



MFS Port Pirie Station



Preliminary Site Investigation

South Australian Metropolitan Fire Service

19 June 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 Port Pirie Fire Station, located at 97 Grey Terrace, Port Pirie, 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 Port Pirie 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:

- Determine the nature and extent of identified PFAS impacts associated with historical use of firefighting foam
Determine 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 the 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.

Potential nature and extent of PFAS impacts on-site and off-site:

- Documented information confirmed the storage of PFAS containing AFFF at the site prior to 1999
- Storage of AFFF on-site was noted as approximately twenty 20 L plastic drums and two 200 L plastic drums
- Minimal soil sampling has been undertaken on-site with samples reporting results below the HIL D (commercial/industrial) and HIL B (residential with limited open soil) assessment criteria, however exceeding the ecological indirect exposure guidelines in two samples
- While soil on-site has confirmed the presence of PFAS, the extent of PFAS in soil and the potential for groundwater impacts 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
- 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 potentially 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.

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
CSM	Conceptual Site Model
CT	Certificate of Title
EPA	South Australian Environment Protection Authority
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
m BGL	Metres Below Ground Level
MCA	Multi-Criteria Analysis
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
PCA	Potentially Contaminating Activity
PCSM	Preliminary Conceptual Site Model
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
SAILIS	South Australian Integrated Land Information System
SAPPA	South Australia Property and Planning Atlas
SAQP	Sampling and Analysis Quality Plan
SARIG	South Australian Resources Information Gateway
SPR	Source-Pathway-Receptor
SWL	Standing Water Level
TDS	Total Dissolved Solids
WQEPP	South Australian <i>Environmental Protection (Water Quality) Policy 2015</i>

Contents

Table of Abbreviations	iii
1. Introduction	1
1.1 Background	1
1.2 Objectives	1
1.3 Person requesting works	1
1.4 Methodology	2
1.5 Previous investigations	2
2. Scope of works	4
3. Limitations	5
4. Site information	6
4.1 Site identification	6
4.2 Site inspection and description	6
4.3 Site drainage	6
4.4 Historical PFAS use	7
4.5 Historical storage of PFAS	7
4.6 Surrounding land uses	8
5. Environmental setting	9
5.1 Topography and Hydrology	9
5.2 Site drainage	9
5.3 Surface water	9
5.4 Geology and Soils	9
5.5 Hydrogeology	9
5.6 Determination of environmental values	10
6. Site history searches	11
6.1 Historical ownership summary	11
6.2 Historical aerial photographs	11
6.3 SA EPA public register	12
6.4 SA EPA Section 7 search	13
6.5 Review of Council records	13
7. Potentially Contaminating Activities	14
8. Preliminary Conceptual Site Model (PCSM)	15
8.1 Chemicals of potential concern	15
8.2 Sources of PFAS contamination	15
8.3 Exposure pathways	15
8.4 Receptors	16
8.5 Potentially complete exposure pathways	16
8.6 PCSM data gaps	20
9. Conclusions	21
10. References	22
Figures	23

Table index

Table 4.1	Summary of General Site Identification Information	6
Table 4.2	Land uses and zoning	8
Table 5.1	Four step process for determining harm to groundwater	10
Table 6.1	Summary of historical certificates of title	11
Table 6.2	Summary of historical aerial images	11
Table 6.3	Summary of SA EPA public register search	12
Table 7.1	Potentially Contaminating Activities (PCAs)	14
Table 8.1	Preliminary conceptual site model	17

Figure index (attached)

Figure 1	Site Location Plan	23
Figure 2	Historical Sampling Locations	23
Figure 3	Site Layout Plan	23
Figure 4	Surrounding land use	23

Appendices

Appendix A	SA EPA Correspondence
Appendix B	Lotsearch Report LS040254 EP
Appendix C	Certificates of Title and SAPPA Information
Appendix D	Photographic Log
Appendix E	MFS Staff Surveys
Appendix F	SA EPA Statement to Form 1 Section 7 Search Results

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 Port Pirie Station, located at 97 Grey Terrace, Port Pirie South, SA 5540 (the site). The site location is shown in Figure 1 (attached).

This PSI is limited to assessing the potential impacts from the historical 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 the Port Pirie station is included. The SA EPA letter can be found in Appendix A.

1.1 Background

The Port Pirie Station has been in operation since 1986 providing 24-hour emergency response and community recovery services with a mix of both full-time and retained firefighters.

Historically, the MFS 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 conducting 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, 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.

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 appropriate assessment and management measures to address the potential PFAS risks. The GHD 2022 report was provided to the SA EPA, who subsequently issued a letter dated 1 February 2023 (EPA GENI 62917) outlining a requirement to establish 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 fire stations to assist in the future development of a Sampling and Analysis Quality Plan (SAQP) and further detailed investigations at the site. The Port Pirie Fire Station was identified as one of the eight high priority sites.

1.2 Objectives

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

- Determine the potential presence of PFAS impacts associated with historical use of firefighting foam at the site
- Identify and assess potential risks to human health and/or the environment as a result of the identified 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 Haatinen, 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:

- Heads of Environment Protection Authorities (HEPA), 2020. PFAS National Environmental Management Plan (Version 2.0), Heads of Environment Protection Authorities Australia and New Zealand, January 2020, (PFAS NEMP)
- South Australian Environment Protection Act 1993 (Gov SA 1993) and associated regulations
- National Environmental Protection (Assessment of Site Contamination) Measure 1999 (as amended May 2013) (ASC NEPM)
- South Australian Environment Protection Authority (2019), Guidelines on the assessment and remediation (GAR) of site contamination

1.5 Previous investigations

Previous PFAS investigations at the Port Pirie Fire Station were 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 prepared for the South Australian Metropolitan Fire Service by GHD Pty Ltd, October 2022

Locations sampled at the Port Pirie 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 Port Pirie 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 (fruit, vegetables, herbs 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. The outcomes of the sampling program were as follows:

- Four soil samples (Port Pirie_1 to Port Pirie_4) were collected from the western and southern boundary. Two of the soil samples (Port Pirie_3 and Port Pirie_4) reported detectable PFAS concentrations which exceeded the PFAS NEMP Ecological Indirect exposure guidelines for PFOS. No other exceedances were reported
- Four samples were collected from appliances at the site, of which one exceeded the PFAS NEMP drinking water guidelines for PFOS and Sum of PFHxS and PFOS. It should be noted that all appliances have since been decontaminated from residual PFAS

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

The Port Pirie 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 Port Pirie, were identified by the SA EPA in the letter GENI 62485 dated 21 October 2021.

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 sources of PFAS contamination, potentially sensitive human or ecological receptors in the vicinity of the sites and the 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 Port Pirie MFS fire station was classified as high-risk with high priority for further investigation of PFAS contamination for the following reasons:

- High historical on-site use and storage of AFFF concentrate
- Shallow groundwater depth and risk of AFFF infiltration to groundwater

- Historical on-site training on unsealed surfaces
- Close proximity of wetland north of the site which receives stormwater from the site
- Surrounding residential land use

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, 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 (PCSM), 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 via the following Lotsearch report included in Appendix B.

- Lotsearch (2023) 97 Grey Terrace, Port Pirie South, SA 5540, Reference number LS040254 EP, prepared by Lotsearch Enviro Professional, 10 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 LS040254 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:	97 Grey Terrace, Port Pirie South, SA 5540
Certificate of Title:	CT 5800/269
Legal Description:	Section 57, Hundred of Pirie in the area names Port Pirie South
Local Government Authority:	Port Pirie Regional Council
Current Zoning:	Employment
Property Owner:	South Australian Metropolitan Fire Service
Current Site Use:	Operational Fire Station
Area:	19,297 m ²
Site Elevation:	8 m AHD

Copies of the current certificate of title and excerpts from the South Australia Property and Planning Atlas (SAPPA 2022) including zoning information are provided in Appendix C. The site layout plan is shown in Figure 3.

4.2 Site inspection and description

The Port Pirie Fire Station is located on Grey Terrace and is surrounded by a mix of other emergency services, residential houses and community parklands. The MFS owns the block of land on which the Port Pirie Fire Station, SA Ambulance Service and North Region State Emergency Service are located. The station has both full time and retained staff working on 24-hour shift cycles. A site inspection was undertaken on 9 March 2023 and noted the following buildings and features:

- One main one-storey building, located in the north of the site which contained the engine room, administrative offices and living quarters
- A carport was present along the eastern boundary in the rear yard, built approximately 15 years ago, where chemicals were stored and AFFF would likely have historically been stored
- A training tower, located in the middle of the paved area out the back of the site
- An unsealed paddock immediately south of the southern fence line which may have historically been used for training or been subject to overspray
- Three stormwater drains were located in the rear yard directing stormwater off-site towards both Grey Terrace and Short Street and subsequently discharging to the Phoenix Park Wetlands
- The site was observed to be relatively flat with gentle declines from the front apron to Grey Terrace and the rear yard access to Short Street

4.3 Site drainage

The site was observed to be relatively flat, with a gentle downwards slope along the driveways off Grey Terrace and Short Street towards their respective roads. The back paved area also has a gentle downward slope to the west towards Short Street. The engine room is relatively flat and has no drainage points meaning water tends to pool and is pushed out to the front apron.

Unsealed garden beds with trees and bushes either side of the apron in front of the station and along the western boundary (both non-irrigated). Rear training yard paved with brick (~70%) and concrete (~30%) used for training and appliance washdown. Two stormwater drains were observed in the rear yard which leads water 550m north to the Phoenix Park Wetlands. A third stormwater drain is located in the central eastern portion of the site.

Stormwater at the site is (and was historically) discharged to the stormwater pond in the trotting track (now the Phoenix Park Wetlands). There have been no changes to the stormwater management at the site over time and stormwater has not been harvested.

4.4 Historical PFAS use

A questionnaire regarding the historical use of AFFF at the site was circulated to MFS staff. The survey was completed on 20 June 2022 by a Senior Fire Fighter, who has been working at the site since 1999, and another firefighter who has been working at the site since 2011. Several other firefighters were interviewed during the site visit on the 9 March 2023. Copies of the completed surveys can be found in Appendix E.

MFS staff did not know the exact date PFAS containing AFFF was first used at the site but it is assumed to have been prior to 1999. The AFFF historically used at the site was branded '3M' and an unknown foam from crystal (in red 20L drums) was used for training purposes.

Historically, training was conducted, at most quarterly each year in the rear training area, which was a paved open yard with drainage to the storm water system. AFFF was not used in regular training exercises. MFS staff were not sure when the last training event including the use of AFFF occurred. The volume of AFFF historically used per training exercise was estimated to be less than 20 L as typically water was used in training exercises. The estimated total volume of AFFF used on site before it was phased out in 2016 was estimated to be less than 120 L. Training may have also occurred within the unsealed paddock immediately south of the site, however this has not been confirmed.

During the training exercises the AFFF was generally pumped and dispersed aerially over the south/west portion of the rear yard on-site. AFFF was not used frequently in either training or on callouts as the time and volume required are often unsuitable for the job.

Foam and wastewater from the training events was flushed into the stormwater system which would direct wastewater off-site. Additionally, wash down for fire trucks, equipment or AFFF containers occurred in the rear yard and wastewater was also discharged to the storm water system off-site. This process has not changed over time.

There is no incident log / register for the site for PFAS related usage or releases.

4.5 Historical storage of PFAS

Historically, both 20 L plastic drums (approximately 20) and 200 L plastic drums (two) with AFFF concentrate were stored on-site at any given time prior to 2016. AFFF was ordered on an as-need basis through the MFS Logistics Store.

AFFF drums were pierced, and foam manually pumped to tanks using a plastic hand pump. This process was noted to be messy with small scale spillages each time this was done. Spent AFFF drums were returned to the store in Adelaide.

4.6 Surrounding land uses

Land use surrounding the site is summarised in Table 4.2 (Refer to Lotsearch Appendix B). 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	<p>North of the site is Phoenix Park/ Port Pirie Harness Racing Club. Surrounding the North and East of the racetrack is the Phoenix Park Wetlands. 21 tennis courts are located West of the racetrack. Port Pirie Netball Association lies at the intersection of Wandearah Road and Grey Terrace.</p> <p>North of the wetlands is a TAFE SA campus, aquatic centre and sports grounds. East of the wetlands is an Aldi store and rail line. West of the wetlands is a tennis club and residential housing.</p>	Community Facilities/ Urban Activity Centre zone/ Employment	Residential
East	Directly east is Pirie Plaza Shopping Centre and various commercial businesses, including a supermarket, service station and auto repairs stores. A football club and oval are southeast of the Shopping Centre.	Employment	Public Institution/ Retail Commercial
South	Immediately south is a mix of commercial and residential properties, including mechanical repairs stores, beauticians, and a pet store. Further southeast is also commercial, with businesses including retail stores, take away restaurants and a fire equipment maintenance store. South and southwest is predominantly residential.	Employment/ Suburban Neighbourhood	Commercial
West	West and northwest of the site are predominantly residential with a few businesses along The Terrace, including a Military Museum, service station and sporting club.	Suburban Neighbourhood / Community Facilities/ Local Activity Centre	Residential

5. Environmental setting

5.1 Topography and Hydrology

The topography of the site and surrounding land is relatively flat. The southern portion of land below the site sits at an elevation just above 10 m AHD and the land has a slight decline towards the north to approximately 8 m AHD (Lotsearch 2023).

The site comprised of mostly sealed surfaces, including buildings, concrete pavers and concrete hardstand, with open garden beds along the northern and western boundaries. Stormwater discharges off-site to underground stormwater via on-site drains. Stormwater drains are located in the rear yard and along both Grey Terrace to the north and Short Street to the west.

5.2 Site drainage

Site drainage is described in section 4.3 above.

5.3 Surface water

The nearest surface waterbody is the Phoenix Park Wetlands located approximately 0.5 km northeast of the site (Lotsearch 2023). The site inspection reported that stormwater discharges to the wetland area as part of a stormwater retention system. Approximately 1.3 km northwest of the site is the Port Pirie Creek which flows north to the Spencer Gulf.

5.4 Geology and Soils

The Lotsearch (2023) report indicated that on-site soils are classified as hydrosol located within the Coastal Plain by the Atlas of Australian Soils. The soil unit comprises saline clays (Uf6.61); lesser areas of crusty loamy soils (Drl.13) on the landward side; and calcareous sands (Uc1.11) along the coast. The on-site geology is described as Undifferentiated Quaternary alluvial/fluvial sediments.

The site lies within a region of high probability (>70%) of potential acid sulphate soil occurrence.

5.5 Hydrogeology

The site is within an area where groundwater aquifers are described as sedimentary rocks with basins including limestone, often cavernous, sandstone, sand shale and clay (Lotsearch 2023). The site lies on a shallow sedimentary groundwater basin (Gov SA 2023).

A search of the South Australian Resources Information Gateway (SARIG 2023) 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 0-0.5 L/second. Groundwater salinity ranged from 35,000 to 200,000 mg/L TDS, indicating highly saline water (>35,000 mg/L).

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

- There were 334 registered wells within a 2.0 km radius
- Of these registered wells, 28 were listed as abandoned, 15 were listed as backfilled, 77 were listed as having an unknown status and no status was listed for 214 wells
- Of the registered wells with unknown or no registered status, 4 were listed as industrial, 93 were listed as investigation, 63 were listed as monitoring, 13 were listed as observation and 93 had no listed purpose
- Of the 43 wells listed as abandoned or backfilled 3 were listed as investigation, 21 were listed as monitoring, 30 were listed as observation, 8 were listed as recharge and 6 had no listed purpose
- TDS data was available for 34 wells within the 2.0 km radius from the site and ranged between 2,827 mg/L and 103,020 mg/L. The five closest wells (<1.0 km) with TDS data less than 30 years old ranged between 7,358 mg/L to 94,520 mg/L

- Reported SWL for all wells were between 0 m bgl (6531-972) and 30 m bgl (6531-1005)

5.6 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
Step 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 was filtered so only recent data (<30 years old) from within the same aquifer was used.	The Lotsearch report listed 334 registered bores within a 2.0 km radius of the site. The five closest wells (<1.0 km) with TDS data less than 30 years old ranged between 7,358 mg/L to 94,520 mg/L, indicating moderately saline (3,000 mg/L - 10,000 mg/L) to hyper-saline (>35,000 mg/L) water.
Step 2: Assess and identify surface water bodies within a 2.0 km buffer of the site.	The nearest water body is the Phoenix Park Wetlands, 0.5 km north of the site and Port Pirie Creek 1.3 km northeast.
Step 3: Review registered groundwater users in the WaterConnect database.	A review of the Water Connect database provided in the Lotsearch report (Appendix B) identified a total of 334 registered bores within a 2.0 km radius of the site. The identified uses of the bores with unknown or no registered status were industrial (4), investigation (93), monitoring (63), observation (13) and no listed purpose (93).
Step 4: Application of 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 Ecological water quality guidelines, interim marine 99% species protection.

The environmental values for the site were identified to include:

- Livestock drinking water, aquaculture and human consumption of aquatic foods (<13,000 mg/L),
- Aquatic ecosystem, recreation and aesthetics (due to proximity to Phoenix Park Wetlands and Port Pirie Creek)

6. Site history searches

6.1 Historical ownership summary

Information regarding the historical ownership of the MFS site was obtained from the historical 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 19 August 2000. Prior to this, ownership of the site was held by Jennings Industries Limited from June 1980.

Relevant details are listed in Table 6.1 below.

Table 6.1 Summary of historical certificates of title

CT	Date	Details
4160/768	17/06/1980	Title issued to Jennings Industries Limited of 1278 South Road Clovelly Park 5042
	14/01/1998	Title cancelled, becomes CT 5491/674
5491/674	14/01/1998	Title issued to South Australian Metropolitan Fire Service of 87 Wakefield Steet Adelaide SA 5000
	19/08/2000	Title cancelled, becomes CT 5800/269

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
1940	The site and majority of its surroundings appears to be vacant with minimal vegetation. Vehicle tracks are visible over the site and surrounding land. West of the site appears to be a developed residential area with a large undeveloped road (present-day Grey Terrace).
1952	Further development of houses and associated backyards to the west of the site are observed. Additional vehicle tracks were visible over the site and surrounding land. The Racecourse (present day Port Pirie Harness Racing Club and Phoenix Park) are visible North of the site.
1957	The site remains vacant land with more vegetation growth and vehicle tracks. Further housing development (although no new constructions) are observed to the west of the site. A fence line associated with the racecourse appears to be constructed to the north-west of the site
1966	Additional developments to the racecourse are observed with buildings and structures appearing to the north-west of the site. A structure has been constructed immediately adjacent to the site along the eastern boundary. Another building has been constructed to the south of the site as well.
1974	Small structures (e.g., sheds) are constructed south of the site. Additional improvements have been made to the racecourse to the north. The site remains undeveloped.
1979	No significant changes from the 1974 aerial photograph.
1988	A structure with a red roof (present day Port Pirie Fire Station) and landscaping works are visible in the northwest corner of the site. The remainder of the site appears to be vacant land. A shopping centre and associated car park has been constructed to the east of the site (present day Pirie Plaza Shopping Centre). Small structures (likely sheds) have also been constructed to the south of the site adjacent the southern boundary.
1998	Further residential developments have been constructed to the south-east of the site, just south of the Pirie Plaza Shopping Centre. Trees have been planted along all boundaries of the site. No other significant changes were observed.
2002	An extension to the concrete (further south) outside the site building was observed to replace the vegetation there previously. Vehicle tracks are visible in the vacant land below the shopping centre (South of the site).

Year	Description
2008	A building (present day SA Ambulance Service) and associated concrete and car parking was constructed in the northeast corner of the site. Further extension of the concrete and construction of three buildings (present day North Region State Emergency Service and Port Pirie State Emergency Services) are observed within the southern portion of the site.
2012	The driveway to the southwestern buildings on-site (North Region State Emergency Service) has been concreted (previously dirt). Land between the Port Pirie Fire Station and North Region State Emergency Service and below the SA Ambulance Service is covered in vegetation. Additional residential developments have been constructed to the west of the site.
2014	No significant changes observed from 2012.
2022	A second building for the North Region State Emergency Service is constructed at the centre of the site.

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 the site contamination index which includes Section 83A Notifications, Audit Notification, Audit Termination and Audit Report since 1 July 2009.

Results from the SA EPA Public Register and Site Contamination index search provided by Lotsearch (Appendix B) are summarised in Table 6.3.

Table 6.3 Summary of SA EPA public register search

Record No.	Record type	Entity	Site Address	Activity	Distance (m)	Direction
50876	LICENCE	EUREKA OPERATIONS PTY LTD	91-95 Grey Terrace, PORT PIRIE SOUTH SA 5540	Petrol stations	0	East
ENL65XSUVH	LICENCE APPLICATION	EUREKA OPERATIONS PTY LTD	91-95 Grey Terrace, PORT PIRIE SOUTH SA 5540	Petrol stations	0	East
51016	LICENCE	L.H. PERRY & SONS PTY. LTD.	280 The Terrace, PORT PIRIE WEST SA 5540	Petrol stations	226	North West
ENL29KNH47	LICENCE APPLICATION	L.H. PERRY & SONS PTY. LTD.	280 The Terrace, PORT PIRIE WEST SA 5540	Petrol stations	226	North West
50866	LICENCE	M.J. & L.A. FUCHS PTY. LTD.	219-223 Senate Road, PORT PIRIE WEST SA 5540	Petrol stations	677	North West
ENL19GNTA9	LICENCE APPLICATION	M.J. & L.A. FUCHS PTY. LTD.	219-223 Senate Road, PORT PIRIE WEST SA 5540	Petrol stations	677	North West
13873	LICENCE	PLASTIC RECYCLERS AUSTRALIA PTY LTD	Albert Terrace, PORT PIRIE SA 5540	Waste recycling depot (waste for resource recovery or transfer)	703	East
LNL33MWEKG	LICENCE APPLICATION	SOUTH AUSTRALIAN WATER CORPORATION	236-238 Senate Road, PORT PIRIE WEST SA 5540	Waste recycling depot (waste for resource recovery or transfer)	713	West

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 5800 Folio 269. Particulars of mortgages, charges and prescribed encumbrances affecting the land, and environmental protection are summarised below.

Regarding the site (CT 5800/269) the EPA had no records of issues associated with the particulars of mortgages, charges or prescribed encumbrances affecting the land.

There were the following particulars relating to environment protection:

- 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 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

Council records were not available for review at the time of preparation of this report, however a review of the available site history, including aerial photographs has not identified any significant unknown land uses in the vicinity of the site. This lack of council records is not considered likely to change the outcome of the preliminary site investigation.

7. Potentially Contaminating Activities

The following potentially contaminating activities (PCAs) with respect to PFAS have been identified as having 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 and use of PFAS-containing firefighting foams	On-site and off-site	PFAS-containing firefighting foams were historically stored and used on-site and off-site in training exercises. This PCA at the site may have impacted concrete slabs, bitumen, pavement, 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 groundwater on- and off-site. Additionally on-site and off-site surface waters and vegetation may be impacted by this PCA.
Washdown of equipment, trucks and appliances and drainage to stormwater	On-site and off-site	After exercises and/or incidents involving AFFF use, appliances, equipment and tanks were washed down in the rear apron of the site. 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 and runoff from the site.
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 these materials within the fire training area to underlying and surrounding soils, groundwater and surface water	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 GHD's 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 excavation and construction activities.

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 use of PFAS containing foams and washdown of vehicles / equipment in the rear training yard on-site
- Ongoing leaching of PFAS from impacted soils beneath the open areas historically used for training activities or the post-incident washing down of appliances. It should be noted that all appliances currently on-site do not contain PFAS and are not considered an on-going risk to human health or the environment.
- Historical, on-site storage of 20L and 200L plastic drums of PFAS-containing firefighting foams
- Ongoing leaching of PFAS from impacted surfaces (concrete slabs, bitumen and pavement) associated with fire training and wash down activities

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:

- Abstraction and consumption of contaminated groundwater
- Consumption of contaminated edible vegetation (off-site)

- 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 areas, including surface water bodies

8.4 Receptors

The potential receptors relevant to 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 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 and consumption of edible vegetation (off-site)
- 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
- People using off-site surface water bodies (fishing and recreation) where stormwater systems and/or groundwater discharge, such as the Phoenix Park Wetlands or Port Pirie Creek
- Off-site groundwater abstraction and use for livestock drinking water, aquaculture and human consumption of aquatic foods

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	Unlikely PFAS concentrations detected to date in on-site soils were below the adopted Tier 1 HIL B for residential minimal soil accessibility land use and therefore also below the HIL D for commercial/industrial sites. It is considered unlikely that site users, visitors, maintenance or construction workers would be exposed to PFAS quantities detrimental to their health. 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 two soil on-site (GHD 2018) exceeded the adopted Tier 1 interim ecological criteria for indirect exposure. The unsealed areas of the site are accessible to flora and fauna although it is noted that the site is in a heavily developed area and unlikely of high ecological value.
		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	Likely 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 and training exercise foam to soak into the ground it is possible that this has infiltrated into groundwater	
On-site PFAS impacted concrete and bitumen surfaces	Site users, visitors, maintenance and construction workers	Direct dermal contact with contaminated concrete or bitumen	Unlikely 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. It is considered unlikely that site users, visitors, maintenance or construction workers would be exposed to PFAS quantities detrimental to their health.
		Inhalation of contaminated dust	
	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.
Off-site PFAS impacted soils	Off-site users of the area inclusive of maintenance and subsurface construction workers	Direct dermal contact with contaminated soil	Possible PFAS concentrations detected to date in two on-site soil samples were below the adopted Tier 1 HIL B for residential minimal soil accessible land use and therefore the HIL D for commercial/industrial landuse. Surrounding off-site land uses are predominantly commercial/industrial, with the exception of land to the west which is low density residential (HIL A). The potential for PFAS impacts in off-site soils has not been determined yet.
		Incidental ingestion of contaminated soil	
		Inhalation of contaminated soil or dust from disturbed soils	

Potential source	Receptor	Pathway	Pathway present?
	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 may have extended beyond the site boundaries</p>
		Ingestion of contaminated soil	
	Groundwater beneath impacted 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	Rainwater / surface runoff leaching impacted soil followed by migration through porous media into groundwater	<p>No</p> <p>The presence of PFAS impacts in groundwater has not been confirmed. TDS data was available for 34 wells within the 2.0 km radius from the site and ranged between 2,827 mg/L and 103,020 mg/L, indicating saline water which precludes the use of groundwater for drinking purposes.</p>
	People using groundwater for irrigation of edible vegetation with which they grow produce for consumption	Consumption of edible vegetation irrigated by contaminated groundwater	<p>No</p> <p>TDS data was available for 34 wells within the 2.0 km radius from the site and ranged between 2,827 mg/L and 103,020 mg/L, indicating saline water which is not suitable for irrigation.</p>
	People growing edible vegetation in open soil which may interact with groundwater	Consumption of PFAS impacted edible vegetation	<p>On-site: No</p> <p>The MFS have removed all edible vegetation and biota from the site.</p>
			<p>Off-site: Unlikely</p> <p>The presence of PFAS impacts in groundwater has not been confirmed and residential properties with gardens where edible vegetation could be grown are present within 2.0 km of the site. Soils coming into contact with the groundwater in proximity of the site would not likely support plant growth due to salinity levels.</p>
	People using groundwater for recreational purposes such as filling of swimming pools	Direct dermal contact or incidental ingestion of contaminated groundwater	<p>Unlikely</p> <p>The presence of PFAS impacts in groundwater has not been confirmed. Unknown well purposes means that recreation use of groundwater cannot be precluded but is considered unlikely due to salinity levels.</p>
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>Unlikely</p> <p>The presence of PFAS impacts in groundwater has not been confirmed. 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.</p>	

Potential source	Receptor	Pathway	Pathway present?
	Marine ecosystems downstream from the site	Migration and discharge of contaminated groundwater into marine ecosystems	Unlikely The presence of PFAS impacts in groundwater has not been confirmed. The distance from the site to the nearest marine ecosystem (Port Pirie River/Estuary) is approximately 1.3 km from the site and concentrations that may present a risk are unlikely to migrate this distance.
	Livestock watering, aquaculture or human consumption of aquatic foods	Abstraction of groundwater	Unlikely The presence of PFAS impacts in groundwater has not been confirmed. No registered agricultural wells or activities in close proximity to the site however it cannot be ruled out at this stage.
PFAS impacted surface waters (off-site)	People using surface waters for recreational activities (swimming)	Incidental ingestion of contaminated groundwater	Unlikely The potential for PFAS impacts in surface water down gradient of the site has not been determined however it is considered unlikely that it would be present in concentrations that may present a risk due to dilution.
	People Fishing from surface waters	Consumption of PFAS contaminated biota	Possible The potential for PFAS impacts in surface water down gradient of the site has not been determined however it is considered possible that bioaccumulation of PFAS in fish and other marine animals and subsequent consumption may present a human health risk.
	Marine ecosystems downstream from the site	Discharge of PFAS impacted surface water into the marine environment	Possible The potential for PFAS impacts in surface water down gradient of the site has not been determined however it is considered possible given the training using AFFF that was undertaken at the site and surface water runoff being discharged to a local storm water retention wetland that then discharges to the Port Pirie Creek.

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 soil across the site has not been delineated
- The existence of PFAS contamination in groundwater has not been determined
- The existence of PFAS contamination in off-site surface water bodies has not been determined
- The potential for PFAS to leach from contaminated on-site soil into the groundwater has not been tested yet
- The existence of PFAS contamination in on-site concrete and paved surfaces and the associated PFAS flux from these materials has not been assessed
- While unlikely due to salinity levels, the potential for beneficial groundwater use (recreational or agricultural) has not been confirmed

9. Conclusions

GHD was engaged by the MFS to undertake a desktop PSI for the fire station located at 97 Grey Terrace, Port Pirie South, SA 5540.

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

- Documented information confirmed the storage of PFAS containing AFFF at the site prior to 1999
- Minimal soil sampling has been undertaken on-site with samples reporting results below the adopted HIL B assessment criteria, however exceeded the ecological indirect exposure guidelines in two samples
- 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
- Contaminated surface water runoff into downstream surface water bodies and marine environments
- Incidental ingestion of contaminated surface water during recreational activities
- Bioaccumulation in marine environments and consumption of PFAS contaminated marine biota

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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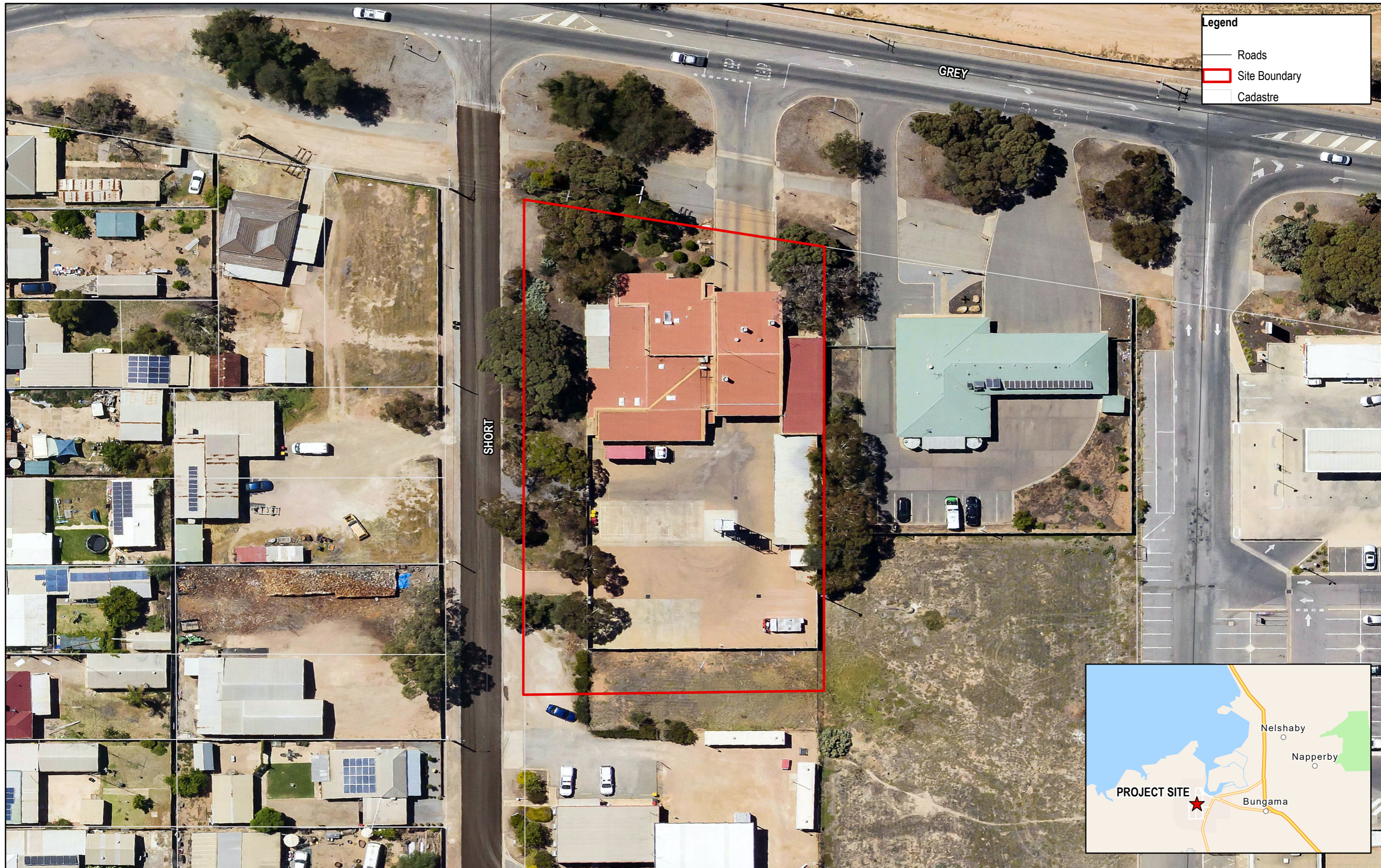
Figures

Figure 1 *Site Location Plan*

Figure 2 *Historical Sampling Locations*

Figure 3 *Site Layout Plan*

Figure 4 *Surrounding land use*



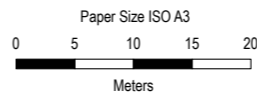
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- Roads
- ▭ Site Boundary
- ▭ Cadastre

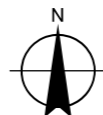


Data Disclaimer

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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 09/05/2023

Port Pirie Site Location Plan

FIGURE 1

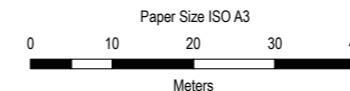


Legend

- Soil Sampling Locations
- Roads
- Site Boundary
- Cadastre

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Horizontal Datum: GDA 1994
Grid: GDA 1994 MGA Zone 54



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

Port Pirie Historical
Sampling Locations Plan 2019

Project No. 12602101
Revision No. A
Date 10/05/2023

FIGURE 2

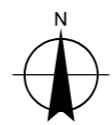
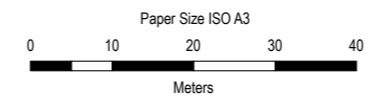


Legend

- Stormwater Pit
- Roads
- AFFF Storage
- Historical Training Area
- Wash Down Bay
- Fuel & Oil Storage
- Site Boundary
- Cadastrate

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 Horizontal Datum: GDA 1994
 Grid: GDA 1994 MGA Zone 54

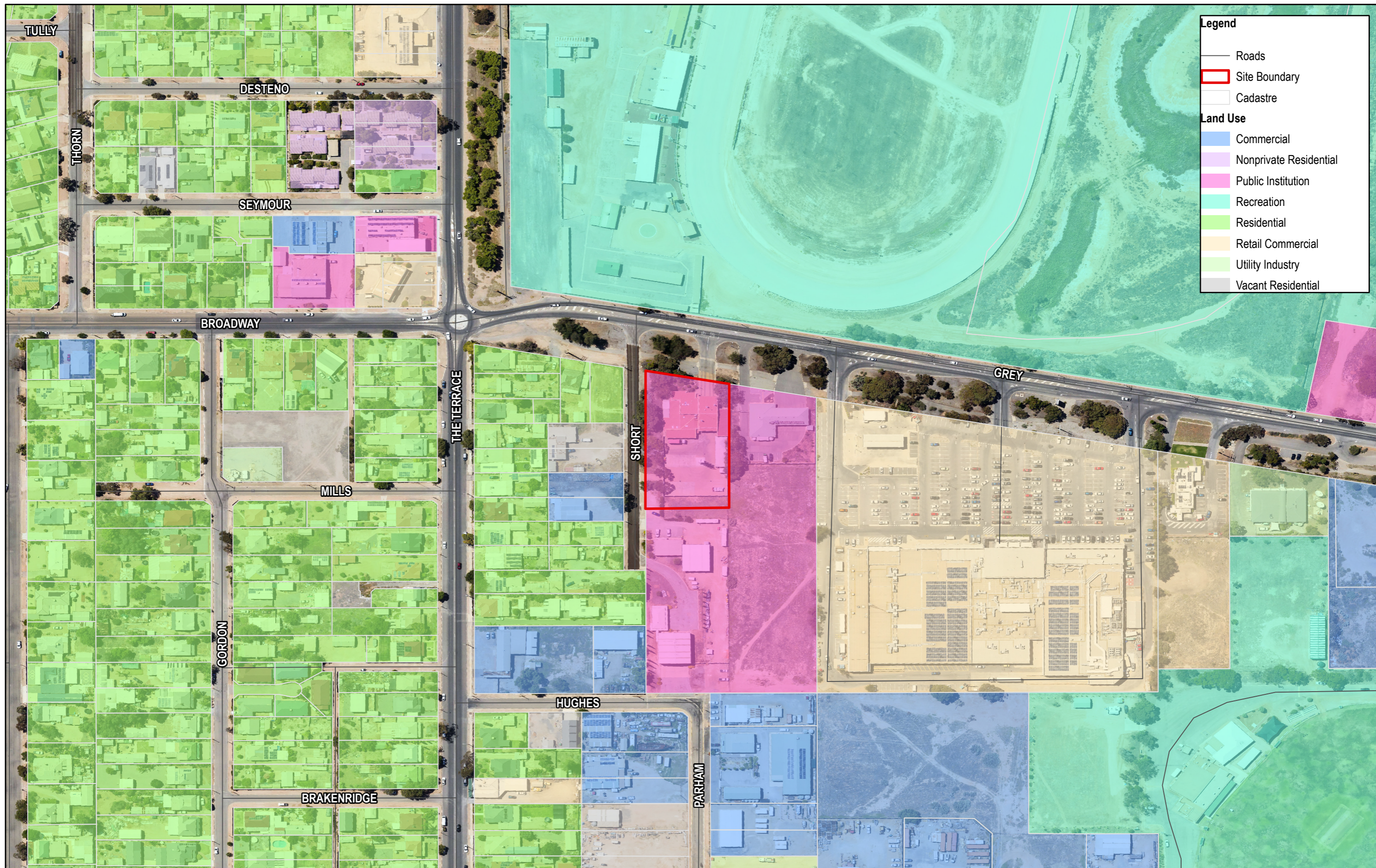


**South Australian Metropolitan Fire Service
 PSI/SAQP for MFS High Risk Sites**

Project No. **12602101**
 Revision No. **A**
 Date **10/05/2023**

Port Pirie Site Layout Plan

FIGURE 3



Legend

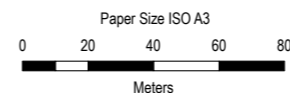
- Roads
- ▭ Site Boundary
- ▭ Cadastre

Land Use

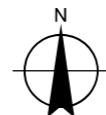
- ▭ Commercial
- ▭ Nonprivate Residential
- ▭ Public Institution
- ▭ Recreation
- ▭ Residential
- ▭ Retail Commercial
- ▭ Utility Industry
- ▭ Vacant Residential

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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 10/05/2023

**Port Pirie
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

A handwritten signature in cursive script that reads '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 LS040254 EP



LOTSEARCH

LOTSEARCH ENVIRO PROFESSIONAL

Date: 10 Feb 2023 11:03:15

Reference: LS040254 EP

Address: 97 Grey Terrace, Port Pirie South, SA 5540

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	06/01/2023	06/01/2023	Monthly	1000m	1	1	15
EPA Environmental Protection Orders	EPA South Australia	25/01/2023	25/01/2023	Monthly	1000m	0	0	1
EPA Environmental Authorisations	EPA South Australia	25/01/2023	25/01/2023	Monthly	1000m	0	2	8
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	13/12/2022	13/12/2022	Monthly	2000m	0	0	0
Defence 3 Year Regional Contamination Investigation Program	Department of Defence	02/09/2022	02/09/2022	Quarterly	2000m	0	0	0
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	0
National Liquid Fuel Facilities	Geoscience Australia	23/08/2022	15/03/2012	Annually	1000m	0	0	3
Historical Business Directories (Premise & Intersection Matches)	Hardie Grant, Sands & McDougall			Not required	100m	0	18	18
Historical Business Directories (Road & Area Matches)	Hardie Grant, Sands & McDougall			Not required	100m	-	5	5
UBD Business Directory Dry Cleaners & Motor Garages/Service Stations (Premise & Intersection Matches)	Hardie Grant, Sands & McDougall			Not required	250m	0	0	1
UBD Business Directory Dry Cleaners & Motor Garages/Service Stations (Road & Area Matches)	Hardie Grant, Sands & McDougall			Not required	250m	-	0	5
Mines and Mineral Deposits	Department for Energy and Mining	18/10/2022	18/10/2022	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	334
Surface Geology 1:100,000	Department for Energy and Mining	12/07/2018	01/07/2018	As required	1000m	1	1	2
Geological Linear Structures 1:100,000	Department for Energy and Mining	12/07/2018	01/07/2018	As required	1000m	0	0	0
Atlas of Australian Soils	ABARES	19/05/2017	17/02/2011	As required	1000m	1	1	1
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	1
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	13/12/2022	23/06/2022	Monthly	1000m	1	3	11
Planning and Design Code - Subzones	Attorney-General's Department	13/12/2022	20/01/2022	Monthly	1000m	0	0	0
Land Use Generalised 2020	Department of Planning, Transport and Infrastructure	18/10/2022	07/03/2022	Annually	1000m	1	6	11
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	13/12/2022	13/12/2022	Monthly	1000m	0	0	1
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	13/12/2022	13/12/2022	Monthly	1000m	3	3	3
Groundwater Dependent Ecosystems Atlas	Bureau of Meteorology	28/10/2022	26/10/2022	Annually	1000m	0	0	1
Inflow Dependent Ecosystems Likelihood	Bureau of Meteorology	28/10/2022	26/10/2022	Annually	1000m	0	0	1
Ramsar Wetland Areas	Department for Environment and Water	28/03/2022	18/02/2020	Annually	1000m	0	0	0

Site Diagram

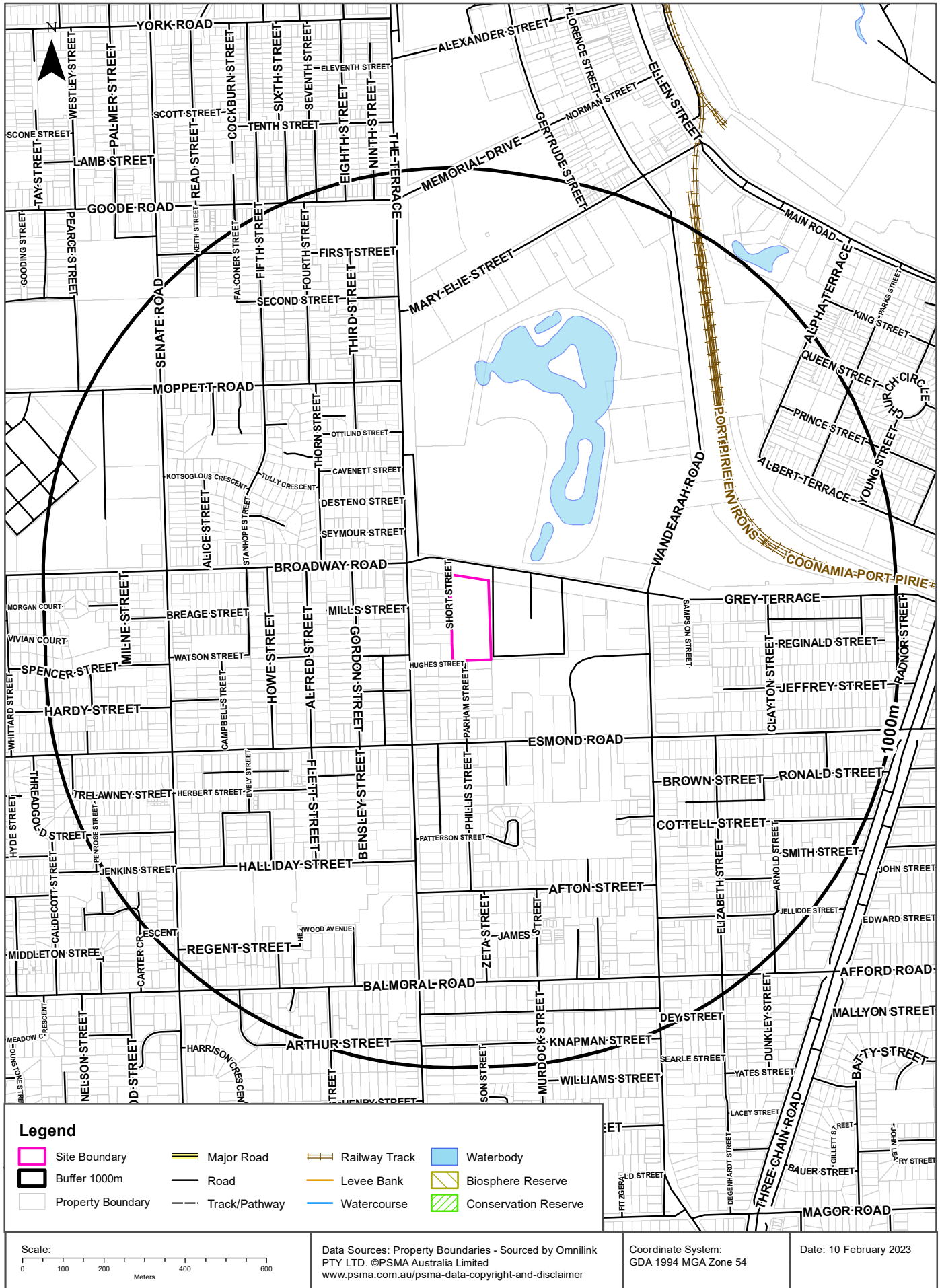
97 Grey Terrace, Port Pirie South, SA 5540



<p>Legend</p> <ul style="list-style-type: none"> ▭ Site Boundary ▭ Internal Parcel Boundaries 	<p>Total Area: 19297m²</p> <p>Total Perimeter: 599m</p> <p>Disclaimers:</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>0 25 50 Meters</p> <p>Data Source Aerial Imagery: © Aerometrex Pty Ltd</p> <p>Coordinate System: GDA 1994 MGA Zone 54</p> <p>Date: 10 February 2023</p>
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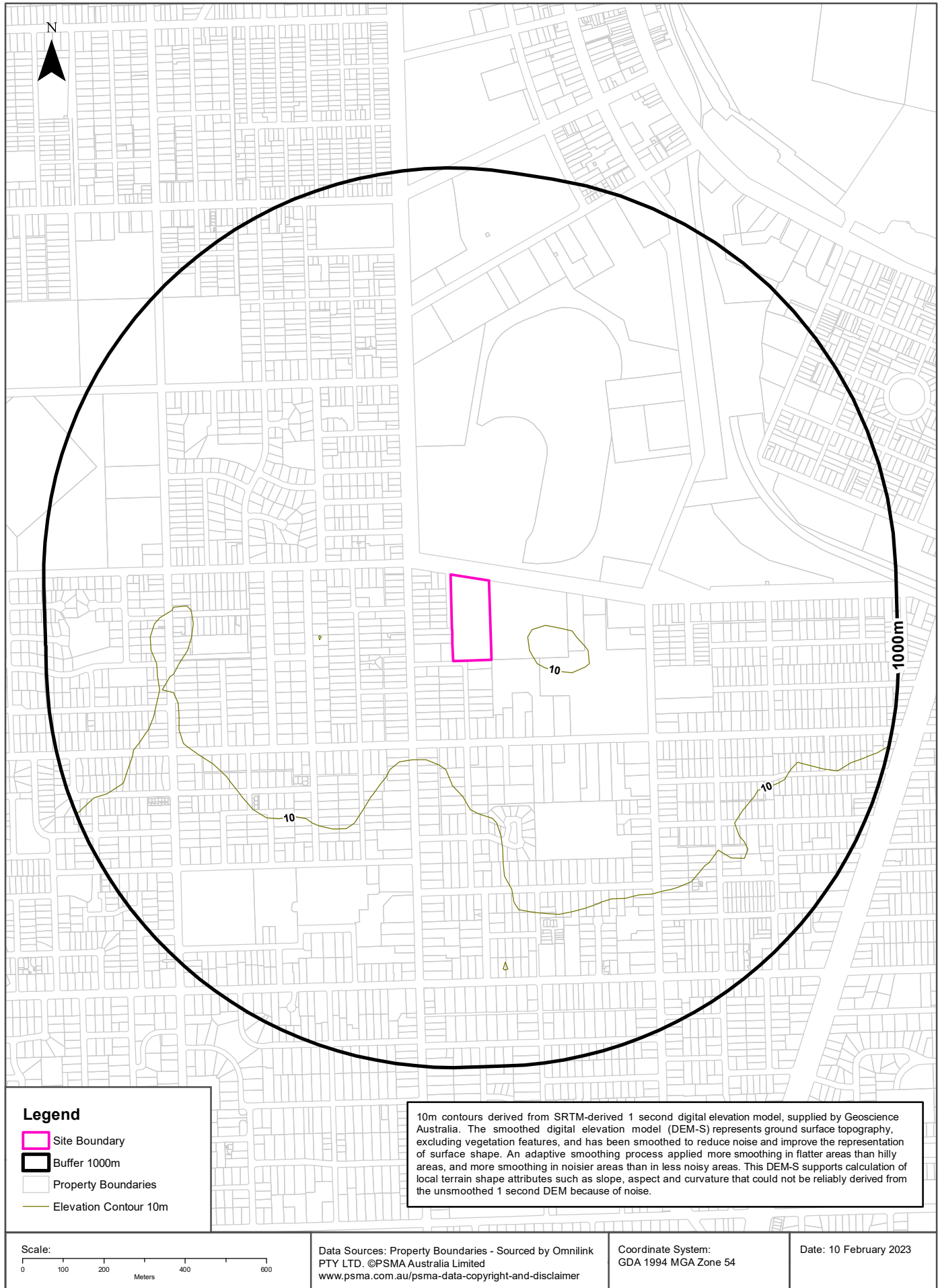
Topographic Features

97 Grey Terrace, Port Pirie South, SA 5540



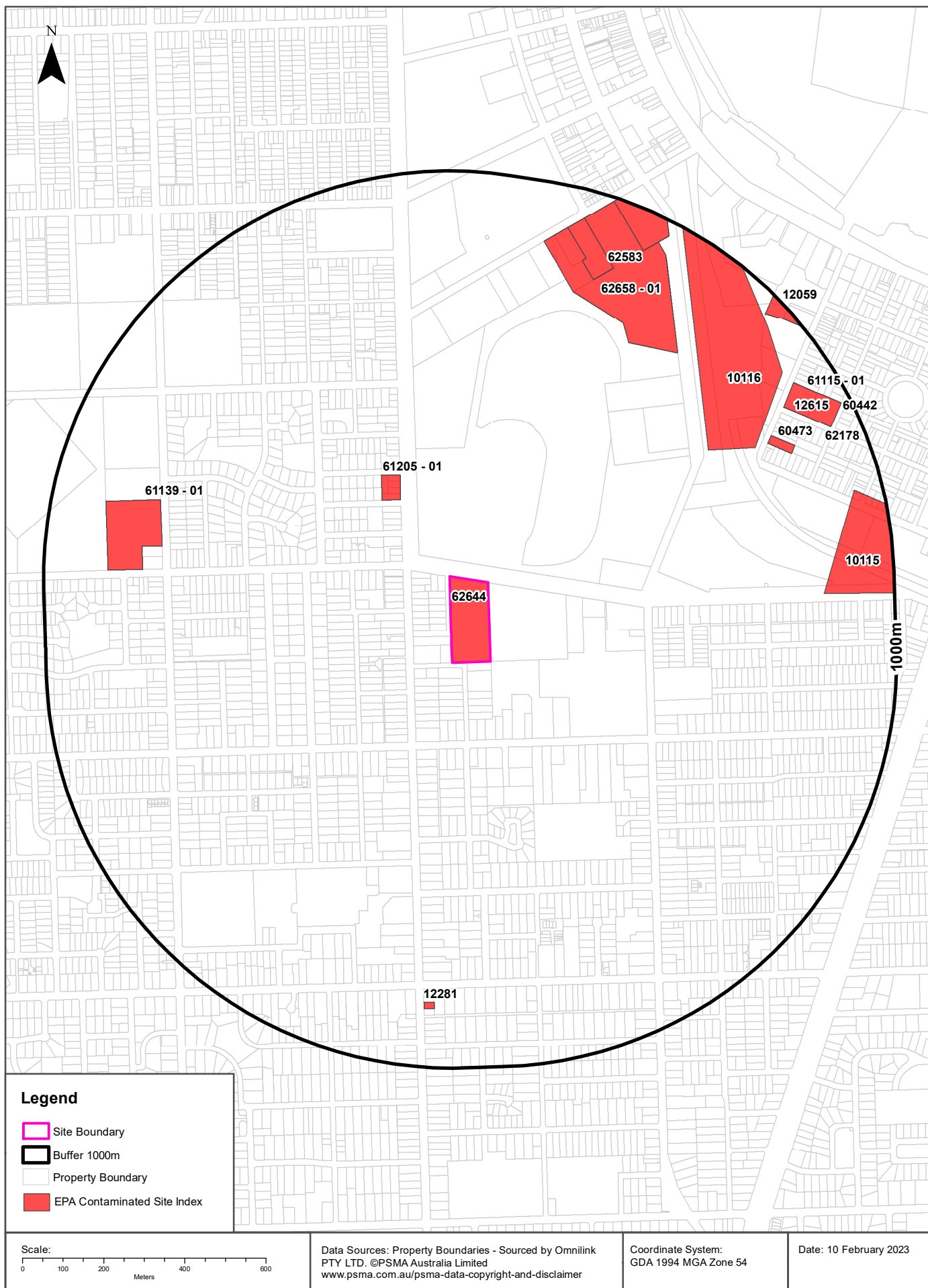
Elevation Contours

97 Grey Terrace, Port Pirie South, SA 5540



EPA Site Contamination Index

97 Grey Terrace, Port Pirie South, SA 5540



EPA Contaminated Land

97 Grey Terrace, Port Pirie South, SA 5540

EPA Site Contamination Index

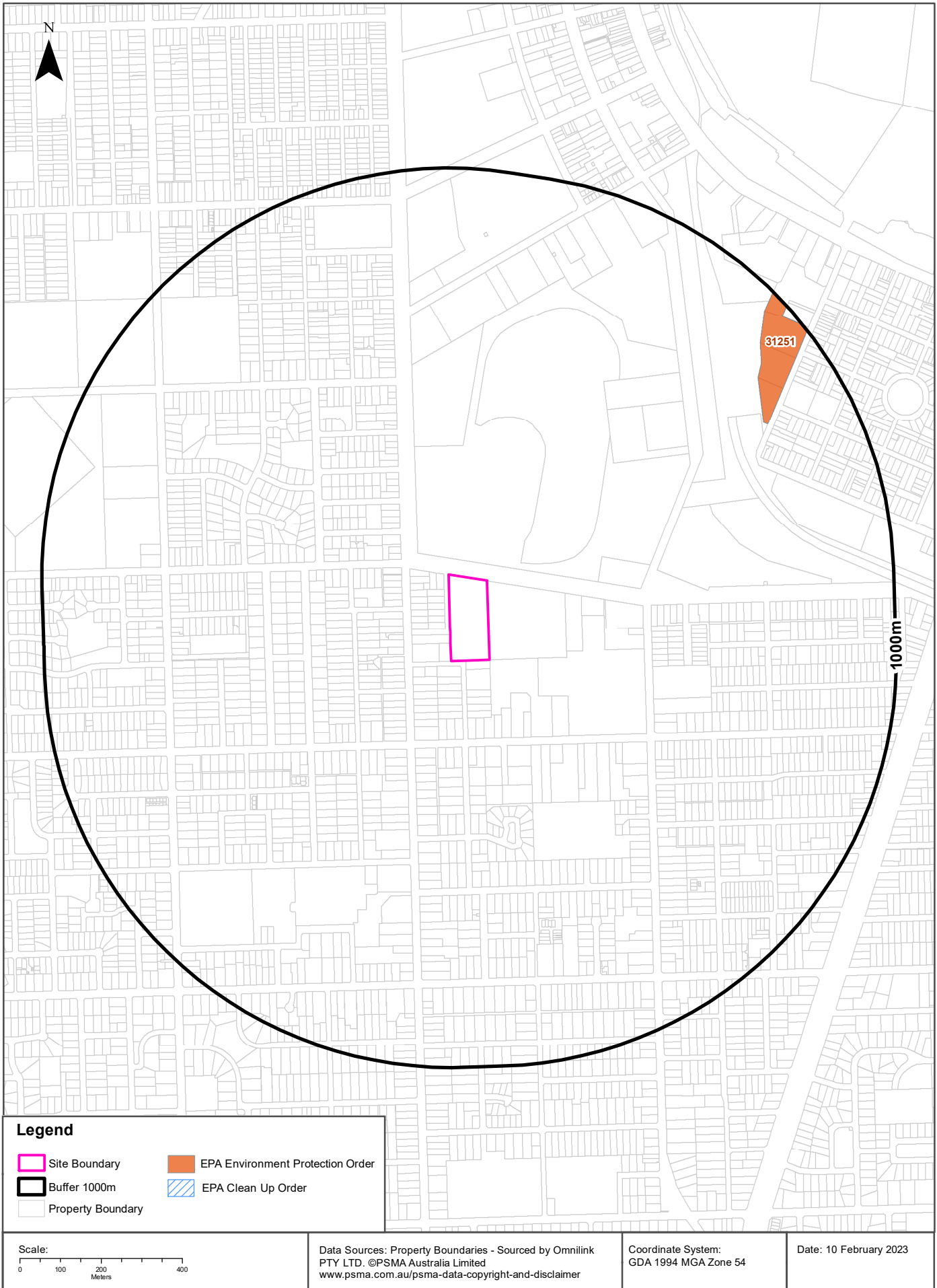
Sites on the EPA Contamination Index within the dataset buffer:

Notification No	Type	Address	Activity	Status	LocConf	Dist	Dir
62644	109 Notification	97 Grey Terrace PORT PIRIE SOUTH SA 5540	Fire stations; Fire training areas	Current EPA List	Premise Match	0m	On-site
61205 - 01	S83A Notification	280 The Terrace PORT PIRIE SA 5540	Service stations	Current EPA List	Premise Match	226m	North West
10116	109 Notification	Wandearah Road PORT PIRIE SA 5540	Railway operations	Current EPA List	Premise Match	632m	North East
62583	109 Notification	Lot 1067 Mary Elie Street PORT PIRIE SA 5540	Not recorded	Current EPA List	Premise Match	685m	North East
62658 - 01	S83A Notification	Lots 1067, 1166, 1299 & 40 Mary Elie Street PORT PIRIE SA 5540	Electricity generation or power plants; Fill or soil importation	Current EPA List	Premise Match	685m	North East
61139 - 01	S83A Notification	236-238 Senate Road PORT PIRIE WEST SA 5540	Works depots	Current EPA List	Premise Match	713m	West
60473	109 Notification	Lot 65 Alpha Terrace SOLOMONTOWN SA 5540	Fill or soil importation	Current EPA List	Premise Match	769m	North East
10115	109 Notification	Albert Terrace PORT PIRIE SA 5540	Railway operations	Current EPA List	Premise Match	825m	East
12281	SAHC	Allotment 2 The Terrace PORT PIRIE SA 5540	Not recorded	Current EPA List	Premise Match	837m	South
12615	109 Notification	51-53 Alpha Terrace PORT PIRIE SA 5540	Gasworks	Current EPA List	Premise Match	846m	North East
60442	Audit Notification	51-53 Alpha Terrace SOLOMONTOWN SA 5540	Not recorded	Current EPA List	Premise Match	846m	North East
60442	Audit Termination	51-53 Alpha Terrace SOLOMONTOWN SA 5540	Not recorded	Current EPA List	Premise Match	846m	North East
61115 - 01	S83A Notification	51-53 Alpha Terrace SOLOMONTOWN SA 5540	Gasworks	Current EPA List	Premise Match	846m	North East
62178	Audit Notification	51-53 Alpha Terrace SOLOMONTOWN SA 5540	Gasworks	Current EPA List	Premise Match	846m	North East
12059	SAHC	Lots 502-504 & 505-506 Solomontown & Alpha Roads PORT PIRIE SA 5540	Not recorded	Current EPA List	Premise Match	951m	North East

Site Contamination Index Data Source: EPA South Australia

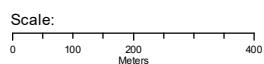
EPA Environment Protection and Clean Up Orders

97 Grey Terrace, Port Pirie South, SA 5540



Legend

- Site Boundary
- EPA Environment Protection Order
- Buffer 1000m
- EPA Clean Up Order
- Property Boundary



Data Sources: Property Boundaries - Sourced by Omnilink
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Coordinate System:
GDA 1994 MGA Zone 54

Date: 10 February 2023

EPA Public Register

97 Grey Terrace, Port Pirie South, SA 5540

EPA Environment Protection and Clean Up Orders

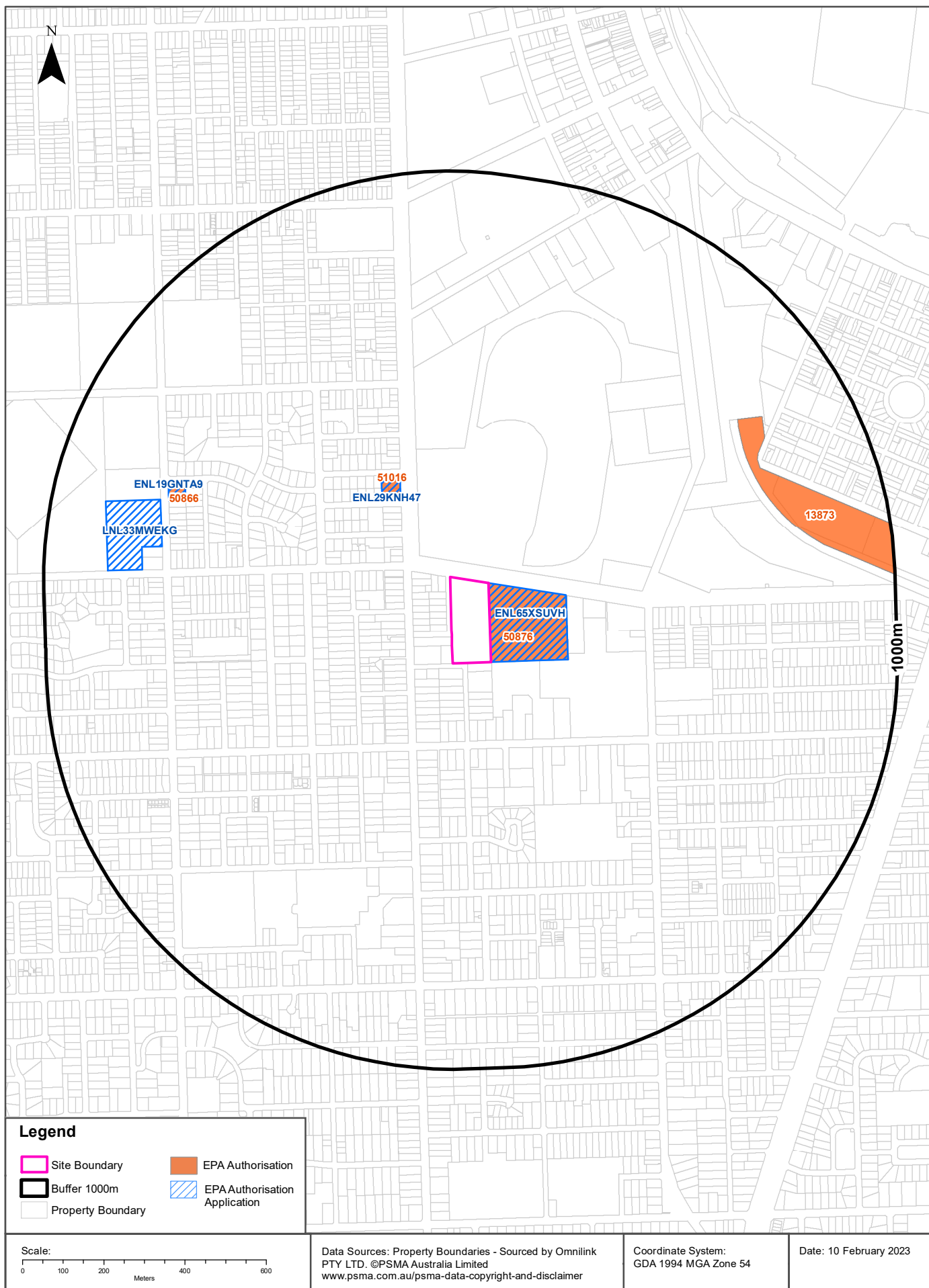
EPA Environment Protection and Clean Up Orders, within the dataset buffer:

Record No.	Record Type	Record Status	Entity	Site Address	Activity	EPA Register Status	LocConf	Dist	Dir
31251	ENVIRONMENT PROTECTION ORDER	ISSUED	Malcolm Johnson Nominees Pty Ltd	2 Alpha Terrace, Port Pirie SA 5540	Caused or permitted the receipt, storage and disposal of waste at the property, without an environmental authorisation (licence).	Current EPA Register	Premise Match	783m	North East

Authorisations Data Source: EPA South Australia

EPA Authorisations and Applications

97 Grey Terrace, Port Pirie South, SA 5540



EPA Public Register

97 Grey Terrace, Port Pirie South, SA 5540

EPA Authorisations and Applications

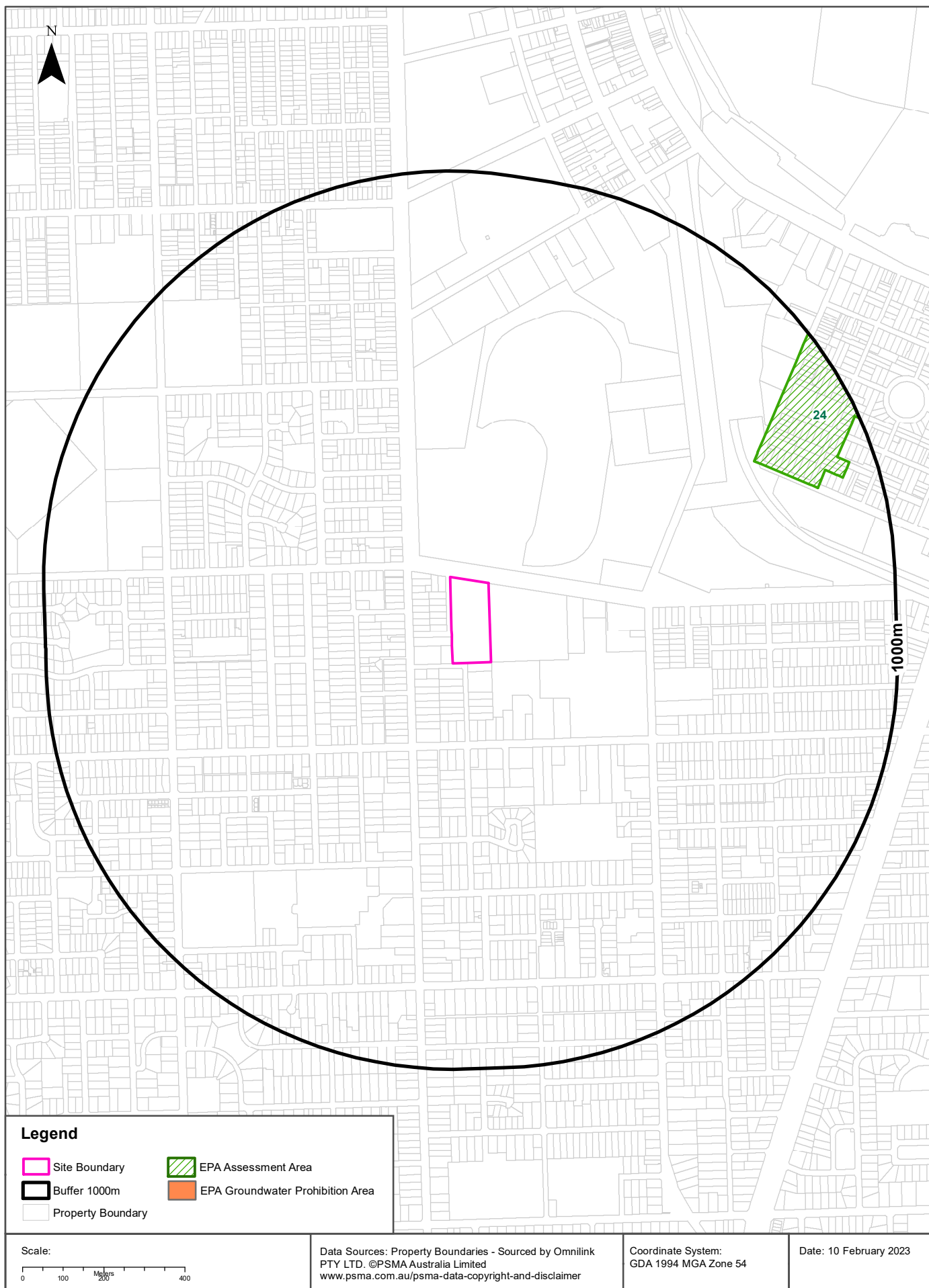
EPA Authorisations and Authorisation Applications within the dataset buffer:

Record No.	Record Type	Record Status	Entity	Site Address	Activity	EPA Register Status	LocConf	Dist	Dir
50876	LICENCE	Issued	EUREKA OPERATIONS PTY LTD	91-95 Grey Terrace, PORT PIRIE SOUTH SA 5540	Petrol stations	Current EPA Register	Premise Match	0m	East
ENL65 XSUVH	LICENCE APPLICATION	Authorisation Updated	EUREKA OPERATIONS PTY LTD	91-95 Grey Terrace, PORT PIRIE SOUTH SA 5540	Petrol stations	Current EPA Register	Premise Match	0m	East
51016	LICENCE	Issued	L.H. PERRY & SONS PTY. LTD.	280 The Terrace, PORT PIRIE WEST SA 5540	Petrol stations	Current EPA Register	Premise Match	226m	North West
ENL29 KNH47	LICENCE APPLICATION	Authorisation Updated	L.H. PERRY & SONS PTY. LTD.	280 The Terrace, PORT PIRIE WEST SA 5540	Petrol stations	Current EPA Register	Premise Match	226m	North West
50866	LICENCE	Issued	M.J. & L.A. FUCHS PTY. LTD.	219-223 Senate Road, PORT PIRIE WEST SA 5540	Petrol stations	Current EPA Register	Premise Match	677m	North West
ENL19 GNTA9	LICENCE APPLICATION	Authorisation Updated	M.J. & L.A. FUCHS PTY. LTD.	219-223 Senate Road, PORT PIRIE WEST SA 5540	Petrol stations	Current EPA Register	Premise Match	677m	North West
13873	LICENCE	Issued	PLASTIC RECYCLERS AUSTRALIA PTY LTD	Albert Terrace, PORT PIRIE SA 5540	Waste recycling depot (waste for resource recovery or transfer)	Current EPA Register	Premise Match	703m	East
LNL33 MWEK G	LICENCE APPLICATION	Processing	SOUTH AUSTRALIAN WATER CORPORATION	236-238 Senate Road, PORT PIRIE WEST SA 5540	Waste recycling depot (waste for resource recovery or transfer)	Current EPA Register	Premise Match	713m	West

Authorisations Data Source: EPA South Australia

EPA Assessment and Groundwater Prohibition Areas

97 Grey Terrace, Port Pirie South, SA 5540



EPA Assessment and Groundwater Prohibition Areas

97 Grey Terrace, Port Pirie South, SA 5540

EPA Assessment Areas

EPA Assessment Areas within the dataset buffer:

Map Id	Supplied Ref	Area Name	Map Link	Status	Location Confidence	Distance	Direction
24	4771209	Solomontown, Port Pirie	https://www.epa.sa.gov.au/environmental_info/site_contamination/assessment_areas/solomontown_port_pirie	Current	Premise Match	719m	North East

Assessment Areas Data Source: EPA South Australia

EPA Assessment and Groundwater Prohibition Areas

97 Grey Terrace, Port Pirie South, SA 5540

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 & Management Programs

97 Grey Terrace, Port Pirie South, SA 5540

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
N/A	No records in buffer				

Airservices Australia National PFAS Management Program Data Custodian: Airservices Australia

Defence Sites

97 Grey Terrace, Port Pirie South, SA 5540

Defence 3 Year Regional Contamination Investigation Program

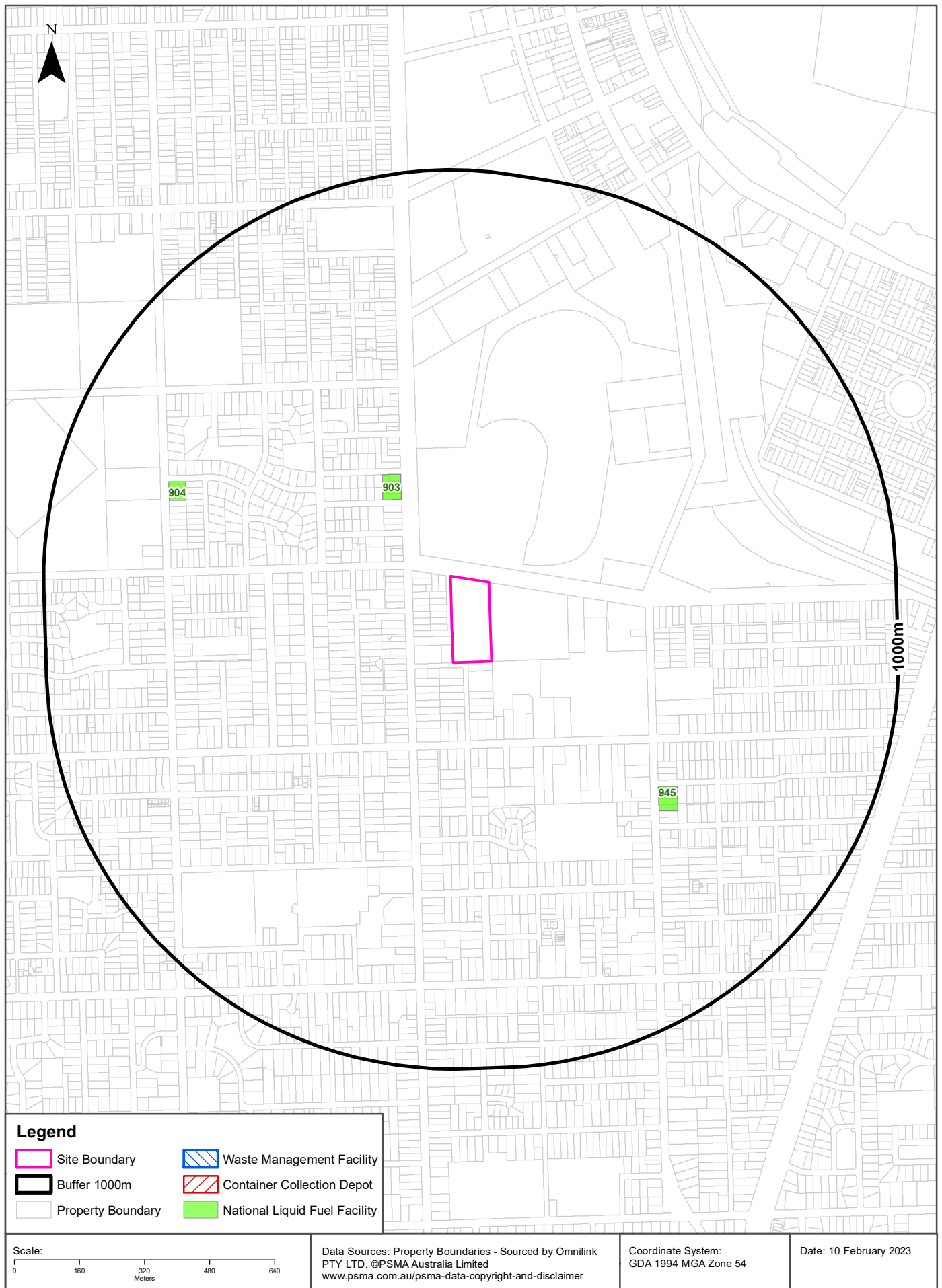
Sites which have been assessed as part of the Defence 3 Year Regional Contamination Investigation Program within the dataset buffer:

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

97 Grey Terrace, Port Pirie South, SA 5540



Waste Management and Liquid Fuel Facilities

97 Grey Terrace, Port Pirie South, SA 5540

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

EPA Approved Container Collection Depots

EPA approved container collection depots within the dataset buffer:

MapId	Name	Address	Suburb	Loc Conf	Distance	Direction
N/A	No records in buffer					

Collection Depot Data Source: EPA South Australia

National Liquid Fuel Facilities

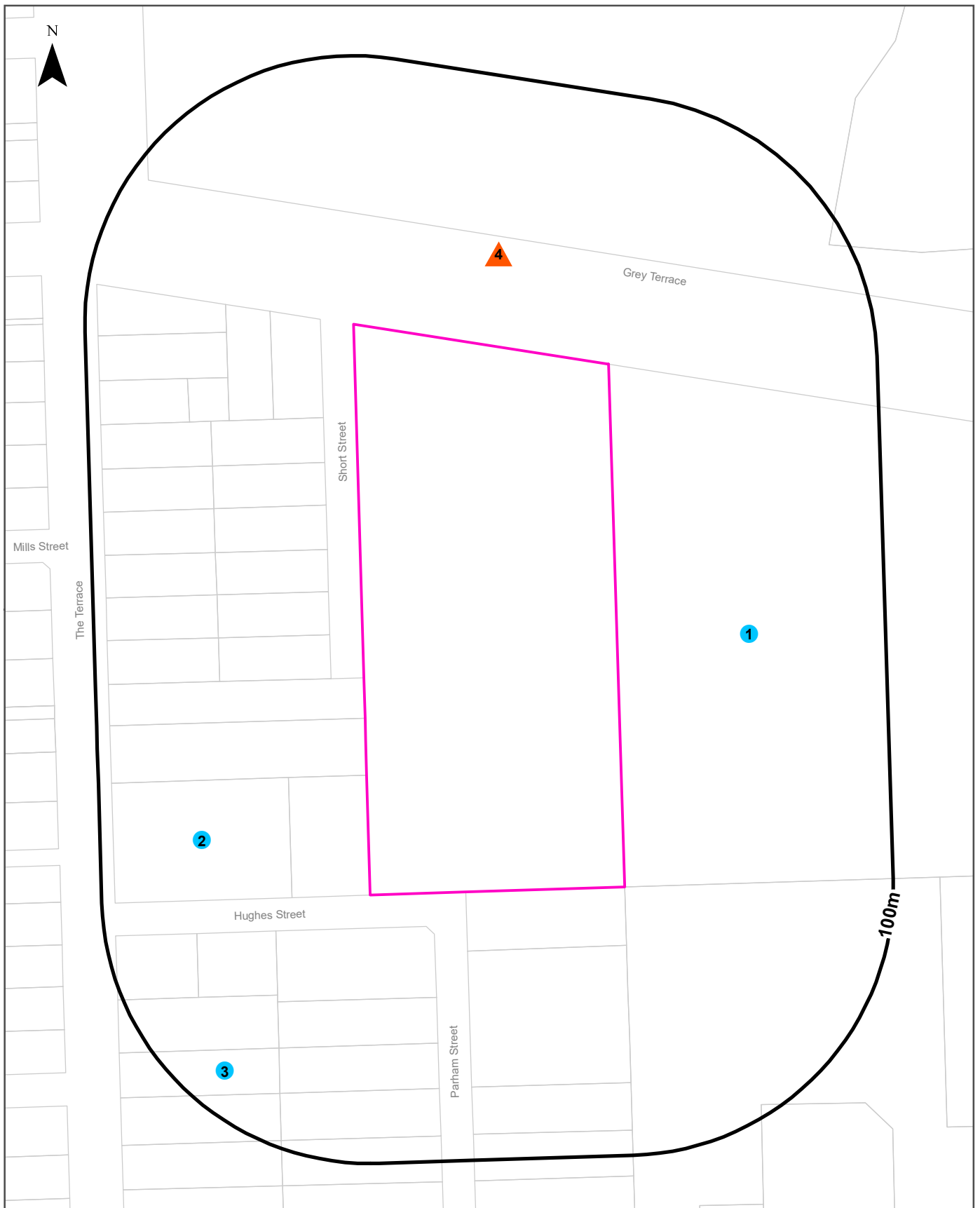
National Liquid Fuel Facilities within the dataset buffer:

Map Id	Owner	Name	Address	Suburb	Class	Operational Status	Operator	Revision Date	Loc Conf	Dist	Dir
903	7-Eleven Pty Ltd	Mobil Port Pirie	280 The Terrace	Port Pirie West	Petrol Station	Operational		13/07/2012	Premise Match	226m	North West
945	Shell	Toyo	43 Wandearah Road	Port Pirie	Petrol Station	Operational		25/07/2011	Premise Match	511m	South East
904	7-Eleven Pty Ltd	Mobil Port Pirie	219-223 Senate Road	Port Pirie West	Petrol Station	Operational		13/07/2012	Premise Match	677m	North West

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

97 Grey Terrace, Port Pirie South, SA 5540



Legend <ul style="list-style-type: none"> 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 <hr/> Date: 10 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

97 Grey Terrace, Port Pirie South, SA 5540

Business Directory Records 1910-1991 Premise or Road Intersection Matches

Universal Business Directory and Sands & McDougall Directory records, from years 1991, 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	SUPERMARKETS.	Coles New World. Pirie Plaza, Grey Tce.. Port Pirie	14931	1991	Premise Match	0m	East
	DEPARTMENTAL STORES.	Coles. G. J. & Co. Ltd, Pirie Plaza, Grey Tce.. Port Pirie	14523	1991	Premise Match	0m	East
	DELICATESSENS.	Eats & Treats, Pirie Plaza, Grey Tce., Port Pirie	14509	1991	Premise Match	0m	East
	PHOTOGRAPHIC EQUIPMENT &/OR SUPPLIES RETAIL.	Foto-Gear. Pirie Plaza, Grey Tce Port Pirie	14849	1991	Premise Match	0m	East
	BAKER	Hans Continental Bakehouse, Port Pirie Plaza. Grey Tce , Port Pirie	14353	1991	Premise Match	0m	East
	DEPARTMENTAL STORES.	K Mart. Pirie Plaza, Grey Tce., Port Pirie	14524	1991	Premise Match	0m	East
	OPTOMETRISTS	Laubman & Pank, Pirie Plaza, Grey Tce.. Port Pirie	14835	1991	Premise Match	0m	East
	SPORTS GOODS-RETAIL.	Madigan's Sports Power. Pirie Plaza, Grey Tce., Port Pirie	14923	1991	Premise Match	0m	East
	CHEMISTS-PHARMACEUTICAL.	Pirie Plata Pharmacy, Pirie Plaza. Grey Tce. Port Pirie	14448	1991	Premise Match	0m	East
	NEWSAGENTS.	Pirie Plaza Newsagency Pty. Ltd, Pirie Plaza. Grey Tce., Port Pirie	14821	1991	Premise Match	0m	East
	CLOTHING-RETAIL-JEANS & DENIMS.	Pirie Plaza Pharmacy, Pirie Plaza, Grey Tce., Port Pirie	14471	1991	Premise Match	0m	East
	HAIRDRESSERS-MENS.	Plaza Hair Studio. Pirie Plaza, Grey Tce.. Port Pirie	14649	1991	Premise Match	0m	East
	HAIRDRESSERS-LADIES &/OR BEAUTY SALONS.	Plaza Hair Studio. Pirie Plaza, Grey Tee . Port Pirie	14638	1991	Premise Match	0m	East
	RECORD &/OR CASSETTE BARS.	Trak Records. Pirie Plaza, Grey Tce.. Port Pirie	14867	1991	Premise Match	0m	East
	CLOTHING-RETAIL-LADIES &/OR GIRLS WEAR.	Trendy Lady Boutique, Pirie Plaza, Grey Tce., Port Pirie	14477	1991	Premise Match	0m	East
2	MOTOR ACCESSORIES-RETAIL.	Will's Auto Shop, 325 The Terrace. Port Pirie	14751	1991	Premise Match	29m	South West
	MOTOR ENGINEERS.	Will's Auto Shop, 325 The Terrace. Port Pirie	14764	1991	Premise Match	29m	South West
3	TAKE-AWAY FOODS.	Terrace Chicken Bar, The. 333 The Terrace. Port Pirie	14953	1991	Premise Match	66m	South West

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Business Directory Records 1910-1991 Road or Area Matches

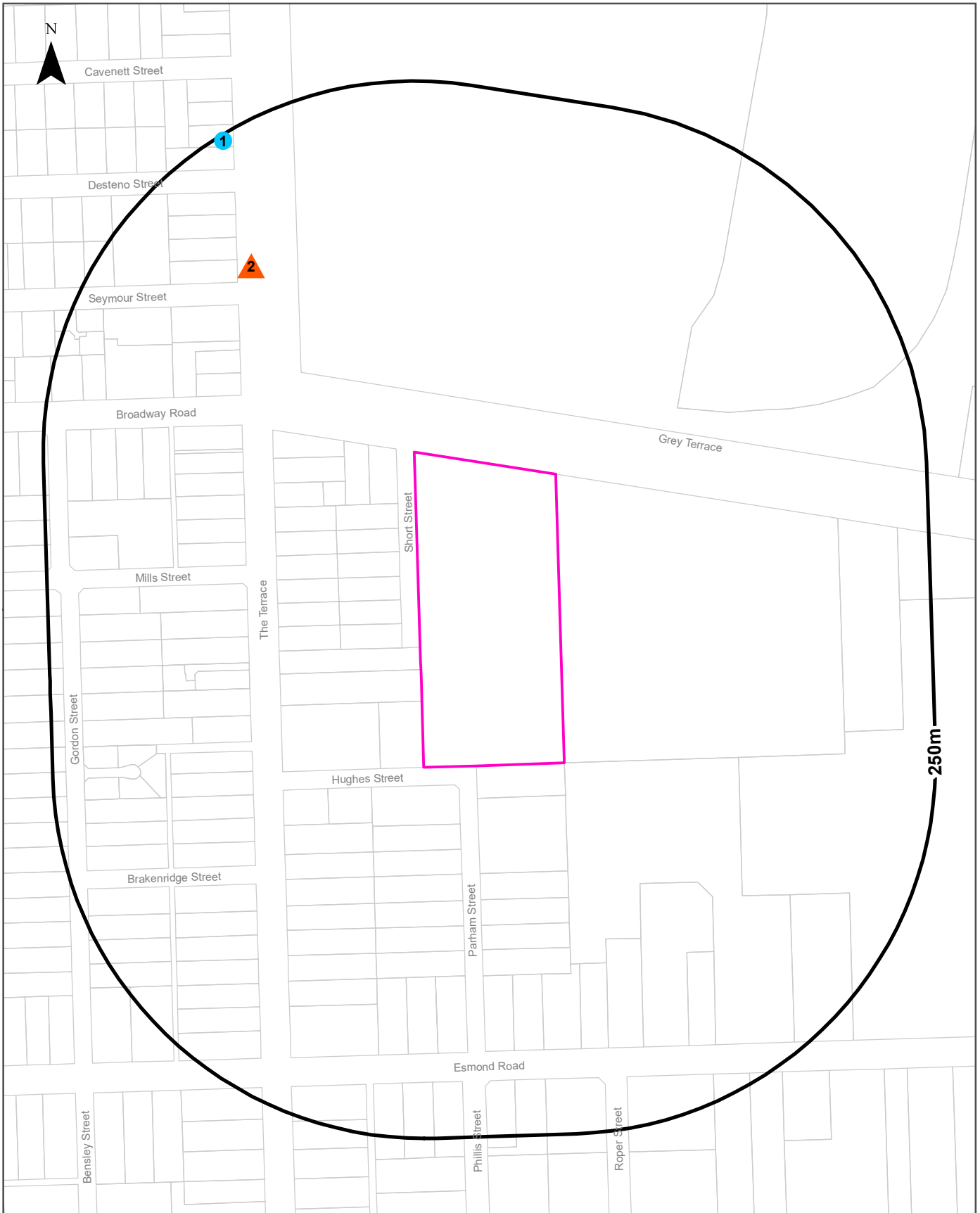
Universal Business Directory and Sands & McDougall Directory records, from years 1991, 1973, 1965, 1955, 1950, 1940, 1930, 1920 & 1910, mapped to a road or an area, within the dataset buffer. Records are mapped to the road when a building number is not supplied, cannot be found, or the road has been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

Map Id	Business Activity	Premise	Ref No.	Year	Location Confidence	Distance to Road Corridor or Area
4	LOCAL BODIES.	Fire Station, Grey Tce.. Port Pirie	14725	1991	Road Match	33m
	ASSOCIATIONS &/OR SOCIETIES.	Port Pirie Netball Association, Grey Tce.. Port Pirie	14333	1991	Road Match	33m
	PLASTERERS	Bazzica V J Grey ter Pt Pirie	30152	1973	Road Match	33m
	PLASTERERS	Bazzica V J Grey ter Pt Pirie	38549	1965	Road Match	33m
	PLASTERERS	Bazzica V J Grey ter Pt Pirie	33284	1955	Road Match	33m

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Dry Cleaners, Motor Garages & Service Stations

97 Grey Terrace, Port Pirie South, SA 5540



Legend <ul style="list-style-type: none"> 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 <hr/> Date: 10 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 Omnalink PTY LTD. ©PSMA Australia Limited 2023 www.pdma.com.au/psma-data-copyright-and-disclaimer			

Historical Business Directories

97 Grey Terrace, Port Pirie South, SA 5540

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, 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 GARAGES & SERVICE STATIONS.	Perrys, 280 The Terrace. Port Pirie	14782	1991	Premise Match	239m	North West

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

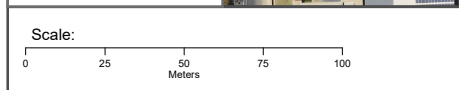
Dry Cleaners, Motor Garages & Service Stations from UBD Business Directories and Sands & McDougall's Directories, from years 1991, 1973, 1965, 1955, 1950, 1940 & 1930, mapped to a road or an area, within the dataset buffer. Records are mapped to the road when a building number is not supplied, cannot 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
2	MOTOR ENGINEERS, GARAGES & SERVICE STATIONS	Ampol Service Station The Terrace Pt Pirie	55769	1965	Road Match	108m
	MOTOR ENGINEERS, GARAGES & SERVICE STATIONS	Risdom Service Station Terrace Port Pirie	6731	1965	Road Match	108m
	MOTOR ENGINEERS, GARAGES & SERVICE STATIONS	Rudds Service Station The Terrace Port Pirie	6823	1965	Road Match	108m
	MOTOR ENGINEERS, GARAGES & SERVICE STATIONS	The Terrace Service Station The Terrace Port Pirie	8785	1965	Road Match	108m
	MOTOR ENGINEERS, GARAGES & SERVICE STATIONS	Wood M K The Terrace Pt Pirie	9949	1965	Road Match	108m

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Aerial Imagery 2022

97 Grey Terrace, Port Pirie South, SA 5540



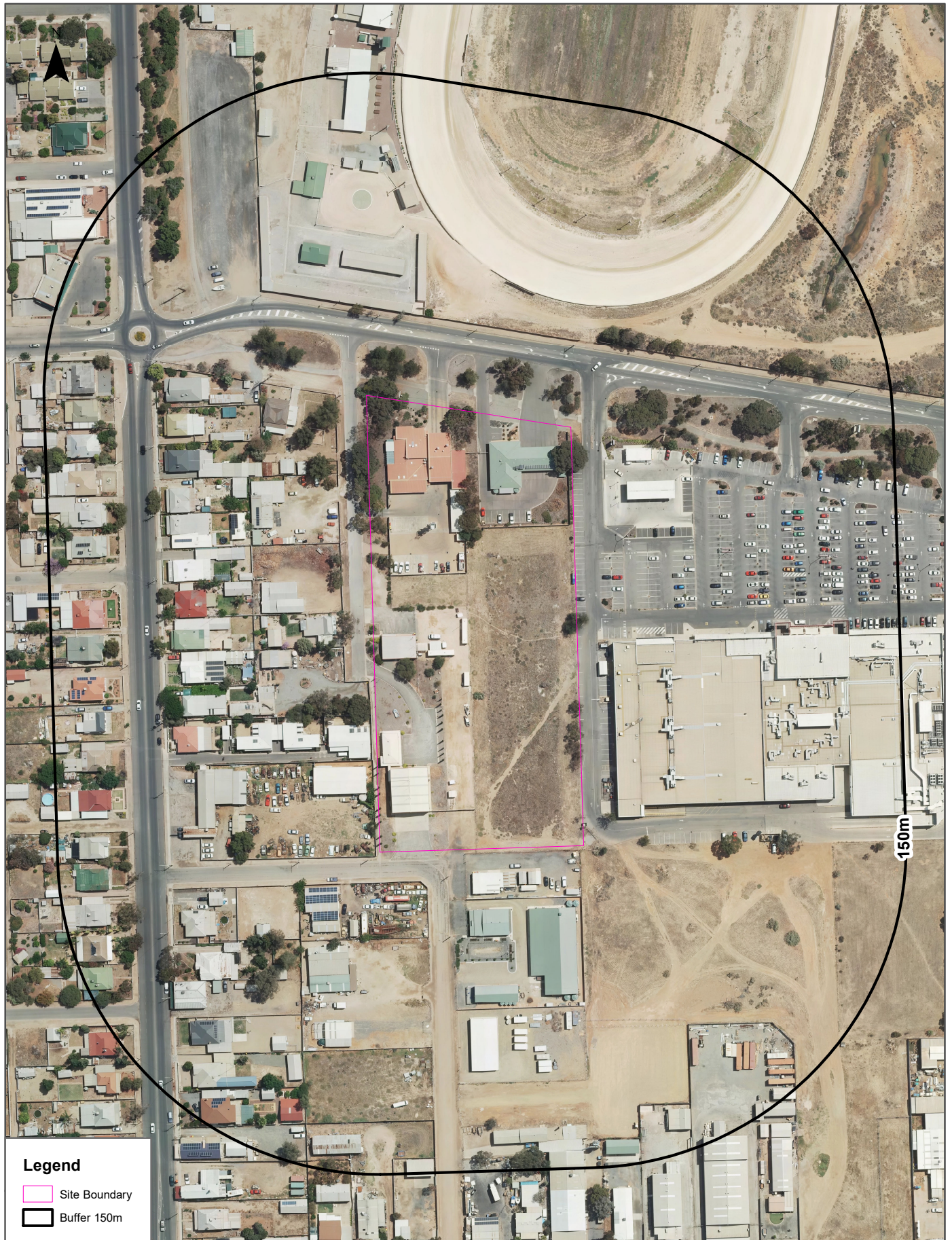
Data Source Aerial Imagery:
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Coordinate System:
GDA 1994 MGA Zone 54

Date: 10 February 2023



Aerial Imagery 2014

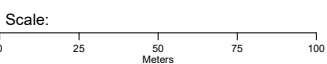
97 Grey Terrace, Port Pirie South, SA 5540



150m

Legend

-  Site Boundary
-  Buffer 150m



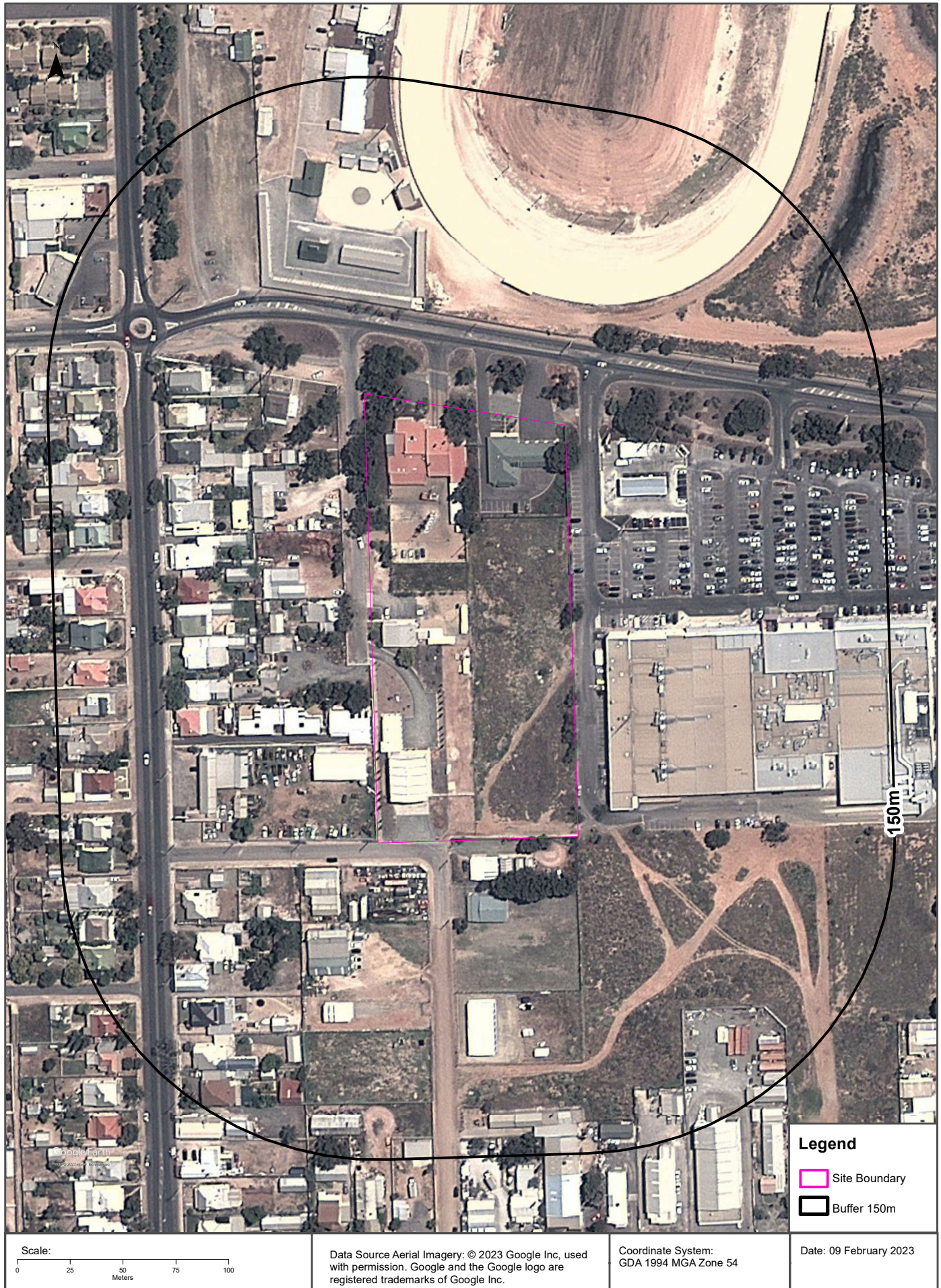
Data Source Aerial Imagery:
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GDA 1994 MGA Zone 54

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Aerial Imagery 2012

97 Grey Terrace, Port Pirie South, SA 5540

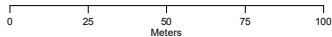


Aerial Imagery 2008

97 Grey Terrace, Port Pirie South, SA 5540



Scale:



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Aerial Imagery 2002

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Coordinate System:
GDA 1994 MGA Zone 54

Date: 09 February 2023

Legend



- Site Boundary
- Buffer 150m

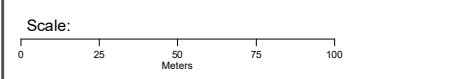
Aerial Imagery 1998

97 Grey Terrace, Port Pirie South, SA 5540



Legend

-  Site Boundary
-  Buffer 150m



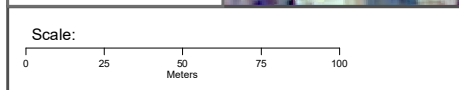
Data Sources Aerial Imagery: © South Australia
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GDA 1994 MGA Zone 54

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Aerial Imagery 1988

97 Grey Terrace, Port Pirie South, SA 5540



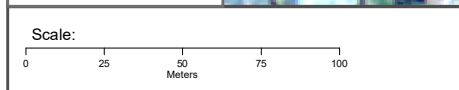
Data Sources Aerial Imagery: © South Australia Department for Environment & Water

Coordinate System: GDA 1994 MGA Zone 54

Date: 09 February 2023

Aerial Imagery 1979

97 Grey Terrace, Port Pirie South, SA 5540



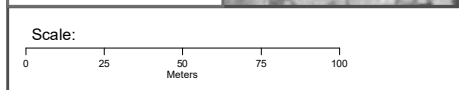
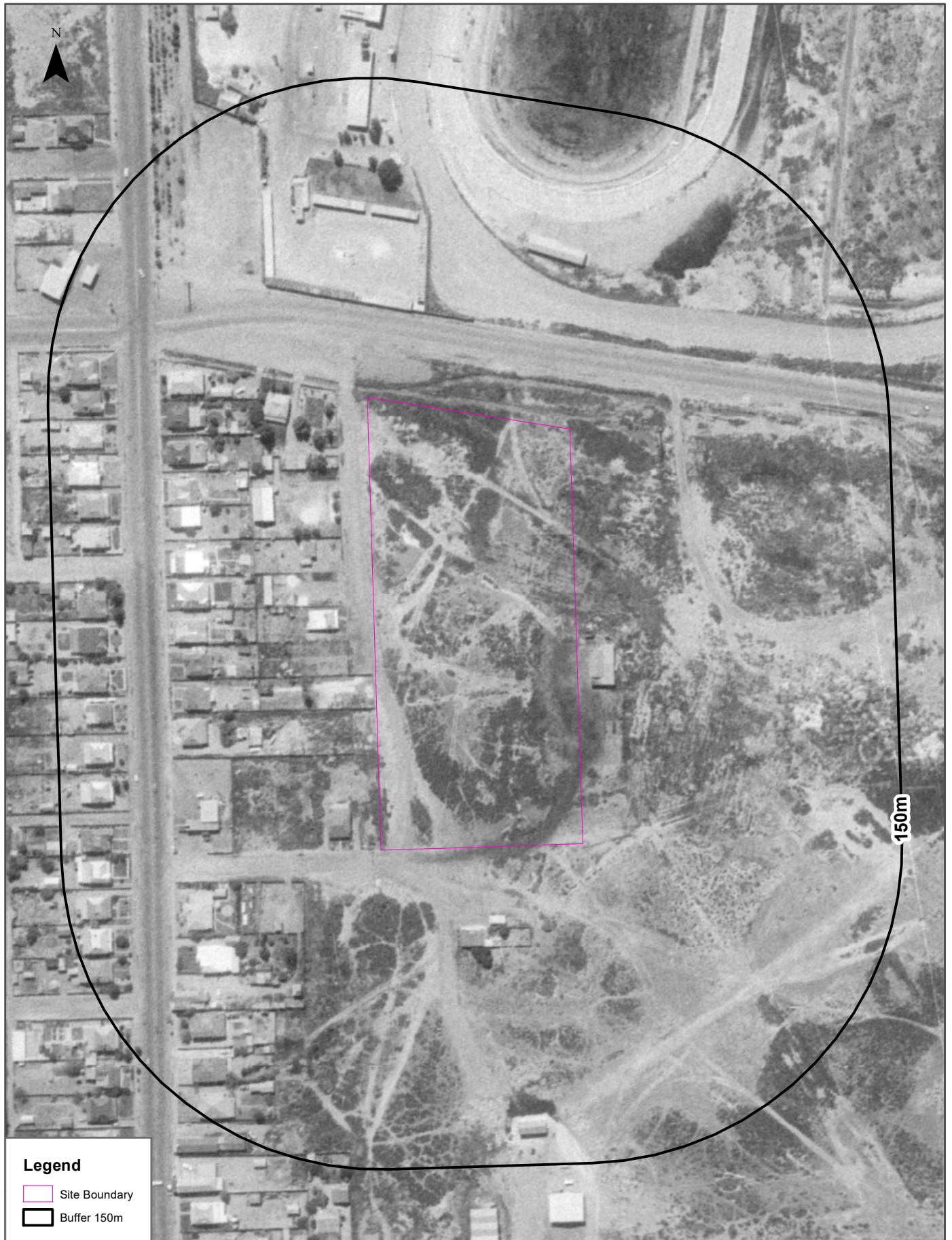
Data Sources Aerial Imagery: © South Australia Department for Environment & Water

Coordinate System: GDA 1994 MGA Zone 54

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Aerial Imagery 1974

97 Grey Terrace, Port Pirie South, SA 5540



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Date: 09 February 2023

Aerial Imagery 1966

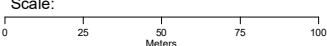
97 Grey Terrace, Port Pirie South, SA 5540



Legend

-  Site Boundary
-  Buffer 150m

Scale:



0 25 50 75 100
Meters

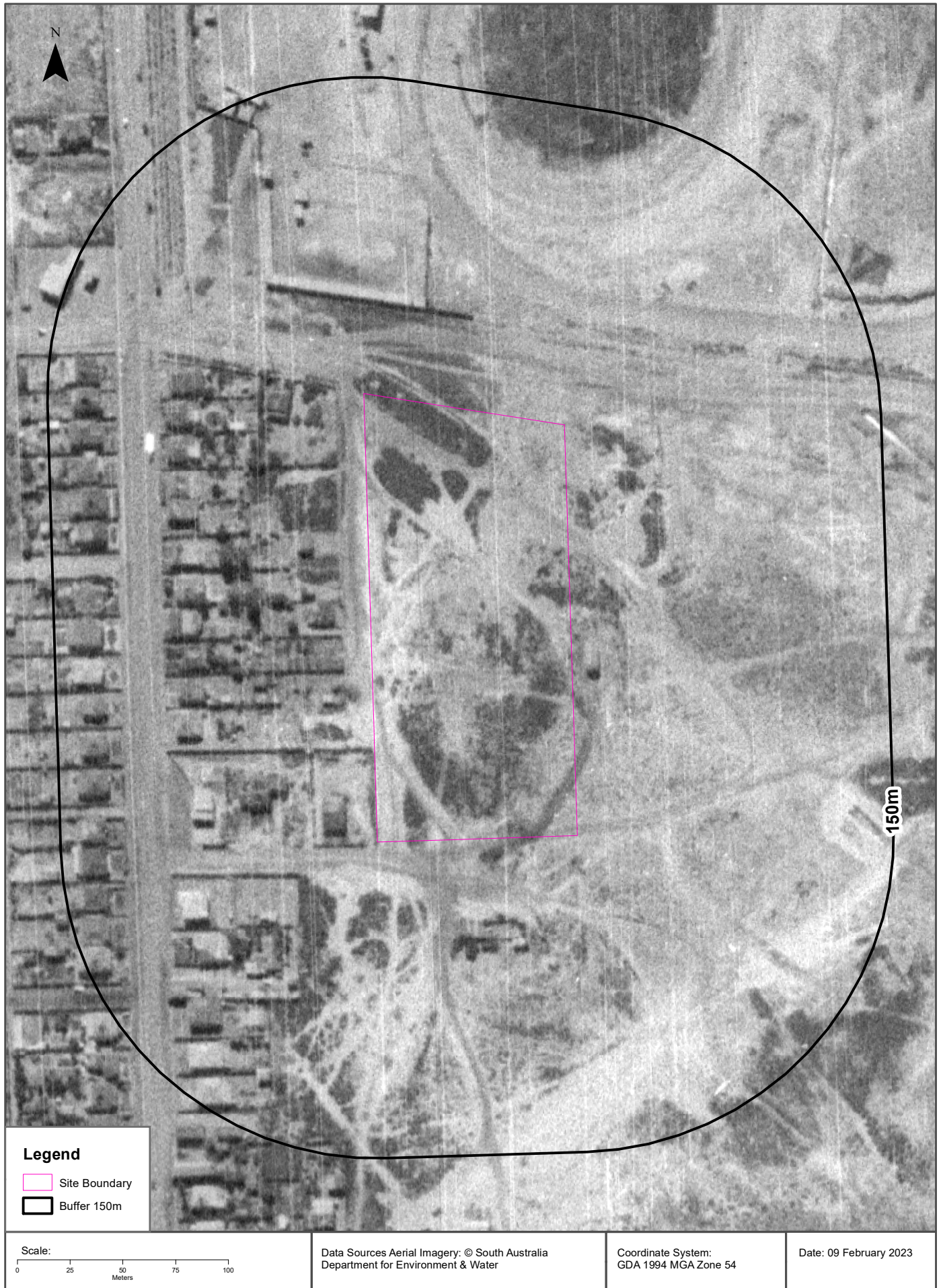
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Coordinate System:
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Aerial Imagery 1957

97 Grey Terrace, Port Pirie South, SA 5540





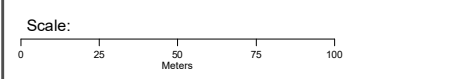
Aerial Imagery 1952

97 Grey Terrace, Port Pirie South, SA 5540



Legend

-  Site Boundary
-  Buffer 150m



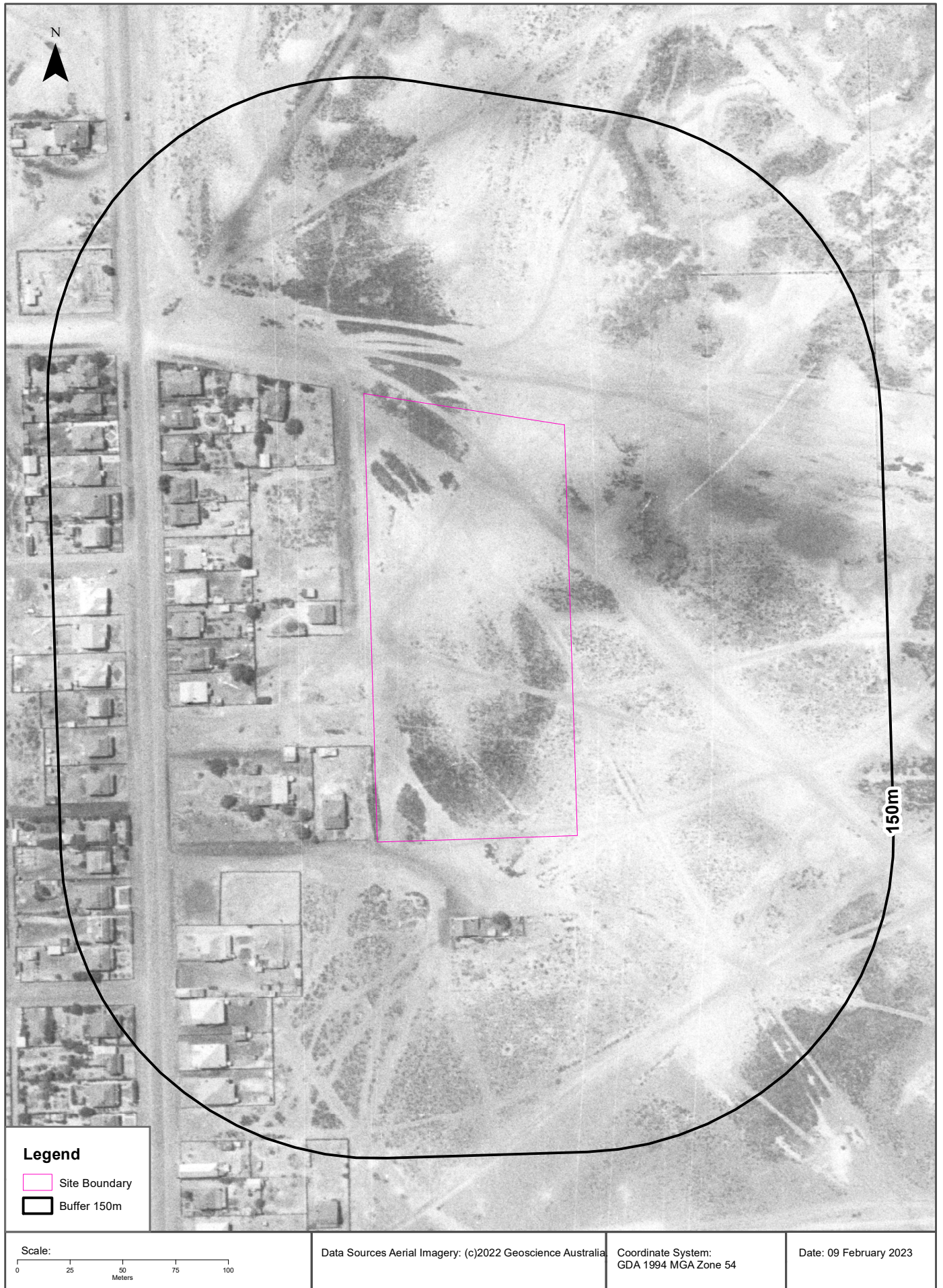
Data Sources Aerial Imagery: © South Australia
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Coordinate System:
GDA 1994 MGA Zone 54

Date: 09 February 2023

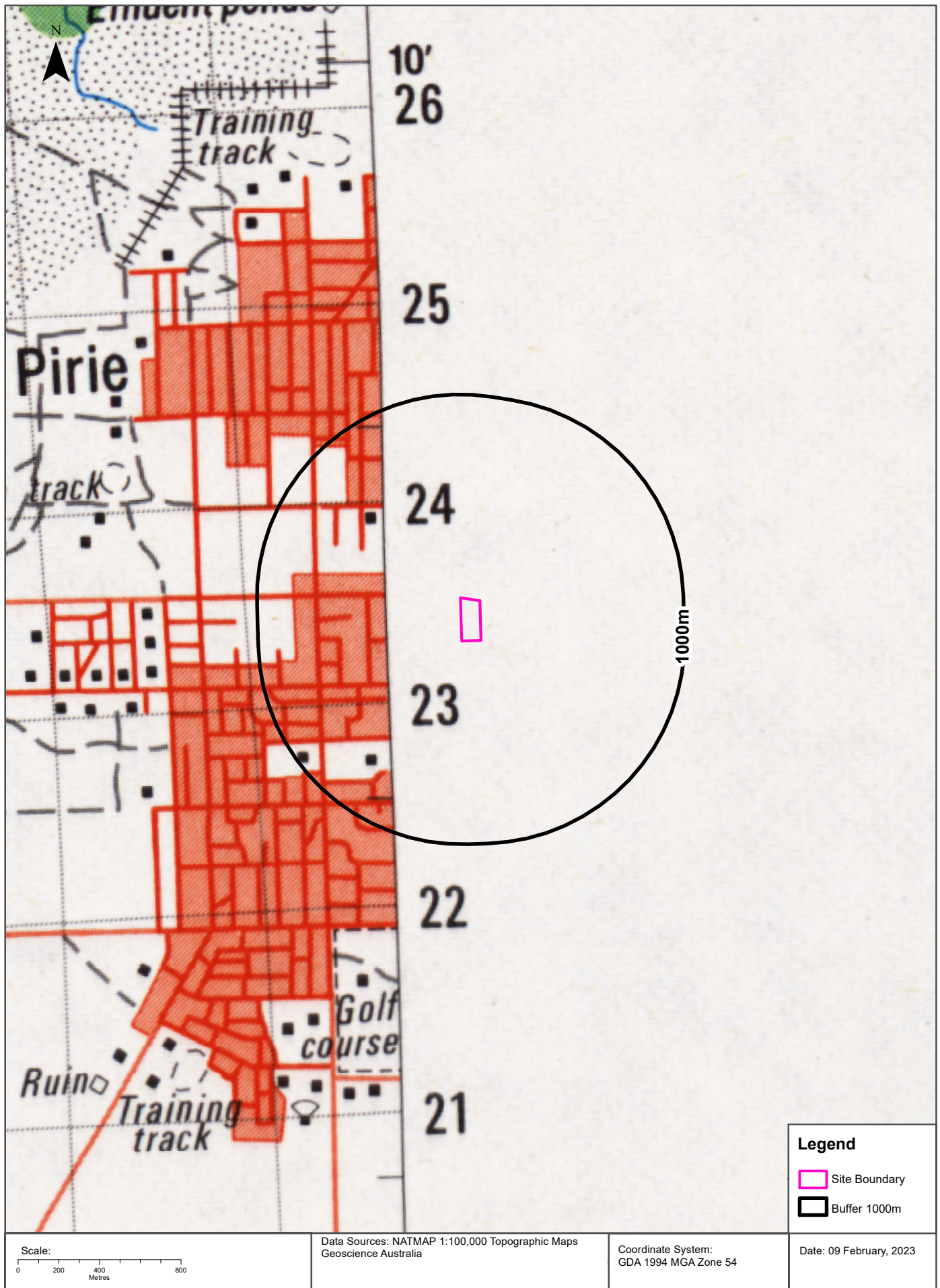
Aerial Imagery 1940

97 Grey Terrace, Port Pirie South, SA 5540



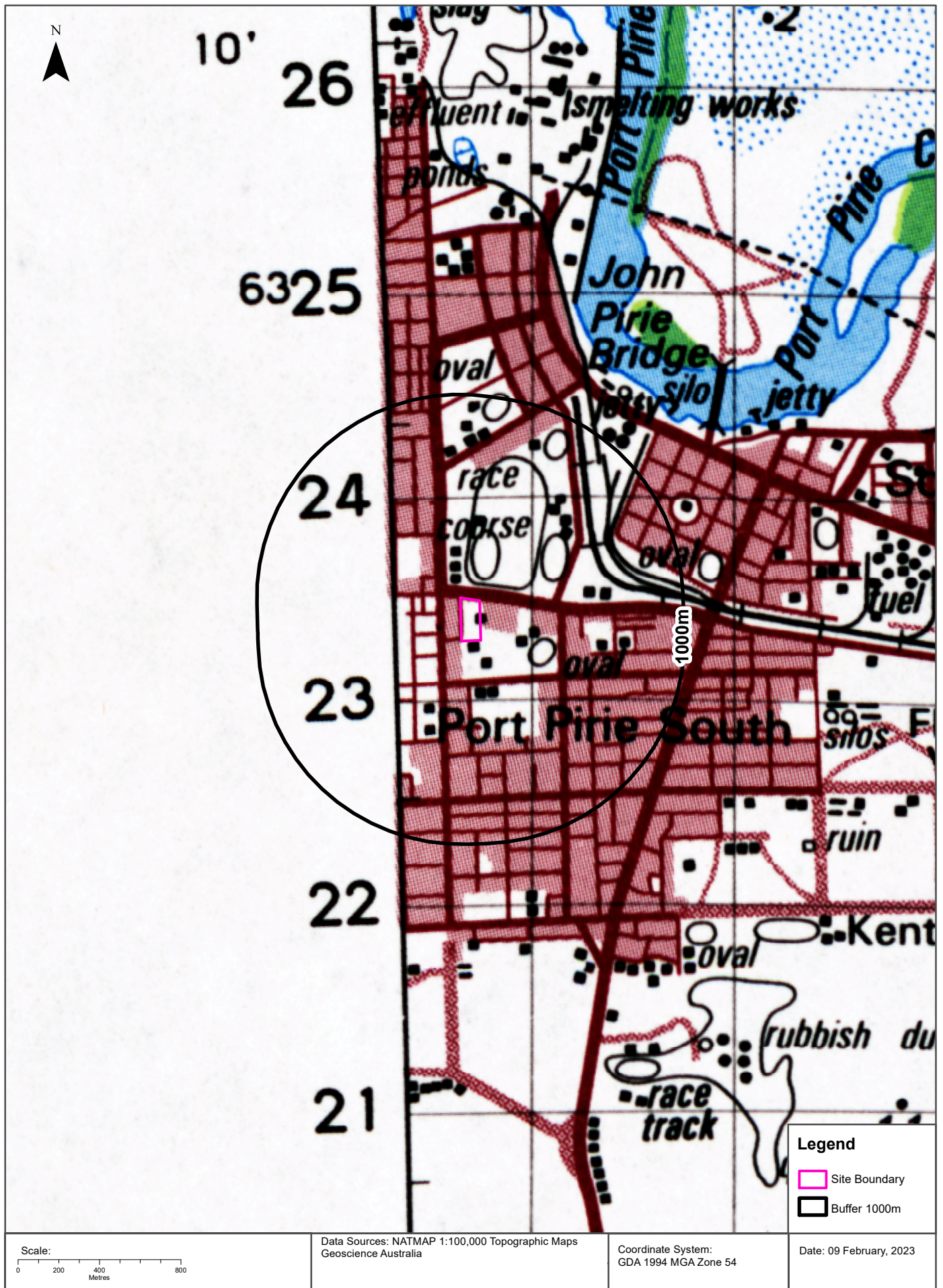
Historical Map 1982

97 Grey Terrace, Port Pirie South, SA 5540



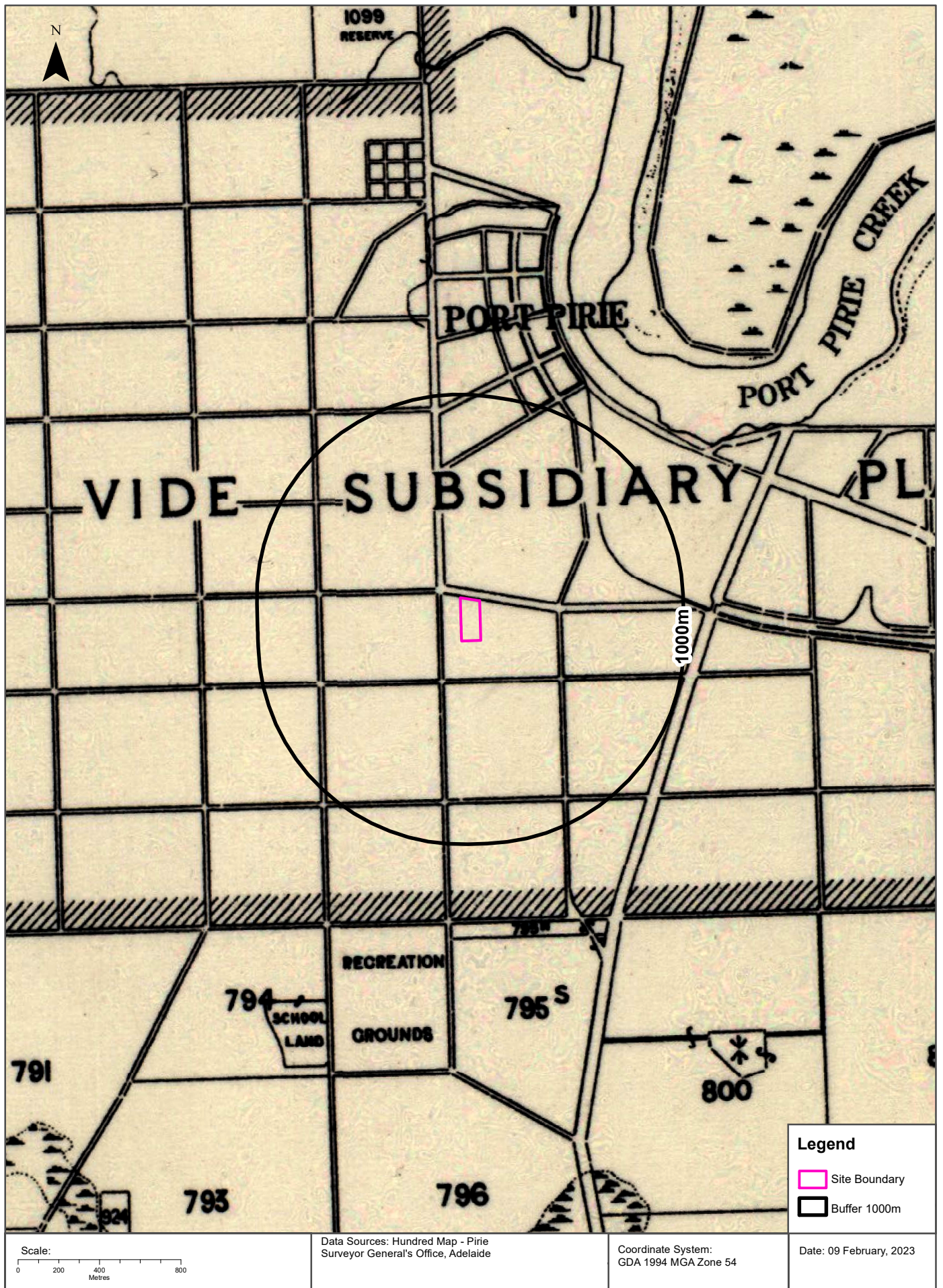
Historical Map 1982

97 Grey Terrace, Port Pirie South, SA 5540



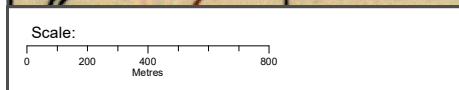
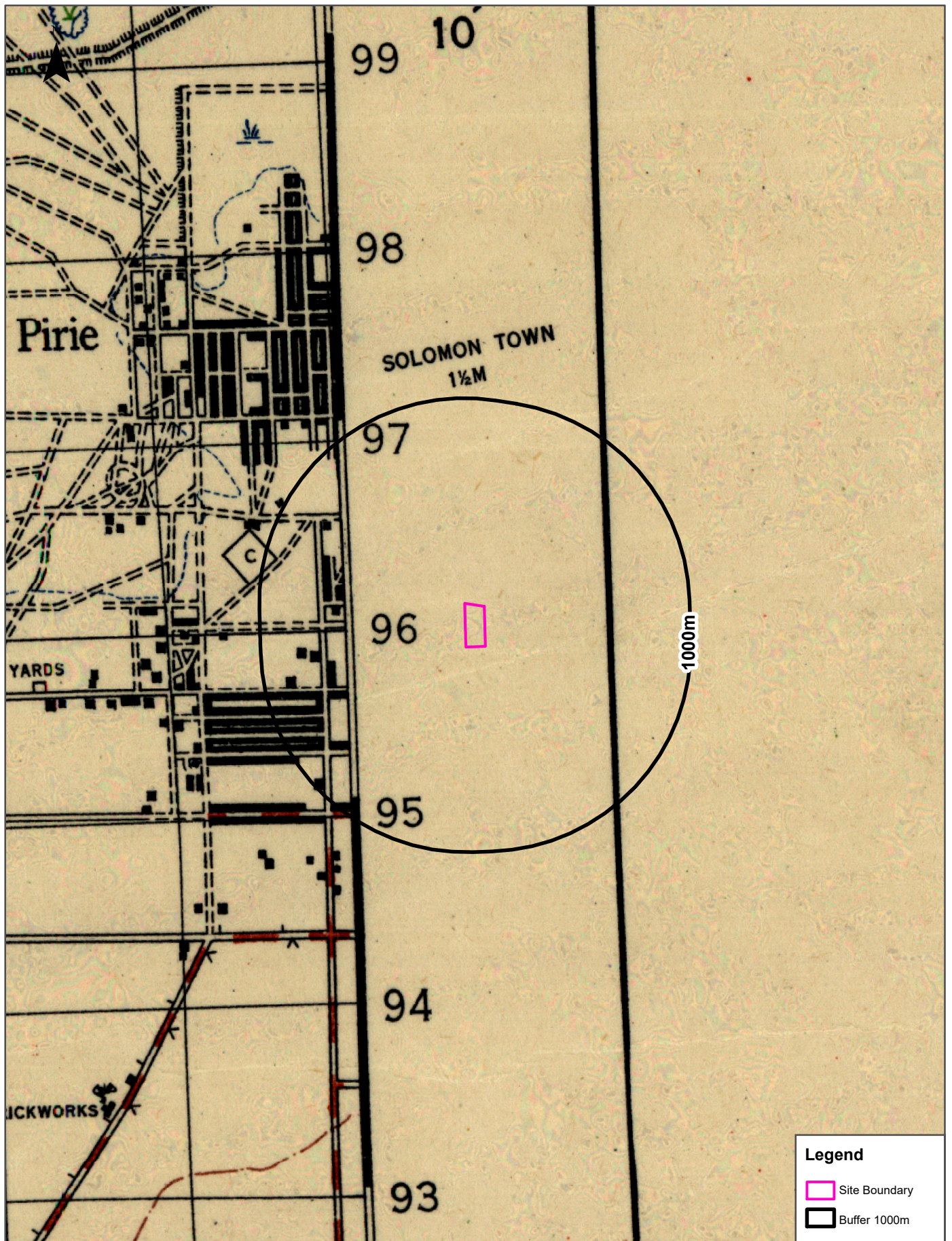
Historical Map 1964

97 Grey Terrace, Port Pirie South, SA 5540



Historical Map c.1956

97 Grey Terrace, Port Pirie South, SA 5540



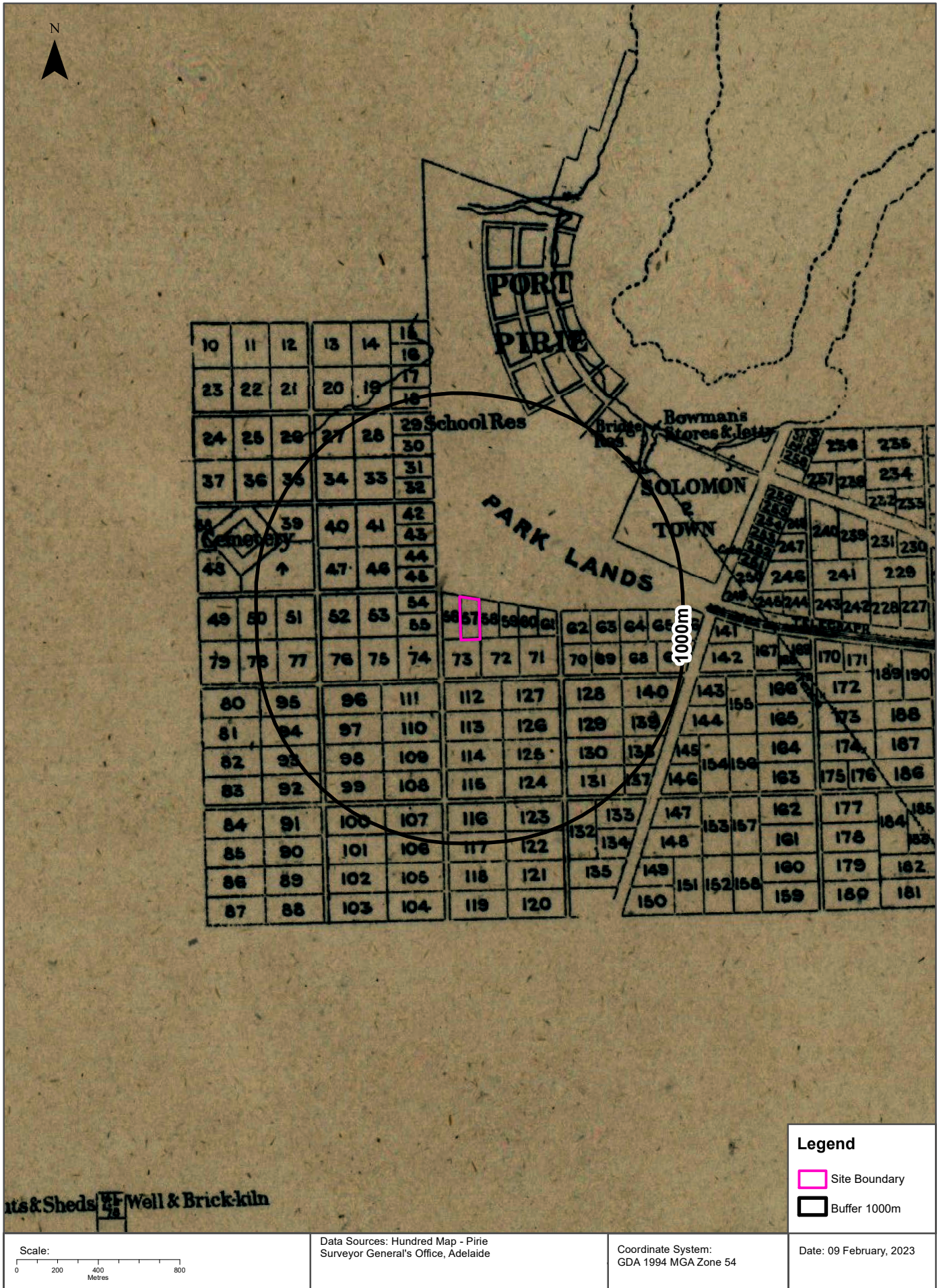
Data Sources: Australia 1:63,360
Prepared by Commonwealth Section Imperial General Staff

Coordinate System:
GDA 1994 MGA Zone 54

Date: 09 February, 2023

Historical Map 1874

97 Grey Terrace, Port Pirie South, SA 5540



Mining

97 Grey Terrace, Port Pirie South, SA 5540

Mines and Mineral Deposits

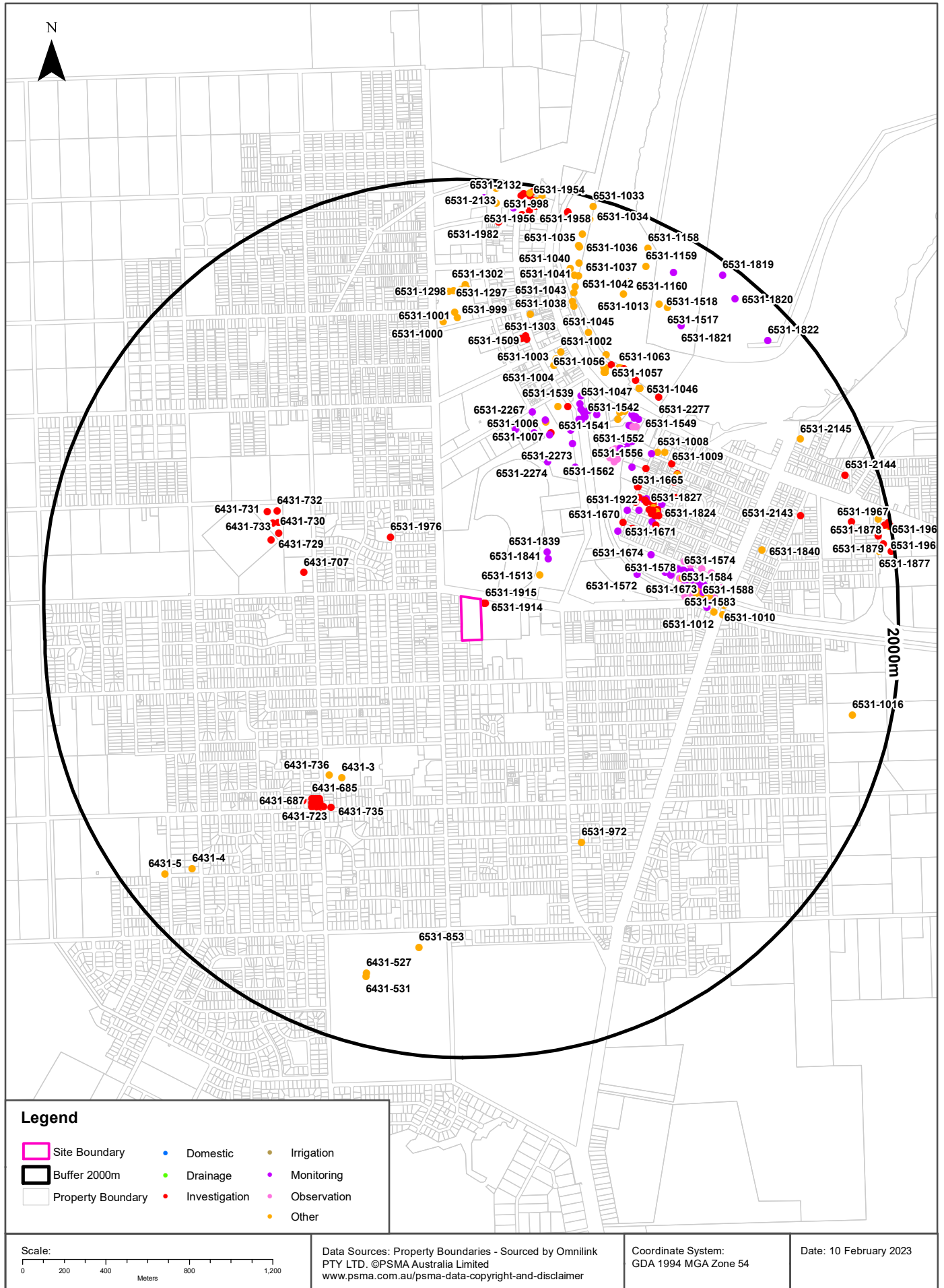
Mines and mineral deposits within the dataset buffer:

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

97 Grey Terrace, Port Pirie South, SA 5540



Groundwater and Drillholes

97 Grey Terrace, Port Pirie South, SA 5540

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
6531-1914	258846	MW 2		Investigation	2010-07-26	4.50		9.19								16m	North East
6531-1915	258847	MW 1		Investigation	2010-07-26	4.50		9.43								23m	North East
6531-1513	151138	PP 20	Unknown		1994-05-11	0.37	0.31									307m	North East
6531-1841	220822	GW 1		Monitoring	2006-11-06	4.00		6.21					1.60	1.60	4.61	379m	North East
6531-1839	220820	GW 3		Monitoring	2006-10-06	4.00		6.27					1.40	1.40	4.87	391m	North East
6531-1976	269461	MW 1		Investigation	2012-01-18	5.10		8.03								440m	North West
6531-2274	363518			Monitoring	2021-09-28	3.50										733m	North East
6531-1671	181963	ATMW 2	Abandoned	Monitoring	1999-03-19	5.50		4.99								734m	North East
6431-707	278498	MW 1		Investigation	2013-08-26	4.50		9.58					2.61	2.61	6.97	760m	West
6531-1572	165788	BW MW 2		Monitoring	1997-01-10	5.00		7.49					2.60	2.60	4.89	761m	East
6531-1944	266282	GW 50		Investigation	2011-04-13	5.00		6.11		7358	12770	0.2000	2.44	2.44	3.67	776m	North East
6531-2275	363519			Monitoring	2021-09-28	3.50										776m	North East
6531-1977	269462	MW 2		Investigation	2012-01-18	5.10		8.63								801m	North East
6531-1978	269463	MW 3		Investigation	2012-01-18	5.10		8.58								803m	North East
6531-1670	181962	ATMW 3	Abandoned	Monitoring	1999-03-19	5.50		8.14								822m	North East
6531-2269	363416			Monitoring	2021-09-28	3.00										829m	North
6531-2270	363418			Monitoring	2021-09-28	3.00										840m	North
6531-1674	181966	ATMW 1		Monitoring	1999-03-19	5.50		9.00								843m	East
6531-2271	363515			Monitoring	2021-09-28	3.00										856m	North East
6531-1007	31292	PT PIRIE HIGH 3	Unknown	Investigation	1973-04-19	20.40	3.00		6.50	13099	22000	0.1700				865m	North East
6531-2273	363517			Monitoring	2021-09-28	3.00										865m	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
6531-1828	218502	GW 22		Monitoring	2005-03-02	4.50		6.75					3.20	3.20	3.55	870m	North East
6531-2199	316923			Investigation	2019-06-25	5.50										876m	North East
6431-3	23767		Abandoned			60.96		11.22								877m	South West
6531-1685	182667	PR 25		Monitoring	2000-07-12	7.00		9.01					3.00	3.00	6.01	896m	East
6531-2201	316925			Investigation	2019-06-26	5.50										902m	North East
6531-1006	31291	PT PIRIE HIGH 2	Unknown		1973-04-16	20.25	3.00			9093.3	1136.66					903m	North
6531-1826	218500	GW 20		Monitoring	2005-03-03	4.50		7.48					2.90	2.90	4.58	904m	North East
6531-1739	195294	PR 20		Monitoring	2000-03-15	7.00		8.95					3.00	3.00	5.95	905m	East
6431-736	290451	MW 28			2016-09-12	7.00		11.90					5.50	5.50	6.40	909m	South West
6531-1932	262458	GW 40		Investigation	2010-08-11	12.00		7.08		4011.0	5730.0	0.200.0	2.60	2.60	4.48	913m	North East
6531-2268	363414			Monitoring	2021-09-28	2.50										913m	North
6531-1827	218501	GW 21		Monitoring	2005-03-03	4.50		7.00					3.10	3.10	3.90	915m	North East
6531-2152	289579			Investigation	2016-06-26	12.00		6.61								915m	North East
6531-2151	289578			Investigation	2016-06-26	6.00		6.23								917m	North East
6531-1582	165798	DT MW 9		Monitoring	1996-02-12	5.50		9.00					3.13	3.13	5.87	918m	East
6531-2272	363516			Monitoring	2021-09-30	3.00										918m	North East
6531-1686	182668	PR 21		Monitoring	2000-03-15	7.00		9.00					3.00	3.00	6.00	919m	East
6531-2200	316924			Investigation	2019-06-25	5.50										919m	North East
6531-1570	165786	RTL MW 15		Observation	1997-04-05	5.00		3.44					3.10	3.10	0.34	920m	North East
6531-2198	316922			Investigation	2019-06-24	5.50										920m	North East
6531-1569	165785	RTL MW 14		Observation	1997-04-05	5.00		4.74					3.30	3.30	1.44	921m	North East
6431-734	289514	GW 6		Investigation	2016-06-03	4.00		7.85								923m	North West
6531-1922	262130	GW 43		Investigation	2010-08-10	12.00		7.01		6480.0	8100.0	0.200.0	1.84	1.84	5.17	926m	North East
6531-1562	165778	RTL MW 2		Observation	1996-12-17	5.00		3.69					2.50	2.50	1.19	927m	North East
6531-1947	266287	GW 52		Investigation	2011-04-14	20.00		7.01		9452.0	1112.00	0.200.0	2.50	2.50	4.51	927m	North East
6531-2153	289580			Investigation	2016-06-26	12.00		6.97								927m	North East
6531-1575	165791	DT MW 2	Backfilled	Monitoring	1996-12-18	5.50		8.12					3.10	3.10	5.02	929m	East
6531-2150	289577			Investigation	2016-06-26	12.00		6.56								929m	North East
6531-1829	218503	GW 17		Monitoring	2005-03-02	4.50		7.00					3.00	3.00	4.00	931m	North East
6531-2267	363413			Monitoring	2021-09-28	3.00										931m	North
6531-1563	165779	RTL MW 3		Observation	1996-12-17	5.00		3.95					1.70	1.70	2.25	935m	North East
6531-1571	165787	RTL MW 16		Observation	1997-04-05	5.00		3.62					3.30	3.30	0.32	938m	North East
6531-2146	289573			Investigation	2016-06-26	12.00		6.82								938m	North East
6531-2147	289574				2013-06-26	12.00		6.82								938m	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
6531-1564	165780	RTL MW 5		Observation	1997-02-12	5.50		3.97					2.20	2.20	1.77	941m	North East
6531-2149	289576					12.00		7.00								941m	North East
6531-1930	262453	GW 44		Investigation	2010-08-10	5.00		7.00		22134	35500	0.2000	3.58	3.58	3.42	942m	North East
6531-2154	289581			Investigation	2016-06-26	6.00		7.00								943m	North East
6431-733	289513	GW 5		Investigation	2016-06-03	4.00		7.50					2.40	2.40	5.10	944m	North West
6531-1949	266289	GW 53		Investigation	2011-04-18	30.00		7.09		94520	111200	6.2000	4.09	4.09	3.00	945m	North East
6531-1565	165781	RTL MW 6		Observation	1997-02-12	5.50		4.37					2.40	2.40	1.97	946m	North East
6531-1824	218498	GW 15		Monitoring	2005-03-02	4.50		7.00					3.15	3.15	3.85	946m	North East
6531-1948	266288	GW 51		Investigation	2011-04-14	17.00		7.09		87295	102700	0.2000				946m	North East
6531-1669	181961	ATMW 4	Backfilled	Monitoring	1999-03-19	5.50		7.01								947m	North East
6431-729	289509	GW 1		Investigation	2016-06-02	3.80		4.20					2.30	2.30	1.90	950m	West
6531-2148	289575			Investigation	2016-06-26	12.00		7.05								951m	North East
6531-1566	165782	RTL MW 9		Observation	1997-02-11	5.50		4.99					2.10	2.10	2.89	954m	North East
6531-1580	165796	DT MW 7	Abandoned	Monitoring	1996-02-28	5.50		8.51					3.17	3.17	5.34	957m	East
6531-1665	181957	RTL MW 19	Abandoned	Monitoring	1999-03-19	5.50		4.19								961m	North East
6531-1581	165797	DT MW 8		Observation	1996-02-13	5.50		9.02					3.29	3.29	5.73	962m	East
6531-1590	165806	FRTL MW 8		Observation	1996-02-25	5.50		9.02					2.90	2.90	6.12	962m	East
6531-1830	218504	GW 18		Monitoring	2005-03-03	4.50		7.79					2.95	2.95	4.84	963m	North East
6431-730	289510	GW 2		Investigation	2016-06-02	3.80		5.74					2.40	2.40	3.34	966m	North West
6531-1568	165784	RTL MW 13		Observation	1997-04-05	5.50		4.98					3.40	3.40	1.58	967m	North East
6431-732	289512	GW 4		Investigation	2016-06-03	4.00		4.87					2.50	2.50	2.37	971m	North West
6531-1689	182671	EX 3		Industrial	2000-07-12	6.00		9.01								973m	East
6531-1604	165820	LR MW 9	Abandoned	Observation	1996-02-12	5.50		9.05					3.00	3.00	6.05	978m	East
6531-1592	165808	FRTL MW 10		Observation	1997-02-12	5.50		9.13					3.00	3.00	6.13	979m	East
6531-1548	165740	FFI MW 13		Monitoring	1997-04-04	5.00		8.29					2.40	2.40	5.89	981m	North East
6531-1578	165794	DT MW 5	Abandoned	Monitoring	1996-12-18	5.50		8.13					3.40	3.40	4.73	981m	East
6531-1603	165819	LR MW 8	Backfilled	Observation	1996-02-12	5.50		9.09					3.00	3.00	6.09	981m	East
6531-1825	218499	GW 16		Monitoring	2005-03-02	4.50		7.91					3.25	3.25	4.66	982m	North East
6531-1567	165783	RTL MW 11		Observation	1997-02-11	5.50		4.79					2.80	2.80	1.99	985m	North East
6531-1574	165790	DT MW 1	Abandoned	Monitoring	1996-12-18	5.50		8.02					3.20	3.20	4.82	985m	East
6531-1664	181956	RTL MW 20		Monitoring	1999-03-19	5.50		4.84								985m	North East
6531-1547	165739	FFI MW 12		Monitoring	1997-04-04	5.00		7.90					3.20	3.20	4.70	988m	North East
6531-1681	182663	PR 17		Monitoring	2000-03-15	7.00		8.93					3.00	3.00	5.93	988m	East
6531-1605	165821	OS MW 1		Observation	1996-02-26	5.50		8.04					2.50	2.50	5.54	993m	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
6531-1678	181970	INJ 1		Recharge	1999-08-11	6.00		9.00					3.00	3.00	6.00	993m	East
6531-1005	31290	PT PIRIE HIGH 1	Unknown		1973-04-14	30.15	3.00		6.50	13099	22000	0.2500	30.00	30.00	-27.00	995m	North
6531-1666	181958	RTL MW 18	Abandoned	Monitoring	1999-03-19	5.50		5.59								999m	North East
6531-1591	165807	FRTL MW 9		Observation	1996-02-26	5.50		8.68					3.20	3.20	5.48	1000m	East
6531-1600	165816	LR MW 5		Observation	1996-12-18	5.00		9.00					3.60	3.60	5.40	1002m	East
6531-1667	181959	RTL MW 17	Backfilled	Monitoring	1999-03-19	5.50		4.99								1005m	North East
6531-1543	165735	FFI MW 5		Monitoring	1997-04-03	5.00		7.76					3.30	3.30	4.46	1008m	North East
6531-1602	165818	LR MW 7		Observation	1996-02-12	5.50		9.25					3.09	3.09	6.16	1011m	East
6531-1920	262119	GW 39		Investigation	2010-08-10	5.00		4.85		10737	18260	0.2000	1.71	1.71	3.14	1011m	North East
6431-731	289511	GW 3		Investigation	2016-06-02	4.00		7.38					2.60	2.60	4.78	1013m	North West
6531-1587	165803	FRTL MW 5	Abandoned	Observation	1996-12-18	5.50		8.99					3.00	3.00	5.99	1013m	East
6531-2276	364033			Investigation	2021-09-28	3.00										1013m	North East
6531-1703	184144	PR 11		Monitoring	2000-03-15	7.00		8.06					3.00	3.00	5.06	1014m	East
6531-1577	165793	DT MW 4		Monitoring	1996-12-18	5.50		8.00					3.50	3.50	4.50	1015m	East
6531-1680	182662	PR 19		Monitoring	2000-03-15	7.00		8.78					3.00	3.00	5.78	1015m	East
6531-1597	165813	LR MW 1		Observation	1996-12-18	5.00		8.91					3.20	3.20	5.71	1016m	East
6531-1700	184141	PR 6		Monitoring	2000-03-15	7.00		7.92					3.00	3.00	4.92	1018m	East
6531-1541	165733	FFI MW 3		Monitoring	1997-02-26	5.00		7.44					3.40	3.40	4.04	1019m	North East
6431-735	290450	MW 27		Investigation	2016-09-12	7.00		13.59					5.50	5.50	8.09	1020m	South West
6531-1606	165822	OS MW 2	Abandoned	Observation	1996-02-26	5.50		8.04					2.40	2.40	5.64	1020m	East
6531-1691	182673	EX 5		Industrial	2000-07-12	6.00		8.36								1020m	East
6531-1704	184145	PR 13		Monitoring	2000-03-15	7.00		8.12					3.00	3.00	5.12	1020m	East
6431-753	302111	RW 4		Investigation	2016-07-08	7.30	7.26	7.41					5.30	5.46	1.96	1022m	South West
6531-1598	165814	LR MW 3		Observation	1996-12-18	5.00		8.71					3.10	3.10	5.61	1022m	East
6531-1576	165792	DT MW 3	Abandoned	Monitoring	1996-12-18	5.50		7.72					3.20	3.20	4.52	1023m	East
6431-725	289481	MW 14		Investigation	2015-10-13	7.50		14.03					5.80	5.80	8.23	1024m	South West
6531-1690	182672	EX 4		Industrial	2000-07-12	6.00		8.62								1024m	East
6531-1540	165732	FFI MW 1		Monitoring	1997-01-10	5.00		7.29					3.30	3.30	3.99	1025m	North East
6431-757	302120	RW 3		Investigation	2016-07-08	7.20	7.51	7.64					5.40	5.53	2.11	1027m	South West
6431-758	302121	RW 5		Investigation	2016-07-08	7.30	7.29	7.50					5.50	5.71	1.79	1027m	South West
6531-1584	165800	FRTL MW 2	Abandoned	Observation	1996-12-18	5.00		8.34					3.28	3.28	5.06	1028m	East
6531-1542	165734	FFI MW 4		Monitoring	1997-02-26	5.00		6.98					3.40	3.40	3.58	1029m	North East
6531-1688	182670	EX 2		Industrial	2000-07-12	6.00		7.50								1029m	East
6431-686	274833	SB/MW 3		Investigation	2012-10-03	7.50		13.68					5.50	5.50	8.18	1030m	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
6531-1559	165751	TF MW 14		Monitoring	1996-12-14	5.00		4.17					2.60	2.60	1.57	1030 m	North East
6531-1586	165802	FRTL MW 4	Abandoned	Observation	1996-12-18	5.50		7.66					2.80	2.80	4.86	1030 m	East
6531-1558	165750	TF MW 13		Monitoring	1996-12-14	5.00		4.05					2.60	2.60	1.45	1031 m	North East
6531-1697	184138	PR 2		Monitoring	2000-03-15	7.00		7.45					3.00	3.00	4.45	1031 m	East
6531-1684	182666	INJ 3		Recharge	2000-03-15	6.00		8.37								1032 m	East
6431-756	302119	RW 2		Investigation	2016-07-09	7.50	7.39	7.59					5.50	5.70	1.89	1033 m	South West
6431-759	302122	RW 6		Investigation	2016-07-07	7.40	7.24	7.52					5.50	5.78	1.74	1033 m	South West
6531-1579	165795	DT MW 6	Abandoned	Monitoring	1996-12-18	5.50		7.40					3.40	3.40	4.00	1033 m	East
6531-1679	181971	INJ 2		Recharge	1999-08-11	6.00		8.27					3.20	3.20	5.07	1035 m	East
6431-754	302113	RW 7		Investigation	2016-07-07	7.30	7.28	7.40					5.30	5.43	1.98	1038 m	South West
6431-727	289483	MW 16		Investigation	2015-10-15	7.50		13.10								1039 m	South West
6431-755	302118	RW 1		Investigation	2016-07-09	7.50		13.26					5.50	5.50	7.76	1039 m	South West
6531-1544	165736	FFI MW 7		Monitoring	1997-04-04	5.00		8.21					3.40	3.40	4.81	1042 m	North East
6531-1583	165799	FRTL MW 1	Abandoned	Observation	1996-12-18	5.00		8.03					3.07	3.07	4.96	1042 m	East
6531-1677	181969	DW		Monitoring	1999-08-10	11.80		7.18					4.00	4.00	3.18	1042 m	East
6431-688	274835	SB/MW 1		Investigation	2012-10-03	7.50		13.29					5.60	5.60	7.69	1043 m	South West
6531-1701	184142	PR 7		Monitoring	2000-03-15	7.00		7.01					3.00	3.00	4.01	1043 m	East
6531-1556	165748	TF MW 10		Observation	1996-12-14	5.00		4.52					2.20	2.20	2.32	1044 m	North East
6531-1561	165753	TF MW 16		Monitoring	1996-12-15	5.00		4.52					2.20	2.20	2.32	1044 m	North East
6431-760	302123	RW 8		Investigation	2016-07-07	7.30	7.19	7.36					5.50	5.67	1.69	1045 m	South West
6531-1546	165738	FFI MW 10		Monitoring	1997-04-04	5.00		9.31					3.20	3.20	6.11	1045 m	North East
6531-1675	181967	EX 1		Monitoring	1999-08-10	6.00		7.05					4.10	4.10	2.95	1045 m	East
6431-685	274832	SB/MW 5		Investigation	2012-10-02	7.50		13.18					5.70	5.70	7.48	1047 m	South West
6531-1560	165752	TF MW 15		Monitoring	1996-12-15	5.00		4.84					2.80	2.80	2.04	1047 m	North East
6531-1676	181968	SW		Monitoring	1999-08-10	6.00		7.10					4.00	4.00	3.10	1047 m	East
6531-1545	165737	FFI MW 9		Monitoring	1997-04-04	5.00		7.68					3.10	3.10	4.58	1049 m	North East
6531-1555	165747	TF MW 9	Abandoned	Observation	1996-12-14	5.00		4.04					1.80	1.80	2.24	1049 m	North East
6531-1585	165801	FRTL MW 3	Abandoned	Observation	1996-12-18	5.00		7.21					3.08	3.08	4.13	1049 m	East
6531-1698	184139	PR 3		Monitoring	2000-03-15	7.00		7.16					3.00	3.00	4.16	1049 m	East
6531-1601	165817	LR MW 6	Abandoned	Observation	1996-02-12	5.50		8.69					3.10	3.10	5.59	1050 m	East
6531-1945	266285	GW 49		Investigation	2011-04-13	5.00		7.91		5175	9110	0.2000	3.07	3.07	4.84	1051 m	North East
6431-723	289479	MW 12		Investigation		7.60		13.68								1052 m	South West
6431-739	290633	MW 31		Investigation	2016-09-13	7.00		13.66								1052 m	South West
6531-1951	266291	GW 48		Investigation	2011-04-12	9.50		7.91		49280	70400	0.2000	3.14	3.14	4.77	1052 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
6531-1702	184143	PR 9		Monitoring	2000-03-15	7.00		7.68					3.00	3.00	4.68	1059 m	East
6431-737	290452	MW 30		Investigation	2016-09-13	7.00		13.67					5.50	5.50	8.17	1060 m	South West
6531-1599	165815	LR MW 4		Observation	1996-12-18	5.00		8.09					3.20	3.20	4.89	1061 m	East
6431-687	274834	SB/MW 2		Investigation	2012-10-03	7.50		13.84					5.40	5.40	8.44	1062 m	South West
6431-740	290634	MW 32		Investigation	2016-09-13	7.00		13.81					6.00	6.00	7.81	1062 m	South West
6531-1557	165749	TF MW 11		Monitoring	1996-12-14	5.00		4.88					2.50	2.50	2.38	1062 m	North East
6531-1699	184140	PR 5		Monitoring	2000-03-15	7.00		7.61					3.00	3.00	4.61	1062 m	East
6531-1589	165805	FRTL MW 7	Abandoned	Observation	1996-02-26	5.50		7.70					3.10	3.10	4.60	1064 m	East
6531-1683	182665	INJ 4		Recharge	2000-03-15	6.00		8.00								1065 m	East
6531-1687	182669	INJ 6		Recharge	2000-07-12	6.00		8.07								1067 m	East
6531-1692	182674	SW 2		Monitoring	2000-07-12	6.00		8.00								1068 m	East
6531-1588	165804	FRTL MW 6	Abandoned	Observation	1996-12-18	5.50		7.91					3.20	3.20	4.71	1071 m	East
6531-1607	165823	OS MW 3		Observation	1996-02-26	5.50		7.87					2.70	2.70	5.17	1071 m	East
6431-726	289482	MW 15		Investigation	2015-10-15	7.50		13.92					5.60	5.60	8.32	1072 m	South West
6531-1673	181965	HTMW 1		Monitoring	1999-03-19	6.00		8.01								1074 m	East
6431-724	289480	MW 13		Investigation	2015-10-13	7.50		14.47					5.80	5.80	8.67	1075 m	South West
6431-738	290632	MW 29		Investigation	2016-09-12	7.00		14.46					6.00	6.00	8.46	1075 m	South West
6531-1668	181960	ATMW 5	Backfilled	Monitoring	1999-03-19	5.50		5.91								1076 m	North East
6531-1682	182664	INJ 5		Recharge	2000-03-15	6.00		8.13								1077 m	East
6431-728	289484	MW 19		Investigation	2016-01-05	5.50		13.98								1082 m	South West
6531-1593	165809	FRTL MW 11		Observation	1997-02-11	5.50		8.28					3.00	3.00	5.28	1082 m	East
6531-1813	211178		Backfilled			6.00		6.29								1083 m	North East
6531-1573	165789	BW MW 3	Backfilled	Monitoring	1997-01-10	5.00		8.94					3.40	3.40	5.54	1084 m	East
6531-972	31257					102.41		14.22		2827	5057		0.00	0.00	14.22	1084 m	South East
6531-1596	165812	FRTL MW 14		Observation	1997-04-04	5.50		8.40					3.50	3.50	4.90	1085 m	East
6531-1931	262455	GW 41		Investigation	2010-08-11	12.00		7.54		40530	57900	0.2000	2.19	2.19	5.35	1086 m	North East
6531-1539	165731	BW MW 1	Abandoned	Monitoring	1997-01-10	5.00		7.98					3.00	3.00	4.98	1087 m	North East
6531-1694	182676	INJ 8		Recharge	2000-07-12	6.00		8.51								1089 m	East
6531-1672	181964	HTMW 2		Monitoring	1999-03-19	6.00		8.71								1095 m	East
6531-1594	165810	FRTL MW 12		Observation	1997-02-11	5.50		8.74					3.00	3.00	5.74	1096 m	East
6531-1693	182675	INJ 7		Recharge	2000-07-12	6.00		8.74								1096 m	East
6531-1551	165743	TF MW 4	Backfilled	Monitoring	1996-12-14	5.00		4.83					2.10	2.10	2.73	1097 m	North East
6531-1552	165744	TF MW 5	Abandoned	Monitoring	1996-12-14	5.00		4.87					2.20	2.20	2.67	1100 m	North East
6531-1553	165745	TF MW 6		Observation	1996-12-14	5.00		5.43					1.30	1.30	4.13	1102 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
6531-1008	31293	PT PIRIE GAS 1	Unknown		1951-04-18	15.24		6.60					9.75	9.75	-3.15	1103 m	North East
6531-1554	165746	TF MW 7		Observation	1996-12-14	5.00		6.92					2.70	2.70	4.22	1112 m	North East
6531-1608	165824	OS MW 4		Observation	1996-02-26	5.50		8.80					2.70	2.70	6.10	1113 m	East
6531-2202	316926			Investigation	2019-06-27	12.50										1114 m	North East
6531-1946	266286	GW 47		Investigation	2010-04-12	12.00		7.87		87465	102900	0.2000	3.02	3.02	4.85	1115 m	North East
6531-1012	31297	PT PIRIE KWGS 3	Unknown		1966-05-20	18.59		9.67					2.13	2.13	7.54	1116 m	East
6531-1952	266292	GW 46			2011-04-12	19.00		7.87		96050	113000	0.2000	2.80	2.80	5.07	1117 m	North East
6531-1812	211174		Backfilled			6.00		7.11								1118 m	North East
6531-1950	266290	GW 45		Investigation	2011-04-12	5.00		7.87		17906	29300	0.2000	2.98	2.98	4.89	1118 m	North East
6531-1595	165811	FRTL MW 13		Observation	1997-02-11	5.50		9.00					3.00	3.00	6.00	1121 m	East
6531-1921	262127	GW 42		Investigation	2010-08-10	12.00		7.27		42560	60800	0.2000	1.93	1.93	5.34	1122 m	North East
6531-1009	31294	PT PIRIE GAS 2	Unknown		1951-04-19	12.80		7.00								1130 m	North East
6531-1814	211179		Backfilled			6.00		7.95								1134 m	North East
6531-1550	165742	TF MW 3	Abandoned	Monitoring	1996-12-13	5.00		8.64					2.00	2.00	6.64	1140 m	North East
6531-1662	181954	TFMW 17	Backfilled	Monitoring	1999-03-19	6.00		9.55								1144 m	North East
6531-1549	165741	TF MW 2	Abandoned	Monitoring	1996-12-13	5.00		9.21					2.50	2.50	6.71	1145 m	North East
6531-1663	181955	TFMW 18	Abandoned	Monitoring	1999-03-19	6.00		9.62								1148 m	North East
6531-1609	165825	OS MW 5		Observation	1996-02-26	5.50		8.34					2.90	2.90	5.44	1151 m	East
6531-1011	31296	PT PIRIE KWGS 2	Unknown		1966-05-16	18.54		9.48								1158 m	East
6531-1610	165826	OS MW 6	Abandoned	Observation	1997-04-04	5.50		8.00					3.20	3.20	4.80	1158 m	East
6531-1010	31295	PT PIRIE KWGS 1	Unknown		1966-05-26	18.49		8.33					2.13	2.13	6.20	1166 m	East
6531-1004	31289	PT PIRIE KINHILL 3	Unknown		1966-06-01	3.15		8.12	6.70	4500	7962					1175 m	North
6531-1003	31288	PT PIRIE KINHILL 2	Unknown		1966-06-03	15.65		9.55					1.83	1.83	7.72	1207 m	North
6531-1061	31346	PT PIRIE SILO 9	Unknown		1963-08-05	21.34	2.60			40625	61387		2.89	2.89	-0.29	1239 m	North East
6531-1058	31343	PT PIRIE SILO 6	Unknown		1960-06-06	30.48	3.00			17136	28184					1240 m	North East
6531-1062	31347	PT PIRIE SILO 10A	Unknown		1963-08-08	21.34	2.70			57918	82740		2.74	2.74	-0.04	1240 m	North East
6531-1053	31338	PT PIRIE SILO 1	Unknown		1960-05-05	19.81	3.00									1241 m	North East
6531-1054	31339	PT PIRIE SILO 2	Unknown		1960-05-12	30.48	3.00									1241 m	North East
6531-1055	31340	PT PIRIE SILO 3	Unknown		1960-05-20	19.81	3.00									1241 m	North East
6531-1056	31341	PT PIRIE SILO 4	Unknown		1960-05-17	19.81	3.00									1241 m	North East
6531-1057	31342	PT PIRIE SILO 5	Unknown		1960-05-25	19.81	3.00									1241 m	North East
6531-1059	31344	PT PIRIE SILO 7	Unknown		1963-09-27	21.34	2.70			28632	44611		3.05	3.05	-0.35	1241 m	North East
6531-1060	31345	PT PIRIE SILO 8	Unknown		1963-08-01	21.34	2.70			85427	106784		1.83	1.83	0.87	1241 m	North East
6531-1002	31287	PT PIRIE KINHILL 1	Unknown		1966-05-31	3.05		8.97		15000	24973		1.83	1.83	7.14	1247 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
6531-1072	31357	PT PIRIE SILO 11	Unknown		1973-09-12	22.35	3.00									1259 m	North East
6531-1073	31358	PT PIRIE SILO 12	Unknown		1973-09-15	23.85	3.00									1259 m	North East
6531-1074	31359	PT PIRIE SILO 13	Unknown		1973-09-18	24.60	3.00					0.250				1259 m	North East
6531-1075	31360	PT PIRIE SILO 14	Unknown		1973-09-21	22.05	3.00									1260 m	North East
6531-1076	31361	PT PIRIE SILO 15	Unknown		1973-09-25	22.40	3.00					0.700	2.15	2.15	0.85	1260 m	North East
6531-1077	31362	PT PIRIE SILO 16	Unknown		1973-09-26	21.60	3.00						2.10	2.10	0.90	1260 m	North East
6531-1078	31363	PT PIRIE SILO 17	Unknown		1973-09-29	22.05	3.00									1261 m	North East
6531-1509	147369			Investigation	1994-12-15	4.00		8.66								1264 m	North
6531-1510	147370			Investigation	1994-12-15	4.00		8.43								1265 m	North
6531-1052	31337	BALTIC WHARF 13	Unknown		1959-12-02	4.88		11.78								1266 m	North East
6531-1046	31331	BALTIC WHARF 8	Unknown		1959-10-22	23.16		11.76								1267 m	North East
6531-1047	31332	BALTIC WHARF 6	Unknown		1959-10-16	23.32		11.76								1267 m	North East
6531-1048	31333	BALTIC WHARF 7	Unknown		1959-10-09	17.22		11.76								1267 m	North East
6531-1049	31334	BALTIC WHARF 9	Unknown		1959-11-09	8.23		11.76								1267 m	North East
6531-1050	31335	BALTIC WHARF 9A	Unknown		1959-11-23	3.96		11.76								1267 m	North East
6531-1051	31336	BALTIC WHARF 10	Unknown		1959-10-27	23.62		11.76				0.630	4.26	4.26	7.50	1267 m	North East
6531-1508	147368			Investigation	1994-12-15	4.00		8.04								1283 m	North
6531-2279	365195		Backfilled	Investigation	2022-01-19	20.00										1285 m	North East
6531-2278	365194		Backfilled	Investigation	2022-01-18	19.50										1287 m	North East
6531-2277	365188		Backfilled	Investigation	2022-01-20											1291 m	North East
6531-1063	31348	BALTIC WHARF 1	Unknown		1959-11-13	12.50		11.62					4.27	4.27	7.35	1296 m	North East
6531-1064	31349	BALTIC WHARF 1A	Unknown		1959-11-18	23.16		7.02								1296 m	North East
6531-1065	31350	BALTIC WHARF 2	Unknown		1959-11-25	23.01		4.03								1298 m	North East
6531-1066	31351	BALTIC WHARF 5A	Unknown		1959-11-20	5.18		3.32								1298 m	North East
6531-1067	31352	BALTIC WHARF 3	Unknown		1959-11-11	8.23		4.03								1299 m	North East
6531-1068	31353	BALTIC WHARF 11	Unknown		1959-11-27	4.88		4.03								1299 m	North East
6531-1069	31354	BALTIC WHARF 4	Unknown		1959-11-04	23.32		4.00				0.630	4.26	4.26	-0.26	1300 m	North East
6531-1070	31355	BALTIC WHARF 5	Unknown		1959-11-06	8.23		4.00								1300 m	North East
6531-1071	31356	BALTIC WHARF 12	Unknown	Investigation	1959-12-01	4.72		4.00								1300 m	North East
6531-1000	31285	PT PIRIE HOSPITAL EX 2	Unknown		1969-08-01	15.39	2.00									1319 m	North
6531-1039	31324	QUEEN'S WHARF 4	Unknown		1955-10-07	11.58		-0.48								1319 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
6531-1001	31286	PT PIRIE HOSPITAL EX 3	Unknown		1969-08-07	15.09	2.00									1335 m	North
6531-999	31284	PT PIRIE HOSPITAL EX 1	Unknown		1969-07-29	21.58	2.00		6.50	1500	24973		1.14	1.14	0.86	1362 m	North
6531-1840	220821	GW 2			2006-10-06	4.00		9.67					1.50	1.50	8.17	1368 m	East
6531-1045	31330	QUEEN'S WHARF 3	Unknown		1955-10-03	10.97		4.84								1379 m	North
6531-1303	31588	PT PIRIE ESA BANK 1	Unknown		1958-12-31	5.94		8.25								1388 m	North
6531-1299	31584	PT PIRIE HOSPITAL 3	Unknown		1956-12-05	14.25	2.00									1460 m	North
6531-1297	31582	PT PIRIE HOSPITAL 1	Unknown		1956-12-04	15.62	2.00									1461 m	North
6531-1298	31583	PT PIRIE HOSPITAL 2	Unknown		1956-12-04	14.25	2.00									1464 m	North
6531-1300	31585	PT PIRIE HOSPITAL 4	Unknown		1956-12-05	14.94	2.00									1471 m	North
6531-1301	31586	PT PIRIE HOSPITAL 5	Unknown		1956-12-06	14.94	2.00									1473 m	North
6531-1038	31323	QUEEN'S WHARF 2	Unknown		1955-09-28	10.82		7.37								1474 m	North
6531-853	31138					5.79		18.19					5.79	5.79	12.40	1488 m	South
6531-1044	31329	BHAS WHARF 11	Unknown		1960-07-10	20.04	0.00									1493 m	North
6531-1302	31587	PT PIRIE HOSPITAL 6	Unknown		1956-12-06	14.94	2.00									1493 m	North
6531-1043	31328	BHAS WHARF 10	Unknown		1960-06-16	19.81	-1.91									1537 m	North
6531-1042	31327	BHAS WHARF 9	Unknown		1960-06-19	21.11	-1.91									1568 m	North
6531-2143	289506			Investigation	2016-02-04	5.50		9.90					3.50	3.50	6.40	1586 m	East
6531-1013	31298	PT PIRIE CHANNEL 40	Unknown		1972-12-14	10.00		0.00								1614 m	North East
6531-1041	31326	BHAS WHARF 8	Unknown		1960-06-29	18.82	-1.91									1618 m	North
6531-1788	205518	MW 6			2005-07-07	6.00		1.99					3.00	3.00	-1.01	1618 m	North
6531-1821	212223	GW 2		Monitoring	2005-12-07	10.00		7.16		9735	114500		4.00	4.00	3.16	1627 m	North East
6531-1040	31325	QUEEN'S WHARF 1	Unknown		1955-09-24	11.43		3.72								1642 m	North
6531-1518	151144	PP 25	Unknown		1994-05-11	1.30	-0.01									1654 m	North East
6431-527	202205		Abandoned		2004-08-20	123.00		20.98								1661 m	South
6531-1517	151143	PP 23	Unknown		1994-05-11	1.40	0.84									1661 m	North East
6431-531	206224		Backfilled		2004-08-19	123.00		21.11								1677 m	South
6531-1037	31322	BHAS WHARF 7	Unknown		1960-07-13	17.15	-1.91									1678 m	North
6531-1160	31445	PT PIRIE HARBOR 3	Unknown		1982-10-28	10.80		0.00								1678 m	North East

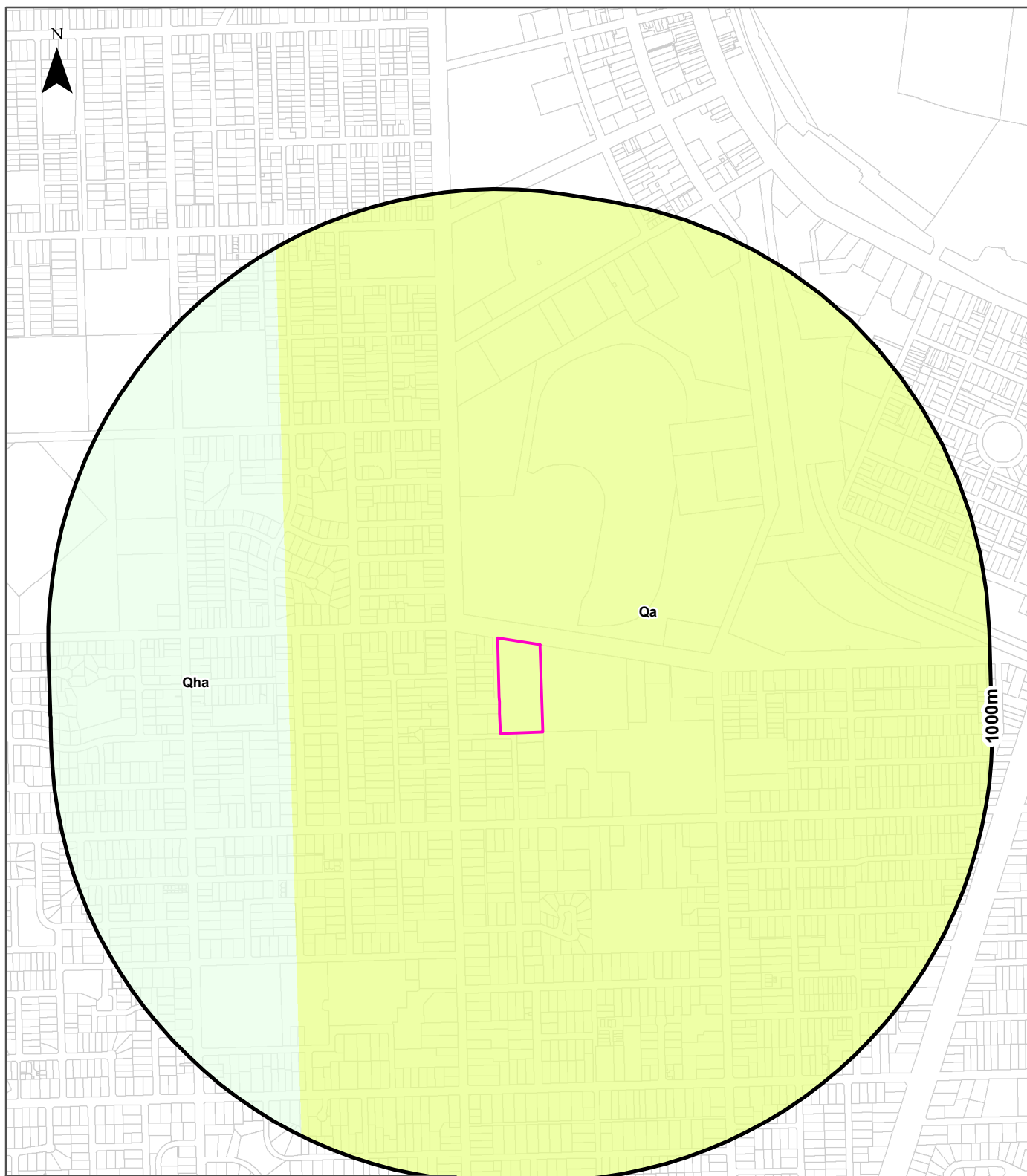
Unit No	Drillhole No	Name	Status	Purpose	Drill Date	Max Depth	Ref Elev	Ground Elev	PH	TDS	EC	Yield	DTW	SWL	RSWL	Dist	Dir
6431-4	23768	AIRDALE SCHOOL 1	Unknown			27.43		12.31		1710	2815					1694 m	South West
6531-2145	289508				2016-02-04	5.00		7.62					3.50	3.50	4.12	1714 m	North East
6531-1036	31321	BHAS WHARF 6	Unknown		1960-07-08	18.21	-1.91									1755 m	North
6531-1787	205517	MW 5			2005-07-07	6.00		5.77					3.00	3.00	2.77	1760 m	North
6531-1159	31444	PT PIRIE HARBOUR 2	Unknown		1982-10-29	11.00		15.11								1781 m	North East
6531-1982	270743	MW 92		Investigation	2012-09-08	4.00		4.69								1802 m	North
6531-1973	266924	SB143/M W143		Investigation	2010-09-29	4.50		8.05					3.50	3.50	4.55	1810 m	East
6431-5	23769	AIRDALE SCHOOL 2	Unknown			15.70		9.10								1813 m	South West
6531-1016	31301	PIRIE SILO 1	Unknown		1979-03-01	3.70		10.79								1813 m	East
6531-1972	266923	SB142/M W142		Investigation	2010-09-29	5.00		9.00					3.00	3.00	6.00	1817 m	East
6531-1035	31320	BHAS WHARF 5	Unknown		1960-07-03	18.82	-1.91									1819 m	North
6531-1823	212225	GW 4		Monitoring	2005-12-07	10.00		4.61		5460	7800		4.00	4.00	0.61	1820 m	North East
6531-1971	266922	SB141/M W141		Investigation	2010-09-28	5.00		8.91					2.90	2.90	6.01	1825 m	East
6531-1958	266401	MW 36R		Investigation	2011-09-12	5.00		6.02					1.43	1.43	4.59	1845 m	North
6531-2144	289507			Investigation	2016-02-04	3.20		6.11								1846 m	East
6531-1960	266403	MW 64		Investigation	2011-09-12	5.00		7.04					1.37	1.37	5.67	1853 m	North
6531-1822	212224	GW 1		Monitoring	2005-12-07	10.00		3.46		9665	113700		4.00	4.00	-0.54	1855 m	North East
6531-1158	31443	PT PIRIE HARBOUR 1	Unknown		1982-10-30	11.00		10.49								1863 m	North East
6531-1959	266402	MW 35R		Investigation	2011-09-12	5.00		6.45					1.32	1.32	5.13	1878 m	North
6531-2248	352208	MW 218		Monitoring	2020-06-24	7.80										1878 m	North
6531-1820	212222	GW 3		Monitoring	2005-12-07	10.00		5.95		103020	121200		4.00	4.00	1.95	1887 m	North East
6531-998	31283				1898-10-31	259.08		5.10		12347	20811					1892 m	North
6531-1034	31319	BHAS WHARF 4	Unknown		1960-07-06	18.67	0.00									1896 m	North
6531-1957	266400			Investigation	2011-09-13	5.00		6.06					1.07	1.07	4.99	1899 m	North
6531-1956	266399	MW 73		Investigation	2011-09-13	5.00		5.47					1.22	1.22	4.25	1901 m	North
6531-1985	270746	MW 99		Investigation	2012-09-15	7.50		8.48								1903 m	North
6531-1986	270747	MW 100		Investigation	2012-09-16	4.00		8.44								1903 m	North
6531-1955	266398	MW 74		Investigation	2011-09-13	5.00		5.84					1.27	1.27	4.57	1914 m	North
6531-2247	352207	MW 217		Monitoring	2020-06-24	5.00										1915 m	North
6531-1877	236915	MW 117			2007-07-26	5.50		9.55								1925 m	East
6531-1954	266397	MW 75		Investigation	2011-09-13	5.00		5.67					1.14	1.14	4.53	1928 m	North
6531-1969	266849	SB135/M W135		Investigation	2010-09-29	5.00		9.06					3.70	3.70	5.36	1931 m	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
6531-2213	325490	MW 198			2019-02-06	5.00										1931 m	North
6531-1819	212221	GW 5		Monitoring	2005-12-07	10.00		6.90		52990	75700		4.00	4.00	2.90	1939 m	North East
6531-2132	288297	MW 152		Investigation	2015-11-07	7.20		5.62								1941 m	North
6531-1970	266921	SB136/M W136			2010-09-28	5.00		8.79					2.80	2.80	5.99	1946 m	East
6531-2131	288296	MW 153		Investigation	2015-11-07	8.40		5.83								1948 m	North
6531-1965	266845	SB131/M W131		Investigation	2010-09-24	5.50		9.50					5.00	5.00	4.50	1949 m	East
6531-2211	325488	MW 195		Investigation	2019-02-06	5.00										1953 m	North
6531-2212	325489	MW 197			2019-02-07	5.00										1955 m	North
6531-2215	325496	MW 199			2019-02-06	5.00										1959 m	North
6531-1033	31318	BHAS WHARF 3	Unknown		1960-06-24	19.03	-1.91									1961 m	North
6531-2133	288298	MW 151			2015-11-08	8.70		3.86								1962 m	North
6531-2208	325485	MW 196		Investigation	2019-02-07	5.00										1967 m	North
6531-1968	266848	SB134/M W134		Investigation	2010-09-30	4.00		8.82					3.50	3.50	5.32	1970 m	East
6531-2134	288299	MW 150		Investigation	2015-11-09	6.70		4.12								1973 m	North
6531-1879	236919	SB104/M W119		Investigation	2007-07-24	6.00		10.97					3.80	3.80	7.17	1982 m	East
6531-1878	236917	SB124/M W118			2007-07-25	5.50		8.60					4.00	4.00	4.60	1989 m	East
6531-1967	266847	SB133/M W133		Investigation	2010-09-28	4.70		8.09					4.00	4.00	4.09	1991 m	East
6531-1966	266846	SB132/M W132		Investigation	2010-09-27	5.50		8.51					4.20	4.20	4.31	1998 m	East

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

97 Grey Terrace, Port Pirie South, SA 5540

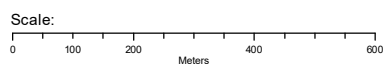


Legend

- Site Boundary
- Buffer 1000m
- Property Boundary

Linear Feature

- | | |
|--------------|----------------------|
| Alluvial fan | Joint |
| Dyke | Lineament |
| Fault | Open cut quarry |
| Fold | Shear zone |
| Gilgai | Other Linear Feature |



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

Date: 10 February 2023

Geology

97 Grey Terrace, Port Pirie South, SA 5540

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
Qa	Unnamed GIS Unit - see description	Undifferentiated Quaternary alluvial/fluvial sediments.	Unnamed GIS Unit - see description	UNKNOWN	PLEISTOCENE-HOLOCENE	Quaternary	Quaternary	0m	On-site
Qha	Unnamed GIS Unit - see description	Undifferentiated Holocene alluvial/fluvial sediments.	Unnamed GIS Unit - see description	UNKNOWN	HOLOCENE	Holocene	Holocene	469m	West

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

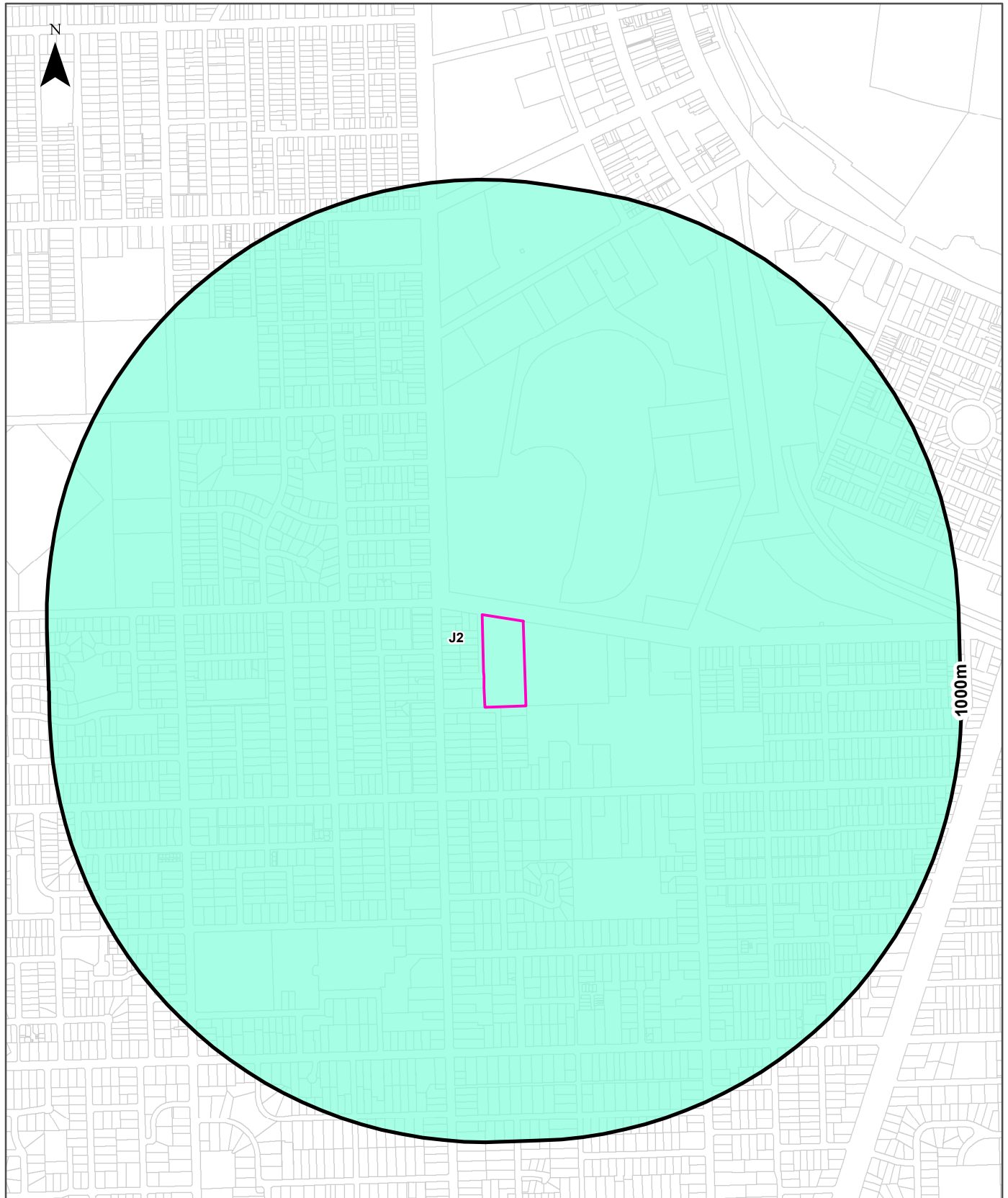
Linear geological structures within the dataset buffer:

Map Code	Description	Distance	Direction
N/A	No records in buffer		

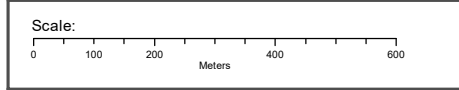
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Atlas of Australian Soils

97 Grey Terrace, Port Pirie South, SA 5540



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



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Coordinate System:
GDA 1994 MGA Zone 54

Date: 10 February 2023

Soils

97 Grey Terrace, Port Pirie South, SA 5540

Atlas of Australian Soils

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

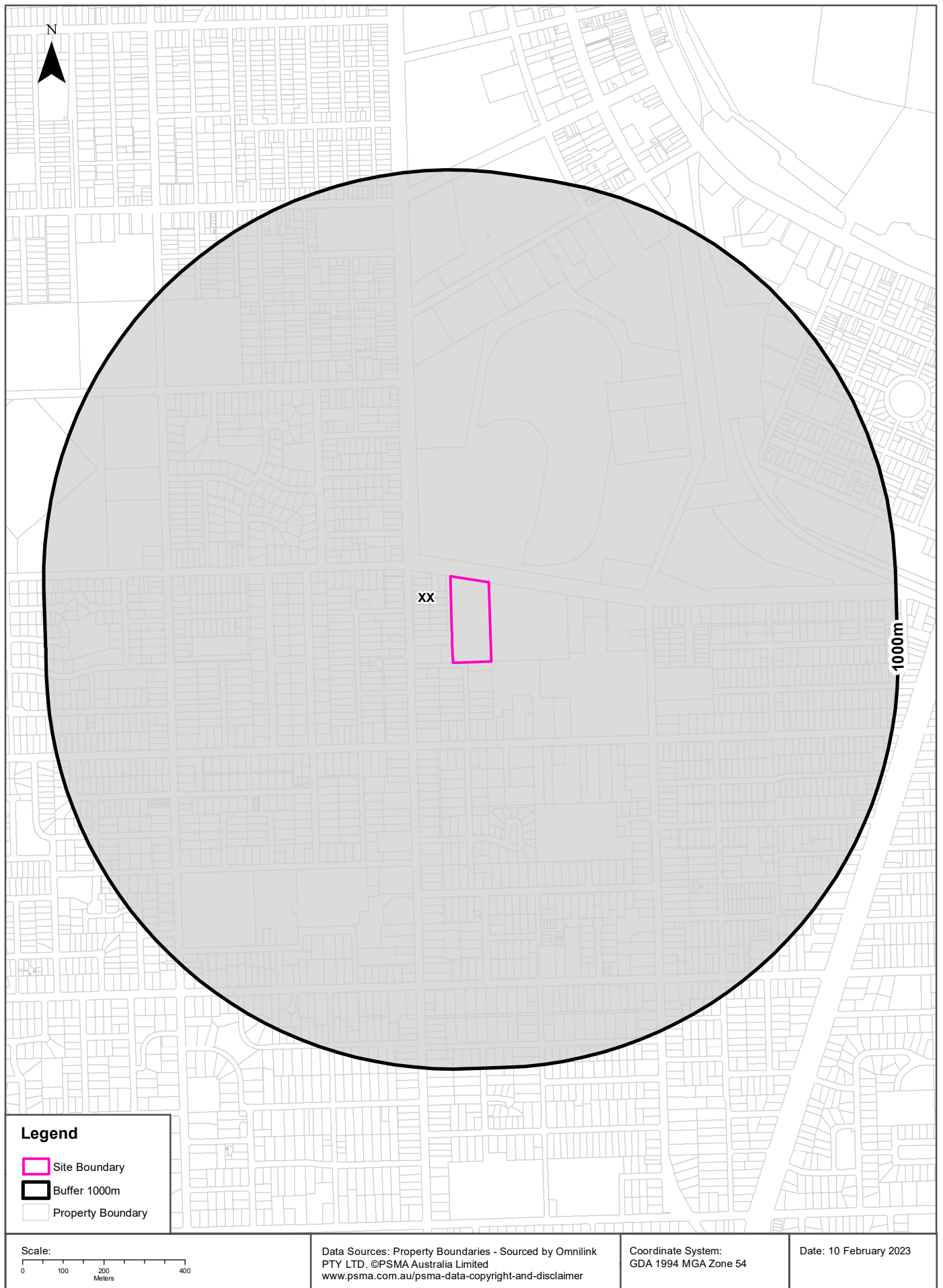
Map Unit Code	Soil Order	Map Unit Description	Distance	Direction
J2	Hydrosol	Coastal plain: saline clays (Uf6.61); lesser areas of crusty loamy soils (Drl.13) on the landward side; and calcareous sands (Uc1.11) along the coast. Incomplete data.	0m	On-site

Atlas of Australian Soils Data Source: CSIRO

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Soil Types

97 Grey Terrace, Port Pirie South, SA 5540



Soils

97 Grey Terrace, Port Pirie South, SA 5540

Soil Types

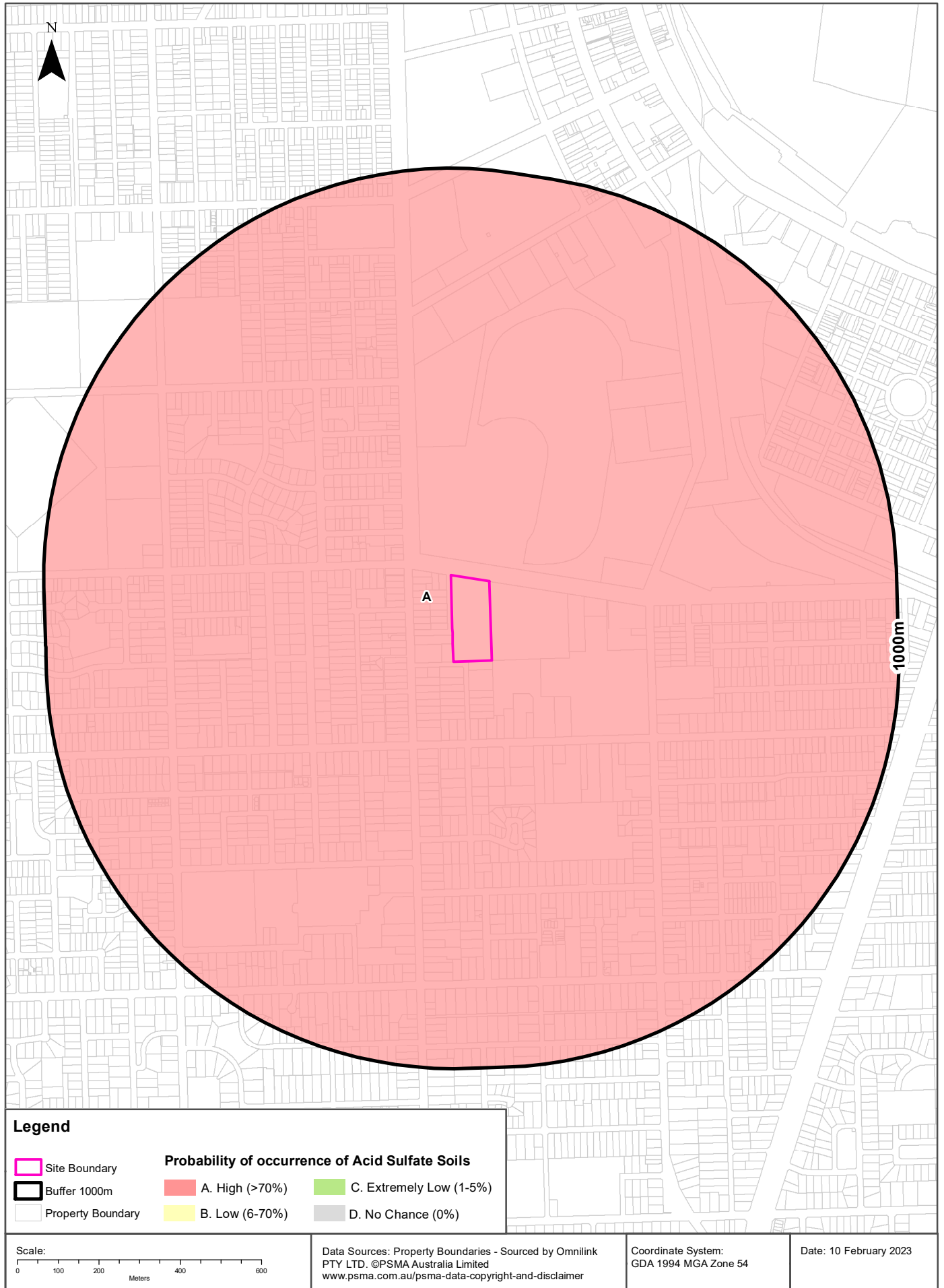
Soil types within the dataset buffer:

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

97 Grey Terrace, Port Pirie South, SA 5540



Acid Sulfate Soils

97 Grey Terrace, Port Pirie South, SA 5540

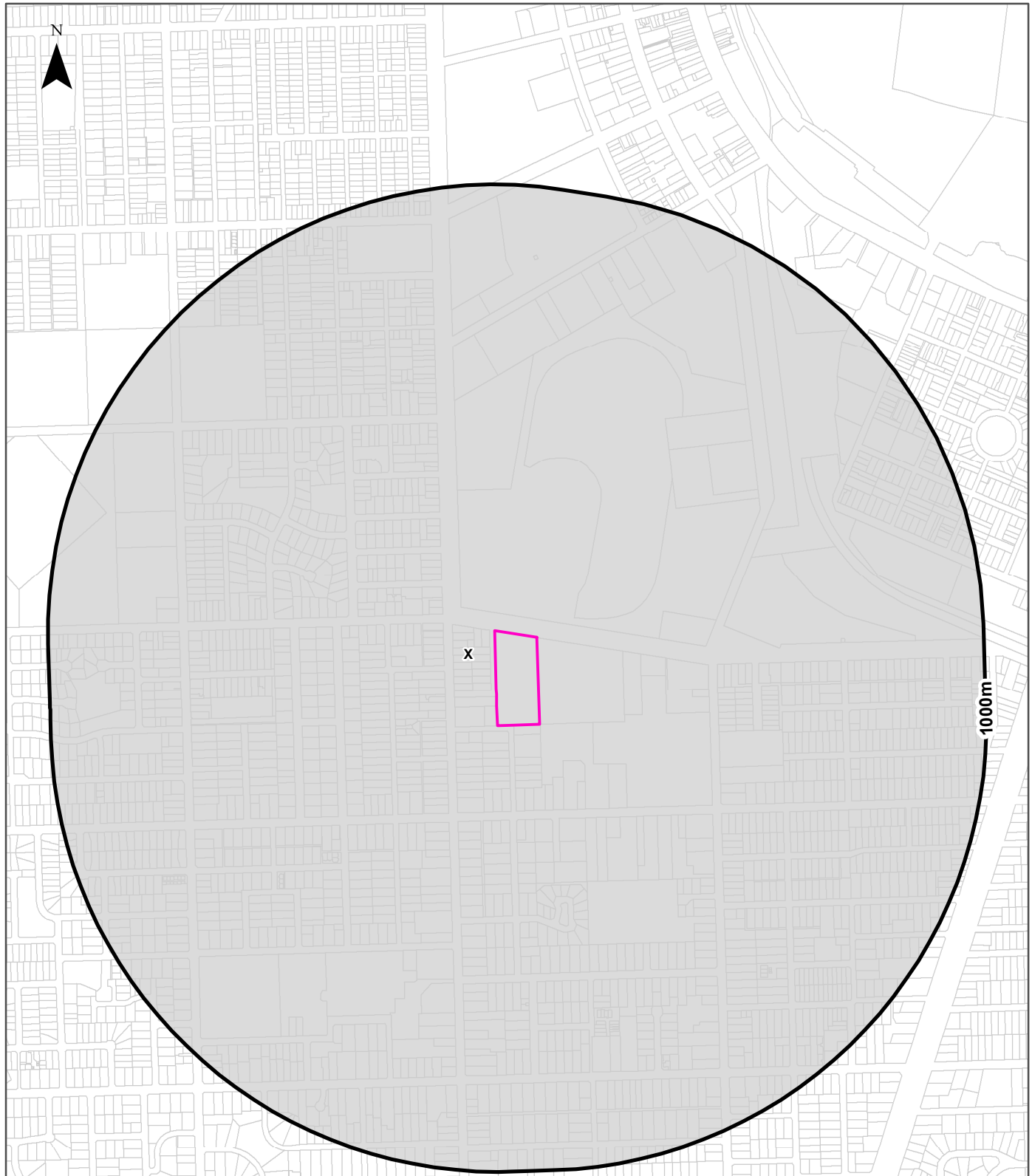
Atlas of Australian Acid Sulfate Soils

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

Class	Description	Distance	Direction
A	High Probability of occurrence. >70% chance of occurrence.	0m	On-site

Atlas of Australian Acid Sulfate Soils Data Source: CSIRO

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Legend		Proportion of land susceptible to the development of Acid Sulfate Soils	
Site Boundary	Negligible	30-60%	More than 60%
Buffer 1000m	1-10%	Incomplete data (usually wet inland areas)	Not applicable - No assessment/analysis
Property Boundary	10-30%		

<p>Scale:</p>	<p>Data Sources: Property Boundaries - Sourced by Omnilink PTY LTD. ©PSMA Australia Limited www.pasma.com.au/psma-data-copyright-and-disclaimer</p>	<p>Coordinate System: GDA 1994 MGA Zone 54</p>	<p>Date: 10 February 2023</p>
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Acid Sulfate Soils

97 Grey Terrace, Port Pirie South, SA 5540

Acid Sulfate Soil Potential

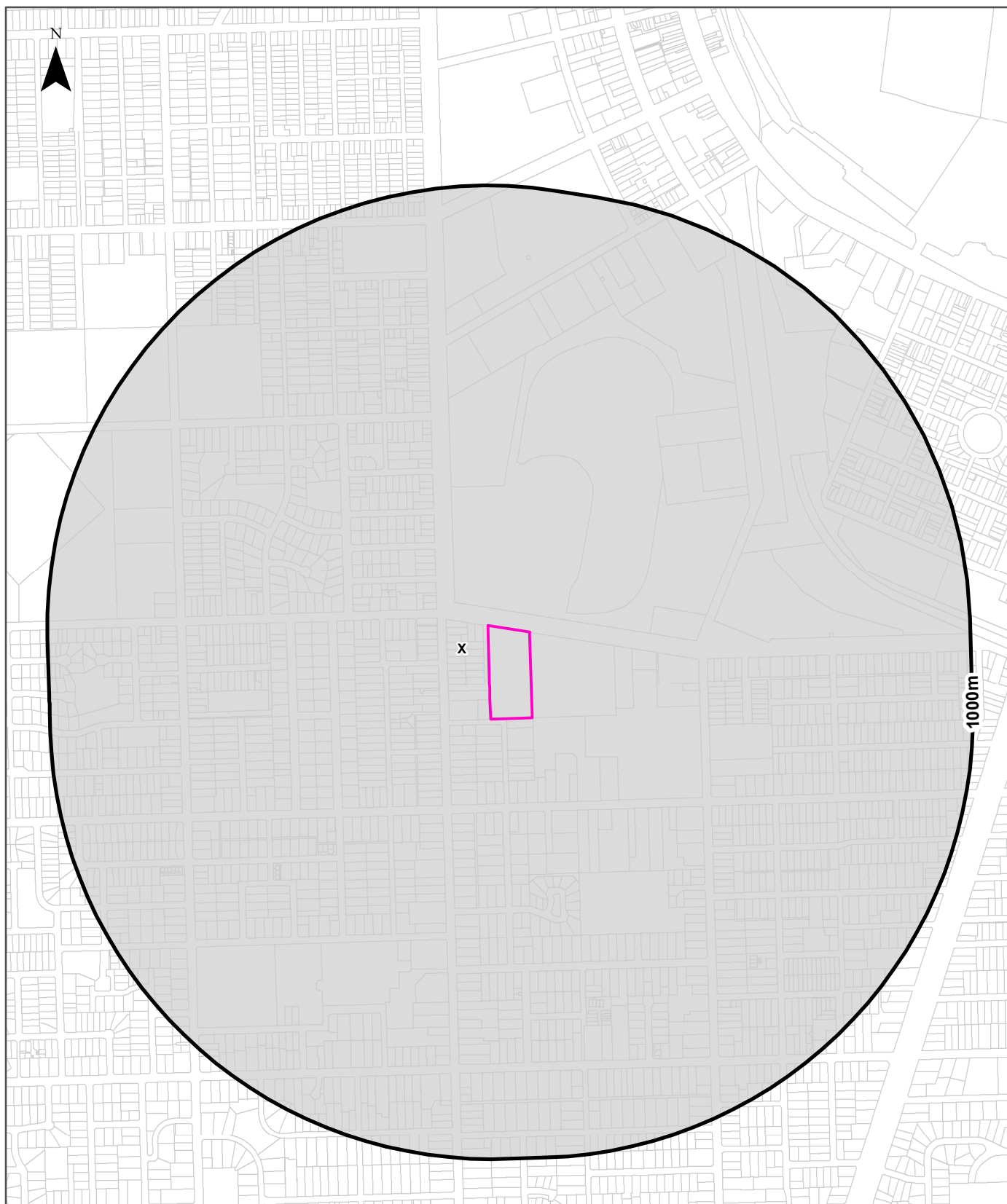
Acid sulfate soil potential within the dataset buffer:

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

97 Grey Terrace, Port Pirie South, SA 5540



Legend		Severity of watertable induced soil salinity					
	Site Boundary		A. Negligible		D. Moderately high		G. Very high to extreme
	Buffer 1000m		B. Moderately low		E. Moderately high to high		X. Not applicable
	Property Boundary		C. Moderate		F. High		



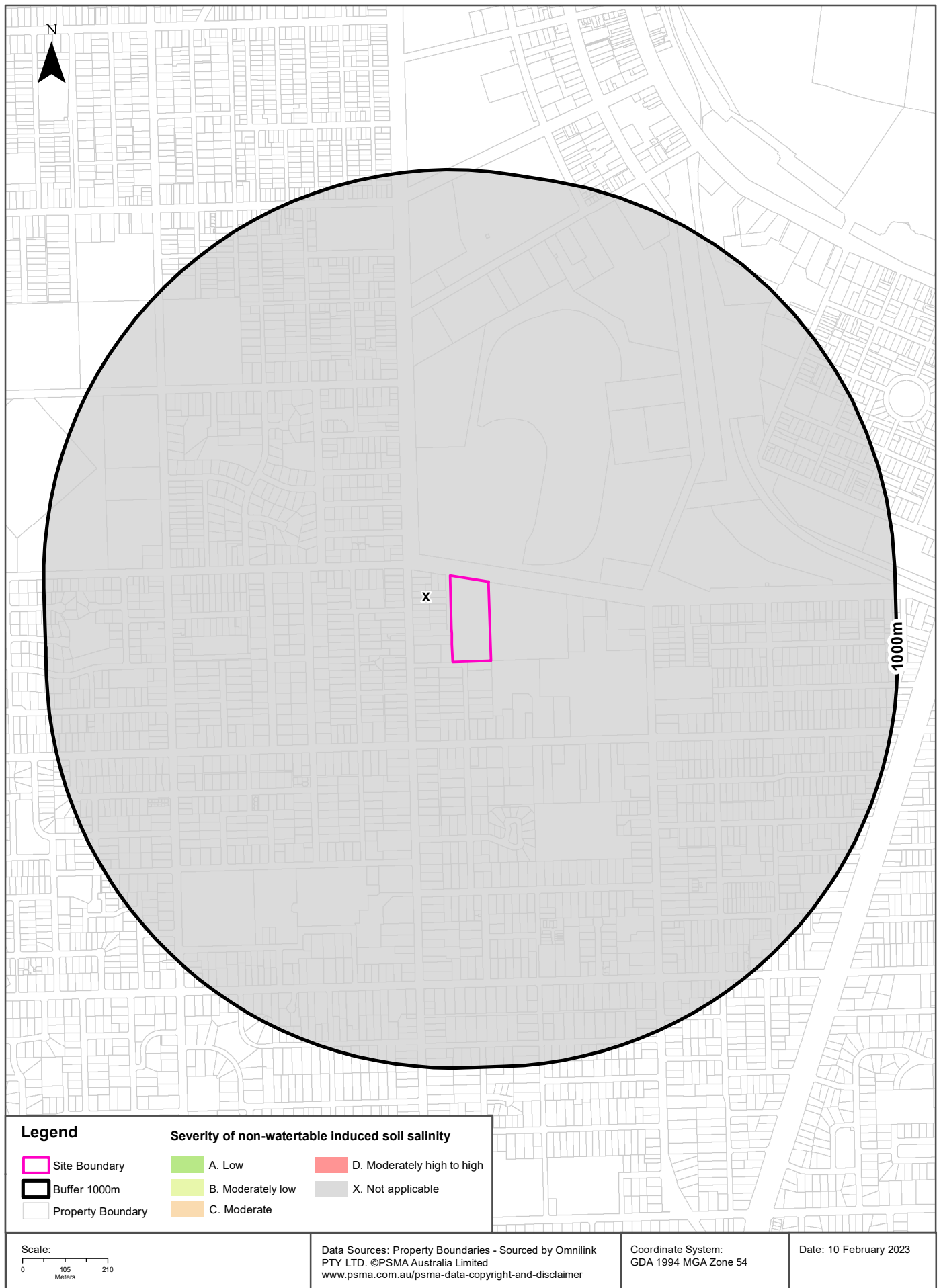
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Date: 10 February 2023

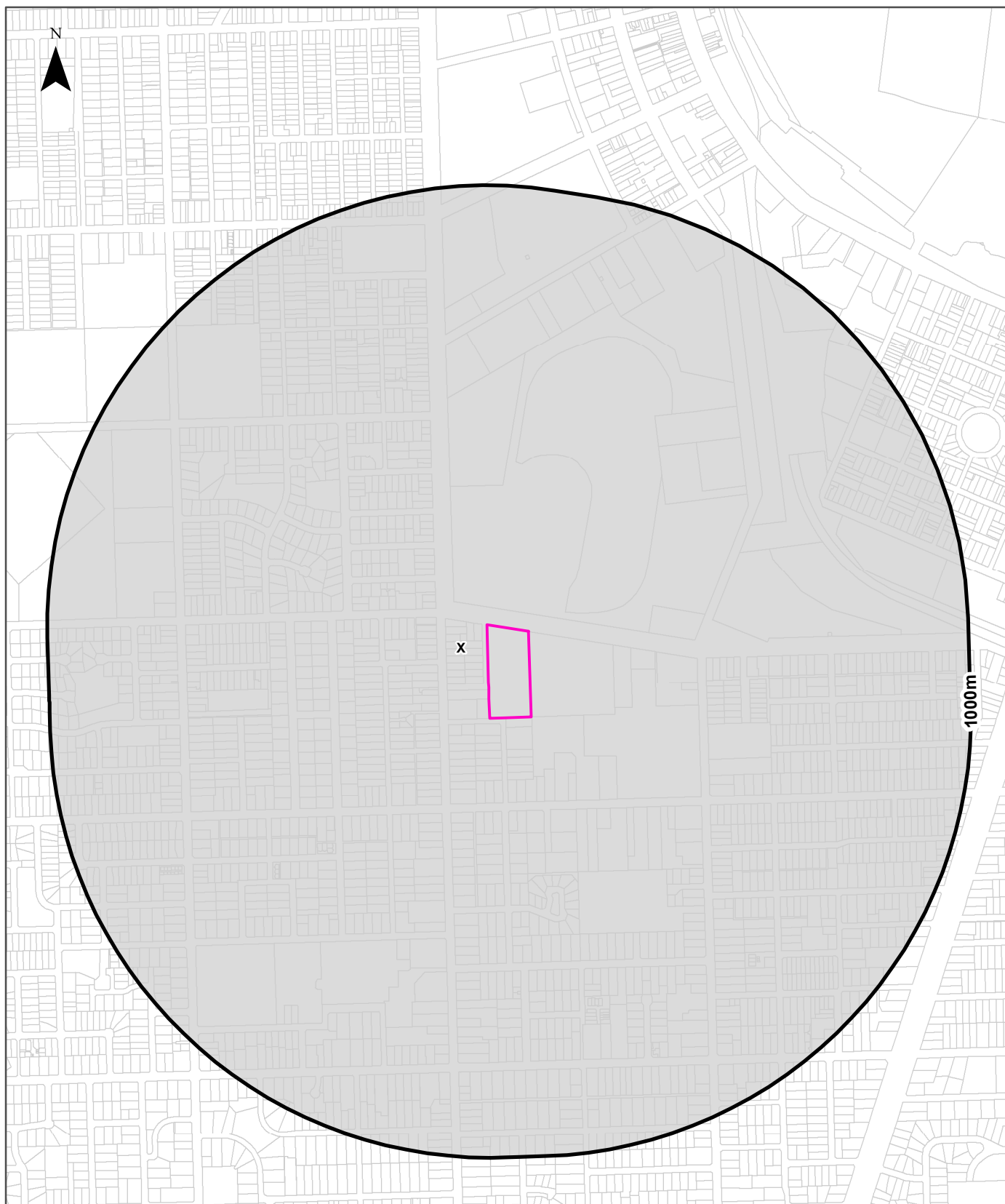
Soil Salinity - Non-watertable

97 Grey Terrace, Port Pirie South, SA 5540



Soil Salinity - Non-watertable (Magnesia Patches)

97 Grey Terrace, Port Pirie South, SA 5540



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



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Coordinate System:
GDA 1994 MGA Zone 54

Date: 10 February 2023

Soil Salinity

97 Grey Terrace, Port Pirie South, SA 5540

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)

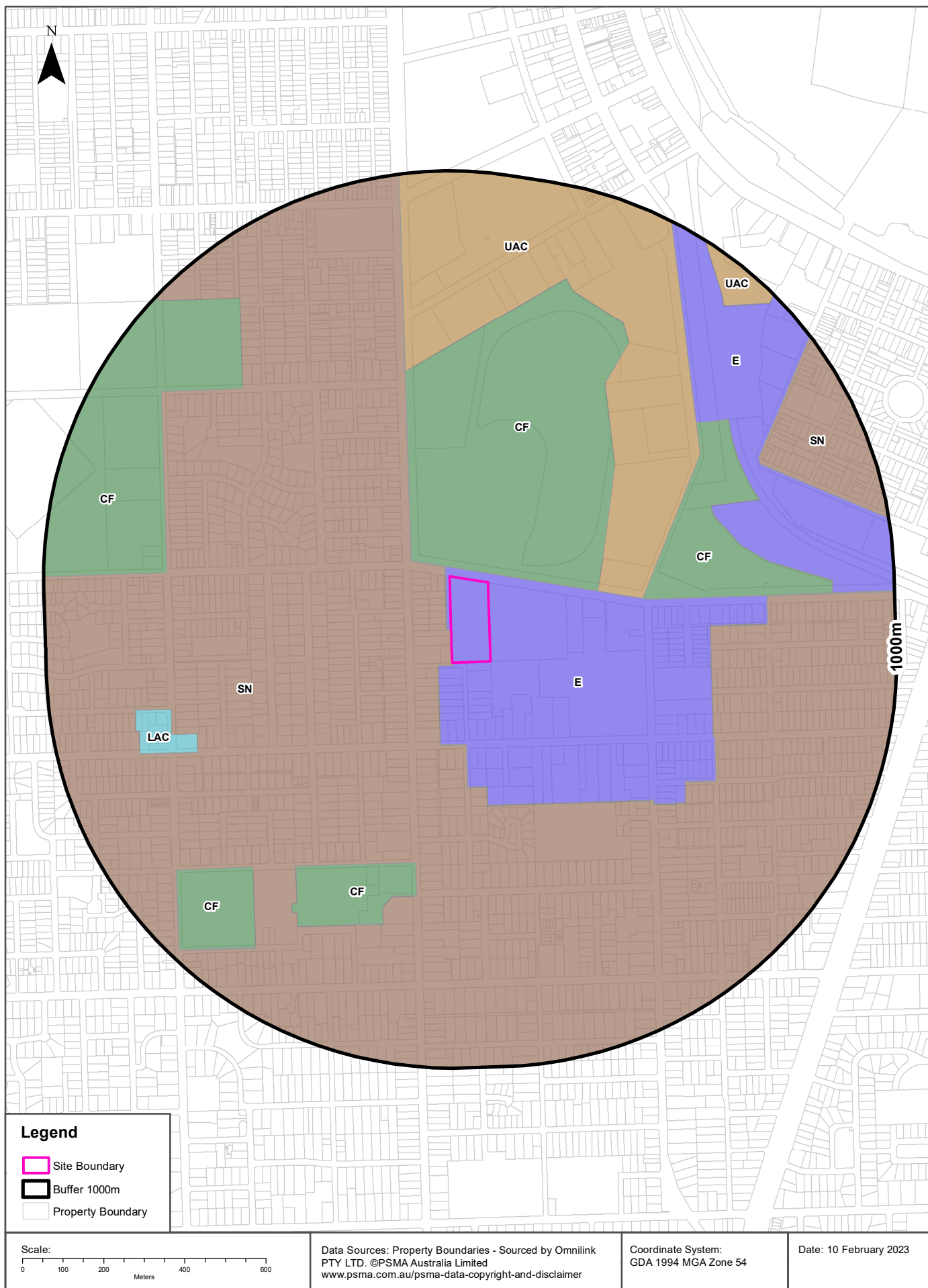
Magnesia patches within the dataset buffer:

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

97 Grey Terrace, Port Pirie South, SA 5540



Planning

97 Grey Terrace, Port Pirie South, SA 5540

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
E	Z1501	Employment	19/03/2021		0 0m	On-site
SN	Z5707	Suburban Neighbourhood	19/03/2021		0 0m	South West
CF	Z0903	Community Facilities	19/03/2021		0 23m	North
UAC	Z6301	Urban Activity Centre	19/03/2021		0 268m	North
CF	Z0903	Community Facilities	19/03/2021		0 378m	East
CF	Z0903	Community Facilities	19/03/2021		0 499m	South West
E	Z1501	Employment	19/03/2021		0 579m	North East
LAC	Z3603	Local Activity Centre	19/03/2021		0 652m	West
CF	Z0903	Community Facilities	19/03/2021		0 690m	North West
CF	Z0903	Community Facilities	19/03/2021		0 703m	South West
SN	Z5707	Suburban Neighbourhood	19/03/2021		0 730m	North East

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

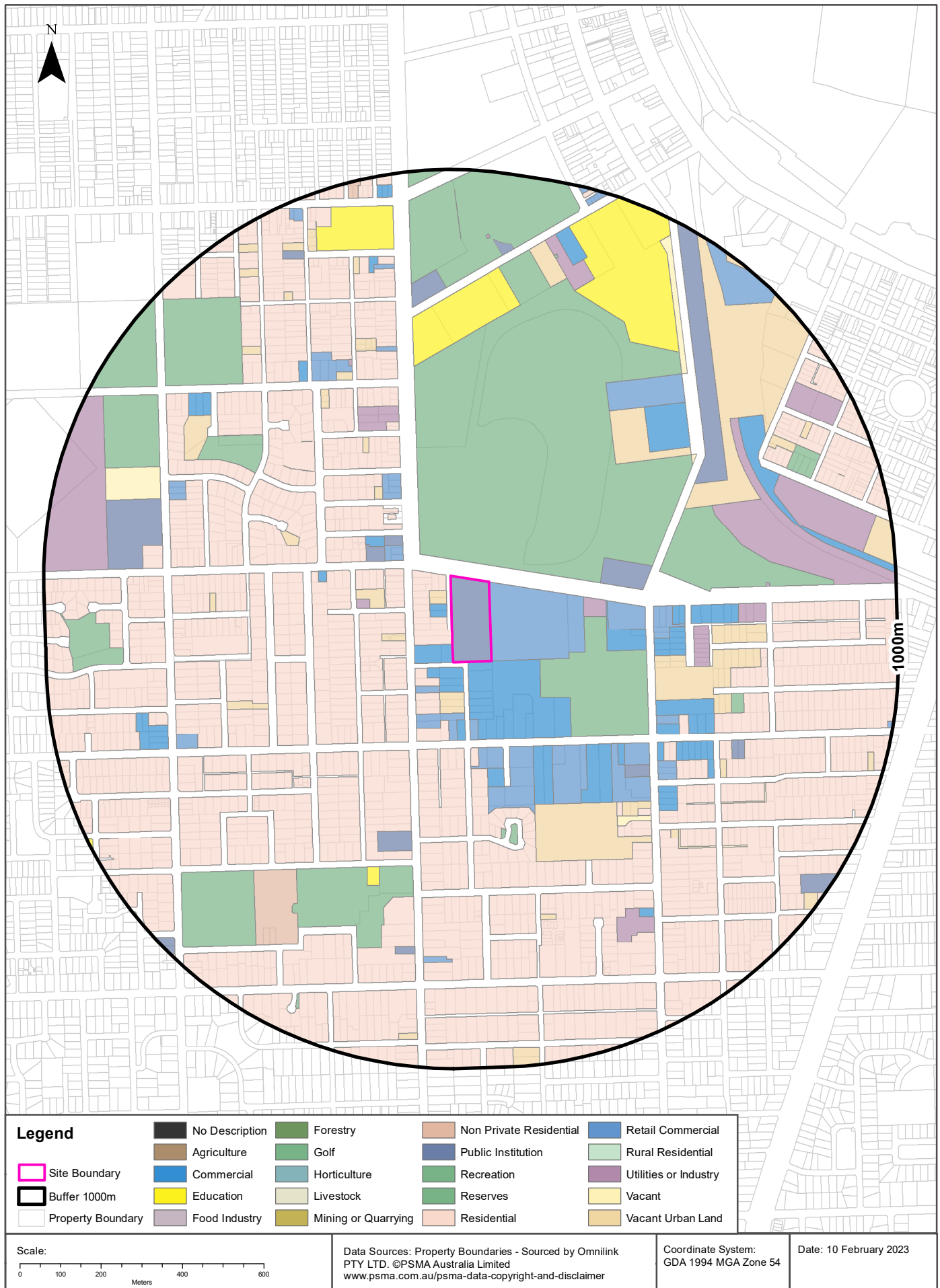
Planning and Design Code subzones within the dataset buffer:

Map Id	Subzone Code	Subzone Name	Legal Start Date	Status	Distance	Direction
N/A	No records in buffer					

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

97 Grey Terrace, Port Pirie South, SA 5540



Planning

97 Grey Terrace, Port Pirie South, SA 5540

Land Use Generalised

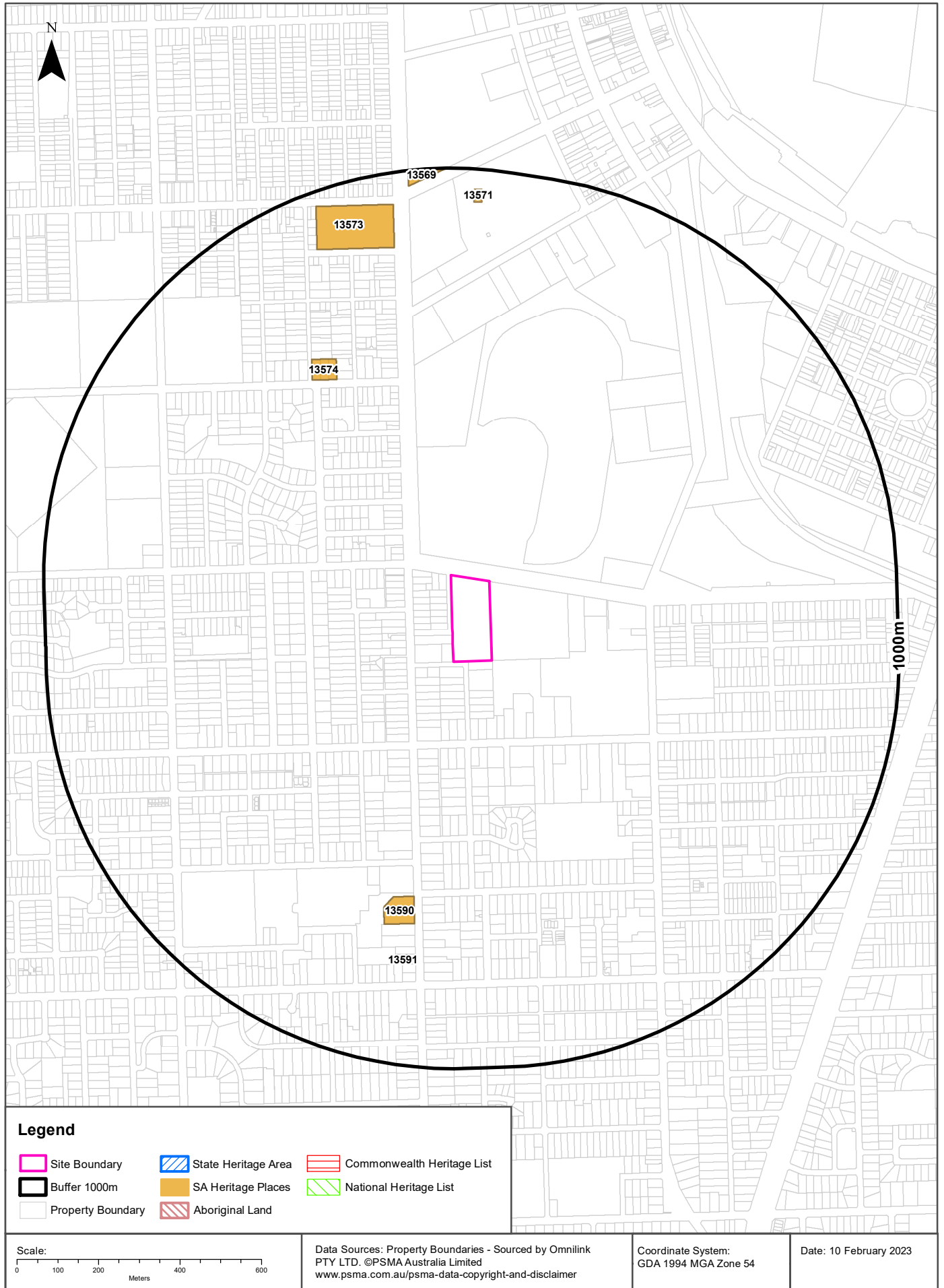
Land use classes within the dataset buffer:

Description	Distance	Direction
Public Institution	0m	On-site
Commercial	0m	South East
Residential	0m	West
Retail Commercial	0m	East
Vacant Urban Land	12m	North West
Recreation	41m	North
Utilities or Industry	201m	West
Non Private Residential	368m	South East
Reserves	403m	South
Vacant	489m	South East
Education	524m	North

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

97 Grey Terrace, Port Pirie South, SA 5540



Heritage

97 Grey Terrace, Port Pirie South, SA 5540

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

National Heritage List

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

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

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

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

State Heritage 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
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SA Heritage Places

SA Heritage Places within the dataset buffer:

Heritage No	Location	Heritage Class	Australian Class	Details	Auth Date	Distance	Direction
13574	Cnr. Moppett Road and Fourth Street PORT PIRIE WEST	Local	Hotel - Motel - Inn	Risdon Hotel	10/03/2005	558m	North West
13590	380 The Terrace RISDON PARK	Local	House	House	10/03/2005	584m	South
13591	390 The Terrace RISDON PARK	Local	Religious Building	Risdon Park Uniting Church building only	10/03/2005	730m	South
13573	Cnr. of Goode Road and The Terrace PORT PIRIE WEST	Local	Pre-primary School - Kindergarten	Kindergarten (Former School)	10/03/2005	818m	North
13571	Between Norman Street and Mary Elle Street PORT PIRIE	Local	Stadium - Grandstand	Grandstand	10/03/2005	921m	North
13569	Memorial Park , off Norman Street PORT PIRIE	Local	Parks - Recreation - Public Open Space - Gardens	John Pirie Anchor	10/03/2005	963m	North

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

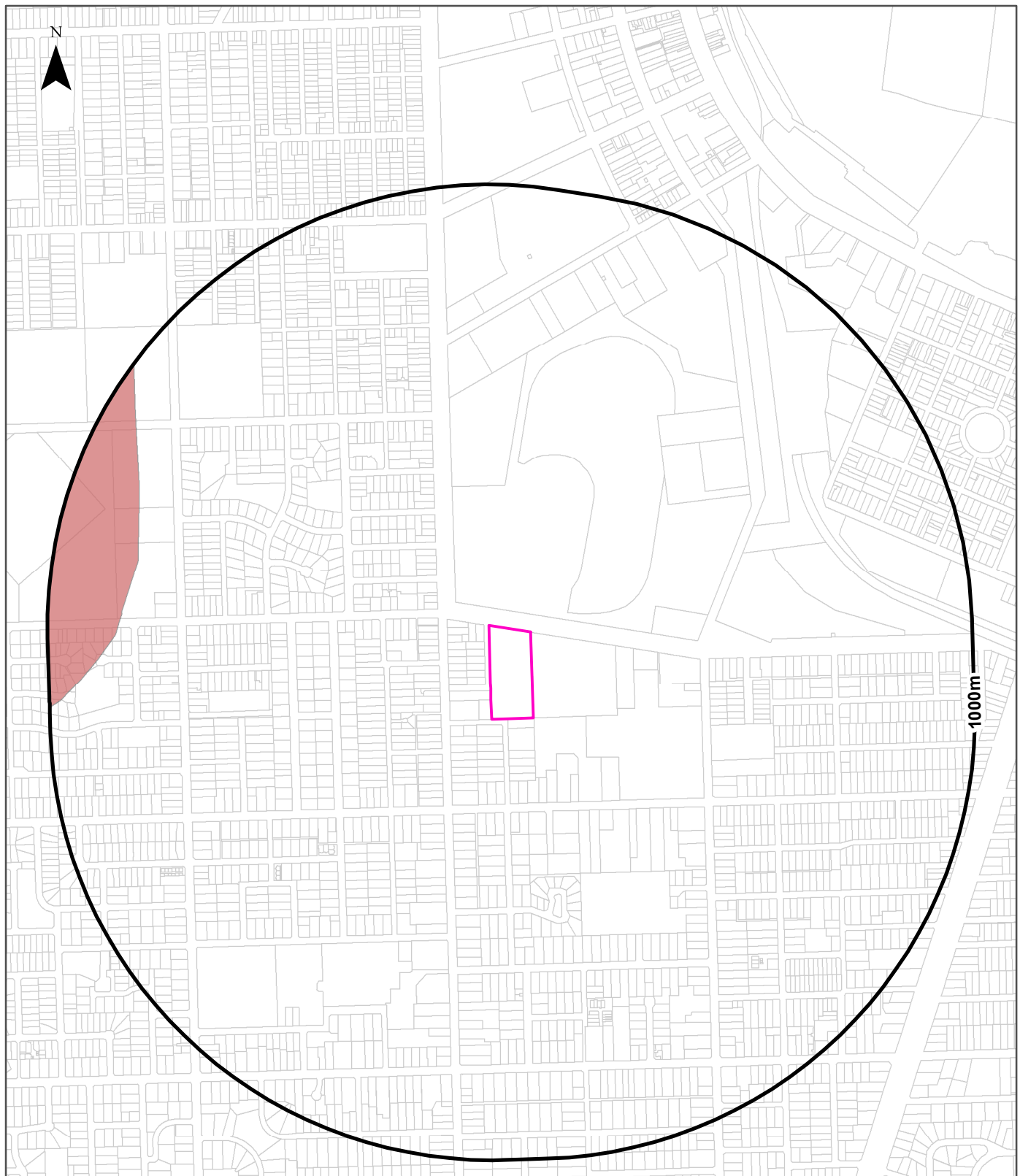
Aboriginal Land within the dataset buffer:

	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

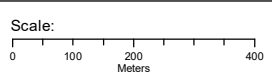
Natural Hazards - Bushfire

97 Grey Terrace, Port Pirie South, SA 5540



Legend

- | | | |
|-------------------|---|-----------------|
| Site Boundary | Planning and Design Code Bushfire Overlays | |
| Buffer 1000m | High Risk | Urban Interface |
| Property Boundary | Medium Risk | Outback |
| Bushfire History | General | Regional |



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: 10 February 2023

Natural Hazards

97 Grey Terrace, Port Pirie South, SA 5540

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
O2408	Hazards (Bushfire - Urban Interface)	The Hazards (Bushfire - Urban Interface) Overlay seeks to ensure urban neighbourhoods adjoining bushfire risk areas allow access through to bushfire risk areas, are designed to protect life and property from the threat of bushfire and facilitate evacuati	19/03/2021		809m	West

Bushfire Overlays Data Source: Attorney-General's Department - South Australia

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Bushfires and Prescribed Burns History

Bushfires and prescribed burns within the dataset buffer:

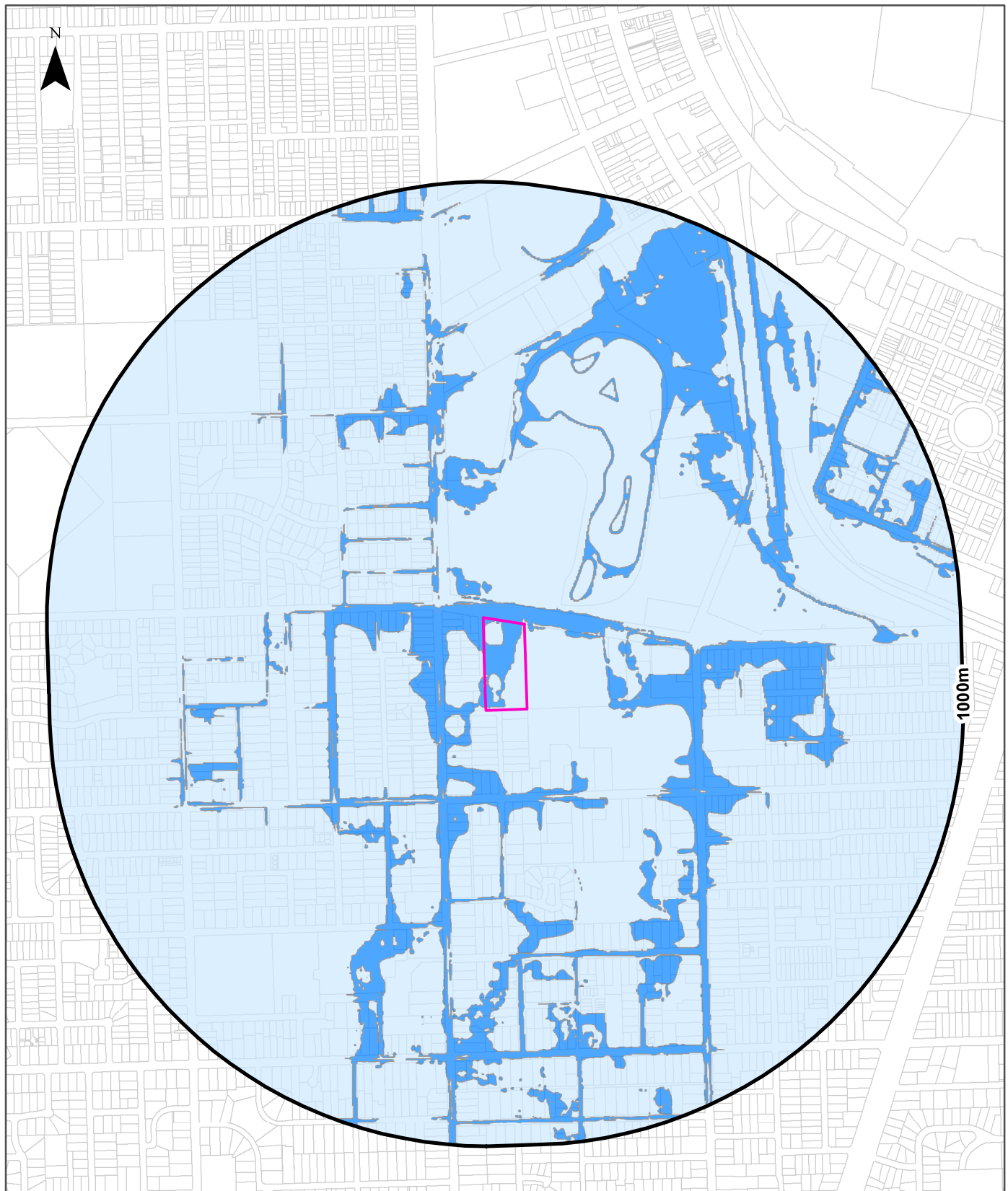
Map Id	Incident No.	Incident Name	Incident Type	Date of Fire	Area of Fire (ha)	Distance	Direction
N/A	No records in buffer						

Bushfires and Prescribed Burns History Data Source: Dept of Environment, Water and Natural Resources - South Australia

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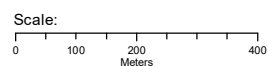
Natural Hazards - Flood

97 Grey Terrace, Port Pirie South, SA 5540



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: 10 February 2023

Natural Hazards

97 Grey Terrace, Port Pirie South, SA 5540

Flooding Overlays

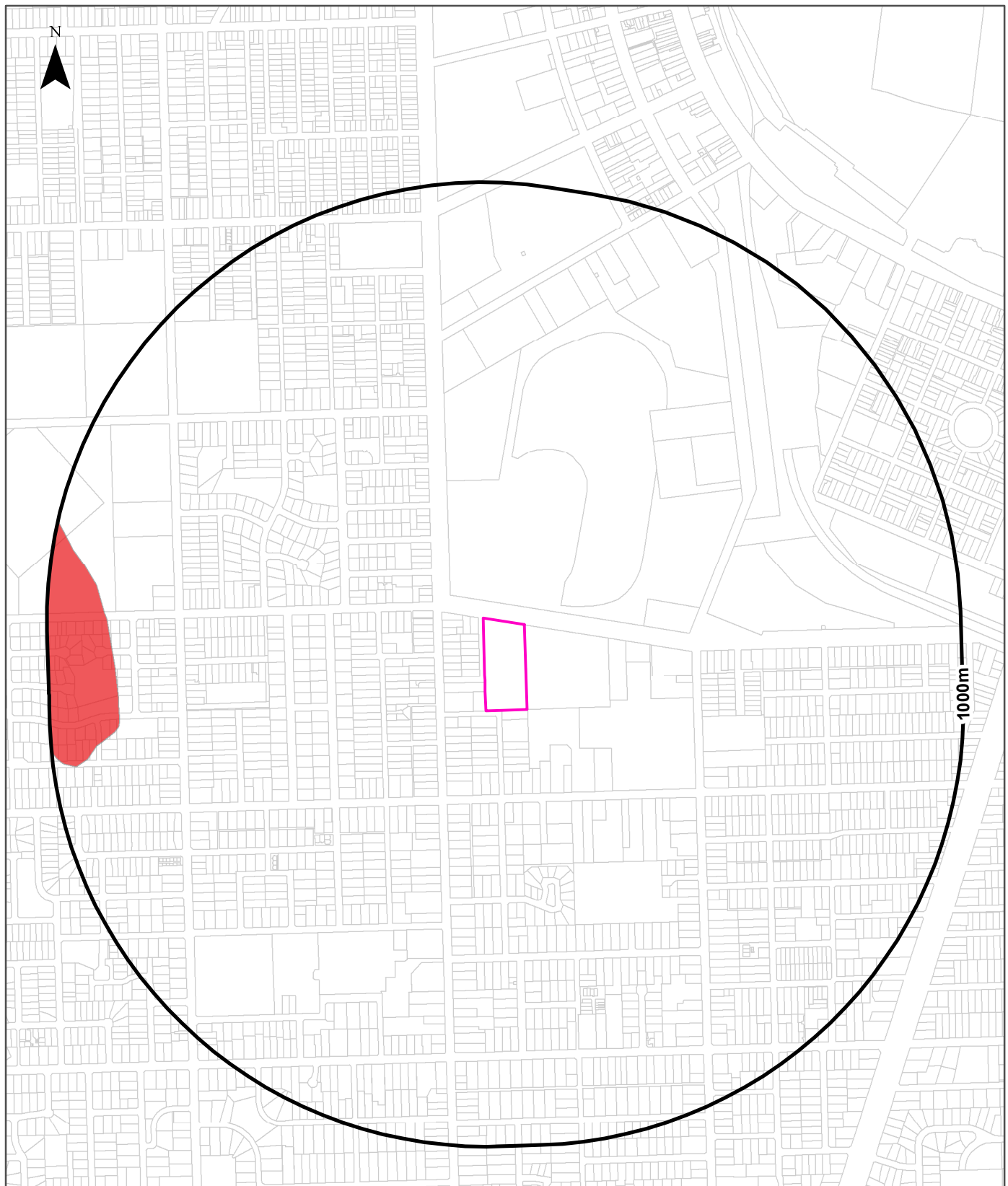
Flooding Overlays from the Planning and Design Code within the dataset buffer:

Overlay Id	Name	Description	Legal Start	Legal End	Distance	Direction
O0904	Coastal Flooding	The Coastal Flooding Overlay seeks to minimise coastal flood hazard risk to property and infrastructure.	19/03/2021		0m	On-site
O2403	Hazards (Flooding)	The Hazards (Flooding) Overlay seeks to minimise flood hazard risk to people, property, infrastructure and the environment.	10/11/2022		0m	On-site
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

Flooding 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>

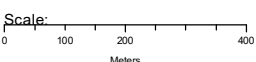
Ecological Constraints - Groundwater Dependent Ecosystems Atlas

97 Grey Terrace, Port Pirie South, SA 5540



Legend

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



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

Date: 10 February 2023

Ecological Constraints

97 Grey Terrace, Port Pirie South, SA 5540

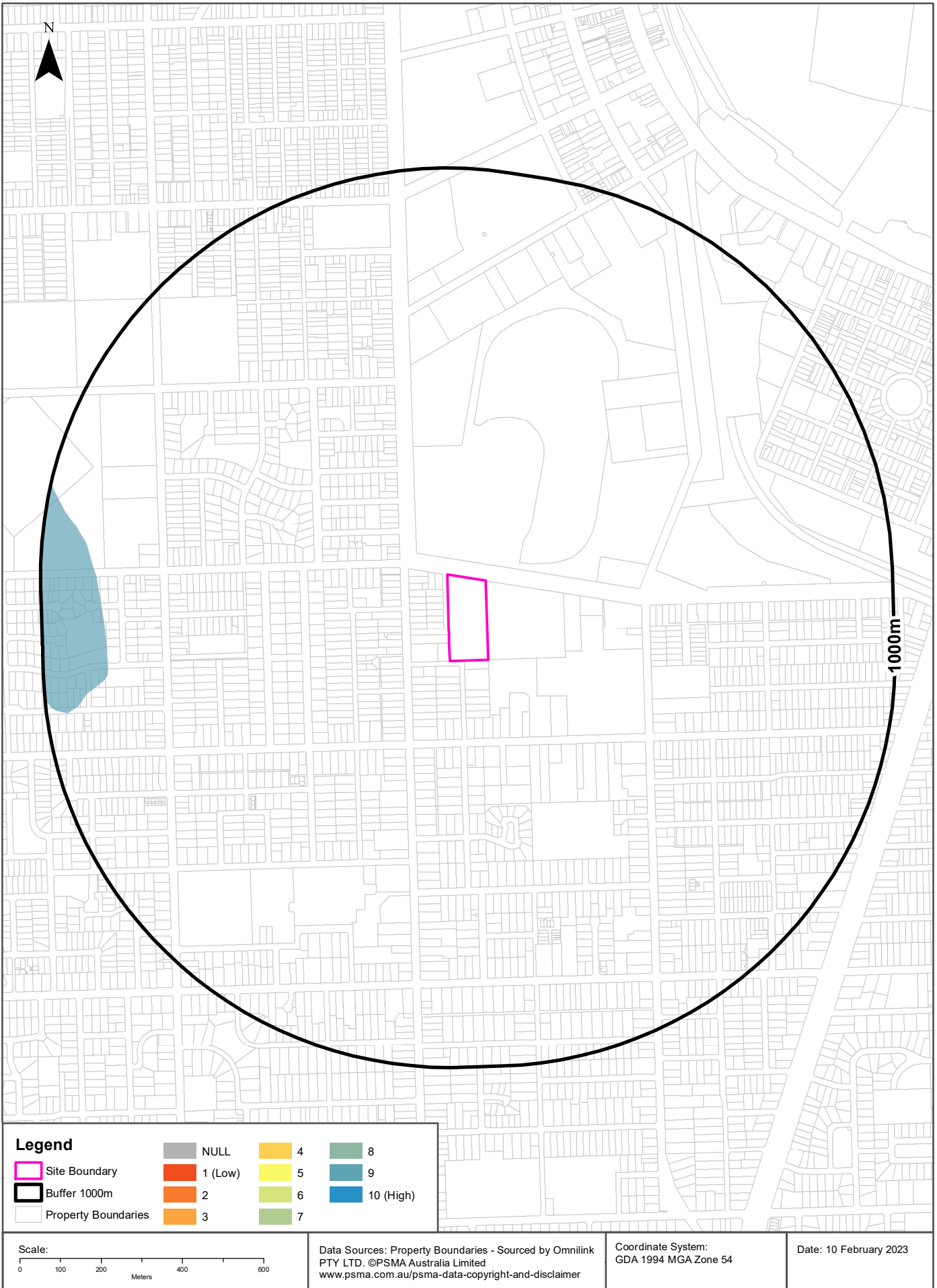
Groundwater Dependent Ecosystems Atlas

Type	Name	GDE Potential	Geomorphology	Ecosystem Type	Aquifer Geology	Distance	Direction
Terrestrial		High potential GDE - from national assessment	Salt lake and bahadas in north; alluvial and littoral plains in south; north-west/south-east longitudinal dunes, mainly stabilized.	Vegetation		840m	West

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

97 Grey Terrace, Port Pirie South, SA 5540



Ecological Constraints

97 Grey Terrace, Port Pirie South, SA 5540

Inflow Dependent Ecosystems Likelihood

Type	Name	IDE Likelihood	Geomorphology	Ecosystem Type	Aquifer Geology	Distance	Direction
Terrestrial		9	Salt lake and bahadas in north; alluvial and littoral plains in south; north-west/south-east longitudinal dunes, mainly stabilized.	Vegetation		840m	West

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

97 Grey Terrace, Port Pirie South, SA 5540

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
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Location Confidences

Where Lotsearch has had to georeference features from supplied addresses, a location confidence has been assigned to the data record. This indicates a confidence to the positional accuracy of the feature. Where applicable, a 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**

**Historical Certificate of Title Tree
Port Pirie MFS Fire Station**

Current CT 5808/746

South Australian Metropolitan Fire Service
September 2000 to current



CT 3080/170 (Part Allotment 64)

The Fire Brigades Board
June 1962 to September 2000



CT 2303/18 (Allotment 64)

The Fire Brigades Board
January 1954 to June 1962



CT 2093/180 (Allotment 64)

The Fire Brigades Board
August 1950 to January 1954



CT 1503/35 (Allotments 64 and 67)

Arthur Nutter Thomas and Whitmore
Blake Carr and Percy Emerson Johnstone
March 1928 to July 1950

8868573



LANDS TITLES REGISTRATION OFFICE SOUTH AUSTRALIA

GRANT OF EASEMENT

FORM APPROVED BY THE REGISTRAR-GENERAL

BELOW THIS LINE FOR AGENT USE ONLY

Table with Series No. and Prefix (TG)

Form for Agent Use Only containing signature of R.G. White and title 'Solicitor/Registered Conveyancer/Applicant'.

BELOW THIS LINE FOR OFFICE USE ONLY

Form for Office Use Only containing Date (06 APR 2000), Time (10:50), and Fees table.

Form for NEW CERTIFICATE(S) OF TITLE TO ISSUE with handwritten '2'.

Form for NEW C.T. TO ISSUE with handwritten details for within easement and balance in CT5491/674.

06APR1900 010100625L.T.O. 82.00

06APR1900 010100626L.T.O. 98.00

Lodged by: Butchart White + Jureidini. Correction to: Jureidini. AGENT CODE: BWJU.

TITLES, CROWN LEASES, DECLARATIONS ETC. LODGED WITH INSTRUMENT (TO BE FILLED IN BY PERSON, LODGING). Includes list 1-5 and Assessor signature.

PLEASE ISSUE NEW CERTIFICATES OF TITLE AS FOLLOWS. Includes list 1-5.

DELIVERY INSTRUCTIONS (Agent to complete) PLEASE DELIVER THE FOLLOWING ITEM(S) TO THE UNDERMENTIONED AGENT(S)

Table with columns ITEM CT/CL REF. and AGENT CODE. Row 1: BWJU, BWJU.

Table with CORRECTION and PASSED columns. PASSED has a handwritten mark.

REGISTERED 5 JUN 2000. Includes Registrar General stamp and signature.

21 MARCH

23

DATED 16 FEBRUARY 2000

EXECUTION (GRANTOR)

.....
Signature of the GRANTOR

The Common Seal of SOUTH AUSTRALIAN METROPOLITAN FIRE SERVICE was hereunto affixed in the presence of:

.....
Signature of WITNESS - Signed in my presence by the Grantor who is either personally known to me or has satisfied me as to his or her identity. A penalty of up to \$2000 or 6 months imprisonment for improper witnessing.



JOHN GRAY
.....
Print full name of Witness (BLOCK LETTERS)

.....
Chief Executive Officer

6A FOXFIELD DR ONKAPARINGA Hills SA.
.....
Print Address of Witness

.....
Director - Operations

.....
Business Hours Telephone No.....

ACCEPTANCE - GRANTEE

The within grant is hereby accepted.

The Common Seal of PORT PIRIE REGIONAL COUNCIL was hereunto affixed in the presence of:

.....
Mayor



.....
Chief Executive Officer

THE GRANTOR ACKNOWLEDGES RECEIPT OF THE CONSIDERATION HEREIN EXPRESSED AND
HEREBY GRANTS TO THE GRANTEE

HERE SET FORTH
THE RIGHTS AND
LIBERTIES BEING
CREATED.
DEFINE PRECISELY.

an easement for drainage purposes over that portion
of the said land above described being the whole of
that portion of Section 57 marked B in Filed Plan 41401

~~TO BE HELD BY APPURTENANCE TO~~

HERE SET FORTH
APPURTENANCE.
DEFINE PRECISELY.

EASEMENT IN GROSS

GRANT OF EASEMENT
Pursuant to section 96 of the Real Property Act 1886

573

CERTIFICATE(S) OF TITLE OVER WHICH RIGHTS AND LIBERTIES ARE BEING GRANTED

The whole of the land comprised in Certificate of Title
Register Book VOLUME 5491 FOLIO 674

COMMISSIONER OF STATE TAXATION

S.A. STAMP DUTY PAID \$1.0
ADJUDGED DULY STAMPED
ORIGINAL with 0 copies
27/08/2000 10:45:00 00027507 1
Consideration / Value (\$100.00)
VOLUNTARY CONVEYANCE

ESTATE OR INTEREST

ENCUMBRANCE(S)

FEE SIMPLE

Nil

GRANTOR(S) (Full Name and Address)

SOUTH AUSTRALIAN METROPOLITAN FIRE SERVICE of 87 Wakefield Street
Adelaide SA 5000

CONSIDERATION

Agreement made between the Grantor and the Grantee to establish an
easement for drainage purposes and without any other consideration what-
soever (the value of the easement being created does not exceed \$100)

GRANTEE(S) (Full Name, Address and Certificate of Title Affected)

PORT PIRIE REGIONAL COUNCIL of PO Box 45 Port Pirie SA 5540



The Registrar-General certifies that this Title Register Search displays the records maintained in the Register Book and other notations at the time of searching.



Certificate of Title - Volume 5800 Folio 269

Parent Title(s)	CT 5491/674			
Creating Dealing(s)	TG 8868573			
Title Issued	19/08/2000	Edition 1	Edition Issued	19/08/2000

Estate Type

FEE SIMPLE

Registered Proprietor

SOUTH AUSTRALIAN METROPOLITAN FIRE SERVICE
OF 87 WAKEFIELD STREET ADELAIDE SA 5000

Description of Land

SECTION 57
HUNDRED OF PIRIE
IN THE AREA NAMED PORT PIRIE SOUTH

Easements

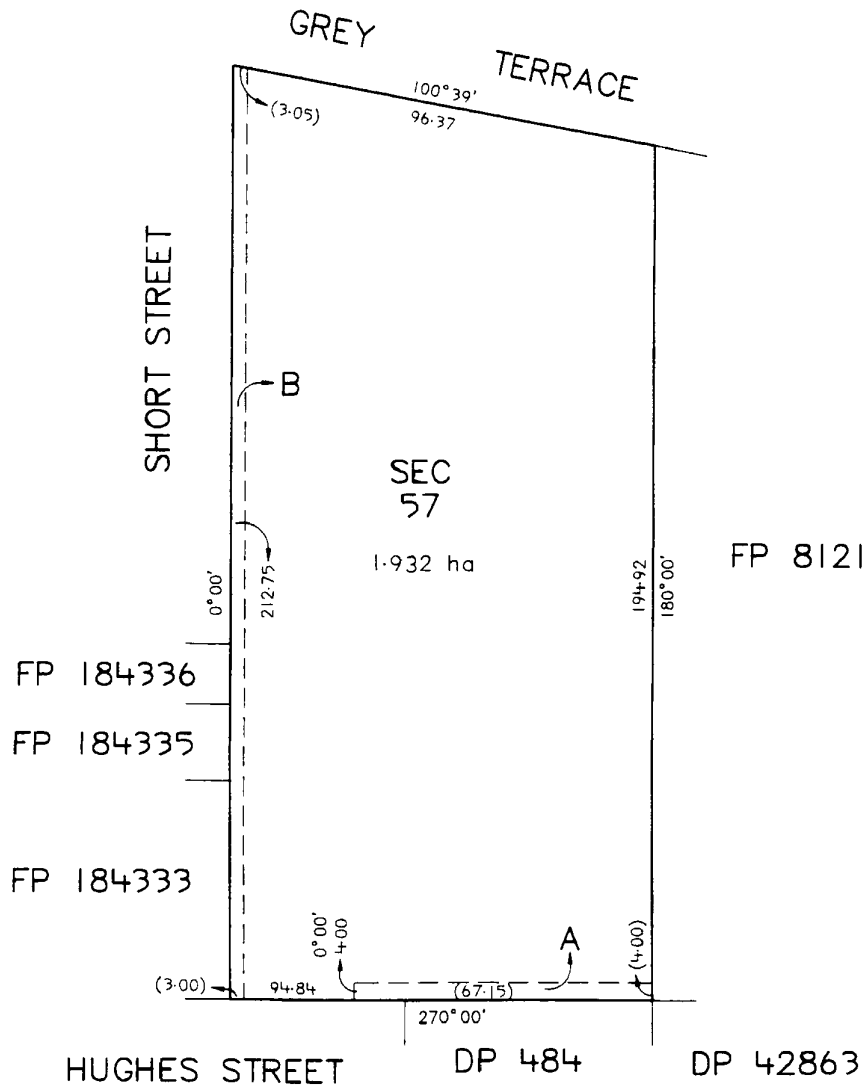
SUBJECT TO EASEMENT(S) OVER THE LAND MARKED A TO THE MINISTER FOR INFRASTRUCTURE (T 4551120)
SUBJECT TO EASEMENT(S) OVER THE LAND MARKED B FOR DRAINAGE PURPOSES TO THE COUNCIL FOR THE AREA (TG 8868573)

Schedule of Dealings

NIL

Notations

Dealings Affecting Title	NIL
Priority Notices	NIL
Notations on Plan	NIL
Registrar-General's Notes	NIL
Administrative Interests	NIL



Certificate of Title

Title Reference: CT 5800/269
Status: CURRENT
Parent Title(s): CT 5491/674
Dealing(s) Creating Title: TG 8868573
Title Issued: 19/08/2000
Edition: 1

Dealings

No lodged Dealings found.

REAL PROPERTY ACT, 1886



South Australia

The Registrar-General certifies that this Title Register Search displays the records maintained in the Register Book and other notations at the time of searching.

**THIS TITLE IS CANCELLED****THIS EDITION IS CANCELLED**

Certificate of Title - Volume 5491 Folio 674

Parent Title(s)	CT 4160/768		
Creating Dealing(s)	CONVERTED TITLE		
Title Issued	14/01/1998	Edition 1	Edition Issued 14/01/1998
Title Cancelled	19/08/2000	Edition Cancelled	19/08/2000
Child Title(s)	CT 5800/268, CT 5800/269		
Diagram Reference	4160768		

Estate Type

FEE SIMPLE

Registered Proprietor

SOUTH AUSTRALIAN METROPOLITAN FIRE SERVICE
OF 87 WAKEFIELD STREET ADELAIDE SA 5000

Description of Land

SECTION 57
HUNDRED OF PIRIE
IN THE AREA NAMED PORT PIRIE SOUTH

Easements

SUBJECT TO EASEMENT(S) OVER THE LAND MARKED A TO THE MINISTER FOR INFRASTRUCTURE (T 4551120)

Schedule of Dealings

Dealing Number	Description
8778587	REQUEST FOR PLAN APPROVAL / FILING
8868573	EASEMENT/PROFIT A PRENDRE



Pursuant to Memorandum of Transfer No 498183

William Campbell of Port Broughton Laborer is the proprietor of an estate in fee simple

subject nevertheless to such incumbrances liens and interests as are notified by memorial underwritten or endorsed hereon in That piece of land situated in the Hundred of Pirie COUNTY of Victoria

being PORTION OF SECTION 57 and bounded as appears in the plan in the margin hereof and therein colored green: Which said piece of land contains one acre and twenty six perches or thereabouts and measures on the northerly side next a Government Road one hundred and thirty six feet and four inches or thereabouts on the southerly side next other portion of the said Section one hundred and thirty four feet or thereabouts on the easterly side next other portion of the said Section three hundred and sixty six feet and two inches or thereabouts and on the westerly side next portion of Section 56 three hundred and ninety one feet and four inches or thereabouts

which said Sections are delineated in the public map of the said Hundred deposited in the office of the Surveyor-General.

In witness whereof I have hereunto signed my name and affixed my seal this twentieth day of November 1909

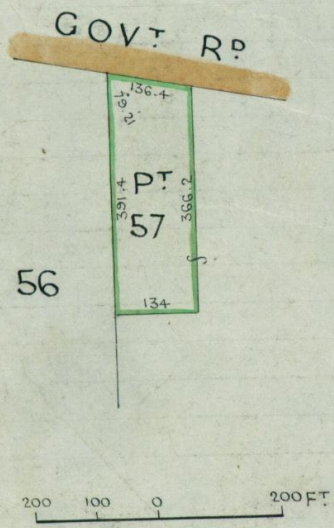
Signed the 20th day of November 1909, in the presence of Cha. Ackwarz

M. Miles Registrar-General



Mortgage No 502309 from William Campbell to Edmund Campbell Produced for registration the 21 day of January 1910 at 11.30 am Vernon Edwards Dep. Reg. Genl

DISCHARGE OF THE STATE MORTGAGE NO 502309 BY RECEIPT ENDORSED THEREON, PRODUCED FOR REGISTRATION THE 21 DAY OF November 19 AT 2.40 pm J. W. Wetherill Dep. Reg. General



TRANSFER No. 1105747 FROM William Campbell To Commissioner of Taxes OF AN ESTATE IN FEE SIMPLE IN THE WITHIN LAND PRODUCED FOR REGISTRATION THE 26 DAY OF August 1909 AT 2.15 pm W. Wetherill DEP. REG. GENL.

Cancelled the within land having been acquired by the Crown W. Wetherill Dep. Reg. Genl

Over

Over

NCAN 1771043

The above cancellation is annulled and the within land is now vested for an estate in fee simple in The Minister of Lands by virtue of Section 65(5) of The Land Tax Act 1936-1948.

Request no 1771043

Produced for registration the 17 day of March 1953 at 11.45am

G. E. Cresswell Dep Reg Genl.

1789686

TRANSFER No. <u>1789686</u>	FROM
<u>The Minister of Lands to</u>	
<u>Arthur Edmund Hall</u>	
OF THE WITHIN <u>land</u>	
PRODUCED FOR REGISTRATION THE <u>17</u> DAY OF	
<u>July</u> 19 <u>53</u> AT <u>11am</u>	
<u>Muir</u> DEP. REG. GENL.	

CANCELLED AS REGARDS LAND IN TRANSFER	
No. <u>1789686</u>	AND NEW CERTIFICATE
OF TITLE ISSUED VOL. <u>2278</u>	FOLIO <u>37</u>
<u>McCleary</u> DEP. REG. GENL.	



Pursuant to Memorandum of Transfer No 587492
William Edmund Lane of Port Pirie Blocher's
the proprietor of an estate in fee simple

subject nevertheless to such incumbrances liens and interests as are notified by memorial underwritten or endorsed hereon in

These SECTIONs of land situated in the Hundred of Pirie COUNTY of Victoria
No 454 and ~~455~~ each containing seven acres and one rood or thereabouts

and bounded as appears in the plan in the margin hereof
which said Section are delineated in the public map of the said Hundred deposited in the office of the Surveyor-General.

In witness whereof I have hereunto signed my name and affixed my seal this seventeenth day of June 1953

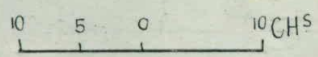
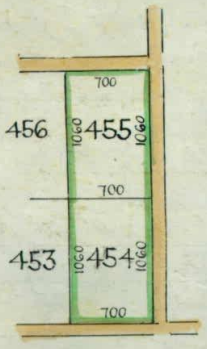
Signed the 17th day of June
1953, in the presence of L. B. James

G. W. Anderson
Deputy Registrar-General.
71742076



TRANSFER No. 1742076 FROM
The Minister of Lands and by virtue
of the Crown Rates and Taxes Recovery
Act 1945 to The Minister of Lands
OF THE WITHIN land
PRODUCED FOR REGISTRATION THE 18 DAY OF
August 1952 AT 2.10 pm
plaid (C.T. not produced)
DEP. REG. GENL.

CANCELLED AS REGARDS LAND N TRANSFER
No. 1742076 AND NEW CERTIFICATE
OF TITLE ISSUED VOL. 2237 FOLIO 163
W. Seccombe DEP. REG. GENL.



South Australia.

(CERTIFICATE OF TITLE.)



Register Book,
Vol. 2237 Folio 163

Pursuant to Memorandum of Transfer No. 1742076 Registered on Vol. 958 Folio 33 and others

THE MINISTER OF LANDS

is the proprietor of an estate in fee simple subject nevertheless to such encumbrances liens and interests as are notified by memorial underwritten or endorsed hereon in THOSE PIECES of land situated in the HUNDRED OF PIRIE COUNTY OF VICTORIA being the SECTIONS 454 and 455 each containing seven acres and one rood or thereabouts PORTION OF SECTION 57 containing three acres two roods and fourteen perches or thereabouts PORTION OF SECTION 161 containing one acre and seven perches or thereabouts PORTION OF SECTION 162 containing three roods and thirty three perches or thereabouts PORTION OF SECTION 427 containing three roods and thirty six perches or thereabouts and PORTION OF SECTION 428 containing one rood and twenty five perches or thereabouts WHICH said pieces of land are more particularly delineated and bounded as appears in the plan in the margin hereof and therein colored green TOGETHER with a free and unrestricted right of way over the Private Road as delineated in the said plan and therein colored brown appurtenant only to the said portion of Section 427

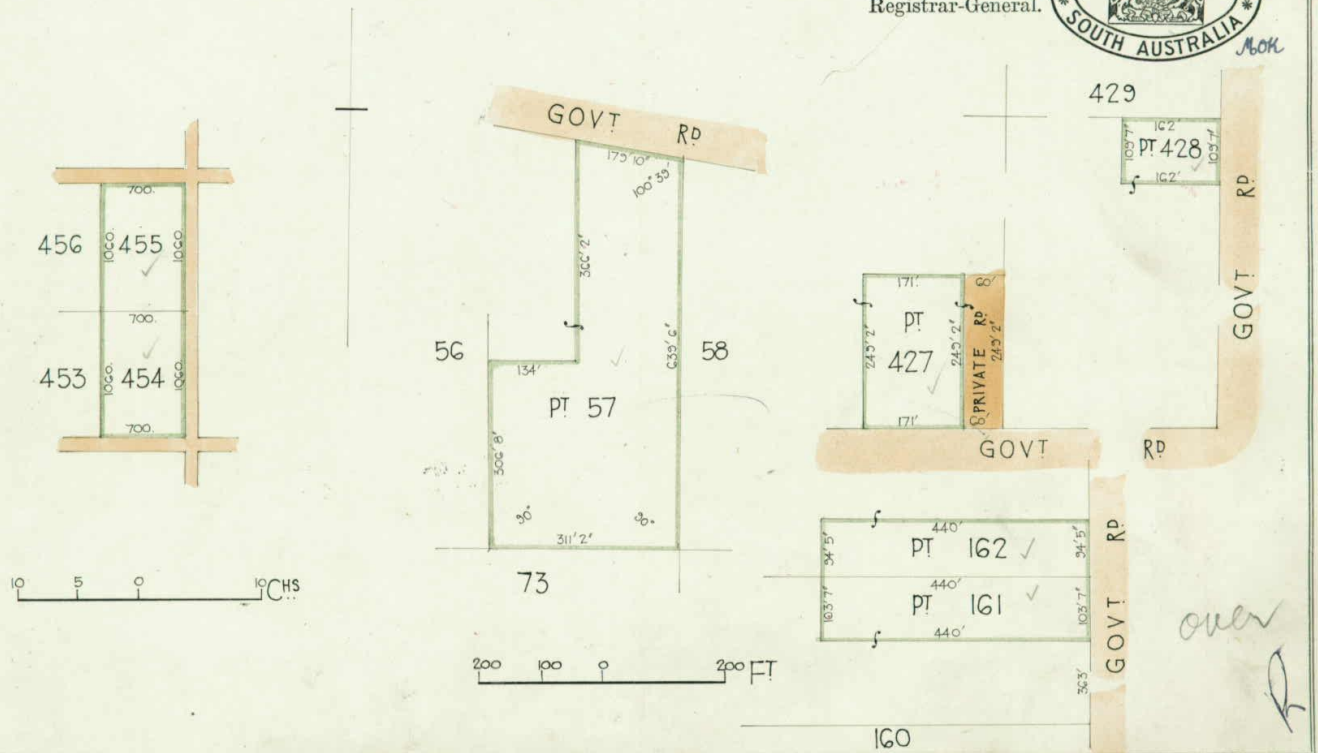
Which said Sections are delineated in the public map of the said Hundred deposited in the Land Office at Adelaide.

In witness whereof I have hereunto signed my name and affixed my seal this *twenty-first* day of *November* 19*52*

Signed the *21st* day of *November* 19*52*, in the presence of *M. Love*

[Signature]
Registrar-General.

MoK



T 1781182

TRANSFER No. 1781182 FROM
 The Minister of Lands to
John Douglas Dennis
 OF THE WITHIN Part Section 428
 PRODUCED FOR REGISTRATION THE 22 DAY OF
May 1953 AT 11:20 am
[Signature]
 DEP. REG. GENL.

CANCELLED AS REGARDS LAND IN TRANSFER
 No. 1781182 AND NEW CERTIFICATE
 OF TITLE ISSUED VOL. 2268 FOLIO 82
[Signature] DEP. REG. GENL.
 T 1789686

TRANSFER No. 1789686 FROM
 The Minister of Lands to
Arthur Edmund Hall
 OF THE WITHIN Part Sec 57
 PRODUCED FOR REGISTRATION THE 17 DAY OF
July 1953 AT 11:00 am
[Signature]
 DEP. REG. GENL.

CANCELLED AS REGARDS LAND IN TRANSFER
 No. 1789686 AND NEW CERTIFICATE
 OF TITLE ISSUED VOL. 2278 FOLIO 37
[Signature] DEP. REG. GENL.

TRANSFER No. 1860509 FROM
 The Minister of Lands
Joseph Theodorius Mertens and
Albertus Weerts
 OF THE WITHIN Part Sec 427
as Tenants in Common
 PRODUCED FOR REGISTRATION THE 28 DAY OF
October 1954 AT 11:25 am
[Signature]
 DEP. REG. GENL.

CANCELLED AS REGARDS LAND IN TRANSFER
 No. 1860509 AND NEW CERTIFICATE
 OF TITLE ISSUED VOL. 2356 FOLIO 110
[Signature] DEP. REG. GENL.

T 6229384

TRANSFER No. 6229384 to
HER MAJESTY QUEEN ELIZABETH THE SECOND
 of the balance
 OF THE WITHIN LAND PRODUCED 1:8.1986 at 15:40

CANCELLED The balance of the
 within land having re-verted
 to the Crown vide 6229384 Produced
1:8.1986 at 15:40



South Australia.

(CERTIFICATE OF TITLE.)



Register Book,

Vol. 2278 Folio 37

Pursuant to Memorandum of Transfer No. 1789686 Registered on Vol. 821 Folio 22 and Vol. 2257 Folio 163

ARTHUR EDMUND HALL of Port Pirie Contractor

is the proprietor of an estate in fee simple

subject nevertheless to such encumbrances liens and interests as are notified by memorial underwritten or endorsed hereon in

THAT SECTION of land situated in the HUNDRED OF PIRIE COUNTY of VICTORIA

NOD. 57 containing four acres and three roods or thereabouts

and bounded as appears in the plan in the margin hereof

Which said Section is delineated in the public map of the said Hundred deposited in the Land Office at Adelaide.

In witness whereof I have hereunto signed my name and affixed my seal this *twenty eighth* day of *July* 19*53*

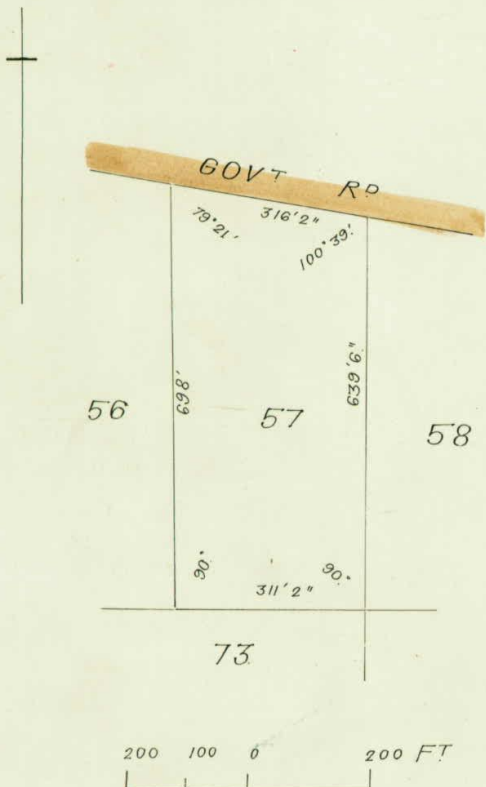
Signed the *28th* day of *July* 19*53*, in the presence of *J. W. Davis*

[Handwritten signature]

Registrar-General.



T4328712



TRANSFER No. *4328712* TO
Jennings Industries Limited of
1278 South Road Clovelly Park
5042
OF THE WITHIN LAND. PRODUCED *6-2-1979* AT *12-25 PM*

CANCELLED
AND *New* CERTIFICATE OF TITLE
ISSUED VIDE *4328711* VOL. *4141* FOL. *712*



R

CHITTY TO BENTLEY

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ORIGINAL
CERTIFICATE OF TITLE

South Australia

Register Book,
Volume **4141** Folio **712**



New Certificate for the whole of the Land in Vol.2278 Folio 37

JENNINGS INDUSTRIES LIMITED of 1278 South Road Clovelly Park 5042 is the proprietor of an estate in fee simple subject nevertheless to such encumbrances liens and interests as are notified by memorial underwritten or endorsed hereon in SECTION 57 HUNDRED OF PIRIE in the area named PORT PIRIE delineated on the plan hereon by bold black lines

In witness whereof I have signed my name and affixed my seal this *28th* day of *May*, 1979

Signed the *28th* day of
1979, in the presence of

Jay
Jay

J. Hughes

F.P.
10026
APPROVED

Deputy Registrar-General

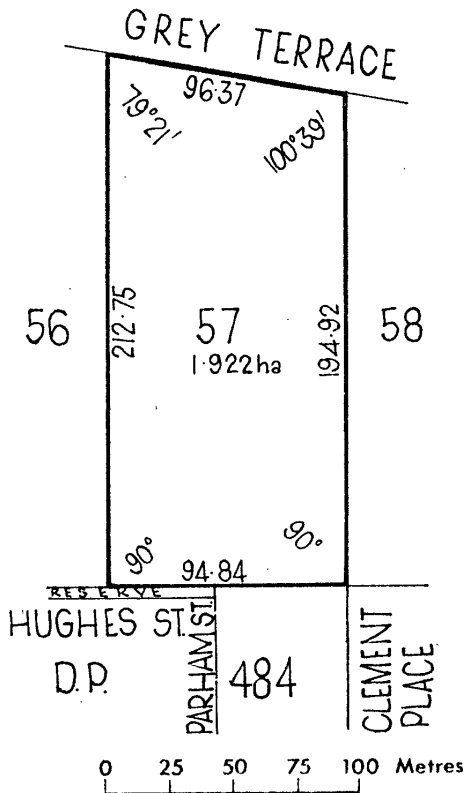


T 4551120

TRANSFER 4551120 to MINISTER OF WATER RESOURCES of an Easement over PORTION of the within land Produced 8.5.1980 at 11.15 a.m.



CANCELLED as regards above land and new C.T. issued VOL. 4160 FOL. 767



CANCELLED
AND BALANCE CERTIFICATE OF TITLE
ISSUED ~~VOL~~ VOL. 4160 FOL. 768



AS

ORIGINAL
CERTIFICATE OF TITLE

South Australia

Register Book,
Volume 4160 Folio 768



New Certificate for the balance of the Land in Vol.4141 Folio 712

JENNINGS INDUSTRIES LIMITED of 1278 South Road Clovelly Park 5042 is the proprietor of an estate in fee simple subject nevertheless to such encumbrances liens and interests as are notified by memorial underwritten or endorsed hereon in SECTION 57 HUNDRED OF PIRIE in the area named PORT PIRIE delineated on the plan hereon by bold black lines SUBJECT to the easement to the Minister of Water Resources more particularly set forth in Transfer 4551120 in and over that portion marked A hereon

In witness whereof I have signed my name and affixed my seal this 17th day of JUNE 1980
Signed the 17th day of JUNE
1980, in the presence of *S. Williams* }

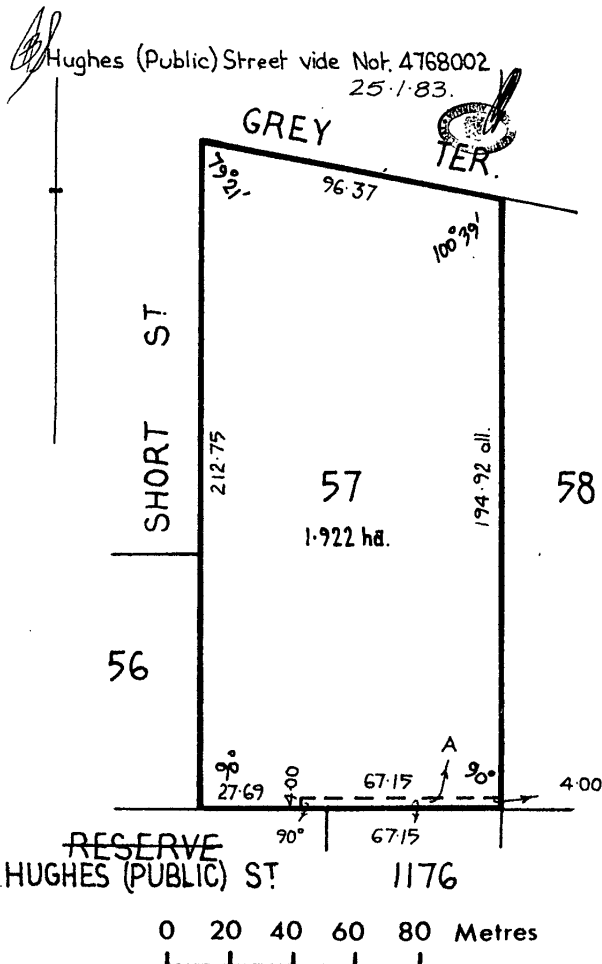
J. Hughes

Deputy Registrar-General



-----T-4994704

TRANSFER 4994704 to SOUTH AUSTRALIAN METROPOLITAN FIRE SERVICE of 87 Wakefield Street Adelaide 5000 of the within land Produced 21.1.1983 at 2.50 p.m.



CANCELLED
CONVERTED TO A COMPUTERISED TITLE



B.G.




Appendix D




Photographic Log




Site Details




Site Name	Port Pirie
Site Address	97 Grey Terrace, Port Pirie South, SA 5540
Inspection Date	March 9, 2023 10:06 AM
Inspector (GHD)	Ally Kirkman


Photograph Log

ID	Description	Photograph
1	<p>Northing: 6,323,623 Easting: 220,813</p> <p>Facing: E</p> <p>Description: Shed on eastern boundary - possibly used for AFFF storage</p>	
2	<p>Northing: 6,323,620 Easting: 220,807</p> <p>Facing: NE</p> <p>Description: Overview of rear yard used for training and appliance wash down</p>	
3	<p>Northing: 6,323,612 Easting: 220,803</p> <p>Facing:</p> <p>Description: Paving in rear yard</p>	

ID	Description	Photograph
4	<p>Northing: 6,323,612 Easting: 220,793</p> <p>Facing: NE</p> <p>Description: Rear yard view from SW corner</p>	
5	<p>Northing: 6,323,639 Easting: 220,809</p> <p>Facing: NE</p> <p>Description: Foam storage area under car Port, likely used for AFFF</p>	
6	<p>Northing: 6,323,692 Easting: 220,814</p> <p>Facing: S</p> <p>Description: Engine room - flat, water pools</p>	

ID	Description	Photograph
7	<p>Northing: 6,323,684 Easting: 220,808</p> <p>Facing: S</p> <p>Description: View of station from front</p>	
8	<p>Northing: 6,323,665 Easting: 220,804</p> <p>Facing:</p> <p>Description: Foam currently used</p>	
9	<p>Northing: 6,323,626 Easting: 220,789</p> <p>Facing:</p> <p>Description: Mop cleaning area, likely to sewage</p>	

ID	Description	Photograph
10	<p>Northing: 6,323,637 Easting: 220,801</p> <p>Facing: W</p> <p>Description: Open ground from leaking pipe 6 months ago</p>	
11	<p>Northing: 6,323,634 Easting: 220,800</p> <p>Facing: NE</p> <p>Description: Engine room</p>	
12	<p>Northing: 6,324,064 Easting: 221,046</p> <p>Facing:</p> <p>Description: Stormwater Pond north of site</p>	

ID	Description	Photograph
13	<p>Northing: 6,324,064 Easting: 221,056</p> <p>Facing: SE</p> <p>Description: Stormwater pond / wetlands north of site</p>	

Appendix E

MFS Staff Surveys



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: Port Pirie SAMFS Fire Station

Name: PETER SMETH

Position when working at the site: S/F

Phone number: 0427324749

Email: pdkas@westnet.com.au

Date of response: 26-6-2022

Item	Question	Response
1	When did you start working at this station?	1999
2	How long have you worked at this station?	22 YEARS
3	Can you describe where stormwater from the site is usually discharged to (e.g. stormwater pit, nearby creek / pond, street gutter)?	STORM WATER POND IN THE TROTTER TRACK
4	Can you describe any changes in how stormwater has been managed at the site over time?	NO CHANGE
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.	N/A
7	Date when AFFF was first used on site?	I BELIEVE PRIOR TO 1999
8	Can you provide the product names of any AFFF used on the site? (e.g. Ansulite, 3M Light Water)	UNKNOWN OLD FOAM FROM MYRSTAL USED FOR TRAINING PURPOSES 3M (IN RED 20L DRUMS)
9	Was AFFF used in regular training exercises? If so:	NO
9.1	How often was the training? (e.g. weekly, monthly, quarterly)	QUARTALLY OR LESS
9.2	Can you describe the location of the training areas and annotate them on the site plan?	REAR TRAINING AREA
9.3	Can provide an estimate of how much AFFF was used in each training?	LESS THAN 20 LITRES USUALLY USED WATER TO INDICATE A LEAK
9.4	Was the training ground sealed / open?	PAVED OPEN YARD DRAINAGE TO STORM WATER SYSTEM
9.5	Was AFFF dispersed aerially? If so, please indicate the maximum extent on the site plan?	USED FROM A GP PUMP SOUTH / WEST PORTION OF REAR YARD
9.6	When was the date of the last training event that included the use of AFFF?	DONT KNOW
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.	FLUSHED INTO STORM WATER SYSTEM NO
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?	I DON'T THINK IT WAS MUCH. LESS THAN 120 L
15	Where was AFFF stored on site? Please annotate the storage location on the site plan.	UNDER SHED 1 WHERE PROPOSED PPE STORAGE IS GOING TO GO
15.1	What type and size of storage containers were used to store AFFF on site?	PLASTIC 20L DRUMS PLASTIC 200L DRUMS
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?	2 X 200L 20 X 20L
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?	MANUALLY PUMPED FROM DRUMS TO PUMP TANK PLASTIC HAND PUMP
17	How were spent drums of AFFF disposed of?	RETURNED TO STORE
18	Were there any wash down areas for fire trucks, equipment or AFFF containers? If so:	NO JUST USED THE REAR YARD
18.1	How was the waste water from such areas managed? (e.g. recycling, treatment, storage pond or discharge to drains)	DISCHARGED TO STORM WATER SYSTEM
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.	FUEL + OIL EXPANOL BUSHMASTER BFFF TANOL SOL BELL
20	Is there an incident log / register for the site?	NO

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?	TRAFFIC TOWER REFURBISHED PLUMBING REPAIRS IN REAR YARD
24	Please describe any changes to the Station that you are aware of with respect to the storage and use of AFFF.	DO NOT STORE AFFF ANY MORE

Any other comments or notes.



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: Port Pirie SAMFS Fire Station

Name: ROGER KING

Position when working at the site: S/F

Phone number: 0407594957

Email: R.KING11@bigpond.net.au

Date of response: 20/6/2022

Item	Question	Response
1	When did you start working at this station?	DEC. 2011.
2	How long have you worked at this station?	10½ YEARS.
3	Can you describe where stormwater from the site is usually discharged to (e.g. stormwater pit, nearby creek / pond, street gutter)?	STORM WATER TO LOCAL POND
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?	—

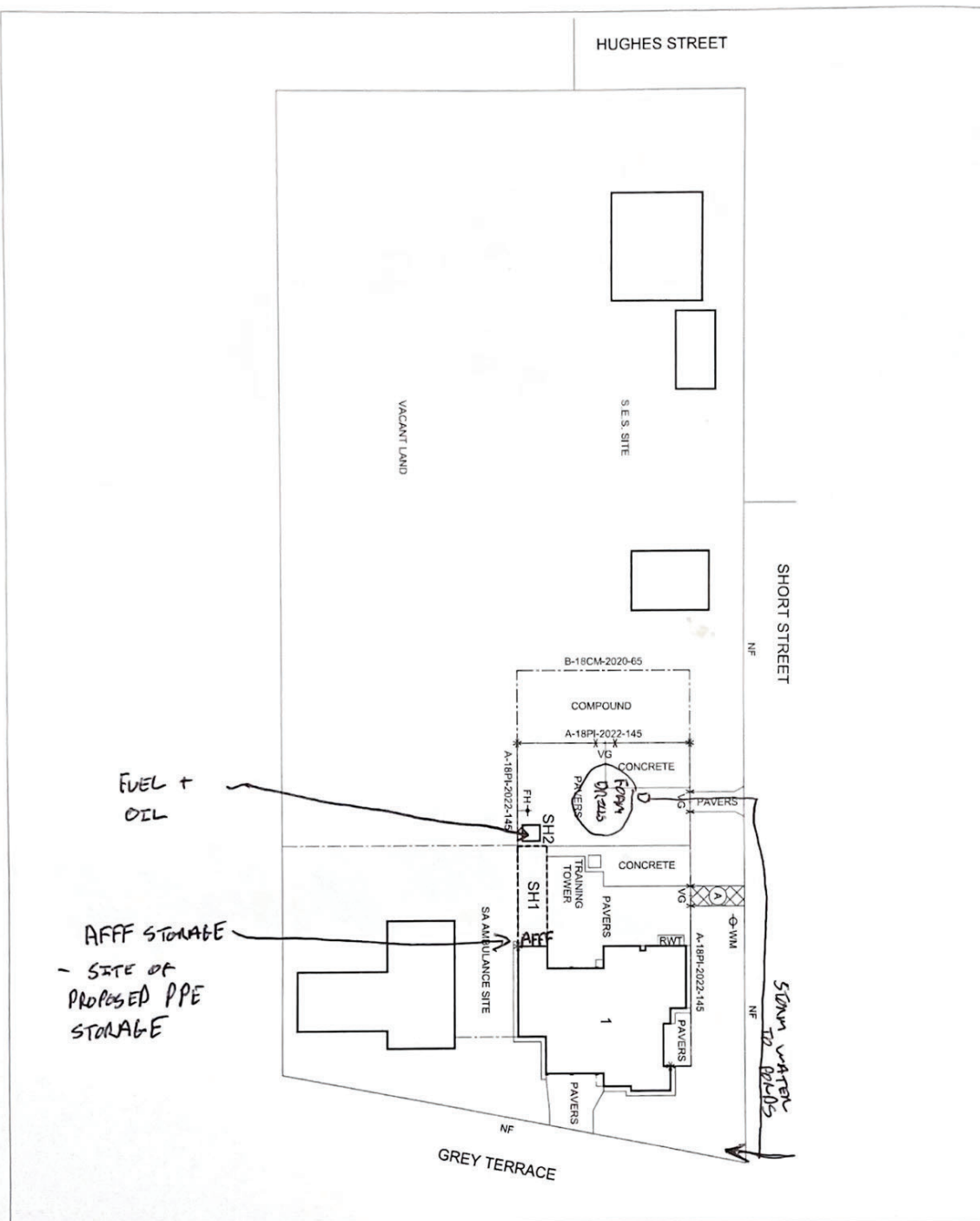
Item	Question	Response
6.2	Where are the groundwater well / bores located on site? Please mark the location on the attached site plan.	-
7	Date when AFFF was first used on site?	BEFORE 1999
8	Can you provide the product names of any AFFF used on the site? (e.g. Ansulite, 3M Light Water)	3M / TRITOL
9	Was AFFF used in regular training exercises? If so:	NO
9.1	How often was the training? (e.g. weekly, monthly, quarterly)	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?	VERY LITTLE
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?	NO
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.	DOWN DRAINS TO STORMWATER.
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?	610 LT
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?	205 LT BLUE PLASTIC DRUMS. 20 LT PLASTIC DRUMS.
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?	2 x 205 LT 20 x 20 LT
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?	HAND PUMP FROM 205 LT DRUM TO TRUCK MANUALLY TIP 20 LT DRUMS TO TRUCK.
17	How were spent drums of AFFF disposed of?	SENT BACK TO STORES
18	Were there any wash down areas for fire trucks, equipment or AFFF containers? If so:	REAR YARD
18.1	How was the waste water from such areas managed? (e.g. recycling, treatment, storage pond or discharge to drains)	DOWN THE DRAIN
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 LT UNLEADED FUEL 20 LT TWO STROKE FUEL. FOR PUMPS & EQUIPMENT TOOLS ON TRUCKS
20	Is there an incident log / register for the site?	NOISE

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?	NO
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.	None

Any other comments or notes.

Scale Bar Units in Metres (1:750) Plot at scale of 1:100-75 All dimensions to be verified on site



- BUILDINGS**
- 1 PORT PIRIE SAMFS FIRE STATION
 - SH1 COLORBOND CARPORT
 - SH2 COLORBOND STORE SHED

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

A	bit ven	2015	44
FENCES * color+height+type+fall+date+length (m) *			
CI	corrugated iron	PVY post and wire	
CM	chain mesh	WM weld mesh	
GT	galube	NF not fenced	
PG	pedestrian gate	VG vehicle gate	
WM	Water Meter	* Fence junction	
GM	Gas Meter	* Pad mid trans	

PORT PIRIE SAMFS FIRE STATION
GREY TERRACE
PORT PIRIE 5540

Government of South Australia
 Department for Transport,
 Energy and Infrastructure

Asset no. **09177** Client **ODEPT**

DTEI Office **PT PIRIE** Sheet **1 of 1**

Created by **Archiek** C Kneudtore Mar 2010

Modified by: -

Audited by **Archiek** G Roberts Mar 2010

Title details refer to refer "site-attachment" CT-5491674

Site area **1.932 ha** Accuracy, site survey

Strategic Asset Management Information System Plan

SAMIS 09177

BUILDINGS

- 1 PORT PIRIE SAMFS FIRE STATION
- SH1 COLORBOND CARPORT
- SH2 COLORBOND STORE SHED



200

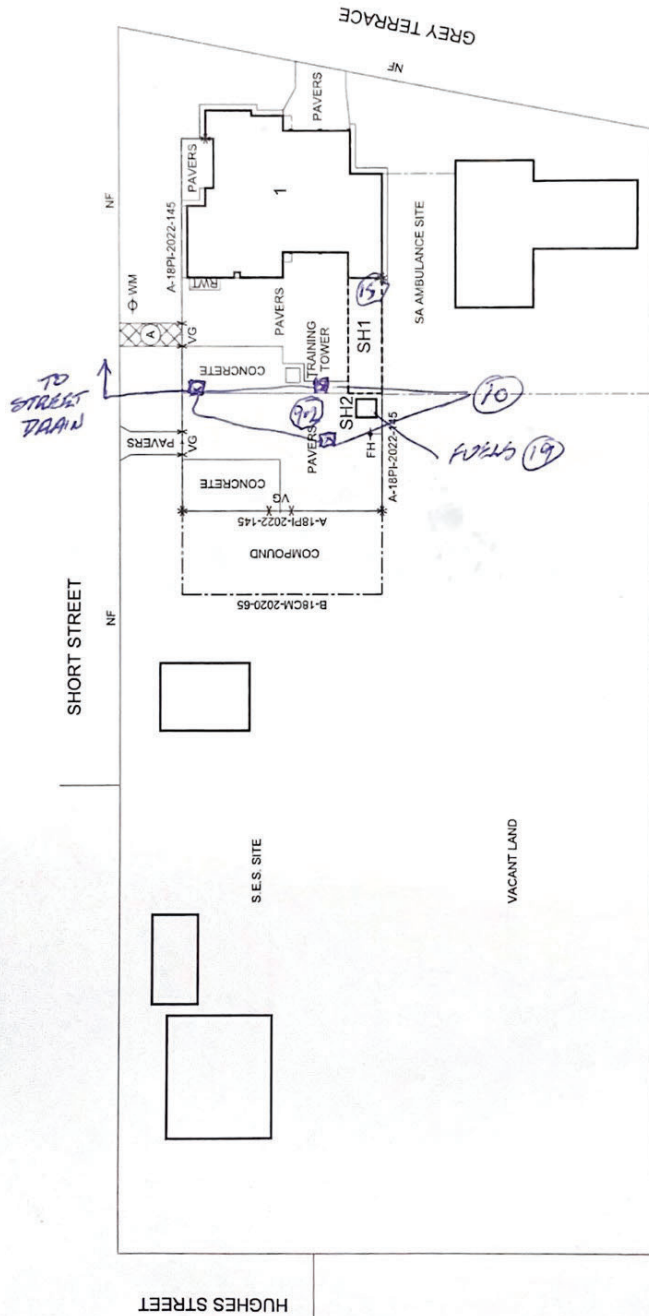
150

100

50

10

Scale Bar Units in Metres (1:750) Plot at scale of 1=0.75 All dimensions to be verified on site



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

A	Bit veh	2015	44
---	---------	------	----

FENCES * code height type fall date-length (m) *

CI	corrugated iron	PW	post and wire
CM	chain mesh	WM	weld mesh
GT	galube	NF	not fenced
PG	pedestrian gate	VG	vehicle gate
W	Water Meier	*	Fence junction
G	Gas Meier	[PMT]	Pad mid trans

**PORT PIRIE
SAMFS FIRE STATION
GREY TERRACE
PORT PIRIE 5540**

Government of South Australia
Department for Transport,
Energy and Infrastructure

Asset no.	09177	Client	ODEPT
DTEI Office	PT PIRIE	Sheet	1 of 1
Created by	Archink	C Kneebone	Mar 2010
Modified by			
Audited by	Archink	G Roberts	Mar 2010
Title details refer layer * site-attachment * C1-5491/674			
Site area	1.932 ha	Accuracy	site survey
Strategic Asset Management Information System Plan			

SAMIS 09177

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 : 113004 (76973)

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

23 February, 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 5800 Folio 269
Address 97 Grey Terrace, PORT PIRIE SOUTH SA 5540

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
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| 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:

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|----|--|----|
| 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: **SC62644**

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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