30.00		16.21		5880	10300	0.5000	9.00	9.00	7.21	1870 m	East
6628-14045	61014				1987-10-03	9.00		6.32	7.80	991	1794	1.2000	2.70	2.70	3.62	1871 m	North
6628-7859	54828					4.57		3.95		4298	7612					1875 m	West
6628-13726	60695				1986-07-24	20.00		11.47				0.7500	4.00	4.00	7.47	1877 m	North East
6628-7863	54832				1934-01-01	3.05		4.29		2287	4105					1878 m	South West
6628-17192	150021	AIRPORT RUNWAY EXTENSION 4	Unknown		1994-05-03	5.40		3.96								1884 m	North West
6628-16387	134457	MW 3		Investigation	1992-11-04	6.00		4.07					1.95	1.95	2.12	1899 m	West
6628-16388	134458	MW 2		Investigation	1992-11-04	7.00		4.07					2.27	2.27	1.80	1899 m	West
6628-16389	134459	MW 1		Investigation	1992-11-04	6.00		4.07					2.21	2.21	1.86	1899 m	West
6628-17880	156452			Domestic	1996-04-14	9.00		10.10					5.00	5.00	5.10	1899 m	North East
6628-21113	195567			Drainage	2002-11-23	9.00		6.98		2210	3970	1.7500	4.00	4.00	2.98	1909 m	South West
6628-28797	293965	GW 161		Investigation	2016-07-28	4.00							1.80	1.80		1909 m	North
6628-7837	54806				1948-01-01	10.67	4.00			2127	3823	1.8900	2.74	2.74	1.26	1911 m	North
6628-19060	169626			Monitoring	1998-06-12	6.00		4.03				0.2000	2.50	2.50	1.53	1912 m	South West
6628-20470	184052	BH 18						4.00	7.30	2391	4290					1913 m	South West
6628-17163	149666		Not In Use	Domestic	1995-02-23	23.70		16.01	7.18	2205	3960		5.70	5.70	10.31	1916 m	South East
6628-22618	218965	GMW 1		Investigation	2006-08-28	6.00		4.96					1.12	1.12	3.84	1918 m	North
6628-13868	60837				1986-12-08	8.00		7.44	7.40	1362	2460	0.1000	4.00	4.00	3.44	1922 m	North
6628-19059	169625			Monitoring	1998-06-12	6.00		3.93				0.2000	2.50	2.50	1.43	1924 m	South West
6628-16616	141364			Domestic	1994-04-12	20.00		12.59	7.00	1945	3500		4.60	4.60	7.99	1925 m	North East
6628-7915	54884					85.34		12.34		2170	3901		0.91	0.91	11.43	1939 m	South
6628-20471	184053	BH 19						3.94	7.50	2025	3640					1940 m	South West

Unit No	Drillhole No	Name	Status	Purpose	Drill Date	Max Depth	Ref Elev	Ground Elev	PH	TDS	EC	Yield	DTW	SWL	RSWL	Dist	Dir
6628-19061	169627			Monitoring	1998-06-12	6.00		3.98				0.2000	2.40	2.40	1.58	1943 m	South West
6628-28403	289389	GW2 PFC		Investigation	2016-05-19	3.50										1944 m	North West
6628-19058	169624			Monitoring	1998-06-12	6.00		3.85				0.2000	2.40	2.40	1.45	1948 m	South West
6628-8091	55060					11.43		14.24		3945	7004		2.36	2.36	11.88	1948 m	South East
6628-8097	55066				1934-08-28	54.86		13.51		1070	1938	10.1000	3.66	3.66	9.85	1948 m	North East
6628-7916	54885				1972-01-01	79.24		12.18	6.50	2909	5200	7.5800	10.24	10.24	1.94	1953 m	South
6628-7865	54834					48.62		4.43		685	1244	3.7900				1955 m	South West
6628-7838	54807					12.80	5.00			1199	2171	7.5800	1.83	1.83	3.17	1958 m	North
6628-13180	60149		Operational	Domestic	1985-01-01	6.09		16.66	7.30	1748	3150		1.95	1.95	14.71	1959 m	South East
6628-18141	162821		Operational	Domestic	1997-01-06	9.60		8.38				0.1330	5.60	5.60	2.78	1965 m	North East
6628-12960	59929		Operational	Domestic	1984-03-04	6.00		15.81	7.29	1925	3350		3.00	3.00	12.81	1966 m	South East
6628-7839	54808		Operational	Managed aquifer recharge monitoring	1933-01-01	90.53		5.19	6.70	1212	2194		0.00	0.00	5.19	1967 m	North
6628-17191	150020	AIRPORT RUNWAY EXTENSION 3	Unknown		1994-04-28	12.00		3.92								1969 m	North West
6628-17548	153507			Drainage	1995-10-04	24.00		17.57	7.30	4771	8420	0.5000				1969 m	East
6628-19062	169628			Monitoring	1998-06-12	6.00		3.92				0.2000	2.50	2.50	1.42	1969 m	South West
6628-13068	60037		Operational	Drainage	1984-10-16	12.00		10.03	7.30	424	770		6.00	6.00	4.03	1973 m	South
6628-15803	62772		Operational	Domestic	1991-12-10	14.00		10.26	7.50	821	1489		7.50	7.50	2.76	1975 m	North East
6628-17088	148597			Domestic	1995-01-27	18.00		17.33	6.70	11074	18800	0.2500				1975 m	East
6628-12829	59798		Operational	Domestic	1984-03-02	18.00		11.82	7.40	1373	2480	0.4000				1976 m	North East
6628-31144	354313	MW2		Monitoring	2020-03-02	6.00										1978 m	North
6628-16828	146789			Domestic	1994-11-04	12.00		9.88	7.70	2364	4240		6.00	6.00	3.88	1983 m	North East
6628-19576	175927			Monitoring	1999-06-02	5.00		3.89		755	1370		2.13	2.13	1.76	1984 m	South West
6628-31143	354312	MW1		Monitoring	2020-03-02	6.00										1986 m	North
6628-22890	230025		Backfilled			4.00		12.60								1989 m	South
6628-22891	230026		Backfilled			4.00		12.59								1989 m	South
6628-17186	149791			Domestic	1995-03-20	16.50		6.67	7.10	1850	3330					1991 m	North
6628-22889	230024		Backfilled			4.00		12.62								1992 m	South
6628-17360	151237		Abandoned	Domestic	1995-07-19	7.00		4.58	6.50	17296	28400	0.3500				1995 m	West
6628-19334	173833			Domestic	1998-12-08	18.00		13.03		3396	6050	1.0000	6.00	6.00	7.03	1996 m	North East

Drillholes Data Source: Dept of Environment, Water and Natural Resources - South Australia
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Geology 1:100,000

65-69 Morphett Road, Camden Park, SA 5038



Geology

65-69 Morphett Road, Camden Park, SA 5038

Surface Geology 1:100,000

Surface Geology Units within the dataset buffer:

Map Unit Code	Name	Description	Parent Name	Province	Age	Min Age	Max Age	Dist	Dir
Qpap	Pooraka Formation	Clay, sand and carbonate earth, silty, with gravel lenses.	Unnamed GIS Unit - see description	ST VINCENT BASIN	PLEISTOCENE	Pleistocene, Late	Pleistocene, Late	0m	On-site
Qpef	Fulham Sand	Sand, yellow-red, ferruginous, aeolian.	Unnamed GIS Unit - see description	ST VINCENT BASIN	PLEISTOCENE	Pleistocene, Late	Pleistocene, Late	109m	North
Qhck	Saint Kilda Formation	Coastal marine sediment: calcareous, fossiliferous sand and mud of iintertidal sand flats, beaches and tidal marshes; organic, gypseous clay of supratidal flats.	Unnamed GIS Unit - see description	ST VINCENT BASIN	HOLOCENE	Holocene	Holocene	739m	South West

Geology Data Source: Dept of Environment, Water and Natural Resources - South Australia

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Linear Structures 1:100,000

Linear geological structures within the dataset buffer:

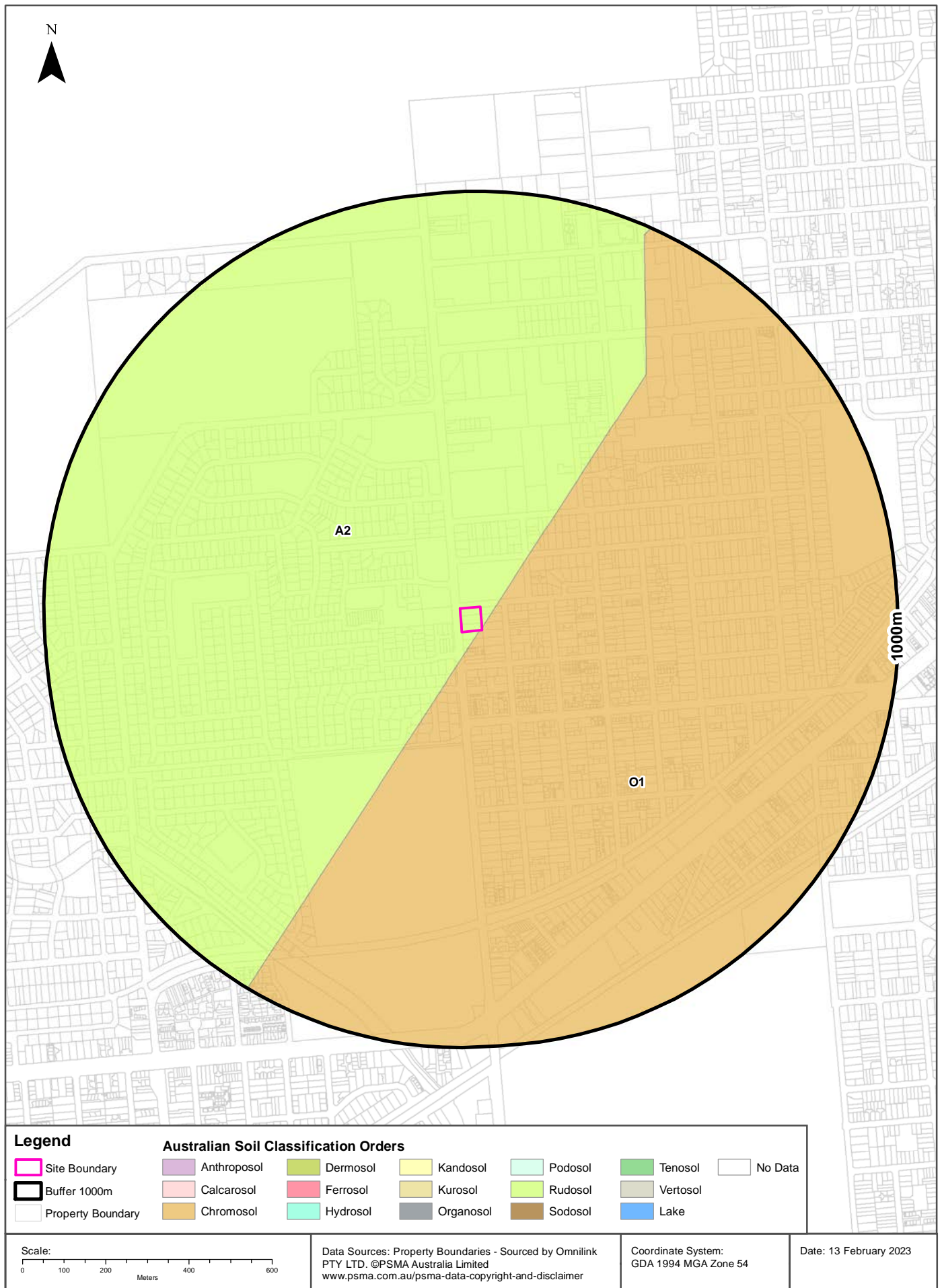
Map Code	Description	Distance	Direction
26	Fault position approximate	712m	South East
26	Fault position approximate	998m	North West

Geology Data Source: Dept of Environment, Water and Natural Resources - South Australia

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Atlas of Australian Soils

65-69 Morphett Road, Camden Park, SA 5038



Soils

65-69 Morphett Road, Camden Park, SA 5038

Atlas of Australian Soils

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

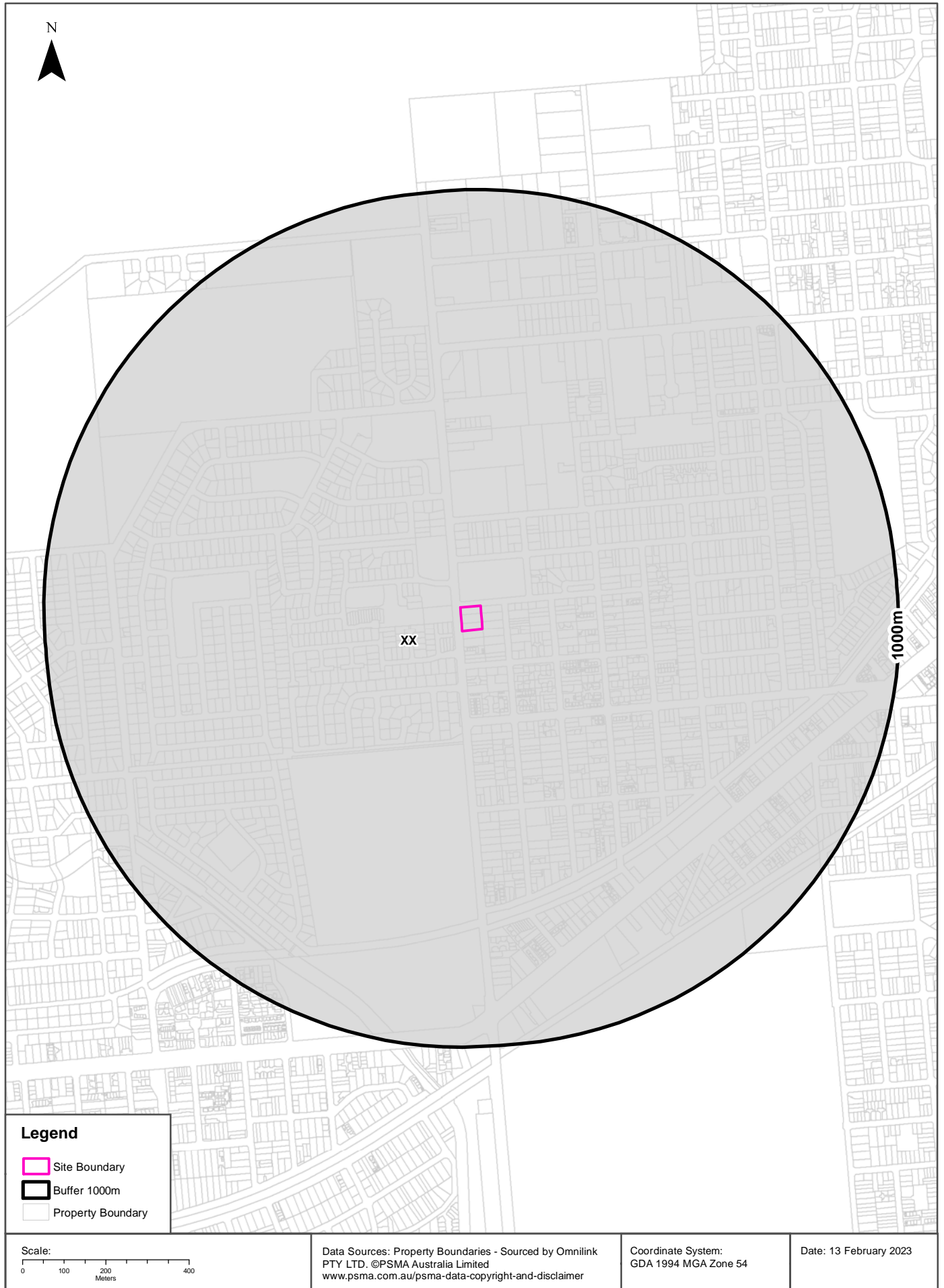
Map Unit Code	Soil Order	Map Unit Description	Distance	Direction
A2	Rudosol	Coastal dunes and plains with some swamps: dunes of calcareous sands (Uc1.11) and also siliceous sands (Uc1.22); plains of various saline soils (unclassified) and lesser areas of brown calcareous earths (Gc1.1 and Gc1.2).	0m	On-site
O1	Chromosol	Outwash plains: hard alkaline red soils (Dr2.23 with small areas Dr2.33); small areas cracking clay soils (Ug5.15, Ug5.16, and Ug5.2), also hard alkaline yellow mottled soils (Dy3.43); minor areas (Um6.21) and (Uf6.11); various alluvial soils (unclassified) in the stream valleys.	0m	On-site

Atlas of Australian Soils Data Source: CSIRO

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Soil Types

65-69 Morphett Road, Camden Park, SA 5038



Soils

65-69 Morphett Road, Camden Park, SA 5038

Soil Types

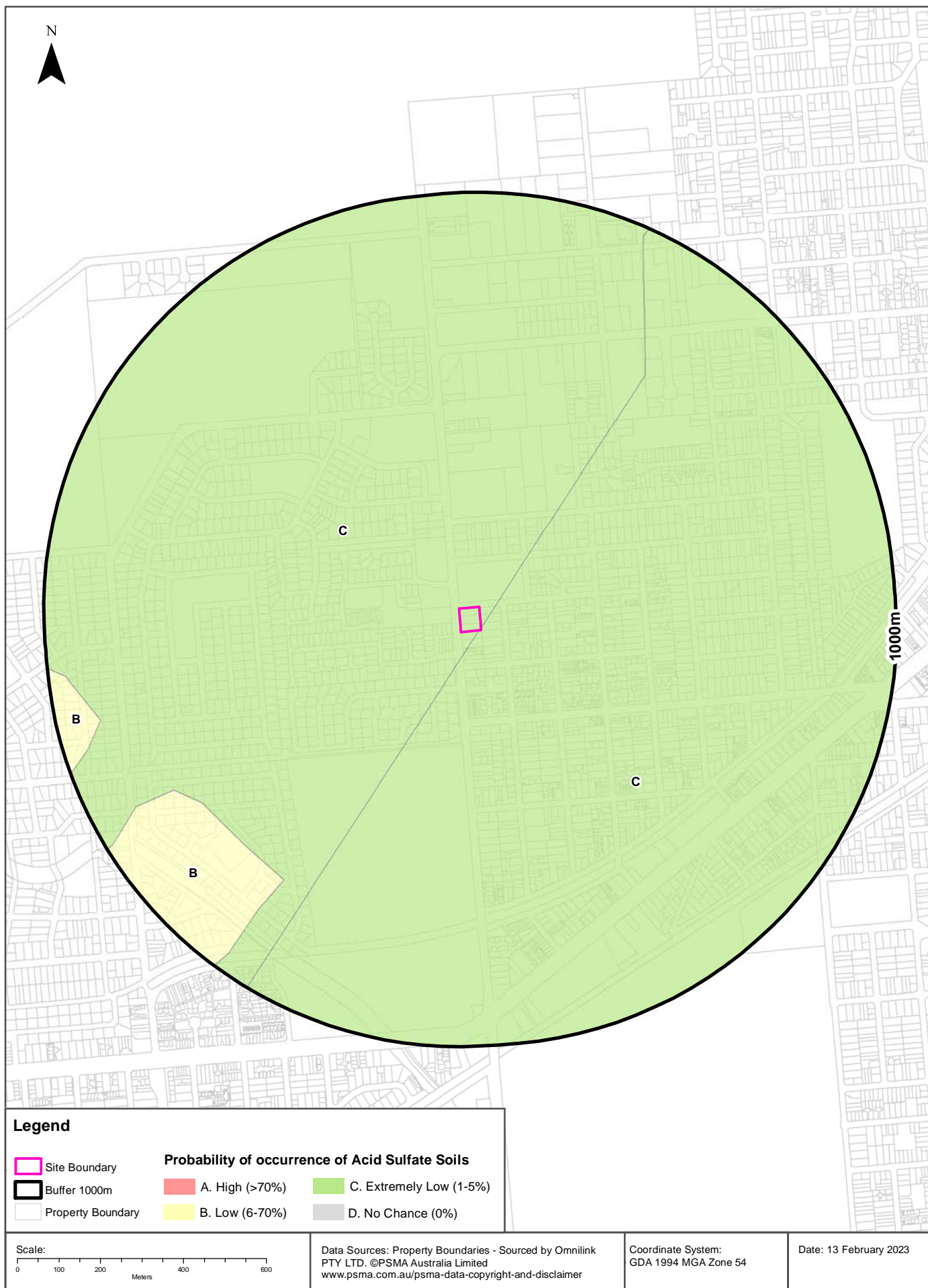
Soil types within the dataset buffer:

Map category code	Soil type description	Distance	Direction
XX	Not applicable - No assessment/analysis undertaken	0m	On-site

Soil Types Data Source: Dept of Environment, Water and Natural Resources - South Australia
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Atlas of Australian Acid Sulfate Soils

65-69 Morphett Road, Camden Park, SA 5038



Acid Sulfate Soils

65-69 Morphett Road, Camden Park, SA 5038

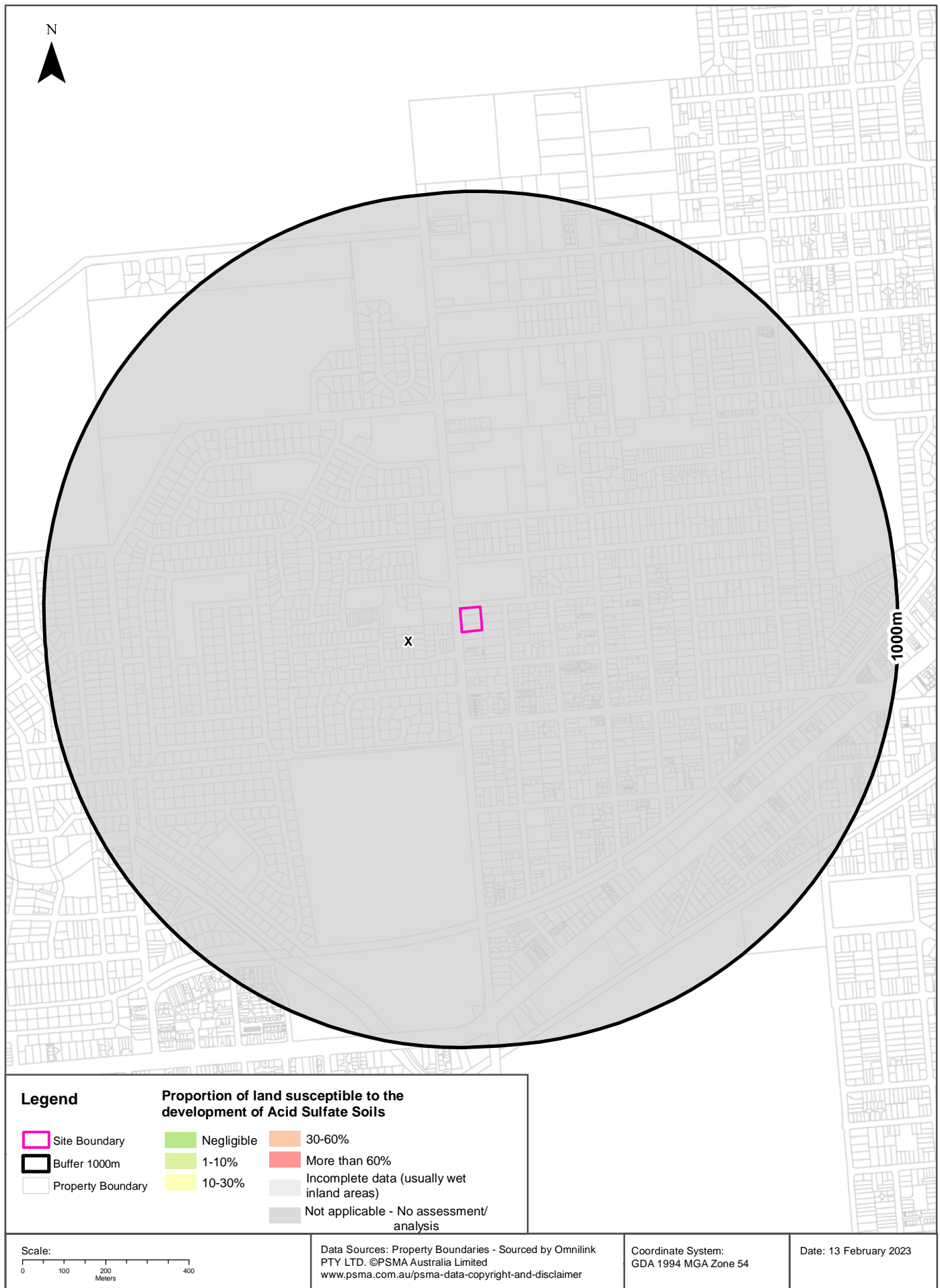
Atlas of Australian Acid Sulfate Soils

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

Class	Description	Distance	Direction
C	Extremely low probability of occurrence. 1-5% chance of occurrence with occurrences in small localised areas.	0m	On-site
B	Low Probability of occurrence. 6-70% chance of occurrence.	731m	South West

Atlas of Australian Acid Sulfate Soils Data Source: CSIRO

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Acid Sulfate Soils

65-69 Morphett Road, Camden Park, SA 5038

Acid Sulfate Soil Potential

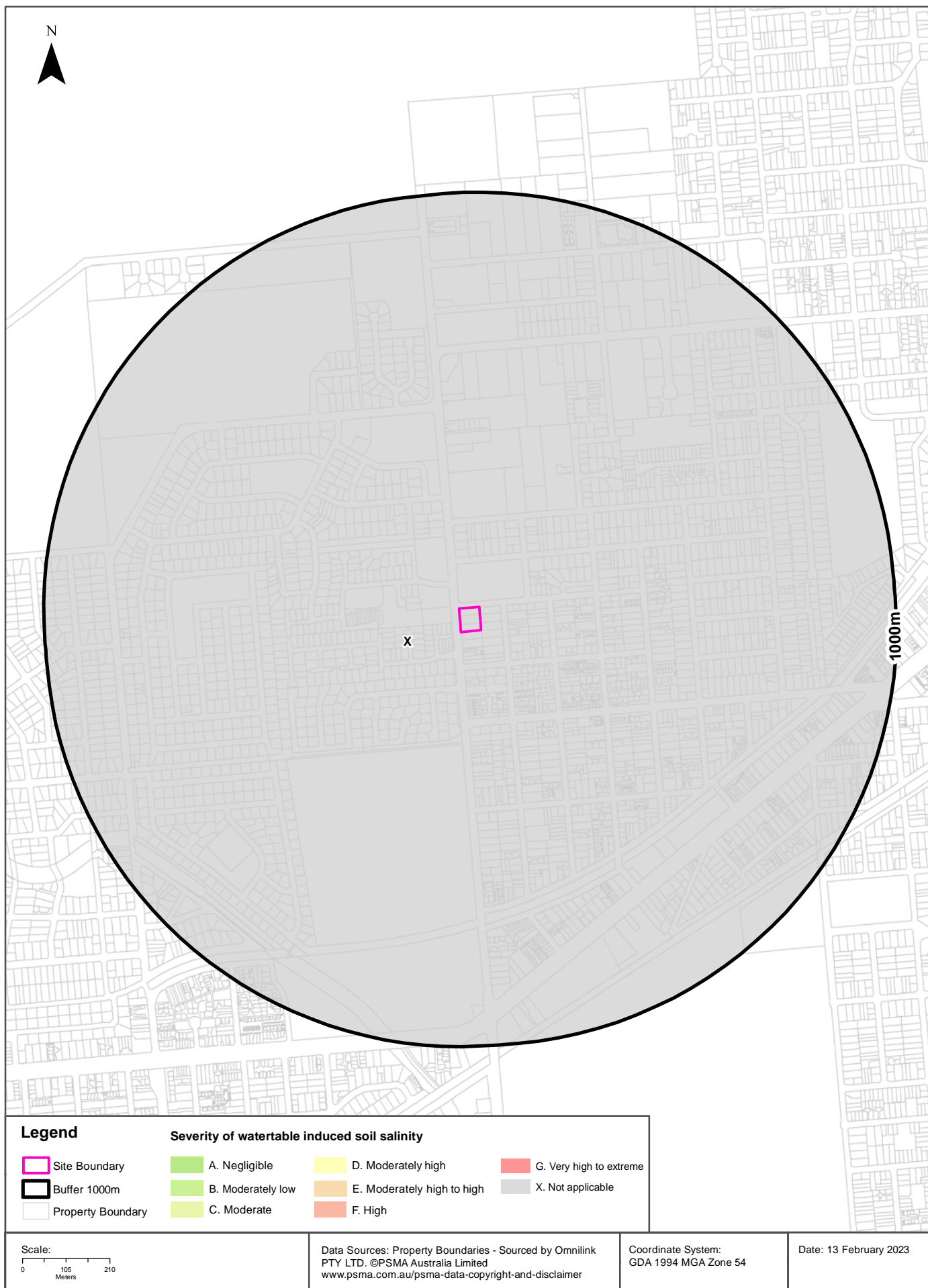
Acid sulfate soil potential within the dataset buffer:

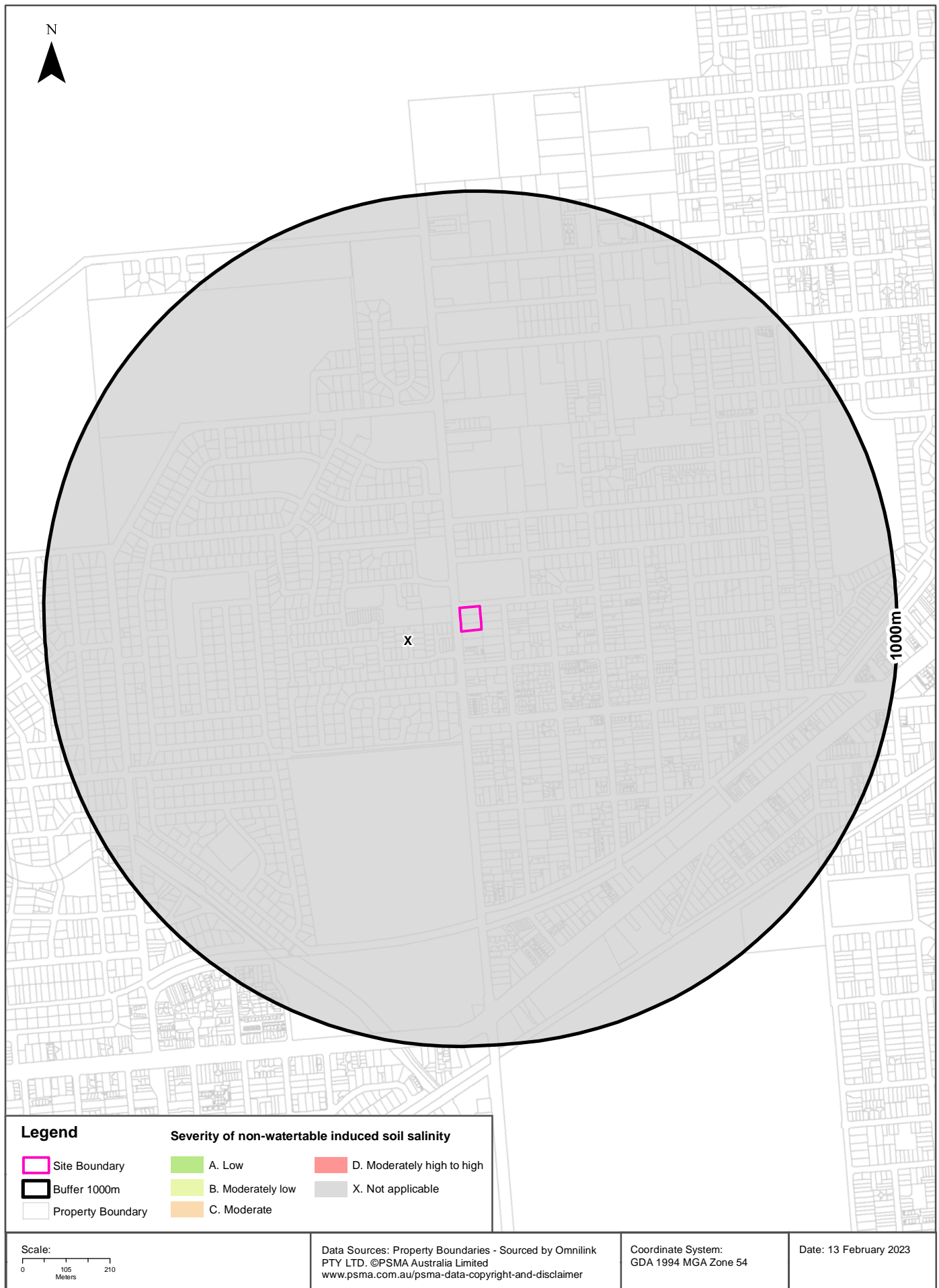
Map category code	Proportion of land susceptible to the development of acid sulfate soils	Distance	Direction
X	Not applicable - No assessment/analysis undertaken	0m	On-site

Acid Sulfate Soils Data Source: Dept of Environment, Water and Natural Resources - South Australia
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Soil Salinity - Watertable Induced

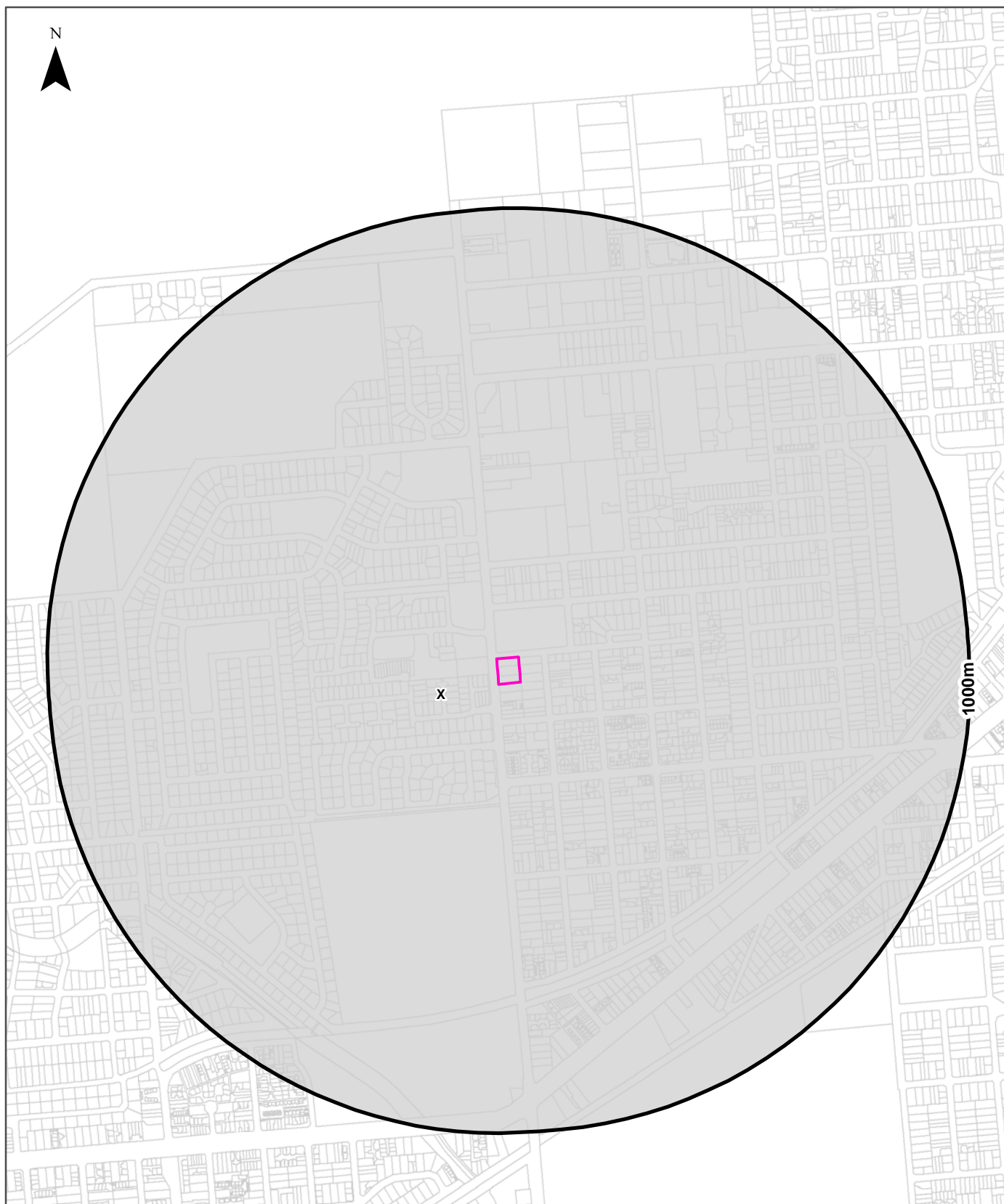
65-69 Morphett Road, Camden Park, SA 5038





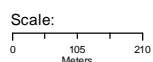
Soil Salinity - Non-watertable (Magnesia Patches)

65-69 Morphett Road, Camden Park, SA 5038



Legend

- | | | | |
|-------------------|--|-----------|-------------------|
| Site Boundary | Proportion of land affected by magnesia patches | | |
| Buffer 1000m | A. Negligible | C. 2-10% | E. More than 50% |
| Property Boundary | B. Up to 2% | D. 10-50% | X. Not applicable |



Data Sources: Property Boundaries - Sourced by Omnilink PTY LTD. ©PSMA Australia Limited
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Coordinate System:
GDA 1994 MGA Zone 54

Date: 13 February 2023

Soil Salinity

65-69 Morphett Road, Camden Park, SA 5038

Soil Salinity - Watertable Induced

Watertable induced soil salinity within the dataset buffer:

Map category code	Severity description	Distance	Direction
X	Not applicable - No assessment/analysis undertaken	0m	On-site

Salinity Watertable Induced Data Source: Dept of Environment, Water and Natural Resources - South Australia
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Soil Salinity - Non-Watertable

Non-watertable soil salinity within the dataset buffer:

Map category code	Severity description	Surface ECe (dS/m)	Subsoil ECe (dS/m)	Distance	Direction
X	Not applicable - No assessment/analysis undertaken			0m	On-site

Salinity Non-Watertable Data Source: Dept of Environment, Water and Natural Resources - South Australia
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Soil Salinity - Non-Watertable (Magnesia Patches)

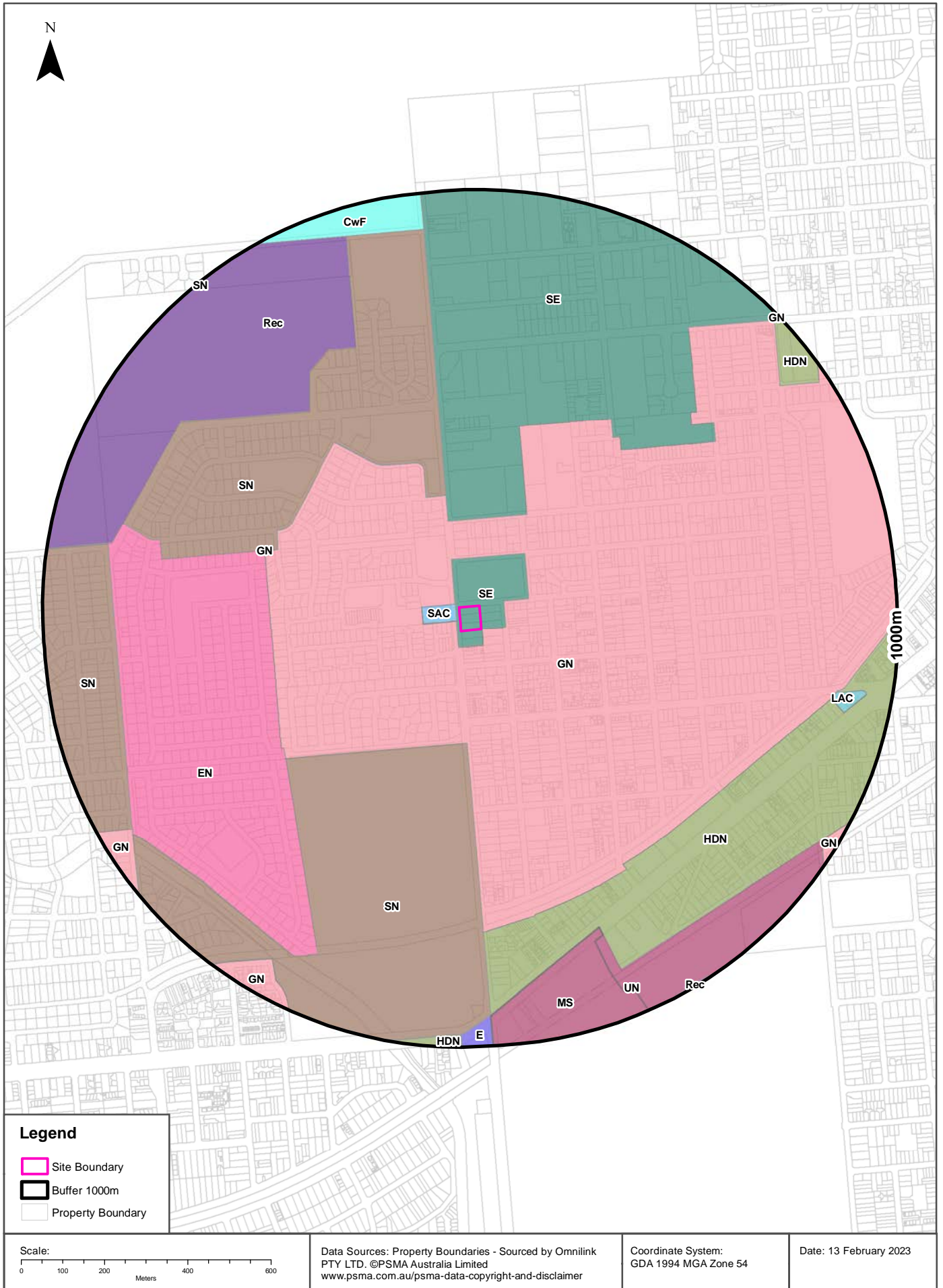
Magnesia patches within the dataset buffer:

Map category code	Proportion of land affected by magnesia patches	Distance	Direction
X	Not applicable - No assessment/analysis undertaken	0m	On-site

Salinity Non-Watertable (Magnesia Patches) Data Source: Dept of Environment, Water and Natural Resources - South Australia
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Planning and Design Code Zones

65-69 Morphett Road, Camden Park, SA 5038



Planning

65-69 Morphett Road, Camden Park, SA 5038

Planning and Design Code - Zones

Planning and Design Code zones within the dataset buffer:

Map Id	Zone Code	Zone Name	Legal Start Date	Status	Distance	Direction
SE	Z5720	Strategic Employment	19/03/2021	0	0m	On-site
GN	Z2102	General Neighbourhood	19/03/2021	0	0m	East
SAC	Z5705	Suburban Activity Centre	19/03/2021	0	9m	West
SE	Z5720	Strategic Employment	16/12/2021	0	211m	North
SN	Z5707	Suburban Neighbourhood	19/03/2021	0	270m	South
SN	Z5707	Suburban Neighbourhood	19/03/2021	0	274m	North West
EN	Z1506	Established Neighbourhood	19/03/2021	0	453m	South West
GN	Z2102	General Neighbourhood	19/03/2021	0	486m	West
Rec	Z5401	Recreation	19/03/2021	0	593m	North West
HDN	Z2404	Housing Diversity Neighbourhood	19/03/2021	0	658m	South East
UN	Z6306	Urban Neighbourhood	19/03/2021	0	767m	South East
SN	Z5707	Suburban Neighbourhood	19/03/2021	0	828m	West
LAC	Z3603	Local Activity Centre	19/03/2021	0	855m	East
HDN	Z2404	Housing Diversity Neighbourhood	16/12/2021	0	894m	North East
GN	Z2102	General Neighbourhood	19/03/2021	0	909m	South West
CwF	Z0913	Commonwealth Facilities	19/03/2021	0	910m	North
E	Z1501	Employment	19/03/2021	0	925m	South
GN	Z2102	General Neighbourhood	19/03/2021	0	960m	South East
HDN	Z2404	Housing Diversity Neighbourhood	19/03/2021	0	969m	South
SN	Z5707	Suburban Neighbourhood	19/03/2021	0	981m	North West
Rec	Z5401	Recreation	19/03/2021	0	993m	South East

Planning and Design Code Zones Data Source: Attorney-General's Department - South Australia
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Planning and Design Code - Subzones

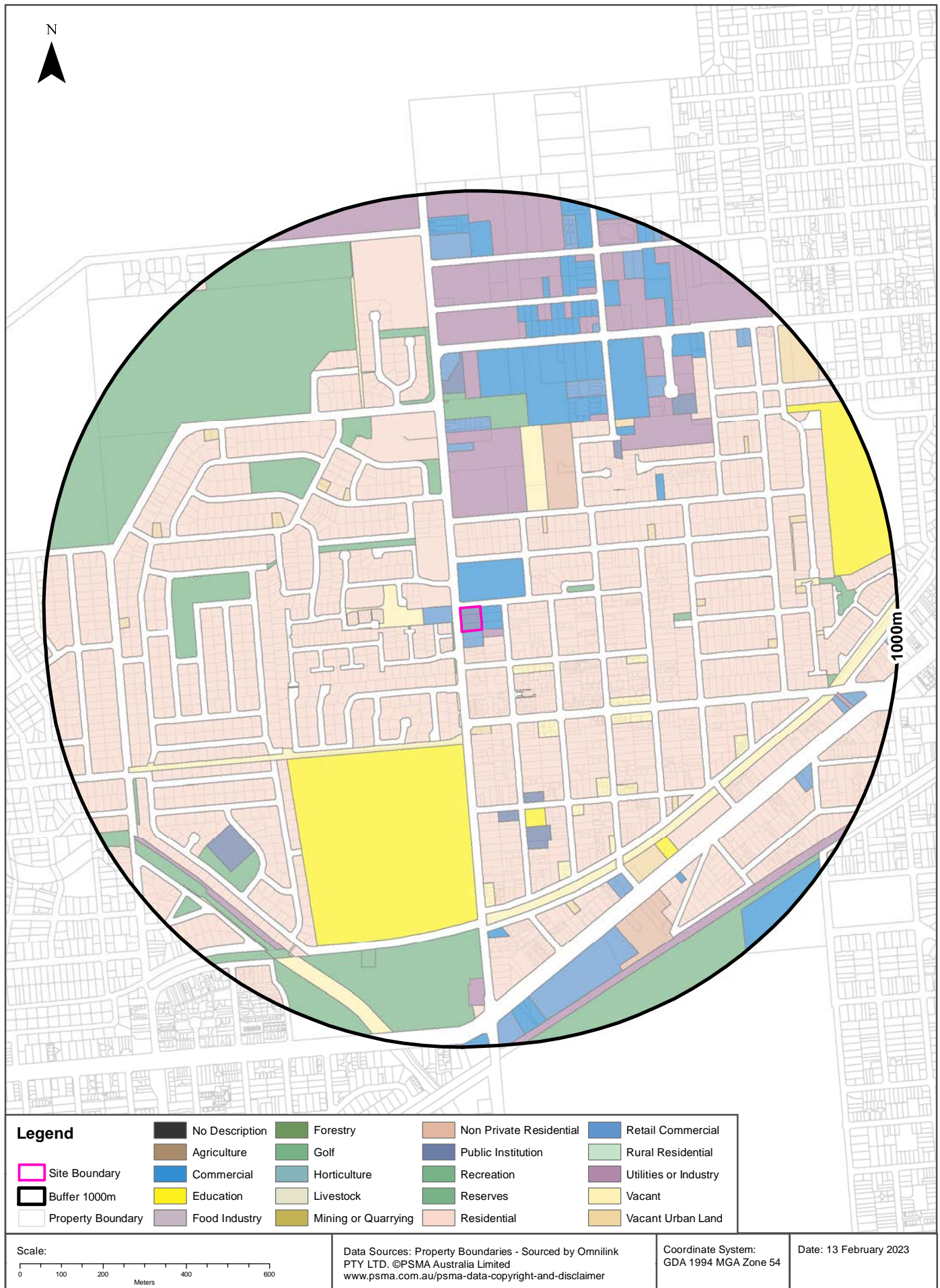
Planning and Design Code subzones within the dataset buffer:

Map Id	Subzone Code	Subzone Name	Legal Start Date	Status	Distance	Direction
MS	S3901	Main Street	19/03/2021	0	769m	South

Planning and Design Code Subzones Data Source: Attorney-General's Department - South Australia
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Land Use Generalised

65-69 Morphett Road, Camden Park, SA 5038



Planning

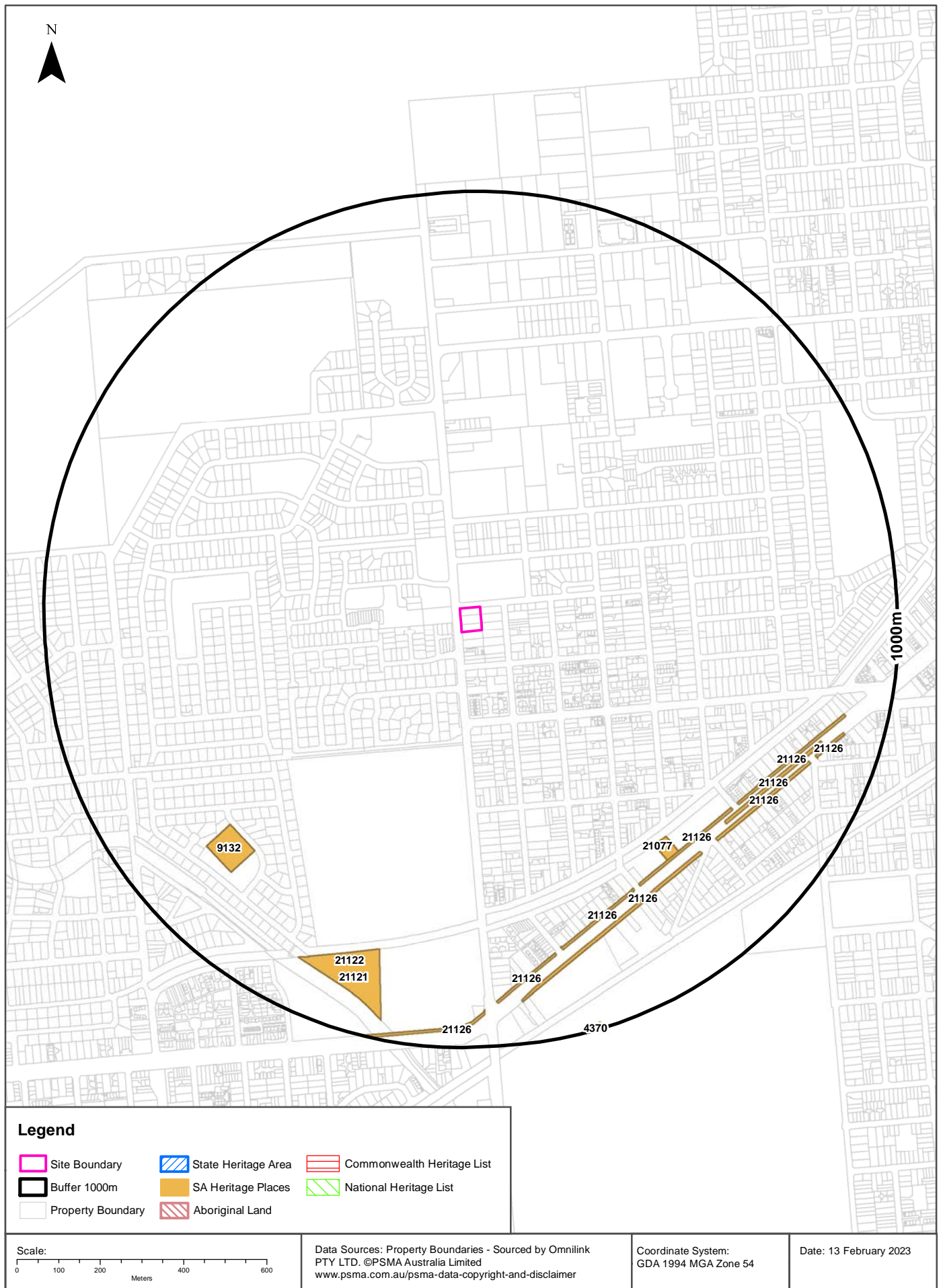
65-69 Morphett Road, Camden Park, SA 5038

Land Use Generalised

Land use classes within the dataset buffer:

Description	Distance	Direction
Public Institution	0m	On-site
Commercial	0m	East
Retail Commercial	0m	South
Utilities or Industry	0m	South East
Reserves	20m	South West
Residential	20m	South East
Vacant	91m	West
Recreation	211m	East
Vacant Urban Land	230m	South
Education	272m	South
Non Private Residential	284m	North East
Golf	593m	North West

Land Use Generalised Data Source: Dept of Planning, Transport and Infrastructure - South Australia
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Heritage

65-69 Morphett Road, Camden Park, SA 5038

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 Areas

State Heritage Areas within the dataset buffer:

Heritage Id	Name	Distance	Direction
N/A	No records in buffer		

Heritage Areas Data Source: Dept of Environment, Water and Natural Resources - South Australia
Creative Commons 3.0 © Commonwealth of Australia <http://creativecommons.org/licenses/by/3.0/au/deed.en>

SA Heritage Places

SA Heritage Places within the dataset buffer:

Heritage No	Location	Heritage Class	Australian Class	Details	Auth Date	Distance	Direction
21077	407 Anzac Highway CAMDEN PARK	Local	House	House & Coach House	2/10/2008	661m	South East
21126	Anzac Highway road reserve, VARIOUS SUBURBS	Local	Street Furniture	Avenue of Claret Ash Trees (<i>Fraxinus raywoodii</i>)	2/10/2008	710m	South East
9132	19-23 Sheoak Avenue NOVAR GARDENS	State	House	Cummins House [includes Morphett Family Furniture Collection - Objects of heritage significance]		724m	South West
21121	457-489 Anzac Highway NOVAR GARDENS	Local	Street Furniture	Avenue of River Red Gums (<i>Eucalyptus camaldulensis</i>)	2/10/2008	788m	South
21122	457-489 Anzac Highway NOVAR GARDENS	Local	Olive Plantation	Olive Grove (<i>Olea europaea</i>)	2/10/2008	788m	South
4370	79 Morphett Road MORPHETTVILLE	State	Stadium - Grandstand	Old (1913) Grandstand, Morphettville Racecourse		983m	South

Heritage Places Data Source: Dept of Environment, Water and Natural Resources - South Australia
Creative Commons 3.0 © Commonwealth of Australia <http://creativecommons.org/licenses/by/3.0/au/deed.en>

Aboriginal Land

Aboriginal Land within the dataset buffer:

Map Id	Grant Date	Address	Locality	Description	Title	Distance	Direction
N/A	No records in buffer						

Aboriginal Land Data Source: Department of State Development, Resources and Energy - South Australia

Natural Hazards

65-69 Morphett Road, Camden Park, SA 5038

Bushfire Overlays

Bushfire Overlays from the Planning and Design Code within the dataset buffer:

Overlay Id	Name	Description	Legal Start Date	Legal End Date	Distance	Direction
N/A	No records in buffer					

Bushfire Overlays Data Source: Attorney-General's Department - South Australia
Creative Commons 4.0 © Commonwealth of Australia <http://creativecommons.org/licenses/by/4.0/au/deed.en>

Bushfires and Prescribed Burns History

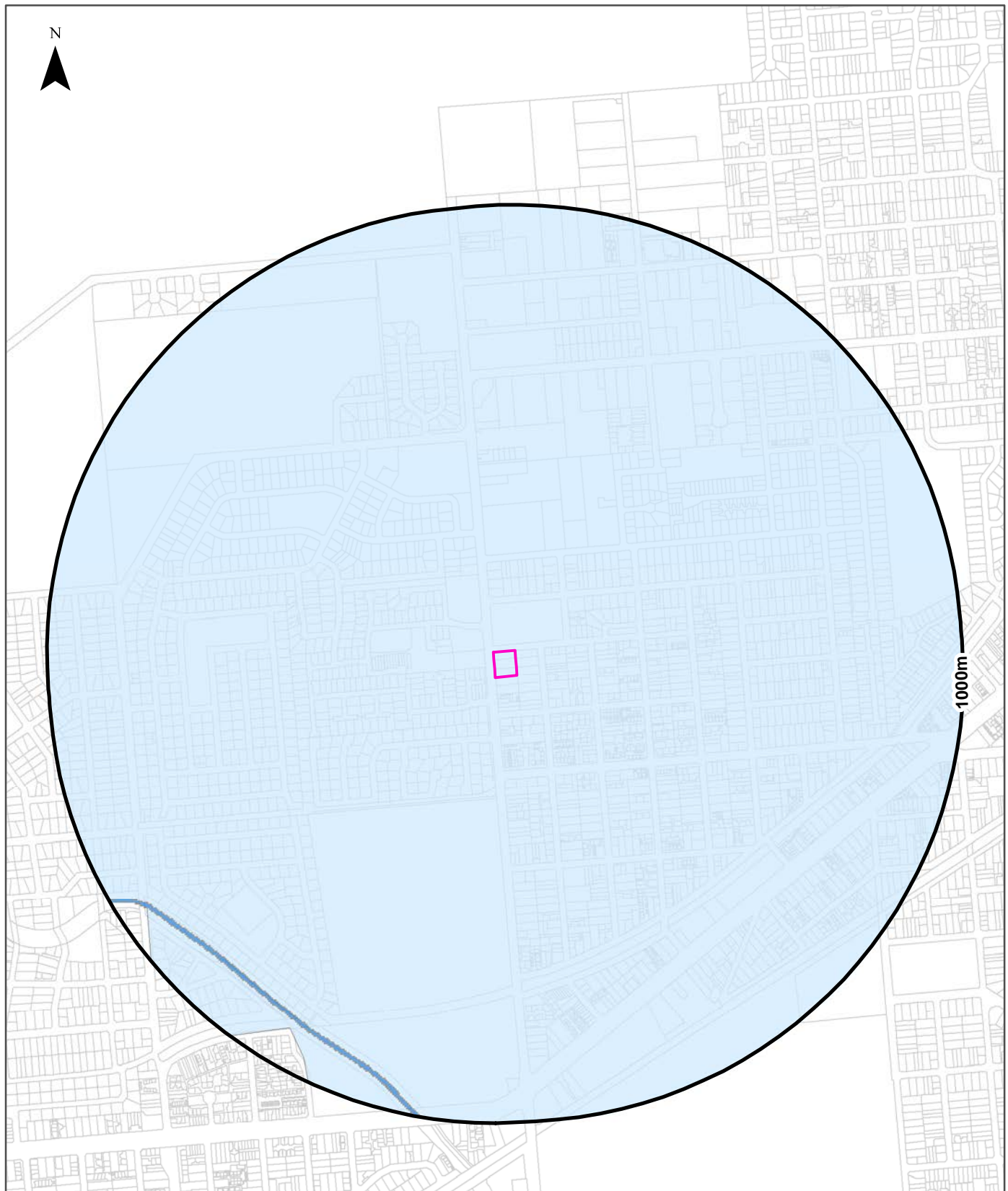
Bushfires and prescribed burns within the dataset buffer:

Map Id	Incident No.	Incident Name	Incident Type	Date of Fire	Area of Fire (ha)	Distance	Direction
N/A	No records in buffer						

Bushfires and Prescribed Burns History Data Source: Dept of Environment, Water and Natural Resources - South Australia
Creative Commons 3.0 © Commonwealth of Australia <http://creativecommons.org/licenses/by/3.0/au/deed.en>

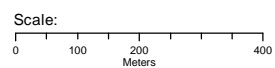
Natural Hazards - Flood

65-69 Morphett Road, Camden Park, SA 5038



Legend

- | | | |
|-------------------|------------------------------|-------------------------------------|
| Site Boundary | Flooding | Coastal Flooding |
| Buffer 1000m | Flooding - General | River Murray Flood Plain Protection |
| Property Boundary | Flooding - Evidence Required | |



Data Sources: Property Boundaries - Sourced by Omnilink PTY LTD. ©PSMA Australia Limited
www.psm.com.au/psma-data-copyright-and-disclaimer

Coordinate System:
GDA 1994 MGA Zone 54

Date: 13 February 2023

Natural Hazards

65-69 Morphett Road, Camden Park, SA 5038

Flooding Overlays

Flooding Overlays from the Planning and Design Code within the dataset buffer:

Overlay Id	Name	Description	Legal Start	Legal End	Distance	Direction
O2416	Hazards (Flooding - Evidence Required)	The Hazards (Flooding - Evidence Required) Overlay adopts a precautionary approach to mitigate potential impacts of potential flood risk through appropriate siting and design of development.	10/11/2022		0m	On-site
O2414	Hazards (Flooding - General)	The Hazards (Flooding - General) Overlay seeks to minimise impacts of general flood risk through appropriate siting and design of development.	10/11/2022		869m	South West
O2403	Hazards (Flooding)	The Hazards (Flooding) Overlay seeks to minimise flood hazard risk to people, property, infrastructure and the environment.	10/11/2022		871m	South West

Flooding Overlays Data Source: Attorney-General's Department - South Australia
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Ecological Constraints

65-69 Morphett Road, Camden Park, SA 5038

Groundwater Dependent Ecosystems Atlas

Type	Name	GDE Potential	Geomorphology	Ecosystem Type	Aquifer Geology	Distance	Direction
N/A	No records in buffer						

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

65-69 Morphett Road, Camden Park, SA 5038

Inflow Dependent Ecosystems Likelihood

Type	Name	IDE Likelihood	Geomorphology	Ecosystem Type	Aquifer Geology	Distance	Direction
N/A	No records in buffer						

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

65-69 Morphett Road, Camden Park, SA 5038

Ramsar Wetlands

What Ramsar wetland areas exist within the dataset buffer?

Wetland	Distance	Direction
No records in buffer		

Ramsar Wetlands Data Source: Dept of Environment, Water and Natural Resources - South Australia
Creative Commons 3.0 © Commonwealth of Australia <http://creativecommons.org/licenses/by/3.0/au/deed.en>

Location Confidences

Where Lotsearch has had to georeference features from supplied addresses, a location confidence has been assigned to the data record. This indicates a confidence to the positional accuracy of the feature. Where applicable, a code is given under the field heading “LC” or “LocConf”. These codes lookup to the following location confidences:

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

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Appendix C

**Certificates of Title and SAPPA
Information**

SAPPA Parcel Report

Date Created: February 9, 2023

The South Australian Property and Planning Atlas is available at the Plan SA website <https://sappa.plan.sa.gov.au/>



Address Details

Scale \approx 1:1128 (on A4 page)

Unit Number:

50 metres \approx

Street Number: 65

Street Name: MORPHETT

Street Type: RD

Suburb: CAMDEN PARK

Postcode: 5038

Property Details:

Council: CITY OF WEST TORRENS

State Electorate: ASHFORD (2014), MORPHETT (2018), MORPHETT (2022)

Federal Electorate: HINDMARSH (2013), HINDMARSH (2016), HINDMARSH (2019)

Hundred: ADELAIDE

Valuation Number: 2131585503

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Title Reference: CT5413/751

Plan No. Parcel No.: D2237A6

Zoning details next page



Government of South Australia
Attorney-General's Department

Zone Details

Zones

Strategic Employment (Z5720) - SE

Overlays

Airport Building Heights (Regulated) (O0303) - All structures over 15 metres

The Airport Building Heights (Regulated) Overlay seeks to ensure building height does not pose a hazard to the operation and safety requirements of commercial and military airfields.

Building Near Airfields (O0601)

The Building Near Airfields Overlay seeks to ensure development does not pose a hazard to the operational and safety requirements of commercial and military airfields.

Hazards (Flooding - Evidence Required) (O2416)

The Hazards (Flooding - Evidence Required) Overlay adopts a precautionary approach to mitigate potential impacts of potential flood risk through appropriate siting and design of development.

Prescribed Wells Area (O4804)

The Prescribed Wells Area Overlay seeks to ensure sustainable water use in prescribed wells areas.

Regulated and Significant Tree (O5404)

The Regulated and Significant Tree Overlay seeks to mitigate the loss of regulated trees through appropriate development and redevelopment.

Variations

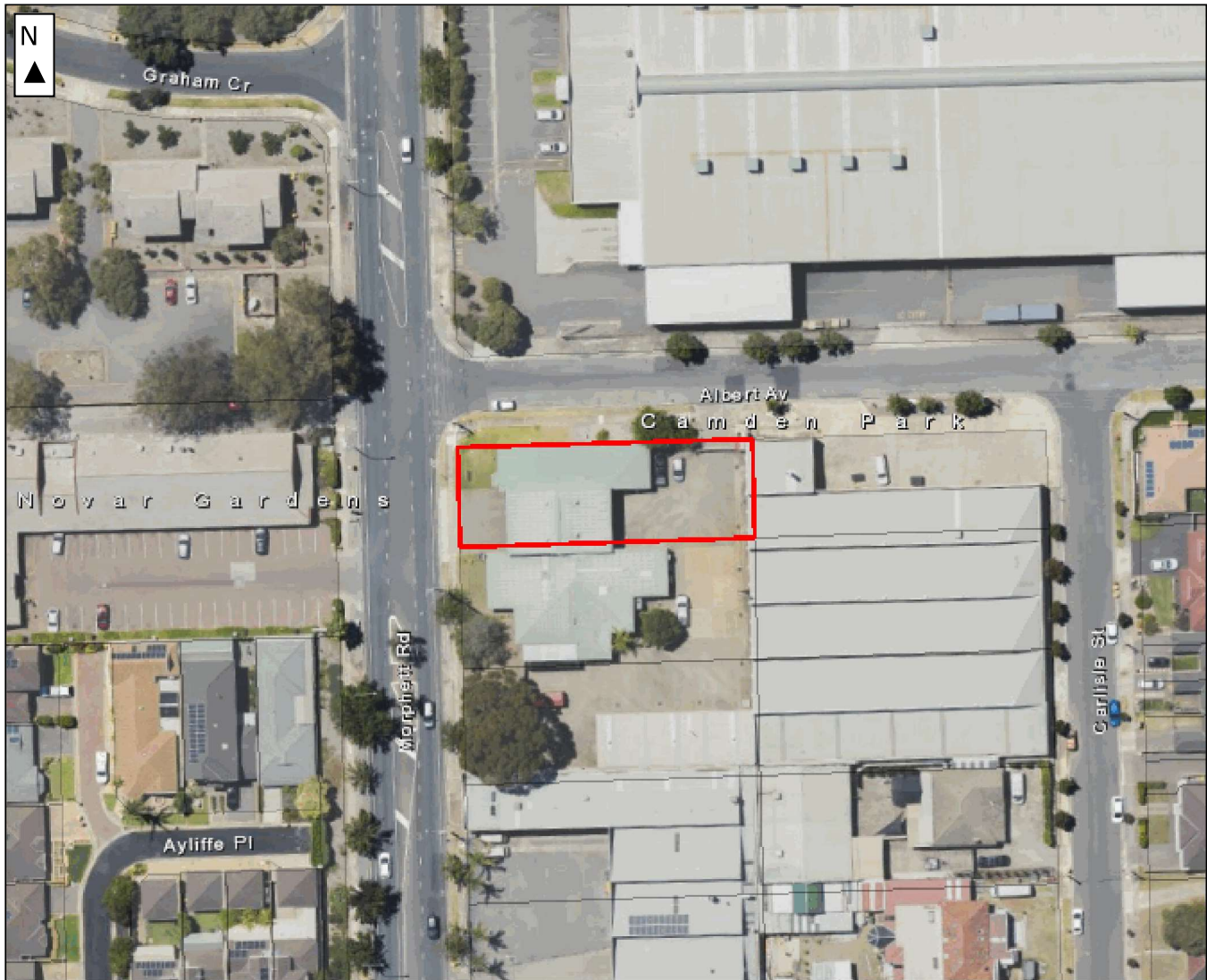
Maximum Building Height (Metres) (V0002) - 12

Maximum building height is 12m

SAPPA Parcel Report

Date Created: February 9, 2023

The South Australian Property and Planning Atlas is available at the Plan SA website <https://sappa.plan.sa.gov.au/>



Address Details

Scale ≈ 1:1128 (on A4 page)

Unit Number:

50 metres≈

Street Number: 65

Street Name: MORPHETT

Street Type: RD

Suburb: CAMDEN PARK

Postcode: 5038

Property Details:

Council: CITY OF WEST TORRENS

State Electorate: ASHFORD (2014), MORPHETT (2018), MORPHETT (2022)

Federal Electorate: HINDMARSH (2013), HINDMARSH (2016), HINDMARSH (2019)

Hundred: ADELAIDE

Valuation Number: 2131585503

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Title Reference: CT5413/751

Plan No. Parcel No.: D2237A8

Zoning details next page



Government of South Australia
Attorney-General's Department

Zone Details

Zones

Strategic Employment (Z5720) - SE

Overlays

Airport Building Heights (Regulated) (O0303) - All structures over 15 metres

The Airport Building Heights (Regulated) Overlay seeks to ensure building height does not pose a hazard to the operation and safety requirements of commercial and military airfields.

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Regulated and Significant Tree (O5404)

The Regulated and Significant Tree Overlay seeks to mitigate the loss of regulated trees through appropriate development and redevelopment.

Variations

Maximum Building Height (Metres) (V0002) - 12

Maximum building height is 12m

SAPPA Parcel Report

Date Created: February 9, 2023

The South Australian Property and Planning Atlas is available at the Plan SA website <https://sappa.plan.sa.gov.au/>



Address Details

Scale \approx 1:1128 (on A4 page)

Unit Number:

50 metres \approx

Street Number: 65

Street Name: MORPHETT

Street Type: RD

Suburb: CAMDEN PARK

Postcode: 5038

Property Details:

Council: CITY OF WEST TORRENS

State Electorate: ASHFORD (2014), MORPHETT (2018),
MORPHETT (2022)

Federal Electorate: HINDMARSH (2013), HINDMARSH (2016),
HINDMARSH (2019)

Hundred: ADELAIDE

Valuation Number: 2131585503

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Title Reference: CT5413/751

Plan No. Parcel No.: D2237A7

Zoning details next page



Government of South Australia
Attorney-General's Department

Zone Details

Zones

Strategic Employment (Z5720) - SE

Overlays

Airport Building Heights (Regulated) (O0303) - All structures over 15 metres

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Variations

Maximum Building Height (Metres) (V0002) - 12

Maximum building height is 12m

Appendix D

Photographic Log

3) Camden Park Fire Station



Photo 19 View of the front entrance facing east from Morphett Rd



Photo 20 Drain on northern boundary of site



Photo 21 Wash down area facing east from rear of MFS building



Photo 22 Wash down area facing south-east from rear of MFS building



Photo 23 Former AFFF pod storage area at western site boundary



Photo 24 Drain in south-west corner of site

Appendix E

**MFS Staff Surveys (AFFF Historical Use
Questionnaires)**

MFS Station – AFFF Historical Use Questionnaire

Please distribute the following questionnaire to nominated MFS personnel who have worked at MFS sites when active use of AFFF (*aqueous film-forming foam, firefighting foam*) occurred before it was phased out in 2016. When applicable, please annotate key site features on the site plans attached at the end of this questionnaire.

MFS Station:

Name:

Position when working at the site:

Phone number:

Email:

Date of response:

Item	Question	Response
1	<i>When did you start working at this station?</i>	
2	<i>How long have you worked at this station?</i>	
3	<i>Can you describe where stormwater from the site is usually discharged to (e.g. stormwater pit, nearby creek / pond, street gutter)?</i>	
4	<i>Can you describe any changes in how stormwater has been managed at the site over time?</i>	
5	<i>Is stormwater harvested within the site?</i>	
5.1	<i>If yes, please describe where and how stormwater is harvested.</i>	
5.2	<i>For what purposes is stormwater harvested?</i>	
6	<i>Are there groundwater wells / bores at the site?</i>	
6.1	<i>If yes, for what purpose is groundwater used at the site?</i>	

Item	Question	Response
6.2	<i>Where are the groundwater well / bores located on site? Please mark the location on the attached site plan.</i>	
7	<i>Date when AFFF was first used on site?</i>	
8	<i>Can you provide the product names of any AFFF used on the site? (e.g. Ansulite, 3M Light Water)</i>	
9	<i>Was AFFF used in regular training exercises? If so:</i>	
9.1	<i>How often was the training? (e.g. weekly, monthly, quarterly)</i>	
9.2	<i>Can you describe the location of the training areas and annotate them on the site plan?</i>	
9.3	<i>Can provide an estimate of how much AFFF was used in each training?</i>	
9.4	<i>Was the training ground sealed / open?</i>	
9.5	<i>Was AFFF dispersed aerially? If so, please indicate the maximum extent on the site plan?</i>	
9.6	<i>When was the date of the last training event that included the use of AFFF?</i>	
10	<i>Please describe how the waste water was managed following training events? Specifically, was there a recycling system, storage pond, storage tanks or drains? Please annotate waste water discharge point / pathways on the site plan.</i>	
11	<i>Did any waste water flow into drains that directed the waste water off-site? Please annotate the waste water discharge points / pathways on the site plan.</i>	
12	<i>Were there any changes how the waste water was managed over time? If so, please describe the changes.</i>	
13	<i>Is there any inventory of AFFF use for the site?</i>	

Item	Question	Response
14	<i>Can you estimate the total volume of AFFF used on site before it was phased out in 2016?</i>	
15	<i>Where was AFFF stored on site? Please annotate the storage location on the site plan.</i>	
15.1	<i>What type and size of storage containers were used to store AFFF on site?</i>	
15.2	<i>What is the number of storage containers or the total volume of AFFF that was typically stored on site at any given time prior to 2016?</i>	
16	<i>Please describe where and how AFFF was transferred from storage containers to the fire trucks / fire-fighting appliances. What equipment was used to transfer the AFFF?</i>	
17	<i>How were spent drums of AFFF disposed of?</i>	
18	<i>Were there any wash down areas for fire trucks, equipment or AFFF containers? If so:</i>	
18.1	<i>How was the waste water from such areas managed? (e.g. recycling, treatment, storage pond or discharge to drains)</i>	
18.2	<i>Were there any changes how the waste water was managed over? If so, please describe the changes.</i>	
19	<i>Please describe / annotate the specific location(s) of any other chemical storage facilities (including fuel and oil) and describe the type and typical use of those chemicals.</i>	
20	<i>Is there an incident log / register for the site?</i>	

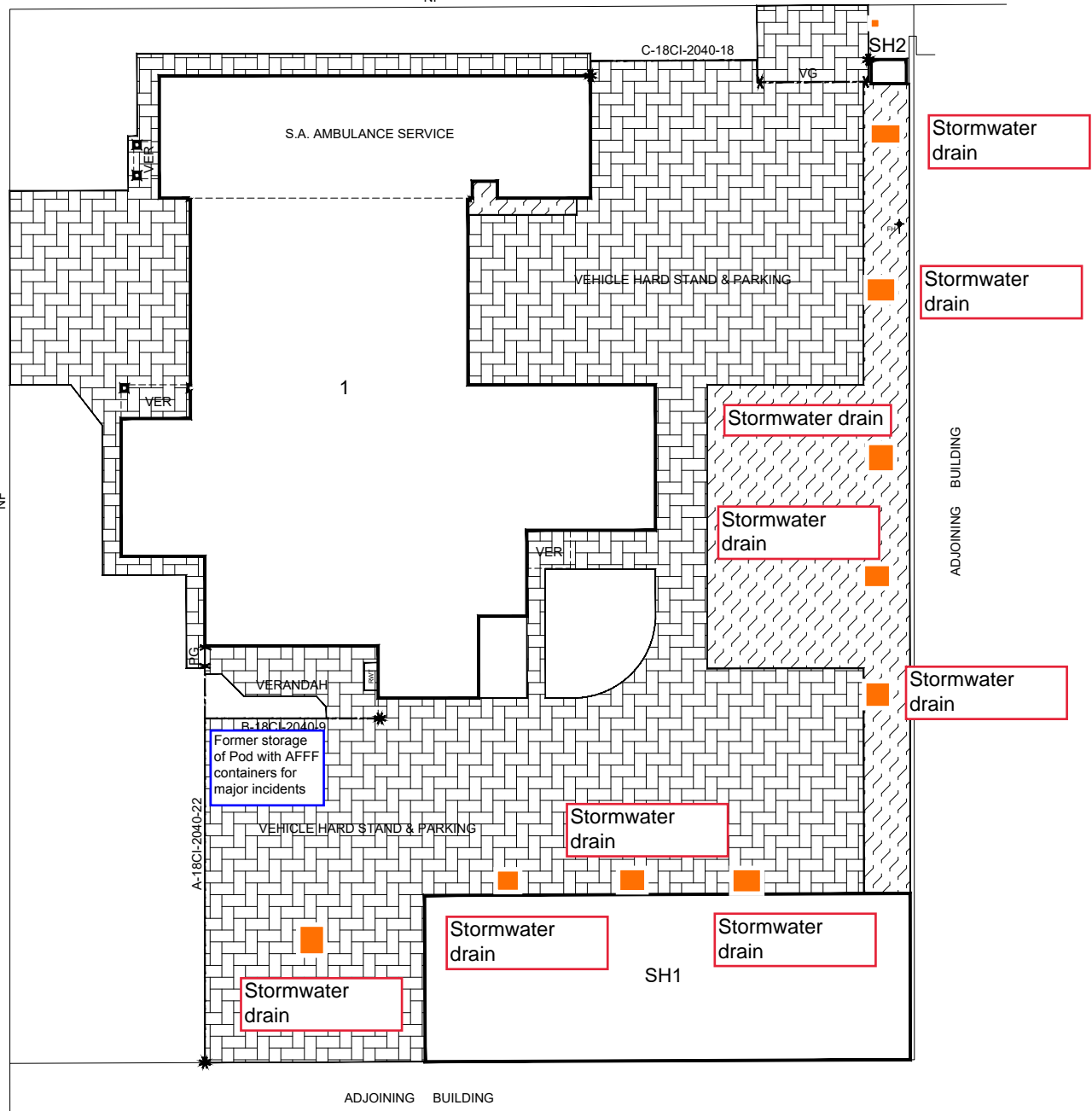
Item	Question	Response
21	<i>Are you aware of any AFFF (or other chemical) releases that may have occurred outside of typical application scenarios? If so:</i>	
21.1	<i>When did such release(s) happen?</i>	
21.2	<i>What substance(s) was/were released?</i>	
21.3	<i>Where did such release(s) happen? Please annotate the release point(s) on the site plan.</i>	
21.4	<i>Where was the released AFFF or chemical discharged to? Please annotate the discharge point(s) on the site plan.</i>	
22	<i>Are there areas of the site where training activities and / or AFFF release(s) have historically occurred that are now unused or have been built on?</i>	
23	<i>Have there been any significant bulk earthworks on the Station site that resulted in soil being relocated from one area to another?</i>	
24	<i>Please describe any changes to the Station that you are aware of with respect to the storage and use of AFFF.</i>	

Any other comments or notes.



ALBERT AVENUE

MORPHETT ROAD



Legend of Paving Patterns

Bitumen Paving Ansi 37-90°	Concrete Paving Flex 45°	Concrete Pavers 45° AR-Hbone	Clay Brick Pavers Brick 90°

BUILDINGS

- 1 FIRE & AMBULANCE STATION
- SH1 COLORBOND GARAGE & STORE
- SH2 COLORBOND DRY CLEANING STORE

PAVING DETAILS: Location, Type, Fail year, Area (sq ms)

A - - - -	B - - - -
-----------	-----------

FENCES * *code-height-type-fail date-length (ms)* *

CI corrugated iron	PW post and wire
CM chain mesh	WM weld mesh
GT galtube	NF not fenced
PG pedestrian gate	VG vehicle gate

- WM Water Meter
- GM Gas Meter
- Fence junction
- PMT Pad mtd trans

**CAMDEN PARK
SAMFS FIRE STATION
65 MORPHETT ROAD
CAMDEN PARK 5038**



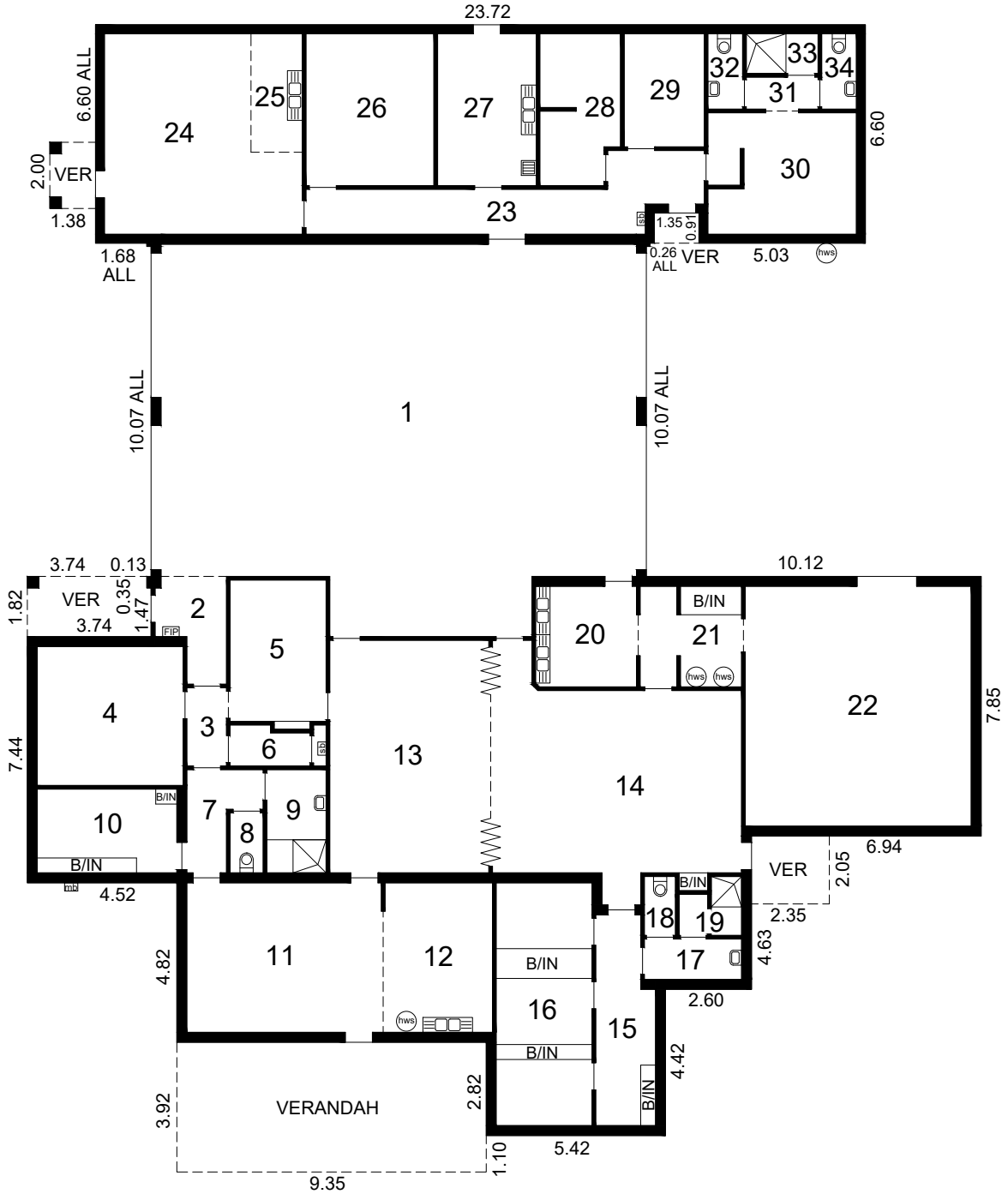
Government of South Australia
Department of Planning,
Transport and Infrastructure

Asset no. 09160	Client. SAMFS
DTEI Office. ADELAIDE	Sheet. 1 of 1
Created by. Survcad	R.L.Chapman May 2010
Modified by. Archink	A Bentley Mar 2020
Audited by. -	-
Title details. refer layer " site-allotment "	
Site area. 0.2775 ha	Accuracy. Site Survey
Strategic Asset Management Information System Plan	

SAMIS 09160



ROOMS 23 - 34 ARE OCCUPIED BY THE S.A. AMBULANCE SERVICE



Asset Name **CAMDEN PARK SAMFS FIRE STATION**

Building Use **FIRE & AMBULANCE STATION**

Created by. *Survcad* Drawn *R.L.Chapman* Date *May 2010*

Modified by. *Archink* Drawn *A Bentley* Date *Mar 2020*

Bldg area m² **648** Ver area m² **52** Plan ref. -



Government of South Australia
Department of Planning,
Transport and Infrastructure

Strategic Asset Management Information System Plan

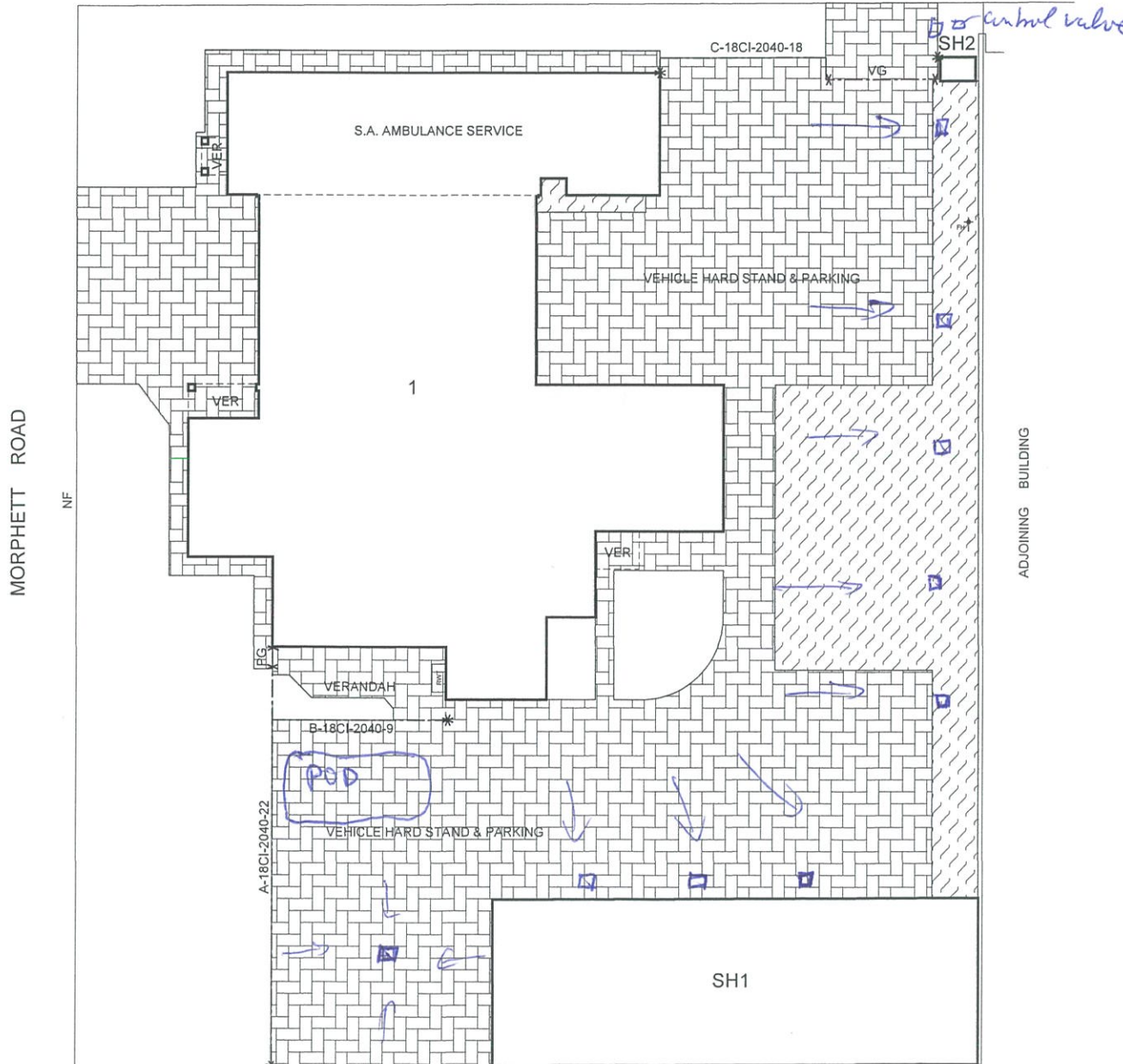
SAMIS 09160-01-1

ALBERT AVENUE



BUILDINGS

- 1 FIRE & AMBULANCE STATION
- SH1 COLORBOND GARAGE & STORE
- SH2 COLORBOND DRY CLEANING STORE



Legend of Paving Patterns

Bitumen Paving Ansi 37-90°	Concrete Paving Flex 45°	Concrete Pavers 45° AR-Hbone	Clay Brick Pavers Brick 90°

ADJOINING BUILDING
 POD with big square plastic containers ≈ 400-500L for big incidents
 Now stored at Adelaide Stn. ; no known incidents
 with APFF

PAVING DETAILS: Location, Type, Fail year, Area (sq ms)

A	-	-	-	B	-	-	-
---	---	---	---	---	---	---	---

FENCES * code-height-type-fail date-length (ms) *

CI	corrugated iron	PW	post and wire
CM	chain mesh	WM	weld mesh
GT	galtube	NF	not fenced
PG	pedestrian gate	VG	vehicle gate

⊕-WM	Water Meter	*	Fence junction
⊖-GM	Gas Meter	[PMT]	Pad mtd trans

**CAMDEN PARK
 SAMFS FIRE STATION
 65 MORPHETT ROAD
 CAMDEN PARK 5038**



Government of South Australia
 Department of Planning,
 Transport and Infrastructure

Asset no.	09160	Client.	SAMFS
DTEI Office.	ADELAIDE	Sheet.	1 of 1
Created by.	Survcad	R.L.Chapman	May 2010
Modified by.	Archink	A Bentley	Mar 2020
Audited by.	-	-	-

Title details. refer layer " site-allotment "

Site area.	0.2775 ha	Accuracy.	Site Survey
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Strategic Asset Management Information System Plan

MFS Station – AFFF Historical Use Questionnaire

Please distribute the following questionnaire to nominated MFS personnel who have worked at MFS sites when active use of AFFF (*aqueous film-forming foam, firefighting foam*) occurred before it was phased out in 2016. When applicable, please annotate key site features on the site plans attached at the end of this questionnaire.

MFS Station: **Camden Park SAMFS Fire Station**

Name: [REDACTED]

Position when working at the site:

Phone number:

Email:

Date of response: *20-06-2022*

Item	Question	Response
1	When did you start working at this station?	
2	How long have you worked at this station?	
3	Can you describe where stormwater from the site is usually discharged to (e.g. stormwater pit, nearby creek / pond, street gutter)?	<i>Stormwater is collected in nine stormwater drains along the eastern (5) and southern site boundaries. The stormwater is discharged into the public stormwater drain in Allot Ave.</i>
4	Can you describe any changes in how stormwater has been managed at the site over time?	
5	Is stormwater harvested within the site?	
5.1	If yes, please describe where and how stormwater is harvested.	
5.2	For what purposes is stormwater harvested?	
6	Are there groundwater wells / bores at the site?	
6.1	If yes, for what purpose is groundwater used at the site?	



MFS Station – AFFF Historical Use Questionnaire

Please distribute the following questionnaire to nominated MFS personnel who have worked at MFS sites when active use of AFFF (*aqueous film-forming foam, firefighting foam*) occurred before it was phased out in 2016. When applicable, please annotate key site features on the site plans attached at the end of this questionnaire.

MFS Station: Camden Park SAMFS Fire Station

Name:

Position when working at the site:

Phone number:

Email:

Date of response:

Item	Question	Response
1	When did you start working at this station?	1998
2	How long have you worked at this station?	24 years
3	Can you describe where stormwater from the site is usually discharged to (e.g. stormwater pit, nearby creek / pond, street gutter)?	To Sturt Creek.
4	Can you describe any changes in how stormwater has been managed at the site over time?	NO changes.
5	Is stormwater harvested within the site?	NO
5.1	If yes, please describe where and how stormwater is harvested.	
5.2	For what purposes is stormwater harvested?	
6	Are there groundwater wells / bores at the site?	unknown
6.1	If yes, for what purpose is groundwater used at the site?	

Item	Question	Response
6.2	Where are the groundwater well / bores located on site? Please mark the location on the attached site plan.	
7	Date when AFFF was first used on site?	1994
8	Can you provide the product names of any AFFF used on the site? (e.g. Ansulite, 3M Light Water)	
9	Was AFFF used in regular training exercises? If so:	NO
9.1	How often was the training? (e.g. weekly, monthly, quarterly)	
9.2	Can you describe the location of the training areas and annotate them on the site plan?	Rear yard
9.3	Can provide an estimate of how much AFFF was used in each training?	NO
9.4	Was the training ground sealed / open?	paved.
9.5	Was AFFF dispersed aerially? If so, please indicate the maximum extent on the site plan?	unknown
9.6	When was the date of the last training event that included the use of AFFF?	unknown
10	Please describe how the waste water was managed following training events? Specifically, was there a recycling system, storage pond, storage tanks or drains? Please annotate waste water discharge point / pathways on the site plan.	To drain
11	Did any waste water flow into drains that directed the waste water off-site? Please annotate the waste water discharge points / pathways on the site plan.	yes
12	Were there any changes how the waste water was managed over time? If so, please describe the changes.	NO
13	Is there any inventory of AFFF use for the site?	NO

Item	Question	Response
14	Can you estimate the total volume of AFFF used on site before it was phased out in 2016?	UNKNOWN
15	Where was AFFF stored on site? Please annotate the storage location on the site plan.	REAR SHED. @ POOS.
15.1	What type and size of storage containers were used to store AFFF on site?	200L 44 GAL x 4
15.2	What is the number of storage containers or the total volume of AFFF that was typically stored on site at any given time prior to 2016?	UNKNOWN
16	Please describe where and how AFFF was transferred from storage containers to the fire trucks / fire-fighting appliances. What equipment was used to transfer the AFFF?	
17	How were spent drums of AFFF disposed of?	UNKNOWN
18	Were there any wash down areas for fire trucks, equipment or AFFF containers? If so:	
18.1	How was the waste water from such areas managed? (e.g. recycling, treatment, storage pond or discharge to drains)	
18.2	Were there any changes how the waste water was managed over? If so, please describe the changes.	NO
19	Please describe / annotate the specific location(s) of any other chemical storage facilities (including fuel and oil) and describe the type and typical use of those chemicals.	
20	Is there an incident log / register for the site?	

Item	Question	Response
21	Are you aware of any AFFF (or other chemical) releases that may have occurred outside of typical application scenarios? If so:	NO
21.1	When did such release(s) happen?	
21.2	What substance(s) was/were released?	
21.3	Where did such release(s) happen? Please annotate the release point(s) on the site plan.	
21.4	Where was the released AFFF or chemical discharged to? Please annotate the discharge point(s) on the site plan.	
22	Are there areas of the site where training activities and / or AFFF release(s) have historically occurred that are now unused or have been built on?	
23	Have there been any significant bulk earthworks on the Station site that resulted in soil being relocated from one area to another?	NO
24	Please describe any changes to the Station that you are aware of with respect to the storage and use of AFFF.	

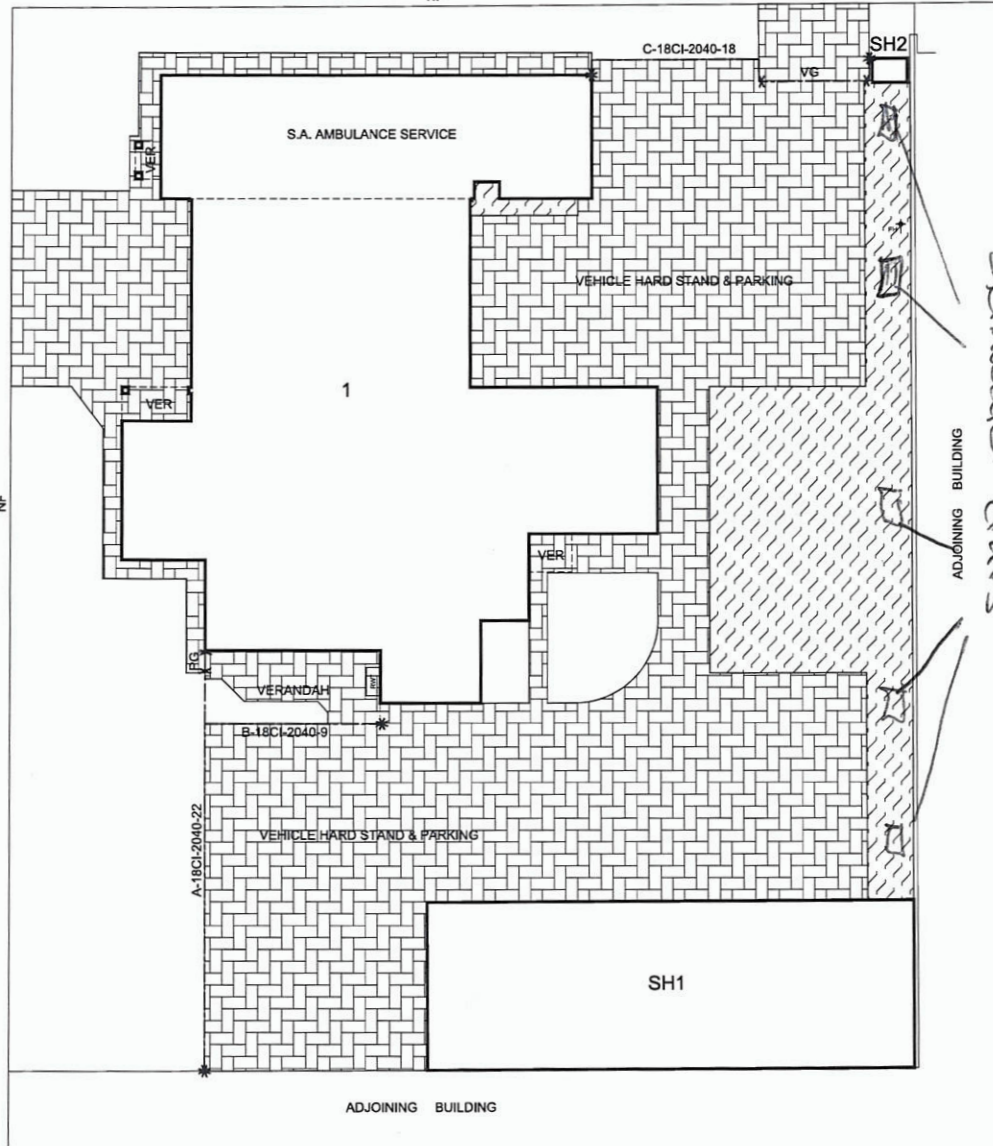
Any other comments or notes.

Scale Bar Units in Metres (1:250) Plot at scale of 1=0.025 All dimensions to be verified on site



ALBERT AVENUE

MORPHETT ROAD



Legend of Paving Patterns

Bitumen Paving Ansi 37-90*	Concrete Paving Flex 45*	Concrete Pavers 45° AR-Hbone	Clay Brick Pavers Brick 90*

BUILDINGS

- 1 FIRE & AMBULANCE STATION
- SH1 COLORBOND GARAGE & STORE
- SH2 COLORBOND DRY CLEANING STORE

PAVING DETAILS: Location, Type, Fall year, Area (sq ms)

A - - -	B - - -
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FENCES * code-height-type-fall date-length (ms) *

CI corrugated iron	PW post and wire
CM chain mesh	WM weld mesh
GT galutube	NF not fenced
PG pedestrian gate	VG vehicle gate

⊕-WM Water Meter	* Fence junction
⊖-GM Gas Meter	[PMT] Pad mtd trans

**CAMDEN PARK
SAMFS FIRE STATION
65 MORPHETT ROAD
CAMDEN PARK 5038**



Government of South Australia
Department of Planning,
Transport and Infrastructure

Asset no. 09160 Client. SAMFS

DTEI Office. ADELAIDE Sheet. 1 of 1

Created by. Survcad R.L.Chapman May 2010

Modified by. Archink A Bentley Mar 2020

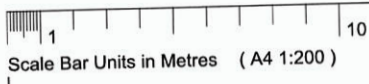
Audited by. - - -

Title details. refer layer * site-allotment *

Site area. 0.2775 ha Accuracy. Site Survey

Strategic Asset Management Information System Plan

SAMIS 09160

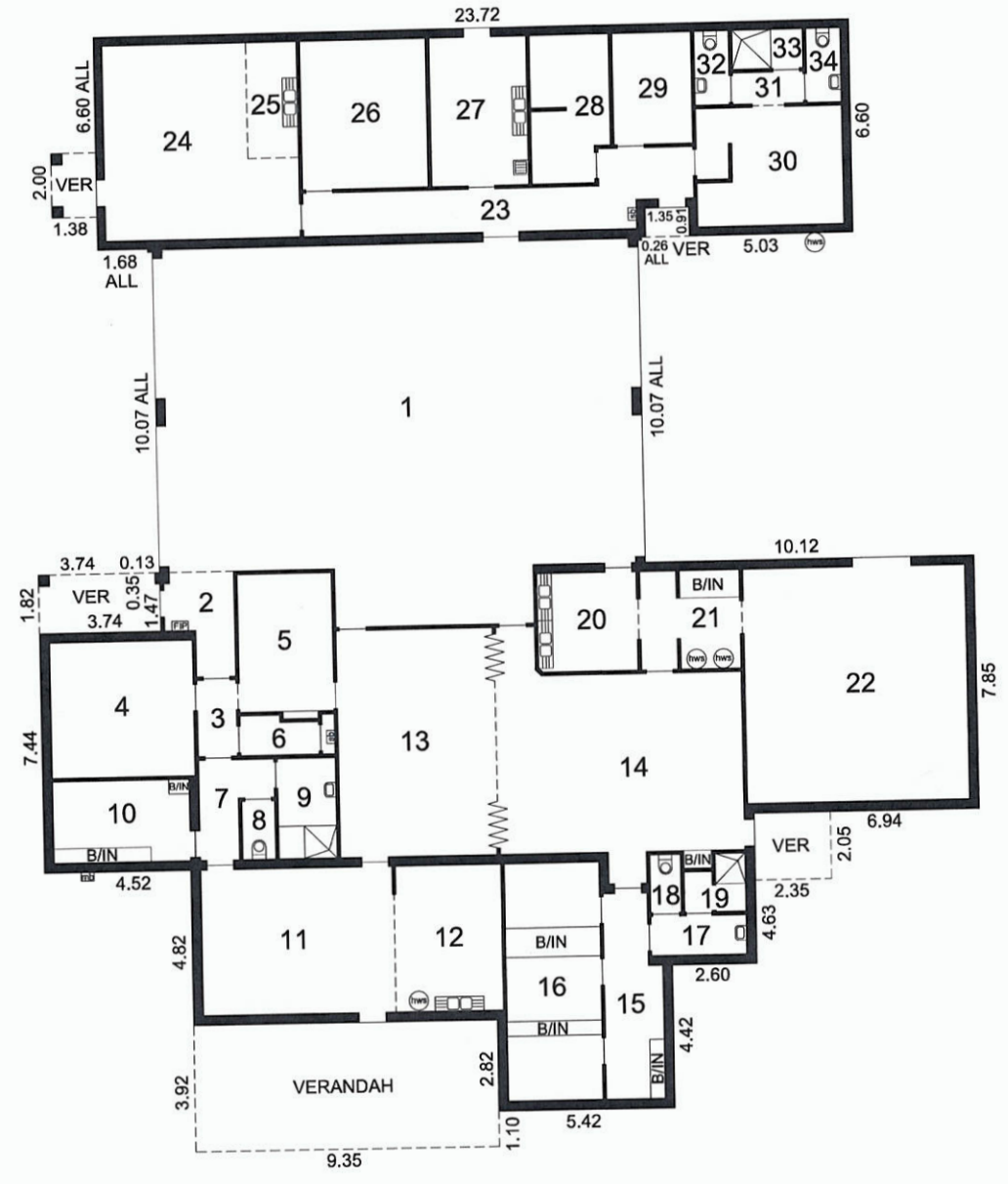


Plot at a scale of 1=0.2

All dimensions to be verified on site



ROOMS 23 - 34 ARE OCCUPIED BY THE S.A. AMBULANCE SERVICE



Asset Name	CAMDEN PARK SAMFS FIRE STATION			
Building Use	FIRE & AMBULANCE STATION			
Created by.	<i>SurvCAD</i>	Drawn	<i>R.L.Chapman</i>	Date <i>May 2010</i>
Modified by.	<i>Archink</i>	Drawn	<i>A Bentley</i>	Date <i>Mar 2020</i>
Bldg area m ²	648	Ver area m ²	52	Plan ref. -

Government of South Australia
 Department of Planning,
 Transport and Infrastructure

Strategic Asset Management Information System Plan

SAMIS 09160-01-1

"B" SHIFT.
✓



MFS Station – AFFF Historical Use Questionnaire

Please distribute the following questionnaire to nominated MFS personnel who have worked at MFS sites when active use of AFFF (*aqueous film-forming foam, firefighting foam*) occurred before it was phased out in 2016. When applicable, please annotate key site features on the site plans attached at the end of this questionnaire.












MFS Station: Camden Park SAMFS Fire Station
Name: [REDACTED]

Position when working at the site: F/ F/ Email:

Phone number: 2-077-2022-07
Date of response: 07

Item	Question	Response
1	When did you start working at this station?	2019
2	How long have you worked at this station?	3.
3	Can you describe where stormwater from the site is usually discharged to (e.g. stormwater pit, nearby creek / pond, street gutter)?	STREET -> STREET DRAIN
4	Can you describe any changes in how stormwater has been managed at the site over time?	No.
5	Is stormwater harvested within the site?	No.
5.1	If yes, please describe where and how stormwater is harvested.	/
5.2	For what purposes is stormwater harvested?	/
6	Are there groundwater wells / bores at the site?	No.
6.1	If yes, for what purpose is groundwater used at the site?	/

Item	Question	Response
6.2	Where are the groundwater well / bores located on site? Please mark the location on the attached site plan.	—
7	Date when AFFF was first used on site?	UNKNOWN.
8	Can you provide the product names of any AFFF used on the site? (e.g. Ansulite, 3M Light Water)	—
9	Was AFFF used in regular training exercises? If so:	No.
9.1	How often was the training? (e.g. weekly, monthly, quarterly)	—
9.2	Can you describe the location of the training areas and annotate them on the site plan?	—
9.3	Can provide an estimate of how much AFFF was used in each training?	—
9.4	Was the training ground sealed / open?	—
9.5	Was AFFF dispersed aerially? If so, please indicate the maximum extent on the site plan?	—
9.6	When was the date of the last training event that included the use of AFFF?	—
10	Please describe how the waste water was managed following training events? Specifically, was there a recycling system, storage pond, storage tanks or drains? Please annotate waste water discharge point / pathways on the site plan.	—
11	Did any waste water flow into drains that directed the waste water off-site? Please annotate the waste water discharge points / pathways on the site plan.	—
12	Were there any changes how the waste water was managed over time? If so, please describe the changes.	—
13	Is there any inventory of AFFF use for the site?	—

Item	Question	Response
14	Can you estimate the total volume of AFFF used on site before it was phased out in 2016?	
15	Where was AFFF stored on site? Please annotate the storage location on the site plan.	
15.1	What type and size of storage containers were used to store AFFF on site?	
15.2	What is the number of storage containers or the total volume of AFFF that was typically stored on site at any given time prior to 2016?	
16	Please describe where and how AFFF was transferred from storage containers to the fire trucks / fire-fighting appliances. What equipment was used to transfer the AFFF?	
17	How were spent drums of AFFF disposed of?	
18	Were there any wash down areas for fire trucks, equipment or AFFF containers? If so:	
18.1	How was the waste water from such areas managed? (e.g. recycling, treatment, storage pond or discharge to drains)	
18.2	Were there any changes how the waste water was managed over? If so, please describe the changes.	
19	Please describe / annotate the specific location(s) of any other chemical storage facilities (including fuel and oil) and describe the type and typical use of those chemicals.	
20	Is there an incident log / register for the site?	

Item	Question	Response
21	Are you aware of any AFFF (or other chemical) releases that may have occurred outside of typical application scenarios? If so:	No.
21.1	When did such release(s) happen?	—
21.2	What substance(s) was/were released?	—
21.3	Where did such release(s) happen? Please annotate the release point(s) on the site plan.	—
21.4	Where was the released AFFF or chemical discharged to? Please annotate the discharge point(s) on the site plan.	—
22	Are there areas of the site where training activities and / or AFFF release(s) have historically occurred that are now unused or have been built on?	—
23	Have there been any significant bulk earthworks on the Station site that resulted in soil being relocated from one area to another?	No.
24	Please describe any changes to the Station that you are aware of with respect to the storage and use of AFFF.	—

Any other comments or notes.

Scale Bar Units in Metres (1:250)

Plot at scale of 1:=025

All dimensions to be verified on site

70

60

50

40

30

20

10

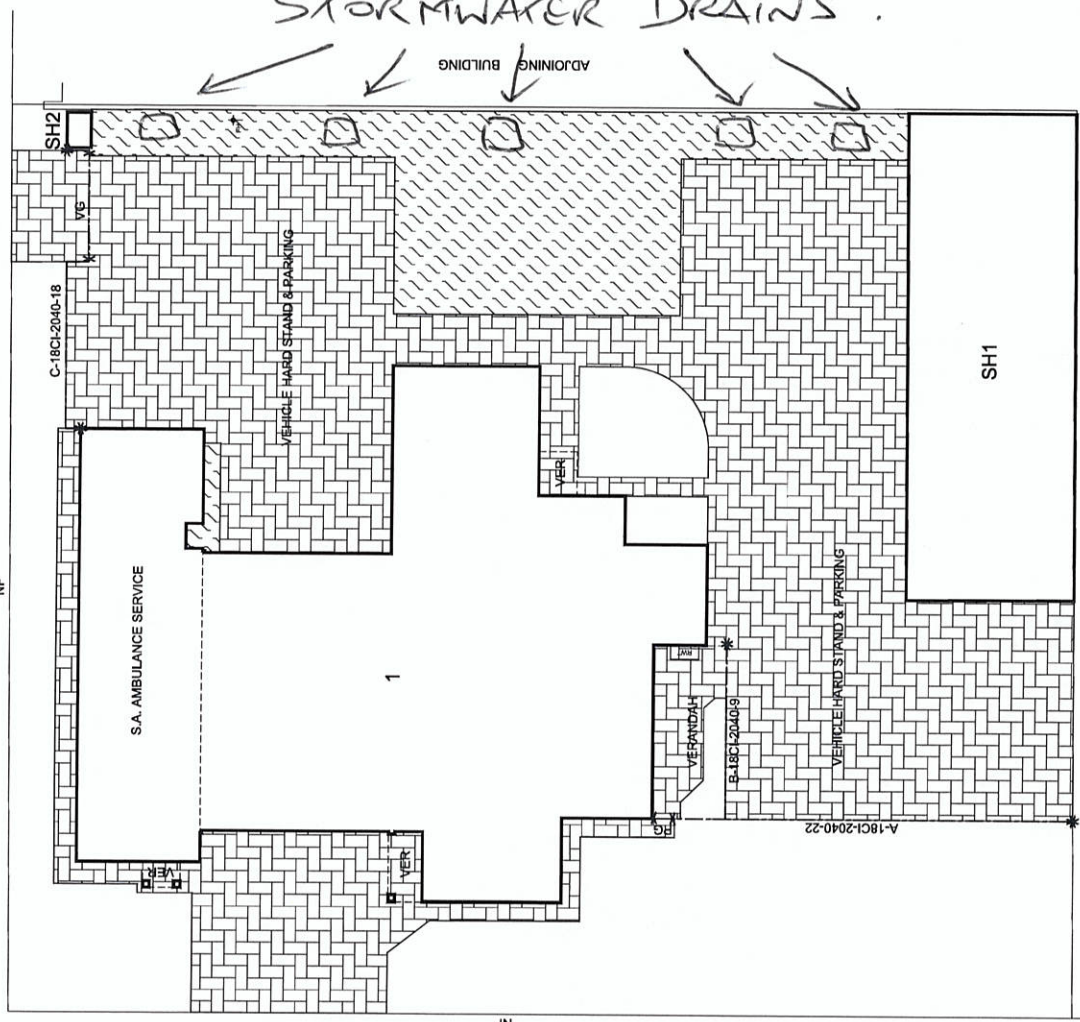


BUILDINGS

- 1 FIRE & AMBULANCE STATION
- SH1 COLORBOND GARAGE & STORE
- SH2 COLORBOND DRY-CLEANING STORE

ALBERT AVENUE

NF



MORPHETT ROAD

NF

Legend of Paving Patterns

	Bitumen Paving
	Concrete Paving
	Clay Brick
	AR-Ibone Brick 90°
	AR-Ibone Brick 45°

PAVING DETAILS: Location, Type, Fall year, Area (sq. ms)

A	B
FENCES	* code-height-type-fall date-length (ms) *
CI	corrugated iron
CM	chain mesh
GT	galitube
PG	pedestrian gate
WM	Water Meter
GM	Gas Meter
EMT	Pad mtid trans
PW	post and wire
WM	weld mesh
NF	not fenced
VG	vehicle gate
Fence Junction	*
Pad mtid trans	EMT

CAMDEN PARK
SAMFS FIRE STATION
65 MORPHETT ROAD
CAMDEN PARK 5038



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 Department of Planning,
 Transport and Infrastructure

Asset no.	09160	Client	SAMFS
DTEI Office	ADELAIDE	Sheet	1 of 1
Created by	Survcad	Survised	R.L.Chapman May 2010
Modified by	Archink	Approved	A Bentley Mar 2020
Audited by	-	-	-

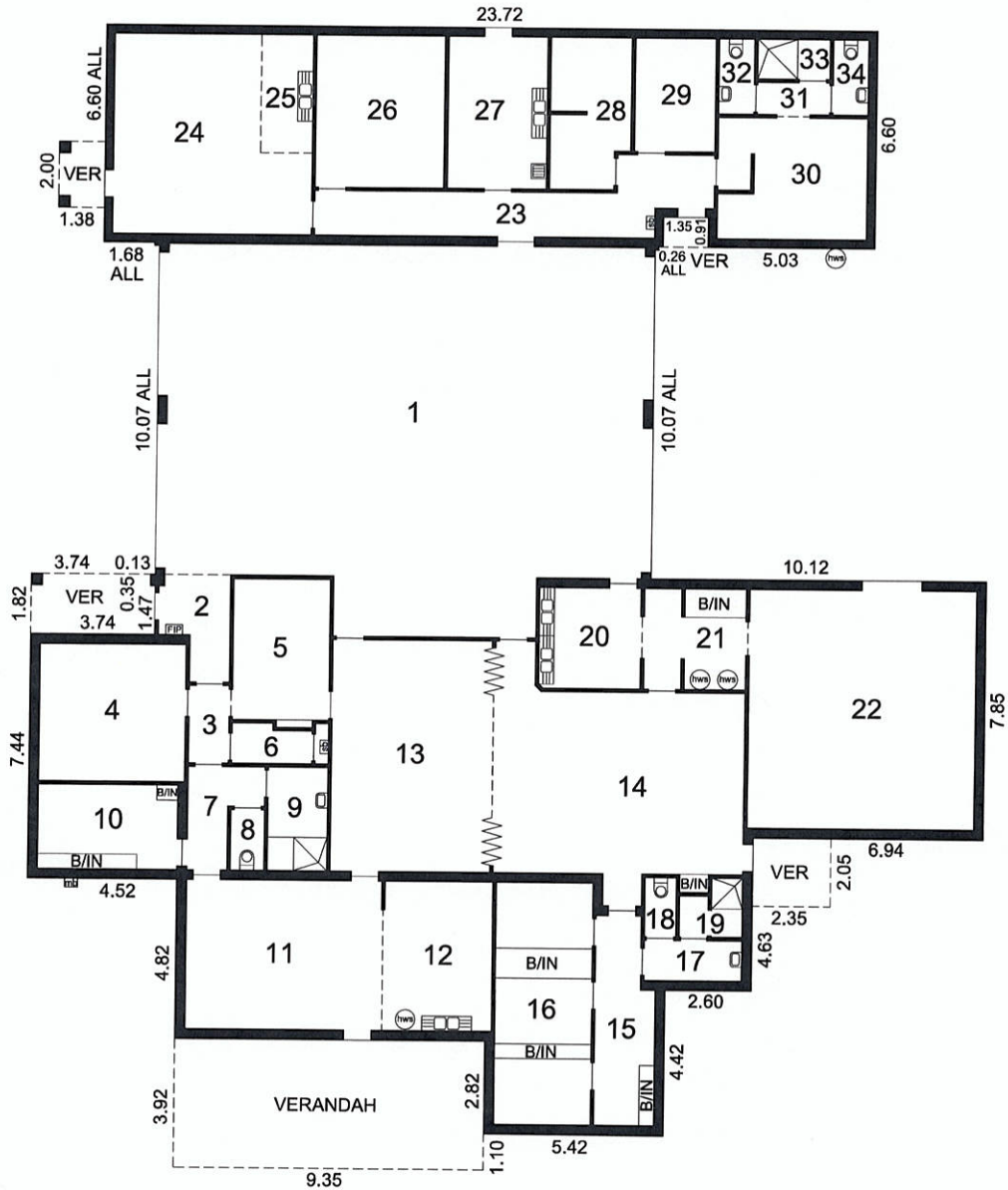
Title details	refer layer * site-allocment *
Site area	0.2775 ha
Accuracy	Site Survey
Strategic Asset Management Information System Plan	

SAMIS 09160

Scale Bar Units in Metres (A4 1:200) Plot at a scale of 1=0.2 All dimensions to be verified on site



ROOMS 23 - 34 ARE OCCUPIED BY THE S.A. AMBULANCE SERVICE



Asset Name **CAMDEN PARK SAMFS FIRE STATION**

Building Use **FIRE & AMBULANCE STATION**

Created by. *Surv cad* Drawn *R.L.Chapman* Date *May 2010*

Modified by. *Archink* Drawn *A Bentley* Date *Mar 2020*

Bldg area m² **648** Ver area m² **52** Plan ref. -



Government of South Australia

Department of Planning,
Transport and Infrastructure

Strategic Asset Management Information System Plan

SAMIS 09160-01-1

Appendix F

**SA EPA Statement to Form 1 Section 7
Search Results**



Environment Protection Authority
GPO Box 2607 Adelaide SA 5001
211 Victoria Square Adelaide SA 5000
T (08) 8204 2004
Country areas 1800 623 445

Receipt No :
Admin No : 112610 (77134)

GHD
Level 4
211 Victoria Square
ADELAIDE SA 5000

Contact: Section 7
Telephone: (08) 8204 2026
Email: epasection7@sa.gov.au

Contact: Public Register
Telephone: (08) 8204 9128
Email: epa.publicregister@sa.gov.au

02 March, 2023

EPA STATEMENT TO FORM 1 - CONTRACTS FOR SALE OF LAND OR BUSINESS

The EPA provides this statement to assist the vendor meet its obligations under section 7(1)(b) of the *Land and Business (Sale and Conveyancing) Act 1994*. A response to the questions prescribed in Schedule 1-Contracts for sale of land or business-forms (Divisions 1 and 2) of the *Land and Business (Sale and Conveyancing) Act 1994* is provided in relation to the land.

I refer to your enquiry concerning the parcel of land comprised in

Title Reference CT Volume 5413 Folio 751
Address 65-69 Morphett Road, CAMDEN PARK SA 5038

Schedule – Division 1 – *Land and Business (Sale and Conveyancing) Regulations 2010*

PARTICULARS OF MORTGAGES, CHARGES AND PRESCRIBED ENCUMBRANCES AFFECTING THE LAND

8. *Environment Protection Act 1993*

Does the EPA hold any of the following details relating to the *Environment Protection Act 1993*:

8.1	Section 59 - Environment performance agreement that is registered in relation to the land.	NO
8.2	Section 93 - Environment protection order that is registered in relation to the land.	NO
8.3	Section 93A - Environment protection order relating to cessation of activity that is registered in relation to the land.	NO
8.4	Section 99 - Clean-up order that is registered in relation to the land.	NO
8.5	Section 100 - Clean-up authorisation that is registered in relation to the land.	NO
8.6	Section 103H - Site contamination assessment order that is registered in relation to the land.	NO
8.7	Section 103J - Site remediation order that is registered in relation to the land.	NO

8.8	Section 103N - Notice of declaration of special management area in relation to the land (due to possible existence of site contamination).	NO
8.9	Section 103P - Notation of site contamination audit report in relation to the land.	NO
8.10	Section 103S - Notice of prohibition or restriction on taking water affected by site contamination in relation to the land.	NO

Schedule – Division 2 – Land and Business (Sale and Conveyancing) Regulations 2010

PARTICULARS RELATING TO ENVIRONMENT PROTECTION

3-Licences and exemptions recorded by EPA in public register

Does the EPA hold any of the following details in the public register:

a)	details of a current licence issued under Part 6 of the <i>Environment Protection Act 1993</i> to conduct any prescribed activity of environmental significance under Schedule 1 of that Act at the land?	NO
b)	details of a licence no longer in force issued under Part 6 of the <i>Environment Protection Act 1993</i> to conduct any prescribed activity of environmental significance under Schedule 1 of that Act at the land?	NO
c)	details of a current exemption issued under Part 6 of the <i>Environment Protection Act 1993</i> from the application of a specified provision of that Act in relation to an activity carried on at the land?	NO
d)	details of an exemption no longer in force issued under Part 6 of the <i>Environment Protection Act 1993</i> from the application of a specified provision of that Act in relation to an activity carried on at the land?	NO
e)	details of a licence issued under the repealed <i>South Australian Waste Management Commission Act 1979</i> to operate a waste depot at the land?	NO
f)	details of a licence issued under the repealed <i>Waste Management Act 1987</i> to operate a waste depot at the land?	NO
g)	details of a licence issued under the repealed <i>South Australian Waste Management Commission Act 1979</i> to produce waste of a prescribed kind (within the meaning of that Act) at the land?	NO
h)	details of a licence issued under the repealed <i>Waste Management Act 1987</i> to produce prescribed waste (within the meaning of that Act) at the land?	NO

4-Pollution and site contamination on the land - details recorded by the EPA in public register

Does the EPA hold any of the following details in the public register in relation to the land or part of the land:

a)	details of serious or material environmental harm caused or threatened in the course of an activity (whether or not notified under section 83 of the <i>Environment Protection Act 1993</i>)?	YES
----	--	------------

- | | | |
|----|--|-----|
| b) | details of site contamination notified to the EPA under section 83A of the <i>Environment Protection Act 1993</i> ? | NO |
| c) | a copy of a report of an environmental assessment (whether prepared by the EPA or some other person or body and whether or not required under legislation) that forms part of the information required to be recorded in the public register? | YES |
| d) | a copy of a site contamination audit report? | NO |
| e) | details of an agreement for the exclusion or limitation of liability for site contamination to which section 103E of the <i>Environment Protection Act 1993</i> applies? | NO |
| f) | details of an agreement entered into with the EPA relating to an approved voluntary site contamination assessment proposal under section 103I of the <i>Environment Protection Act 1993</i> ? | NO |
| g) | details of an agreement entered into with the EPA relating to an approved voluntary site remediation proposal under section 103K of the <i>Environment Protection Act 1993</i> ? | NO |
| h) | details of a notification under section 103Z(1) of the <i>Environment Protection Act 1993</i> relating to the commencement of a site contamination audit? | NO |
| i) | details of a notification under section 103Z(2) of the <i>Environment Protection Act 1993</i> relating to the termination before completion of a site contamination audit? | NO |
| j) | details of records, held by the former <i>South Australian Waste Management Commission</i> under the repealed <i>Waste Management Act 1987</i> , of waste (within the meaning of that Act) having been deposited on the land between 1 January 1983 and 30 April 1995? | NO |

5-Pollution and site contamination on the land - other details held by EPA

Does the EPA hold any of the following details in relation to the land or part of the land:

- | | | |
|----|--|----|
| a) | a copy of a report known as a "Health Commission Report" prepared by or on behalf of the <i>South Australian Health Commission</i> (under the repealed <i>South Australian Health Commission Act 1976</i>)? | NO |
| b) | details (which may include a report of an environmental assessment) relevant to an agreement entered into with the EPA relating to an approved voluntary site contamination assessment proposal under section 103I of the <i>Environment Protection Act 1993</i> ? | NO |
| c) | details (which may include a report of an environmental assessment) relevant to an agreement entered into with the EPA relating to an approved voluntary site remediation proposal under section 103K of the <i>Environment Protection Act 1993</i> ? | NO |
| d) | a copy of a pre-1 July 2009 site audit report? | NO |
| e) | details relating to the termination before completion of a pre-1 July 2009 site audit? | NO |

Records identified in this EPA Statement to Form 1: **SC62627**

The above records have been identified with a YES response in this EPA Statement to Form 1 and can be obtained by contacting the Public Register on (08) 8204 9128 or email epa.publicregister@sa.gov.au

All care and diligence has been taken to access the above information from available records. Historical records provided to the EPA concerning matters arising prior to 1 May 1995 are limited and may not be accurate or complete.



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