



Wathaurong Aboriginal Co-Operative
62 Morgan Street, North Geelong, VIC
3215
Preliminary Site Investigation
November 2023



Wathaurong Aboriginal Co-Operative
Preliminary Site Investigation
SG-T4-E-FRM-054



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Preliminary Site Investigation

Wathaurong Aboriginal Co-Operative – 60-62 Morgan Street, North Geelong,
 VIC 3215

15.12.2023

J247245

Prepared for:

Wathaurong Aboriginal Co-Operative

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1. INTRODUCTION

Wathaurong Aboriginal Co-Operative engaged SCAADA Environmental Pty Ltd (SCAADA Environmental) to complete a Preliminary Site Investigation (PSI) for the planned property development at 60-62 Morgan Street, North Geelong, VIC 3215, (the 'site').

SCAADA Environmental understands that significant demolition of current infrastructure and a commercial development is proposed for the site. To satisfy planning requirements stipulated by the City of Greater Geelong, a PSI was required to assess the potential for the site to be contaminated from current or historic uses and the nature of site contamination that may present an unacceptable risk to the proposed development and to determine if an Environmental Audit of the site is necessary.

1.1. OBJECTIVE

The objective of the PSI was to gain sufficient knowledge of the previous land uses of the investigation area and to understand the potential contamination status of the site.

The specific objectives of the project were to:

- Complete a site history review to identify any potentially contaminating activities which may have taken place on the site;
- Identify any potentially contaminated areas of the site;
- Determine media that may have been impacted by site activities and events;
- Summarise existing information regarding potential contamination issues;
- Prepare a report summarising the findings and conclusions of the assessment and any subsequent recommendations.

1.2. SCOPE OF WORKS

To meet the project objective, the following scope of works was completed:

- Review of available historical information associated with the site;
- Completed a review of publicly available documents; and
- Provision of a Preliminary Site Investigation Report.

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2. SITE INFORMATION

The site information is summarised below in Table 1.

Table 1: Site information

Item	Details
Site Address	60-62 Morgan Street, North Geelong, VIC 3215
Total Site Area	11,880 m ²
Lot and Plan Number	TP2679 and TP24203
Planning Zones	The site is currently zoned as Public Park and Recreation Zone (PPRZ), except for the car park rented from VicRoads, which is zoned as Industrial 1 Zone (IN1Z)
Planning Overlay	Design and Development Overlay – Schedule 20 (DDO20) – Overlay is on the car park area rented from VicRoads.
Areas of Cultural Heritage Sensitivity	The investigation site is listed as an area of Cultural Heritage Sensitivity as specified in the Victorian Aboriginal Heritage Regulations 2018. The investigation site is not listed on the Commonwealth Heritage List, National Heritage List or Victorian Heritage Register.
Current Site Use	The site is currently used for commercial purposes. The site has a medical clinic, playgroup, and administration buildings. The site contains areas of cultural significance, these areas include the totem poles, tranquillity garden and the two scar trees located onsite. Car parking locations are present onsite, extending from the southwestern corner to northern point of the assessment area. Additionally, the client leases the northern portion of the carparks land from VicRoads, the adjacent property (TP24203), that is zoned as industrial.
Previous Site Use	Based on a review of historical aerial photographs/any other sources utilised SCAADA Environmental understands that the site was historically used for recreational and public park purposes. With potential use by the former quarry/landfill when they were operational.
Surrounding Land Uses	<u>North:</u> Directly adjacent to the site is a former landfill cell (Seagull paddock). Further north of site, major roads (C116), Cowies Creek, industrial and commercial buildings. <u>East:</u> Directly adjacent to the site is a VicRoads depot. The depot contains various infrastructure and stores a variety of materials onsite. Further east are various commercial and industrial properties. <u>South:</u> Wetlands, Cowies creek and the walking track. Further south are commercial and industrial properties. <u>West:</u> Various industrial and commercial properties.

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3. SITE HISTORY INVESTIGATION

SCAADA Environmental have completed this PSI in general accordance with guidance provided in National Environmental Protection (Assessment of Site Contamination) Measure (NEPM, 2013).

To complete this PSI SCAADA Environmental have reviewed available historical information associated with the site with the aim of determining if potentially contaminating activities have taken place or if any potential historical sources of contamination to the site exist. This review has included the evaluation of a site report generated by Lotsearch (dated 28 November 2023), included in Appendix E. A review of the following was undertaken as part of the PSI:

- Geology and hydrogeology of the area;
- Coastal acid sulfate soil hazard maps;
- Selected historical aerial photographs and maps including the property and surrounding area;
- Planning schemes / zoning maps;
- The EPA Victoria Priority Sites Register for the site and surrounds;
- The EPA Victoria register of issued certificates and statements of Environmental Audit for the site and surrounds;
- Registered groundwater bore information in the public register;
- Cathodic public search for fuel storages on site;
- Previous environmental site assessments;
- Additional online sources;
- History of surrounding land (where possible); and
- Review of current and former landfill sites within a 500m radius of the site.

3.1. GEOLOGY

3.1.1. Regional Geology

According to the Geelong Map 1:63,360 Geological Map (Department of Mines, 1963) the site is underlain 'Fyansford Clay (Bf)' from the Barwon Group.

Fyansford clay (Also known as Gellibrand Marl) is characterised as marl, mudstone, sandstone, calcarenite, minor lignite, ligneous clay: marl blue-green and yellow; abundant carbonate nodules; contains shelly fossils and microfossils; lignite dark brown; contains spores and pollens.

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3.2. HYDROGEOLOGY

The Visualising Victoria's Groundwater website (VVG 2023) and a groundwater resource report sourced from the Department of Environment, Land, Water and Planning (DELWP) (Appendix C) on 27th of November 2023 have been reviewed and indicate that the expected depth to groundwater underneath the site is less than 5m below surface level. This aquifer would be expected to have groundwater salinity levels ranging between 1,001 and 3,500 mg/L Total Dissolved Solids (TDS). The sourced groundwater resource report lists the upper aquifer (0-122mBGL) as having an unknown salinity concentration. The assumed groundwater flow direction beneath the site is believed to be south, southwest towards Cowies Creek.

3.3. TOPOGRAPHY

The site has been observed to be generally gently sloped down toward the south and southwest. A review of the topographic map contained within the Lotsearch Report indicates the sites elevation lies predominately between 0-10m AHD with the closest incline to the east and northeast of the assessment area. The lowest elevations roughly follow the Cowie Creek course.

3.4. SURFACE WATER

Cowies Creek runs along the west boundary of the site towards Corio Bay. The water collects in a small wetlands area, located south of the site. It is assumed surface water onsite would drain to Cowies Creek across impermeable surfaces or infiltrate into the soil profile in uncovered areas. Subsurface stormwater infrastructure was observed to be present on site, it was not possible to identify the outlet off site. Corio bay is another significant offsite water body, located approximately 1km to the east.

Elevation data provided in the Lotsearch report indicates surface water onsite likely drains south towards Cowies Creek and Wetlands.

3.5. ONLINE SOURCES

SCAADA Environmental completed an online search to further assess the potential contamination status of the site. The Cathodic Public Search (Energy Safe Victoria, 2023) was used to assess if there were any potential USTs present on site. There were no listed USTs on the public search register for the site.

3.6. REVIEW OF HISTORICAL AERIAL PHOTOGRAPHS

Historical aerial photographs and maps featuring the site and its surrounds were reviewed for evidence of any potentially contaminating activities that may have been undertaken at the site. The reviewed aerial photographs were captured between 1946 and 2023 and are included in the Lotsearch Report in Appendix E. No photographs prior to 1946 were available. The key observations noted during the review are summarised below in

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Table 2.

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Table 2: Review of historical aerial photographs (Lotsearch, 2023)

Year	Source	On-site	Off-site
1946	Aerial Imagery: © Department of Environment, Land, Water and Planning (Vicmap Topographic Mapping Program)	The site is vacant with limited trees and Cowies Creek alongside the west and south boundary. Trees present in the southwest corner of the site potentially indicate the presence of a paddock.	A quarry is located on the north boundary of the site. The surrounding area is vacant. Sheds are seen in the imagery offsite in the northeast of the site. Trees present to the southwest of the site potentially indicate the presence of a paddock. A water body is present on the south boundary of the site before Cowies Creek.
1951		Vegetation growing within the northern portion of the site.	Major industrial development northeast of the site. Additional trees growing in the paddock to the southwest. Significant vegetation growth visible within the bounds of the quarry.
1963		Significant earthworks onsite, assumed depressions leading to Cowies Creek along the west boundary appear to have been filled in. Vehicle tracks leading to and from site in the east.	Property established approximately 150m to the southwest. Residential estate development northwest of the site. Vehicle tracks leading to and from site in the east. The major industrial development in the northeast appears to consist of fuel tanks.
1970		Vegetation appears to be reappearing onsite following the earthworks.	Industrial developments now present east of site. Suspected earthworks around property southwest of site.
1978		Walking path developed through the site in the north leading to the south along the west boundary then toward the east alongside the Cowies Creek wetlands.	Cowies Creek developed into a large basin/wetlands area on the south boundary. The creek was extended to an 80m width with a narrow footbridge over the creek. The property located to the southwest has had multiple sheds constructed. Commercial/industrial development located to the west. White patches located northwest of site, suspected to be earthworks. Additional commercial/industrial development to the east.
1984		Small white objects of unknown origin observed onsite. Unable to determine	Further industrial development to the west of the site. Some suspected fuel tanks located in the major industrial development to the

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Year	Source	On-site	Off-site
		nature of objects due to picture quality.	northeast have been removed. Various small white objects stored on the east adjacent site.
1990		No significant changes evident.	Further industrial development to the east and west of the site. Roads to the north have a more defined (paved) surface. Some objects visible on the east adjacent site, potentially stockpiles.
1994		No significant changes evident.	Additional shed construction to the west of site. Majority of assumed fuel tanks northeast of site have been removed. Large complex developed east of site on border of image. Various stockpiles stored on site.
2002		Site developed to include one building with a carpark located to the northwest.	Further industrial development to the east, west and southwest of the site. The east adjacent site has an assumed liquid tank located in the northern half. Multiple stockpiles visible throughout the eastern adjacent site. Additional building demolished to the northeast along the roadside.
2008	Aerial Imagery: © 2023 Google Inc	A second building developed on site to the north of the initial building. Carpark redesigned and additional carpark developed north of the two buildings.	Roadway developed south of site. Significant number of stockpiles stored on east adjacent site. Three small fuel tanks located in the northwest corner of the east adjacent site (Confirmed in observations of 2017 image).
2010		No significant changes evident.	Commercial/industrial development to the south. Factories and assumed house in the northeast corner of the image have been demolished. Earthworks assumed to be occurring to the north of site based on soil disturbance. Stockpiles on east adjacent site reduced in number. Two assumed liquid tanks now located on the site.
2014		Carpark in the north of the site developed, carpark partially	Further industrial development to the south of the site. Additional earthworks and building

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Year	Source	On-site	Off-site
		occupies the adjacent sites land.	construction north of the site. The Bunnings site in the northeast has been developed. Majority of stockpiles located in adjacent east site have been developed.
2017	Aerial Imagery: © Aerometrex Pty Ltd	No significant changes evident.	Removal of two large and two small sheds to the northeast of the site. Additional developments south of site. More stockpiles located on east adjacent site, multiple IBCs present in northern half and 3 smaller additional fuel tanks installed on site now distinguishable.
2020		No significant changes evident.	Further industrial development to the south of the site. East adjacent site has an assumed oil spill near the two large green tanks, black colouring around the stockpiles, the three smaller tanks have been removed.
2023		No significant changes evident.	Industrial development of sheds to the northeast of the site. Clusters of stockpiles located in east adjacent site.

3.7. HISTORICAL SITE USES

3.7.1. Historical Onsite Uses

No historical site uses were listed by Lotsearch for the site, within the Business Directory Records (1905-1991). A review of a historical map from 1978 lists the site as a public park or reserve.

3.7.2. Historical Neighbouring Site Uses

Information provided by Lotsearch indicates various historical uses by matching the address with Business Directory Records (1905-1991). Potential historical site uses for multiple properties and roads east of the site, have been derived from the business activities provided by Lotsearch, these are listed within Table 3.

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Table 3: Potential Historical Site Uses – Neighbouring Sites

	35 Rodney Road, North Geelong
1991	Motor car dealer
	Multiple Units – 33 Rodney Road, North Geelong
1991	Mechanics, Awning manufacturers/specialists, Burglar alarm manufacturer/distributors/installers, Automotive parts retailer, Telephone equipment manufacturer/distributor and Signage (Plastic and neon) company.
	32 Rodney Road, North Geelong
1991	Hose fitting manufacturer/distributor/wholesaler and hydraulic hose manufacturer/distributor.
	29 Rodney Road, North Geelong
1991	Outboard motor sales
	Multiple Units – 25 Rodney Road, North Geelong
1991	Battery manufacturer/distributor and Paint retailer.
	24 Rodney Road, North Geelong
1991	Modular building manufacturers/distributors/erectors, Carport and awning manufacturers/erectors, Garage door manufacturers/distributors/installers, Garden shed manufacturers/distributors, Steel fabricators and Steel company.
	23 Rodney Road, North Geelong
1991	Clothing manufacturers/wholesalers (Jeans)
	22 Rodney Road, North Geelong
1991	Motor gas (L.P.G.) conversions
	55 Morgan Street, North Geelong
1980	Hardware retailer and plumbing supplies
	53 Morgan Street, North Geelong
1991	Insulating material manufacturers/distributor/supplier
	51 Morgan Street, North Geelong
1991	Motor carburettor specialist, Motor garages and service stations, Motor gas (L.P.G.) conversions and Motor turning specialist.
	49 Morgan Street, North Geelong
1991	Motor panel beater and spray painters
	3 Lillian Street, North Geelong
1991	Clothing manufacturers/wholesalers and Equestrian supplies
	Lot 7 Lillian Street, North Geelong
1991	Carriers and cartage contractors
	14 Birdwood Avenue, North Geelong

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1991	Motor body builders
	29 Naughton Avenue, North Geelong
1991	Motor panel beaters and spray painters, Motor car hire services and motor towing service
	Morgan Street
1980	Boilermakers, Roofing contractors/repairers, Sheet metal workers, Structural engineers, and Scrap metal merchant
	Rodney Road
1980	Sheet metal workers

3.8. NATURAL HAZARDS

Information provided by Lotsearch indicates that the site is located within a designated '1 in 100 Year Flood' area.

Lotsearch had one recorded '1 in 100 year flood' event located on-site in the year 2000, there was no further information available. An additional flood event was listed as occurring 516 meters to the southwest on the 18th of June 2012.

There is a Designated Bushfire Prone Area 23 meters to the northwest.

Lotsearch had no recorded historical fire events within the buffer.

3.9. ACID SULFATE SOILS

Information provided by Lotsearch indicates that there is an extremely low (1-5%) probability of Acid Sulfate Soil (ASS) being present at the site.

3.10. NEARBY LANDFILL SITES (WITHIN 500M)

Landfill gas, containing methane and carbon dioxide, is produced by current and former landfills and has the potential to migrate to neighbouring land under the correct conditions. As per guidance provided in EPA Victoria Publication 788.3 *Siting, design, operation, and rehabilitation of landfills* (EPA, 2015), if there is a current or former putrescible waste landfill located within 500m of a proposed development then the responsible Planning Authority must demonstrate to the EPA that it will not be negatively impacted by the landfill site i.e. through landfill gas migration to the site.

The City of Greater Geelong (2023) *Waste Disposal Sites* indicates that there are no current landfill sites within 500m of the site. However the City of Greater Geelong (2023) *Former Landfill Sites – Greater Geelong* database lists the site (Seagull Paddock) as being a former landfill. Additionally the information provided by Lotsearch indicates that there is a former landfill site within 316m of the site located to the southeast listed on the EPA Victorian Landfill Register.

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3.11. EPA PRIORITY SITES REGISTER

EPA Victoria's (2023) *Priority Sites Register* lists sites that have been issued either a Clean Up Notice (CUN) or a Pollutant Abatement Notice (PAN) by the EPA. Sites managed by voluntary agreements or sites subject to management by planning controls are not listed on the priority sites register.

There are no sites within 1 km of the investigation area currently listed on the EPA Priority Sites Register. There are, however, multiple sites formerly listed on the EPA Priority Sites Register located within 1km of the site.

3.12. NEARBY ENVIRONMENTAL AUDITS

Lotsearch completed a search of environmental audits that have been conducted within a 1 km radius of site. There were five EPA environmental audits listed within 1 km of the investigation site.

The environmental audits listed were:

- Woodward-Clyde, Addendum Report Environmental Audit of Sea-Bed Areas – Port of Geelong, June 1997 (Transaction ID:8000538)
- GHD, Report for Proposed Bunnings Development - 5-19 Princes Highway, Norlane - Voluntary 53V Environmental Audit, June 2012 (Transaction ID:8003107)
- GHD, 5-19 Princes Highway, Norlane - 53V Environmental Audit Report, October 2012 (Transaction ID:8003289)
- Senversa, Environmental Audit Report - 60-80 North Shore Road, Norlane, 14 August 2012 (Transaction ID:8003223)
- ERM, s53V Audit of Risks to the Environment 'Southlands' Site, 343-363 Melbourne Road, North Geelong VIC, December 2013 (Transaction ID:8001758)

3.12.1. GHD, Report for Proposed Bunnings Development - 5-19 Princes Hwy, Norlane - Voluntary 53V Environmental Audit, Jun 2012

This audit was undertaken as part of the redevelopment/remediation of 5-19 Princes Highway, Norlane during the construction of a Bunnings Warehouse. The site required remediation of known groundwater and soil hydrocarbon contamination above the adopted assessment criteria for the site.

Three non-aqueous (free) phase liquid (NAPL) groundwater plumes were identified at the site, all which extend offsite prior to remediation. Dissolved phase plumes associated with the NAPL were also identified at the site and were also understood to extend offsite. The report did not consider potential impacts to off-site groundwater. Groundwater flow was inferred to flow south. Coffey Environments applied an average linear groundwater flow velocity of approximately 8 m/year for the purpose of their CSM. Prior to remediation taking place Coffey Environments noted that "There is potential for impacted groundwater to flow to Cowies Creek over time, however this risk is not considered to be realised at this time".

Following remediation of the site groundwater flow direction was inferred to be to the southwest, and concentrations on-site remained above investigation levels for the site. The auditor noted the following post remediation:

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- Residual soil impacts are likely to act as an ongoing source of dissolved phase contamination that may impact groundwater quality in the short to medium term (years to decade scale).
- Residual groundwater impacts could therefore present a potentially unacceptable risk to beneficial uses of land and groundwater.

3.12.2. GHD, 5-19 Princes Hwy, Norlane - 53V Environmental Audit Report, Oct 2012

This assessment was undertaken following the above report and noted the following points relevant to this PSI:

- There is potential for impacted groundwater to flow to Cowies Creek over time, however this risk is not considered to be realised at this time. The reduction of LNAPL mass is expected to have further reduced this risk. Continued groundwater monitoring should be undertaken to confirm conditions.
- The available monitoring information at the time of this audit report suggests that the groundwater impacts are probably either stable or may be in the early stages of a shrinking plume, indicating that the footprint of impact has past the maximum extent and could be shrinking.

Further recommendation was made that the potential risk of extraction of groundwater and the risk to Cowies creek is monitored (through review of the plume migration and extent and the bore database) until beneficial uses have been restored.

3.12.3. Review Summary

SCAADA Environmental believes that based on a review of the above environmental audits there is potential for groundwater contamination to be present due to the potential that known contamination being present northeast of the site remains and the groundwater gradient leads southwest towards Cowie Creek.

3.13. EPA GROUNDWATER ZONES WITH RESTRICTED USES

A Groundwater Quality Restricted Use Zone (GQRUZ) is an area, site, or property where an environmental audit has been undertaken and was determined to have residual groundwater contamination.

The Lotsearch report did not identify any EPA Groundwater Quality Restricted Use Zones (GQRUZ) within 1 km of the investigation site.

3.14. EPA PRESCRIBED INDUSTRIAL WASTE SITES

Lotsearch completed a search of sites within a 1 km radius of site that are registered treaters, disposers and permitted transporters of prescribed industrial waste. There are three current EPA prescribed industrial waste sites listed within 1 km of the investigation site and two previous within the buffer of the investigation site. The prescribed industrial waste sites are listed in Table 4.

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Table 4: EPA Prescribed Industrial Waste sites – Current and Previous Potential

Company Name	Address	Treatment/ Disposal	Transport	Accredited Agent	List Status	Distance/ Direction
Scope Investments (VIC) PTY	3 Morgan St	No	Yes	No	Current	4m West
Qest Industrial PTY LTD	29 Saunders St	No	Yes	No	Current	172m Southwest
Combined Waste Services PTY LTD	9-11 Rodney Rd	No	Yes	Yes	Previous	218m Northwest
Barwon Seafoods PTY LTD	18-20 Donga Rd	No	Yes	No	Previous	778m South
Katamaran Aust PTY LTD	34-36 Edols St	No	Yes	No	Current	891m South
Katamaran Australia P/L	34-36 Edols St	No	Yes	No	Previous	891m South

3.15. GROUNDWATER BOREHOLE SEARCH

The Lotsearch report listed 159 registered groundwater boreholes that were identified within 2 km of the investigation site. The identified groundwater boreholes were listed as being for groundwater investigation (5), observation (55), dewatering (5), groundwater investigation, observation, state observation network (3), private landholders bore (2), Victorian Mines Department (1) and unknown (88) use.

3.16. GAS WORKS AND LIQUID FUEL FACILITIES

Information provided by Lotsearch indicates that there are no fuel depots and two operational petrol stations within 1km of site. The fuel facilities within the 1km buffer of site are outlined below in **Error! Reference source not found.**

Table 5: Offsite Gas Works and Liquid Fuel Facilities

Address	Class	Distance and Direction
402-412 Melbourne Road, Norlane	Petrol Station	254m Southeast
458-468 Melbourne Road, Norlane	Petrol Station	287m East

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3.17. ECOLOGICAL CONSTRAINTS

3.17.1. Native Vegetation

Information provided by Lotsearch indicates that there is 'Grassy Woodland' on site classified as endangered.

3.17.2. Groundwater Dependent Ecosystem Atlas

Information provided by Lotsearch indicates that the site has a high potential for the presence of aquatic and terrestrial groundwater dependent ecosystems being present on site (from a national assessment).

3.17.3. Inflow Dependent Ecosystem Likelihood

Information provided by Lotsearch indicates that the site has a high potential for the presence of aquatic and terrestrial inflow dependent ecosystems being present.

3.18. CURRENT SITE LAYOUT

The site currently has two freestanding buildings, an administrative building with an attached playgroup and a doctor's clinic in another building. There are four notable Aboriginal Culturally Sensitive Heritage register items. These include the tranquillity garden, two scar trees and the totem poles. The car park at the northern end of the site occupies land that is rented from the adjacent VicRoads site.

Cowies Creek runs alongside the west and south boundary of the site. The site leases a carpark situated in the north area of the site from VicRoads, the adjacent property to the east. The eastern half of the proposed development area is an open grassland with mature vegetation. The two freestanding buildings are located centrally on site. The western half of the site contains mature vegetation, vehicle roadways and parking, and an assumed water main pipe.

4. SITE VISIT AND OBSERVATIONS

SCAADA Environmental attended site on the 27th of November 2023 to complete site observations. During SCAADA Environmental's site visit, the following observations were recorded:

- LPG gas tanks stored onsite between the two buildings.
- No medical waste bins were observed on site, a site representative confirmed medical waste bins are located internally within the doctors clinic.
- Visible debris (including car tyres) within the vegetation of the Cowies Creek embankment on the west side of site.
- Multiple tyres located on the ground adjacent the dance circle.
- Bitumen footpath along the south side of the property is in varying condition with visible bitumen debris surrounding damaged sections.
- Potential for surface water runoff to lead into Cowies Creek.

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- The north carpark had a strong hydrocarbon odour present during the site attendance. Notably a tanker was stored in the adjacent VicRoads site.
- A variety of cleaning chemicals are stored on site. These are all stored within the buildings in typical commercial containers (5L).
- Older style electrical components attached to powerlines through the site.
- Ground surface disturbance below fence at east end of site from VicRoads site. Suspected water flow or fauna disturbance.
- Groundwater monitoring well present on site, northeast of the administration building.
- Water main pipe located to the south of the site is suspected to be coated in an asbestos-containing material. The condition of the material varies along the pipe, with some areas exposing bare metal.
- Suspected gas pipe passing over Cowies Creek and entering the site from the west.
- Visible sheen present on the surface water of Cowies Creek around the overpass bridge.

Photos from the site attendance have been included within Appendix B.

5. POTENTIAL CONTAMINATION SOURCES

5.1. SUMMARY OF POTENTIAL CONTAMINATION SOURCES

The site history review identified a variety of potentially contaminating activities and sources with regard to the current and former uses of the site, the details of these activities along with a summary of the Contaminants of Potential Concern (COPC) have been outlined in The COPC have been determined by consulting the Department of Environment Government of Western Australia (2004), *Potentially Contaminating Activities, Industries and Land uses*.

Table and Table 7. The COPC have been determined by consulting the Department of Environment Government of Western Australia (2004), *Potentially Contaminating Activities, Industries and Land uses*.

Table 6: Onsite potential contamination sources

Potential Contamination Source/Activity	Contaminants of Potential Concern (COPC)	Details
Asphalt/Bitumen	Total petroleum hydrocarbons (TPH), Polycyclic aromatic hydrocarbons (PAH), Monocyclic aromatic hydrocarbons (MAH), and Metals	Bitumen pathways and roads onsite.
LPG Storage	TPHs, MAHs, Acids, Alkalis, Metals, Cyanides.	Onsite storage of gas bottles.
Medical Waste	Biohazard waste	Medical centre onsite. Tranquillity garden.

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Potential Contamination Source/Activity	Contaminants of Potential Concern (COPC)	Details
Imported Fill	Polychlorinated biphenyls (PCB), Alkanes, Sulphides, Metals, Organic acids, Nutrients, TPHs, PAHs, Ammonia, Landfill gas, Total Dissolved Solids (TDS), Asbestos, Inert Waste and MAHs.	Satellite imagery indicates a portion of the Cowies Creek embankment at the northern end of the site was backfilled during the landfill stage of the seagull paddock.
Water Main Pipe	Asbestos	Water main pipe wrapped in suspected asbestos containing material. Poor condition – debris from damaged areas not visible on the soil surface.
Older electrical components to powerlines	Metals, PCBs, Solvents and Asbestos	Transformers to older powerlines.

Table 7: Offsite potential contamination sources

Potential Contamination Source/Activity	Contaminants of Potential Concern (COPC)	Details
Asphalt/Bitumen	TPHs, PAHs, MAHs, and Metals	VicRoads 'SprayLine' adjacent to the site. SprayLine road services provides bituminous spray-sealing, line-marking, and road maintenance services.
Previous Landfill	PCBs, Alkanes, Sulphides, Metals, Organic acids, Nutrients, TPHs, PAHs, Ammonia, Landfill gas, TDS, Asbestos, Inert Waste and MAH.	Landfill type unknown, listed on City of Greater Geelong database as former landfill. Materials and waste deposited at the site during its use as a landfill are unable to be determined. Because of this, a large variety of COPC may be encountered.
Former Quarry	Acids, Alkalis, Organic flocculants, Metals, TPHs and MAHs.	Former Quarry northeast of site.

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Potential Contamination Source/Activity	Contaminants of Potential Concern (COPC)	Details
Stored Fuel Tanker	TPHs	Fuel tanker in adjacent site and noticeable hydrocarbon odour in the north car park

6. CONCLUSIONS & RECOMMENDATIONS

Following the completion of the Preliminary Site Investigation, SCAADA Environmental have made the following conclusions and recommendations:

- Based on the information reviewed during the completion of the desktop review, SCAADA Environmental considers it likely that potentially contaminating activities have taken place at the site. The activities associated with the backfilling of the Cowies Creek embankment at the north end of the site, electrical infrastructure, water main pipe and tranquillity garden have the potential to cause contamination across the site.
- Based on the findings of this investigation and the proposed future use of the site to be a redevelopment, SCAADA Environmental considers there to be potential for soil contamination to exceed general assessment criteria for the proposed developments land use type.
- SCAADA Environmental believes that there is potential for groundwater contamination to be present due to a suspected landfill cell being present on the adjacent site to the north and the potential that known contamination being present northeast of the site remains and the groundwater gradient leads southwest towards Cowie Creek.
- There exists a current risk for landfill gas migration to the site from the adjacent former landfill cell.

Based on the above conclusions, SCAADA Environmental recommends the following:

- Completing an Environmental Site Assessment (ESA), inclusive of intrusive soil sampling, to better determine if soil contamination exceeds relevant human and ecological health investigation levels for the relevant future land use.
 - The sampling strategy to be used should include targeted sampling locations around identified suspected localised sources of contamination.
- Consideration should be given to the following:
 - Undertaking a landfill gas risk assessment to determine any risks posed by potential landfill gas migration; and
 - Installation and monitoring of groundwater to assess any potential impacts posed by offsite sources. The identified existing groundwater monitoring well could potentially be used as part of this assessment pending further evaluation of its condition.

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7. REFERENCES

Department of Environment, Land, Water and Planning (DELWP) (2021) *Potentially Contaminated Land*, Planning Practice Note 30.

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8. LIMITATIONS

This report has been compiled by SCAADA Environmental Pty Ltd (ABN – 30 624 289 229 & ACN – 624 289 229) for the client as per information provided to SCAADA Environmental prior to the reporting date. This report's conclusions and recommendations are specific to information provided within this report only. The client acknowledges that the investigation only covered areas relevant to this scope of works, and as identified by the client. This report relates to the site at the date of the relevant completed fieldworks as conditions may change thereafter due to natural processes and/or site activities.

The client acknowledges that the assessment only covered readily accessible areas of the site, being areas that could be easily and safely inspected without injury to any person or property. The assessment did not include areas which were inaccessible, not readily accessible, and unsafe to access or obstructed at the time of inspection.

The analysis of samples was completed in a NATA accredited laboratory. SCAADA Environmental takes no responsibility for the reported results. Analytical processes are those controlled solely by the laboratory from which analysis for this report was undertaken. This report is an interpretation of the laboratory results provided to SCAADA Environmental.

Any party carrying out recommendations made within this report take on the responsibility of ensuring they are doing so with the appropriate permits and permissions and within EPA guidelines, legislative requirements, and local regulations, unless SCAADA Environmental is engaged to by the client to complete as part of the formal proposal.

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APPENDIX A – SITE FIGURE

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Source: Near Maps 2023

Figure 1
 Preliminary Site Investigation - Investigation Area
 60-62 Morgan Street, North Geelong, VIC 3215

— Property border



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APPENDIX B – SITE PHOTOGRAPHS



Photo 1: Scar tree located adjacent main building entrance.



Photo 2: LPG gas tanks stored onsite.



Photo 3: Ground surface disturbance below fence between site and VicRoads compound.



Photo 4: Open allotment east of administration building.



Photo 5: Transformer on power pole within site boundary.



Photo 6: Groundwater monitoring well located onsite.

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Photo 7: Tyres located adjacent dance circle.



Photo 8: Water main pipe with suspected asbestos-containing coating.



Photo 9: Sheen visible to surface of Cowies Creek around vehicle overpass bridge.



Photo 10: Representative photo of debris (Tyres) located within Cowies Creek embankment.



Photo 11: Fuel tanker located in VicRoads site adjacent north carpark.

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APPENDIX C – DELWP GROUNDWATER RESOURCE REPORT

Document Number & Name	Version	Correct as at:
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Groundwater Resource Report

Groundwater catchment: West Port Phillip Bay

VICGRID94 Easting: 2442985 Northing: 2377689

Depth to water table: < 5m

Water table salinity (mg/L): 3501 - 7000

Groundwater layers (Aquifers and Aquitards)	Depth below surface (m)	Groundwater salinity (mg/L)
UMTD Lower Mid-Tertiary Aquitard clay, silt, siltstone (fractured rock), marl (fractured rock), minor sand	0 - 122	Unknown
LTA Lower Tertiary Aquifer sand, gravel, clay and silt, minor coal	122 - 140	3501 - 13000
BSE Mesozoic and Palaeozoic Bedrock (basement) sedimentary (fractured rock): Sandstone, siltstone, mudstone, shale. Igneous (fractured rock): includes volcanics, granites, granodiorites.	140 - 340	3501 - 13000

There are no GMUs at this location

For further information about this report contact:
Department of Environment, Land, Water & Planning
Email: ground.water@delwp.vic.gov.au

For further information on groundwater licensing in this area contact:
Southern Rural Water Corporation
Phone: 1300 139 510
Email: srw@srw.com.au
Website: www.srw.com.au

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Printed: 27 November 2023

Date Updated: 11 January 2019



Environment,
Land, Water
and Planning

How to read this report

Introduction

Groundwater is part of the water cycle. When rain or snow falls on land, some of it evaporates, some flows to streams and rivers, and some seeps into the soil. Some of the water in the soil is used by plants but some continues to move down through the soil and rock until all the pores and cracks are full of water. This is known as the water table and this water is called groundwater.

Groundwater is a finite resource that, like surface water, is allocated under the Water Act (1989). A Bore Construction Licence is required to drill for groundwater including for domestic and stock purposes. Taking and using groundwater for commercial or irrigation purposes requires an additional licence.

Purpose of this report

This report has been prepared to provide potential groundwater users with basic information about groundwater beneath their property. This includes the different geological layers, the depths of the layers and the salinity of groundwater in the layers. Information on the groundwater management units (GMU) and any associated caps on the volume that can be licensed (the PCV) are also provided.

Definitions and context

Term	Description
Groundwater Catchment	An identified area of the State within which groundwater resources are connected.
Easting / Northing	The VICGRID 94 coordinates of the spot that was selected on the interactive map.
Groundwater Salinity	Indicates the possible concentration of salts within the groundwater. The salt content indicates the possible uses of the water (see the Beneficial Use Table below). Fertilisers and other contaminants can also enter groundwater and affect its use. It is up to you to make sure that the groundwater you use is suitable for your purpose.
Aquifer	An aquifer is a layer of soil or rock which stores usable volumes of groundwater. Aquifers are generally limestones, gravels and sands, as well as some fractured rocks where the cracks in the rock are open and connected (some basalts, sandstones and limestones). How much water can be pumped from an aquifer depends on how much water is stored in pores and cracks, how well connected the pores and cracks are, and how thick the layer is. It is more likely that volumes of water for irrigation and urban water supply will come from gravels, sands, limestones and basalts that are at least 30 metres thick. Low volumes of water for domestic and stock use are likely from any aquifer greater than 10 metres thick. The advice above is a guide only, as the amount of water available can be highly variable. Actual pumping volumes can only be determined from drilling, appropriate construction and testing of a bore.
Aquitard	An aquitard is a layer of rock or soil that does not allow water to move through it easily, limiting its capacity to supply water. Aquitards are generally silts, clays and fractured rocks (where there are few cracks in the rock or the cracks are poorly connected).
Groundwater Management Unit (GMU)	A collective term for groundwater management areas (GMAs) and water supply protection areas (WSPAs). GMAs and WSPAs are defined areas and depths below the surface where rules for groundwater use may apply. WSPAs often have caps on groundwater use and plans describing how the resource is managed. GMAs usually have caps on groundwater use and may have local plans and rules. All other areas are managed directly through the Water Act (1989). Always check with your local Rural Water Corporation to be sure that the information on the GMU is correct for your specific location.
Permissible Consumptive Volume (PCV)	A cap that is set under the Water Act (1989) declaring the total volume of groundwater that may be taken from the area. Once the PCV is reached, no additional extraction can be licensed for use within the area unless traded from another groundwater licence holder.
Depth to Water Table	This is an indication of the depth at which groundwater might first be encountered when drilling a bore. The depth can vary from year to year, and from place to place and may vary significantly from that indicated in this report.

Beneficial Use Table

Salinity range (mg/L TDS)	Beneficial use as described by State Environment Protection Policy (Groundwaters of Victoria) s160							
	Potable water - preferred	Potable water - acceptable	Potable mineral water	Irrigation	Stock water	Industry	Ecosystem protection	Buildings and structures
<500	✓	✓	✓	✓	✓	✓	✓	✓
501-1000		✓	✓	✓	✓	✓	✓	✓
1001-3500			✓	✓	✓	✓	✓	✓
3501-13000					✓	✓	✓	✓
13001+						✓	✓	✓

Accessibility

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Printed: 27 November 2023

Date Updated: 11 January 2019



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APPENDIX D – DELWP PROPERTY REPORT

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PLANNING PROPERTY REPORT

From www.planning.vic.gov.au at 27 November 2023 12:10 PM

PROPERTY DETAILS

Address: **21 BIRDWOOD AVENUE NORLANE 3214**

Lot and Plan Number: **Lot 1 TP24203**

Standard Parcel Identifier (SPI): **1\TP24203**

Local Government Area (Council): **GREATER GEELONG**

Council Property Number: **280086**

Planning Scheme: **Greater Geelong**

Directory Reference: **Melway 441 K2**

www.geelongaustralia.com.au

[Planning Scheme - Greater Geelong](#)

UTILITIES

Rural Water Corporation: **Southern Rural Water**

Urban Water Corporation: **Barwon Water**

Melbourne Water: **Outside drainage boundary**

Power Distributor: **POWERCOR**

STATE ELECTORATES

Legislative Council: **WESTERN VICTORIA**

Legislative Assembly: **LARA**

OTHER

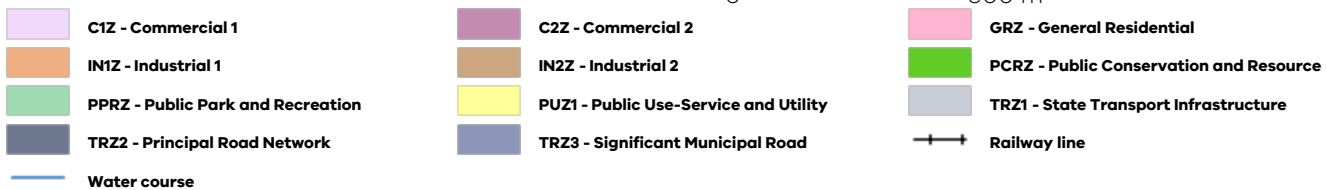
Registered Aboriginal Party: **Wadawurrung Traditional Owners
Aboriginal Corporation**

[View location in VicPlan](#)

Planning Zones

[INDUSTRIAL 1 ZONE \(IN1Z\)](#)

[SCHEDULE TO THE INDUSTRIAL 1 ZONE \(IN1Z\)](#)



Note: labels for zones may appear outside the actual zone - please compare the labels with the legend.

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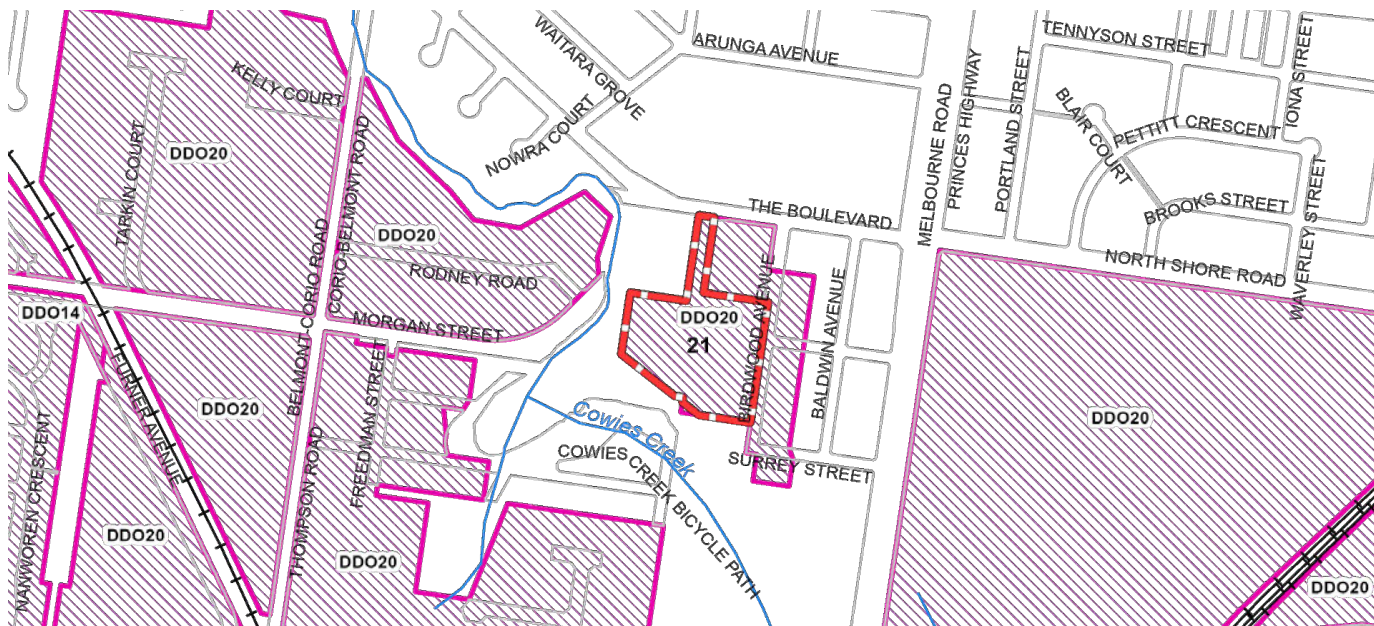
PLANNING PROPERTY REPORT



Planning Overlays

[DESIGN AND DEVELOPMENT OVERLAY \(DDO\)](#)

[DESIGN AND DEVELOPMENT OVERLAY - SCHEDULE 20 \(DDO20\)](#)



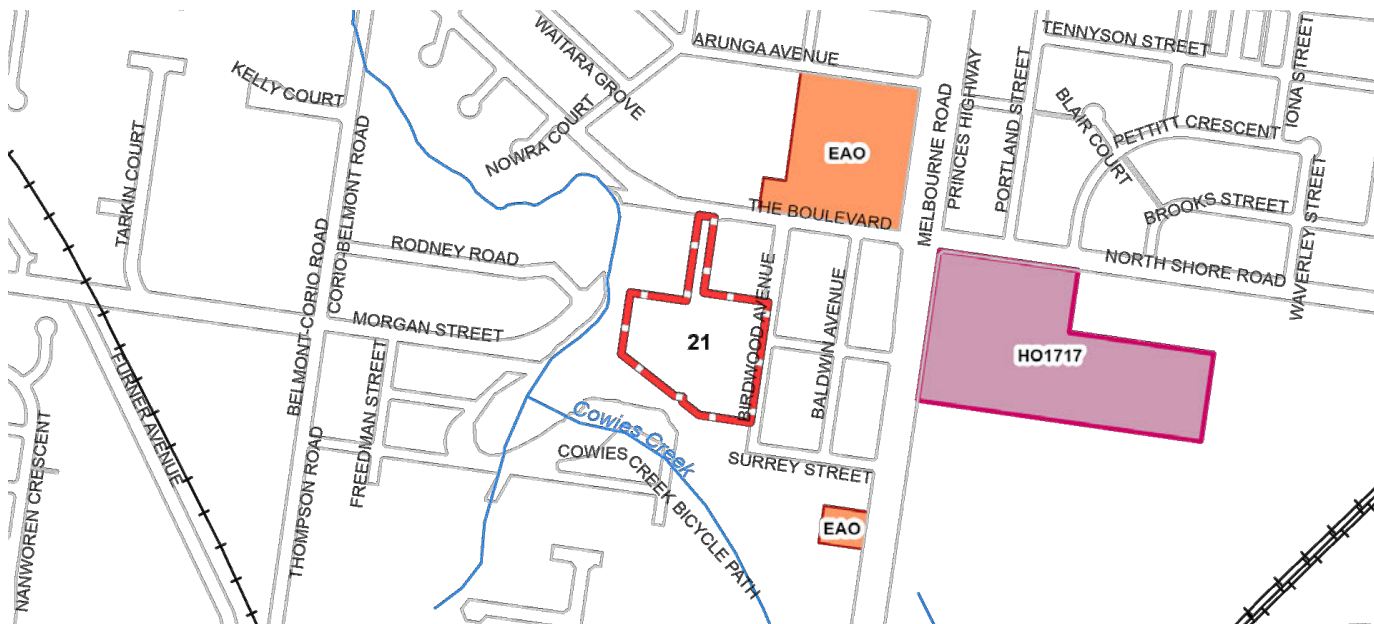
Note: due to overlaps, some overlays may not be visible, and some colours may not match those in the legend

OTHER OVERLAYS

Other overlays in the vicinity not directly affecting this land

[ENVIRONMENTAL AUDIT OVERLAY \(EAO\)](#)

[HERITAGE OVERLAY \(HO\)](#)



Note: due to overlaps, some overlays may not be visible, and some colours may not match those in the legend

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PLANNING PROPERTY REPORT

Areas of Aboriginal Cultural Heritage Sensitivity

All or part of this property is an 'area of cultural heritage sensitivity'.

'Areas of cultural heritage sensitivity' are defined under the Aboriginal Heritage Regulations 2018, and include registered Aboriginal cultural heritage places and land form types that are generally regarded as more likely to contain Aboriginal cultural heritage.

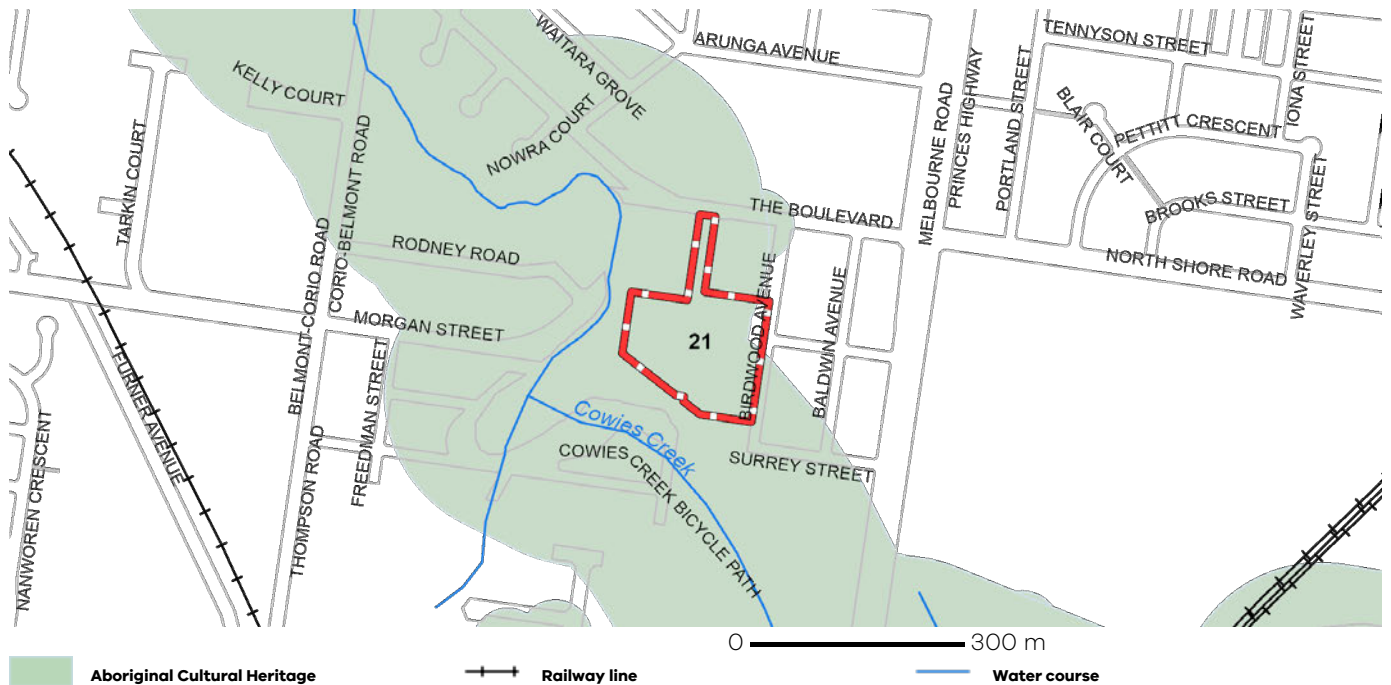
Under the Aboriginal Heritage Regulations 2018, 'areas of cultural heritage sensitivity' are one part of a two part trigger which require a 'cultural heritage management plan' be prepared where a listed 'high impact activity' is proposed.

If a significant land use change is proposed (for example, a subdivision into 3 or more lots), a cultural heritage management plan may be triggered. One or two dwellings, works ancillary to a dwelling, services to a dwelling, alteration of buildings and minor works are examples of works exempt from this requirement.

Under the Aboriginal Heritage Act 2006, where a cultural heritage management plan is required, planning permits, licences and work authorities cannot be issued unless the cultural heritage management plan has been approved for the activity.

For further information about whether a Cultural Heritage Management Plan is required go to <http://www.aav.nrms.net.au/aavQuestion1.aspx>

More information, including links to both the Aboriginal Heritage Act 2006 and the Aboriginal Heritage Regulations 2018, can also be found here - <https://www.aboriginalvictoria.vic.gov.au/aboriginal-heritage-legislation>



PLANNING PROPERTY REPORT



Further Planning Information

Planning scheme data last updated on 22 November 2023.

A **planning scheme** sets out policies and requirements for the use, development and protection of land.

This report provides information about the zone and overlay provisions that apply to the selected land.

Information about the State and local policy, particular, general and operational provisions of the local planning scheme that may affect the use of this land can be obtained by contacting the local council

or by visiting <https://www.planning.vic.gov.au>

This report is NOT a **Planning Certificate** issued pursuant to Section 199 of the **Planning and Environment Act 1987**.

It does not include information about exhibited planning scheme amendments, or zonings that may affect the land.

To obtain a Planning Certificate go to Titles and Property Certificates at Landata - <https://www.landata.vic.gov.au>

For details of surrounding properties, use this service to get the Reports for properties of interest.

To view planning zones, overlay and heritage information in an interactive format visit

<https://mapshare.maps.vic.gov.au/vicplan>

For other information about planning in Victoria visit <https://www.planning.vic.gov.au>

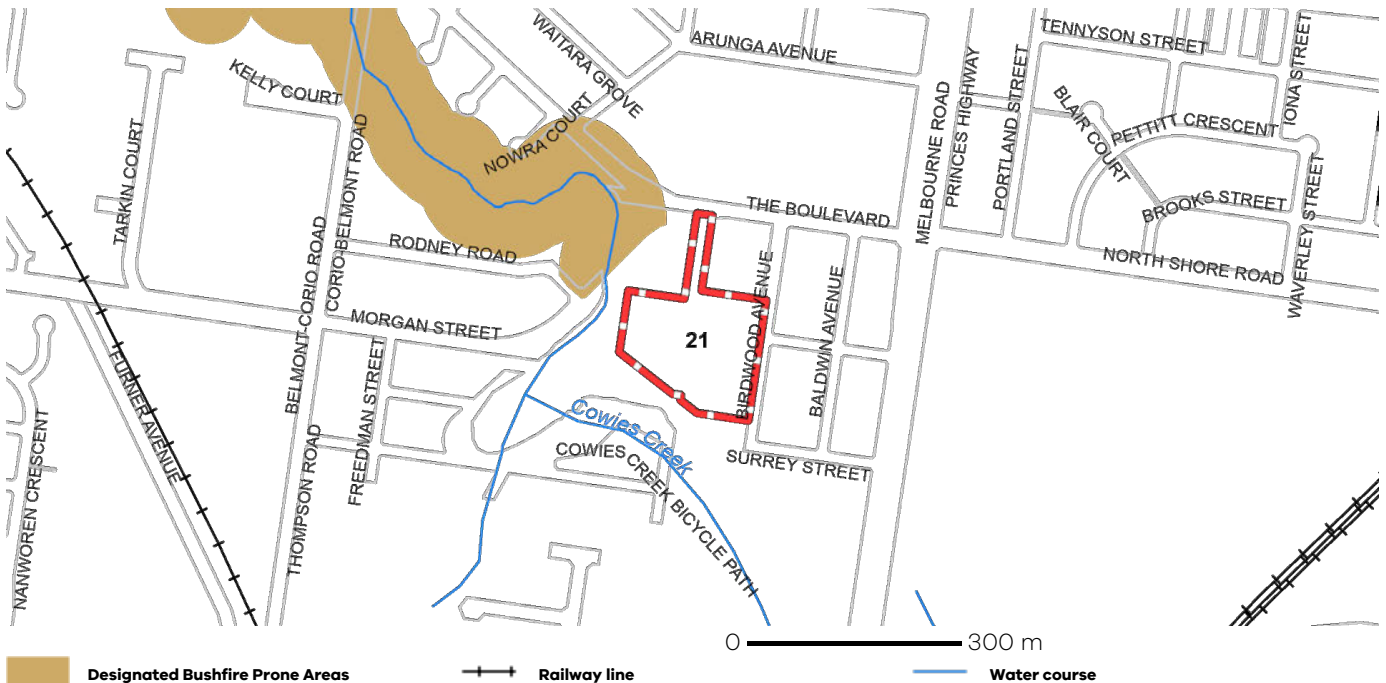
PLANNING PROPERTY REPORT

Designated Bushfire Prone Areas

This property is not in a designated bushfire prone area.
No special bushfire construction requirements apply. Planning provisions may apply.

Where part of the property is mapped as BPA, if no part of the building envelope or footprint falls within the BPA area, the BPA construction requirements do not apply.

Note: the relevant building surveyor determines the need for compliance with the bushfire construction requirements.



Designated BPA are determined by the Minister for Planning following a detailed review process. The Building Regulations 2018, through adoption of the Building Code of Australia, apply bushfire protection standards for building works in designated BPA.

Designated BPA maps can be viewed on VicPlan at <https://mapshare.vic.gov.au/vicplan/> or at the relevant local council.

Create a BPA definition plan in [VicPlan](#) to measure the BPA.

Information for lot owners building in the BPA is available at <https://www.planning.vic.gov.au>.

Further information about the building control system and building in bushfire prone areas can be found on the Victorian Building Authority website <https://www.vba.vic.gov.au>. Copies of the Building Act and Building Regulations are available from <http://www.legislation.vic.gov.au>. For Planning Scheme Provisions in bushfire areas visit <https://www.planning.vic.gov.au>.

Native Vegetation

Native plants that are indigenous to the region and important for biodiversity might be present on this property. This could include trees, shrubs, herbs, grasses or aquatic plants. There are a range of regulations that may apply including need to obtain a planning permit under Clause 52.17 of the local planning scheme. For more information see [Native Vegetation \(Clause 52.17\)](#) with local variations in [Native Vegetation \(Clause 52.17\) Schedule](#)

To help identify native vegetation on this property and the application of Clause 52.17 please visit the Native Vegetation Information Management system <https://nvim.delwp.vic.gov.au/> and [Native vegetation \(environment.vic.gov.au\)](https://www.environment.vic.gov.au) or please contact your relevant council.

You can find out more about the natural values on your property through NatureKit [NatureKit \(environment.vic.gov.au\)](https://www.environment.vic.gov.au)

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PLANNING PROPERTY REPORT

From www.planning.vic.gov.au at 27 November 2023 12:08 PM

PROPERTY DETAILS

Address: **60-62 MORGAN STREET NORLANE 3214**

Lot and Plan Number: **More than one parcel - see link below**

Standard Parcel Identifier (SPI): **More than one parcel - see link below**

Local Government Area (Council): **GREATER GEELONG**

Council Property Number: **298610**

Planning Scheme: **Greater Geelong**

Directory Reference: **Melway 441 K3**

www.geelongaustralia.com.au

[Planning Scheme - Greater Geelong](#)

This property has 2 parcels. For full parcel details get the free Property report at [Property Reports](#)

UTILITIES

Rural Water Corporation: **Southern Rural Water**

Urban Water Corporation: **Barwon Water**

Melbourne Water: **Outside drainage boundary**

Power Distributor: **POWERCOR**

STATE ELECTORATES

Legislative Council: **WESTERN VICTORIA**

Legislative Assembly: **LARA**

OTHER

Registered Aboriginal Party: **Wadawurrung Traditional Owners
Aboriginal Corporation**

[View location in VicPlan](#)

Planning Zones

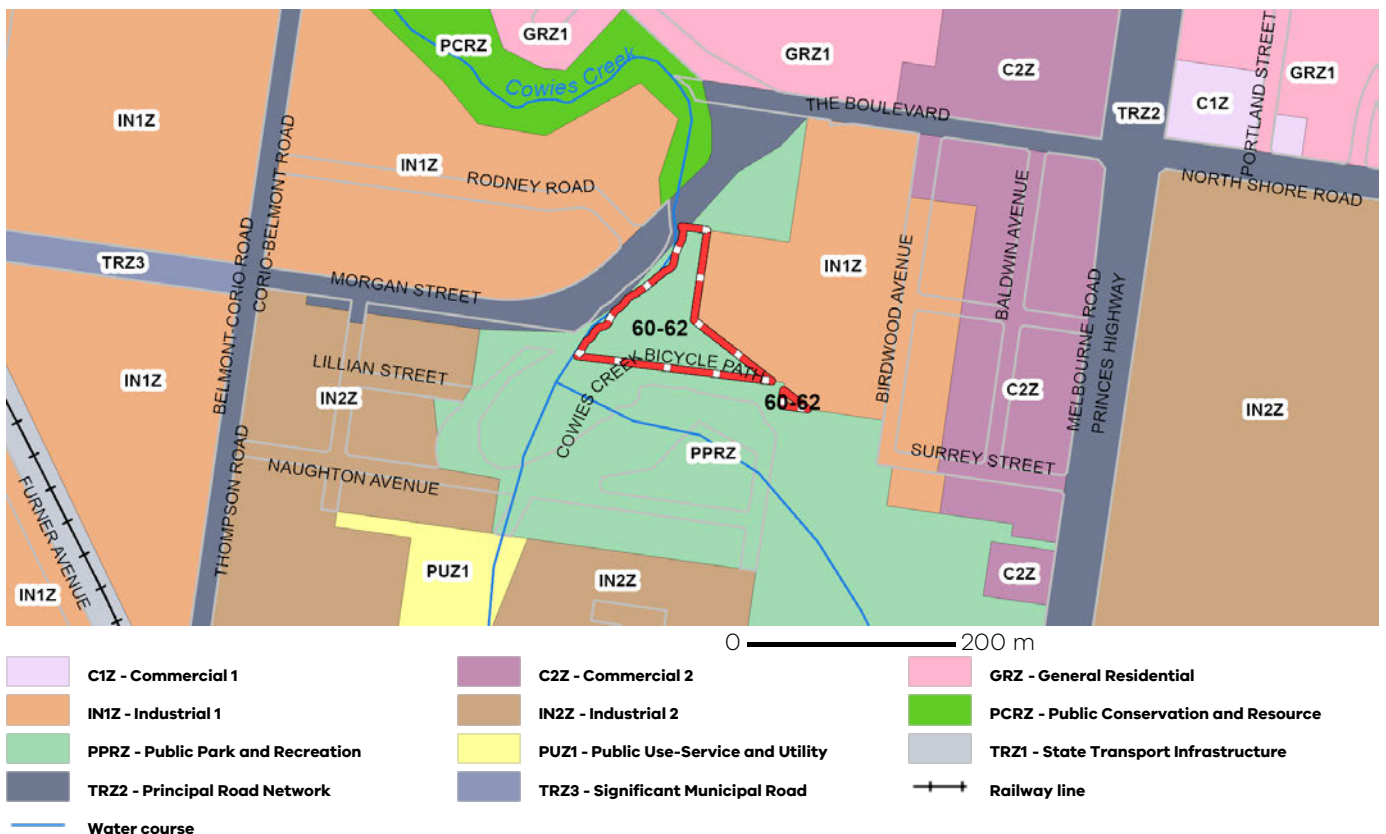
[INDUSTRIAL 1 ZONE \(IN1Z\)](#)

[SCHEDULE TO THE INDUSTRIAL 1 ZONE \(IN1Z\)](#)

[PUBLIC PARK AND RECREATION ZONE \(PPRZ\)](#)

[SCHEDULE TO THE PUBLIC PARK AND RECREATION ZONE \(PPRZ\)](#)

[TRANSPORT ZONE 2 - PRINCIPAL ROAD NETWORK \(TR2Z\)](#)



Note: labels for zones may appear outside the actual zone - please compare the labels with the legend.

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Notwithstanding this disclaimer, a vendor may rely on the information in this report for the purpose of a statement that land is in a bushfire prone area as required by section 32C (b) of the Sale of Land 1962 (Vic).

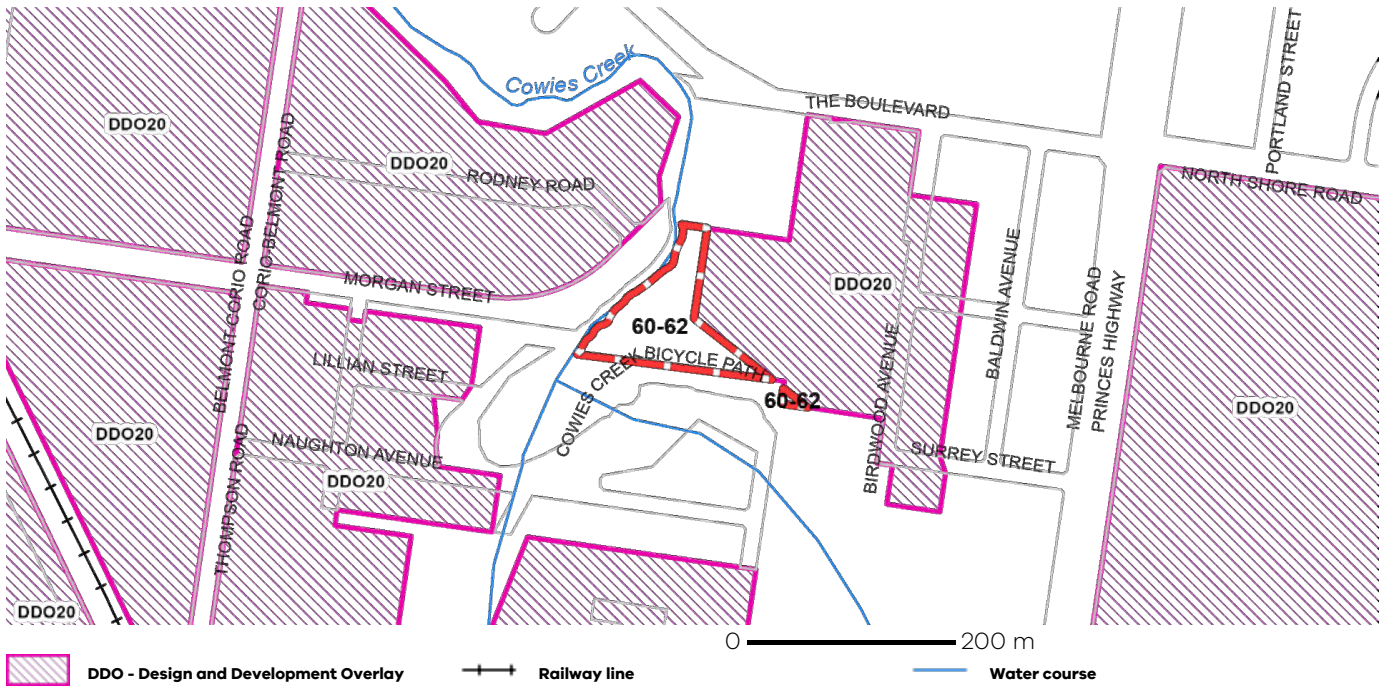
PLANNING PROPERTY REPORT



Planning Overlays

DESIGN AND DEVELOPMENT OVERLAY (DDO)

DESIGN AND DEVELOPMENT OVERLAY - SCHEDULE 20 (DDO20)



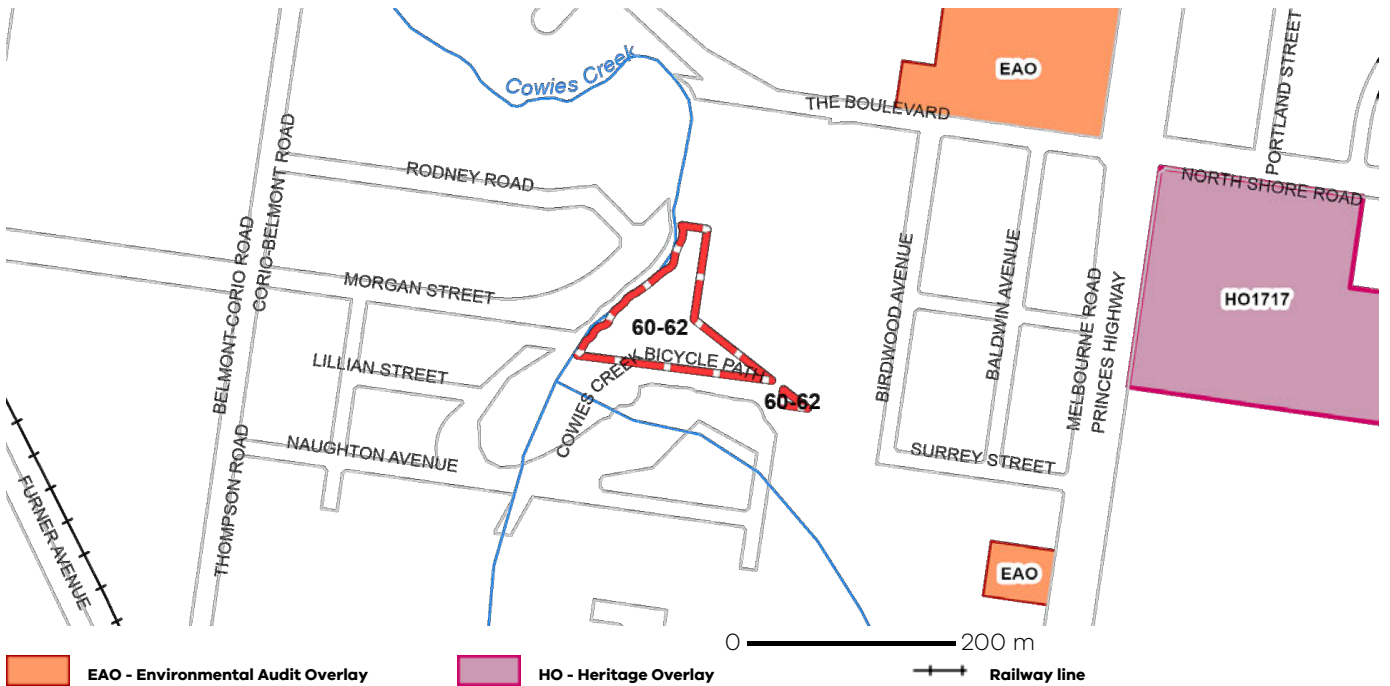
Note: due to overlaps, some overlays may not be visible, and some colours may not match those in the legend

OTHER OVERLAYS

Other overlays in the vicinity not directly affecting this land

ENVIRONMENTAL AUDIT OVERLAY (EAO)

HERITAGE OVERLAY (HO)



Note: due to overlaps, some overlays may not be visible, and some colours may not match those in the legend

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PLANNING PROPERTY REPORT

Areas of Aboriginal Cultural Heritage Sensitivity

All or part of this property is an 'area of cultural heritage sensitivity'.

'Areas of cultural heritage sensitivity' are defined under the Aboriginal Heritage Regulations 2018, and include registered Aboriginal cultural heritage places and land form types that are generally regarded as more likely to contain Aboriginal cultural heritage.

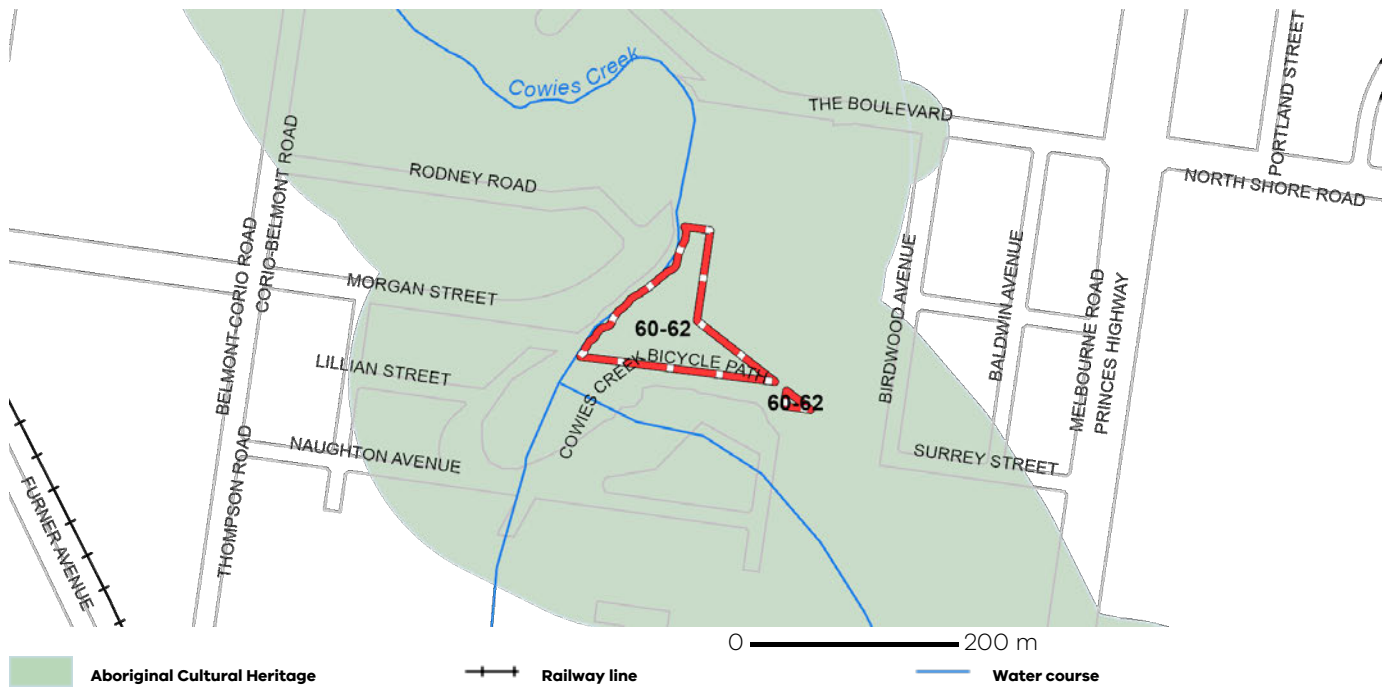
Under the Aboriginal Heritage Regulations 2018, 'areas of cultural heritage sensitivity' are one part of a two part trigger which require a 'cultural heritage management plan' be prepared where a listed 'high impact activity' is proposed.

If a significant land use change is proposed (for example, a subdivision into 3 or more lots), a cultural heritage management plan may be triggered. One or two dwellings, works ancillary to a dwelling, services to a dwelling, alteration of buildings and minor works are examples of works exempt from this requirement.

Under the Aboriginal Heritage Act 2006, where a cultural heritage management plan is required, planning permits, licences and work authorities cannot be issued unless the cultural heritage management plan has been approved for the activity.

For further information about whether a Cultural Heritage Management Plan is required go to <http://www.aav.nrms.net.au/aavQuestion1.aspx>

More information, including links to both the Aboriginal Heritage Act 2006 and the Aboriginal Heritage Regulations 2018, can also be found here - <https://www.aboriginalvictoria.vic.gov.au/aboriginal-heritage-legislation>



PLANNING PROPERTY REPORT



Further Planning Information

Planning scheme data last updated on 22 November 2023.

A **planning scheme** sets out policies and requirements for the use, development and protection of land. This report provides information about the zone and overlay provisions that apply to the selected land. Information about the State and local policy, particular, general and operational provisions of the local planning scheme that may affect the use of this land can be obtained by contacting the local council or by visiting <https://www.planning.vic.gov.au>

This report is NOT a **Planning Certificate** issued pursuant to Section 199 of the **Planning and Environment Act 1987**. It does not include information about exhibited planning scheme amendments, or zonings that may affect the land. To obtain a Planning Certificate go to Titles and Property Certificates at Landata - <https://www.landata.vic.gov.au>

For details of surrounding properties, use this service to get the Reports for properties of interest.

To view planning zones, overlay and heritage information in an interactive format visit <https://mapshare.maps.vic.gov.au/vicplan>

For other information about planning in Victoria visit <https://www.planning.vic.gov.au>

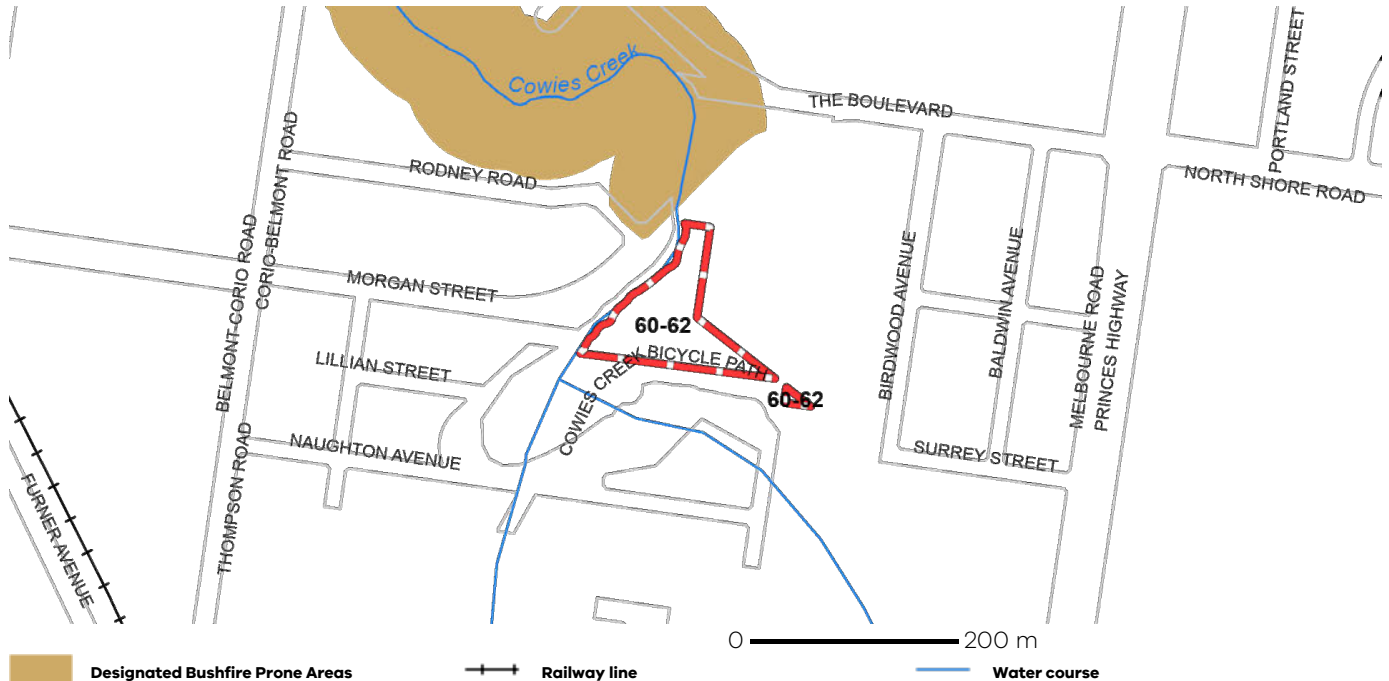
PLANNING PROPERTY REPORT

Designated Bushfire Prone Areas

This property is not in a designated bushfire prone area.
No special bushfire construction requirements apply. Planning provisions may apply.

Where part of the property is mapped as BPA, if no part of the building envelope or footprint falls within the BPA area, the BPA construction requirements do not apply.

Note: the relevant building surveyor determines the need for compliance with the bushfire construction requirements.



Designated BPA are determined by the Minister for Planning following a detailed review process. The Building Regulations 2018, through adoption of the Building Code of Australia, apply bushfire protection standards for building works in designated BPA.

Designated BPA maps can be viewed on VicPlan at <https://mapshare.vic.gov.au/vicplan/> or at the relevant local council.

Create a BPA definition plan in [VicPlan](#) to measure the BPA.

Information for lot owners building in the BPA is available at <https://www.planning.vic.gov.au>.

Further information about the building control system and building in bushfire prone areas can be found on the Victorian Building Authority website <https://www.vba.vic.gov.au>. Copies of the Building Act and Building Regulations are available from <http://www.legislation.vic.gov.au>. For Planning Scheme Provisions in bushfire areas visit <https://www.planning.vic.gov.au>.

Native Vegetation

Native plants that are indigenous to the region and important for biodiversity might be present on this property. This could include trees, shrubs, herbs, grasses or aquatic plants. There are a range of regulations that may apply including need to obtain a planning permit under Clause 52.17 of the local planning scheme. For more information see [Native Vegetation \(Clause 52.17\)](#) with local variations in [Native Vegetation \(Clause 52.17\) Schedule](#)

To help identify native vegetation on this property and the application of Clause 52.17 please visit the Native Vegetation Information Management system <https://nvim.delwp.vic.gov.au/> and [Native vegetation \(environment.vic.gov.au\)](https://www.environment.vic.gov.au) or please contact your relevant council.

You can find out more about the natural values on your property through NatureKit [NatureKit \(environment.vic.gov.au\)](https://www.environment.vic.gov.au)

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Wathaurong Aboriginal Co-Operative
Preliminary Site Investigation
SG-T4-E-FRM-054



APPENDIX E – LOTSEARCH REPORT

Document Number & Name	Version	Correct as at:
SG-T4-E-FRM-054 - Preliminary Site Investigation	02	Tuesday, 6 June 2023



LOTSEARCH

LOTSEARCH ENVIRO PROFESSIONAL

Date: 28 Nov 2023 14:06:39

Reference: LS050539 EP

Address: 60-62 Morgan Street, Norlane, VIC 3214

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
Topographic and Cadastre data	State Government Victoria - Department of Environment, Land, Water & Planning	13/09/2023	13/09/2023	Monthly	-	-	-	-
Current EPA Priority Sites	Environment Protection Authority (Vic)	23/10/2023	06/10/2023	Monthly	1000m	0	0	0
EPA Site Management Orders	Victoria EPA	27/09/2023	29/08/2023	Monthly	1000m	0	0	0
Former EPA Priority Sites & other Remedial Notices	Environment Protection Authority (Vic)	23/10/2023	04/08/2023	Quarterly	1000m	0	1	28
EPA PFAS Site Investigations	Environment Protection Authority (Vic)	20/10/2023	30/05/2023	Monthly	2000m	0	0	0
Defence PFAS Investigation & Management Program - Investigation Sites	Department of Defence	19/10/2023	19/10/2023	Monthly	2000m	0	0	0
Defence PFAS Investigation & Management Program - Management Sites	Department of Defence	19/10/2023	19/10/2023	Monthly	2000m	0	0	0
Airservices Australia National PFAS Management Program	Airservices Australia	19/10/2023	19/10/2023	Monthly	2000m	0	0	0
Defence Controlled Areas	Department of Defence	10/10/2023	10/10/2023	Quarterly	2000m	0	0	0
Defence 3 Year Regional Contamination Investigation Program	Department of Defence	19/10/2023	02/09/2022	Quarterly	2000m	0	0	0
National Unexploded Ordnance (UXO)	Department of Defence	10/10/2023	10/10/2023	Quarterly	2000m	0	0	1
EPA Preliminary Risk Screening Assessments	Environment Protection Authority (Vic)	20/10/2023	15/11/2022	Monthly	1000m	0	0	0
EPA Environmental Audit Reports	Environment Protection Authority Victoria	07/11/2023	15/01/2023	Monthly	1000m	0	0	5
EPA Groundwater Zones with Restricted Uses	Environment Protection Authority (Vic)	28/07/2023	28/07/2023	Monthly	1000m	0	0	0
EPA Register of Permissions	Environment Protection Authority (Vic)	26/06/2023	26/06/2023	Monthly	1000m	0	0	21
Legacy EPA Licensed Activities	Environment Protection Authority (Vic)	19/07/2022	22/07/2021	Monthly	1000m	0	0	1
Legacy EPA Works Approvals	Environment Protection Authority (Vic)	13/12/2022	13/12/2022	Monthly	1000m	0	0	2
National Waste Management Facilities Database	Geoscience Australia	26/05/2022	07/03/2017	Annually	1000m	0	0	1
Statewide Waste and Resource Recovery Infrastructure Plan Facilities	State Government Victoria - Department of Sustainability	27/11/2014	31/12/2012	Annual	1000m	0	0	2
Legacy EPA Prescribed Industrial Waste	Environment Protection Authority (Vic)	12/08/2020	12/08/2020	Quarterly	1000m	0	1	6
EPA Victorian Landfill Register	Environment Protection Authority (Vic)	16/10/2023	16/03/2023	Quarterly	1000m	0	0	1
Former Gasworks	Various historical sources collated by Lotsearch	15/08/2017	15/08/2017	Not required	1000m	0	0	0
National Liquid Fuel Facilities	Geoscience Australia	20/09/2023	07/09/2020	Annually	1000m	0	0	2
Historical Business Directories (Premise & Intersection Matches)	Hardie Grant; Sands & McDougall, State Library Victoria			Not required	150m	0	17	43
Historical Business Directories (Road & Area Matches)	Hardie Grant; Sands & McDougall, State Library Victoria			Not required	150m	-	7	10
Historical Business Directory Dry Cleaners & Motor Garages/Service Stations (Premise & Intersection Matches)	Hardie Grant; Sands & McDougall, State Library Victoria			Not required	500m	0	0	13
Historical Business Directory Dry Cleaners & Motor Garages/Service Stations (Road & Area Matches)	Hardie Grant; Sands & McDougall, State Library Victoria			Not required	500m	-	0	33
Features of Interest	State Government Victoria - Department of Environment, Land, Water & Planning	14/11/2023	14/11/2023	Quarterly	1000m	1	3	43

Dataset Name	Custodian	Supply Date	Currency Date	Update Frequency	Dataset Buffer (m)	No. Features On-site	No. Features within 100m	No. Features within Buffer
Hydrogeology Map of Australia	Commonwealth of Australia (Geoscience Australia)	08/10/2014	17/03/2000	None planned	1000m	1	1	1
Groundwater Salinity	State Government Victoria - Department of Environment, Land, Water & Planning	14/08/2015	29/08/2012	Annual	0m	2	-	-
Depth to Watertable	State Government Victoria - Department of Environment, Land, Water & Planning	14/08/2015	29/08/2012	Annual	0m	1	-	-
Surface Elevation	State Government Victoria - Department of Environment, Land, Water & Planning	14/08/2015	23/09/2013	Annual	0m	1	-	-
Basement Elevation	State Government Victoria - Department of Environment, Land, Water & Planning	14/08/2015	23/09/2013	Annual	0m	1	-	-
Groundwater Boreholes WMIS	State Government Victoria - Department of Environment, Land, Water & Planning	27/07/2023	27/07/2023	Quarterly	2000m	0	0	111
Groundwater Boreholes Earth Resources Database	State Government Victoria - Department of Economic Development, Jobs, Transport and Resources	19/12/2022	17/02/2010	Annually	2000m	0	0	0
Groundwater Boreholes Fed Uni	Federation University Australia	21/12/2017	07/01/2014	Annual	2000m	0	0	54
Historical Mining Activity - Shafts	State Government Victoria - Department of Economic Development, Jobs, Transport and Resources	05/09/2023	21/06/2023	Annually	1000m	0	0	0
Geological Units 1:50,000	State Government Victoria - Department of Economic Development, Jobs, Transport and Resources	13/01/2015	24/06/2014	Annual	1000m	2	2	5
Geological Structures 1:50,000	State Government Victoria - Department of Economic Development, Jobs, Transport and Resources	13/01/2015	24/06/2014	Unknown	1000m	0	0	0
Dykes and Marker Beds 50k	State Government Victoria - Department of Economic Development, Jobs, Transport and Resources	13/01/2015	24/06/2014	None planned	1000m	0	0	0
Shear zones 250k	State Government Victoria - Department of Economic Development, Jobs, Transport and Resources	13/01/2015	24/06/2014	Annual	1000m	0	0	0
Atlas of Australian Soils	ABARES	19/05/2017	17/02/2011	None planned	1000m	1	1	2
Victorian Soil Type Mapping	State Government Victoria - Department of Economic Development, Jobs, Transport and Resources	24/08/2017	21/03/2016	Annual	1000m	1	1	1
Atlas of Australian Acid Sulfate Soils	CSIRO	19/01/2017	21/02/2013	None planned	1000m	1	1	3
Coastal Acid Sulfate Soils	State Government Victoria - Department of Economic Development, Jobs, Transport and Resources	28/03/2017	30/03/2011	Annual	1000m	0	0	0
Planning Scheme Zones	State Government Victoria - Department of Environment, Land, Water & Planning	24/10/2023	12/10/2023	Monthly	1000m	2	6	46
Planning Scheme Overlay	State Government Victoria - Department of Environment, Land, Water & Planning	24/10/2023	12/10/2023	Monthly	1000m	1	3	16
Commonwealth Heritage List	Australian Government Department of Agriculture, Water and the Environment	20/10/2023	13/04/2022	Annually	1000m	0	0	0
National Heritage List	Australian Government Department of Agriculture, Water and the Environment	20/10/2023	13/04/2022	Annually	1000m	0	0	0
Victorian Heritage Register	State Government Victoria - Department of Environment, Land, Water & Planning	14/06/2023	14/06/2023	Quarterly	1000m	0	0	1
Cultural Heritage Sensitivity	State Government Victoria - Department of Premier and Cabinet	14/11/2023	14/11/2023	Quarterly	1000m	1	1	15
Bushfire Prone Area	State Government Victoria - Department of Transport, Planning and Local Infrastructure	06/11/2023	20/04/2023	Quarterly	1000m	0	1	1
Fire History	State Government Victoria - Department of Environment, Land, Water & Planning	06/11/2023	27/09/2023	Quarterly	1000m	0	0	0
Flood - 1 in 100 Year Modelled Flood Extent	State Government Victoria - Department of Environment, Land, Water & Planning	19/10/2022	22/06/2022	Quarterly	1000m	1	1	2
Victorian Coastal Inundation Sea Level Rise	State Government Victoria - Department of Environment, Land, Water & Planning	10/04/2018	24/10/2017	Annual	1000m	0	0	7
Native Vegetation (Modelled 2005 Ecological Vegetation Classes)	State Government Victoria - Department of Environment, Land, Water & Planning	13/01/2015	31/12/2005	Annual	1000m	1	1	1
Ramsar Wetland Areas in Victoria	State Government Victoria - Department of Environment, Land, Water & Planning	09/05/2023	01/11/2022	Annually	1000m	0	0	0
Groundwater Dependent Ecosystems Atlas	Bureau of Meteorology	05/06/2023	01/06/2023	Annually	1000m	2	2	7

Dataset Name	Custodian	Supply Date	Currency Date	Update Frequency	Dataset Buffer (m)	No. Features On-site	No. Features within 100m	No. Features within Buffer
Inflow Dependent Ecosystems Likelihood	Bureau of Meteorology	05/06/2023	01/06/2023	Annually	1000m	3	3	10

Site Diagram

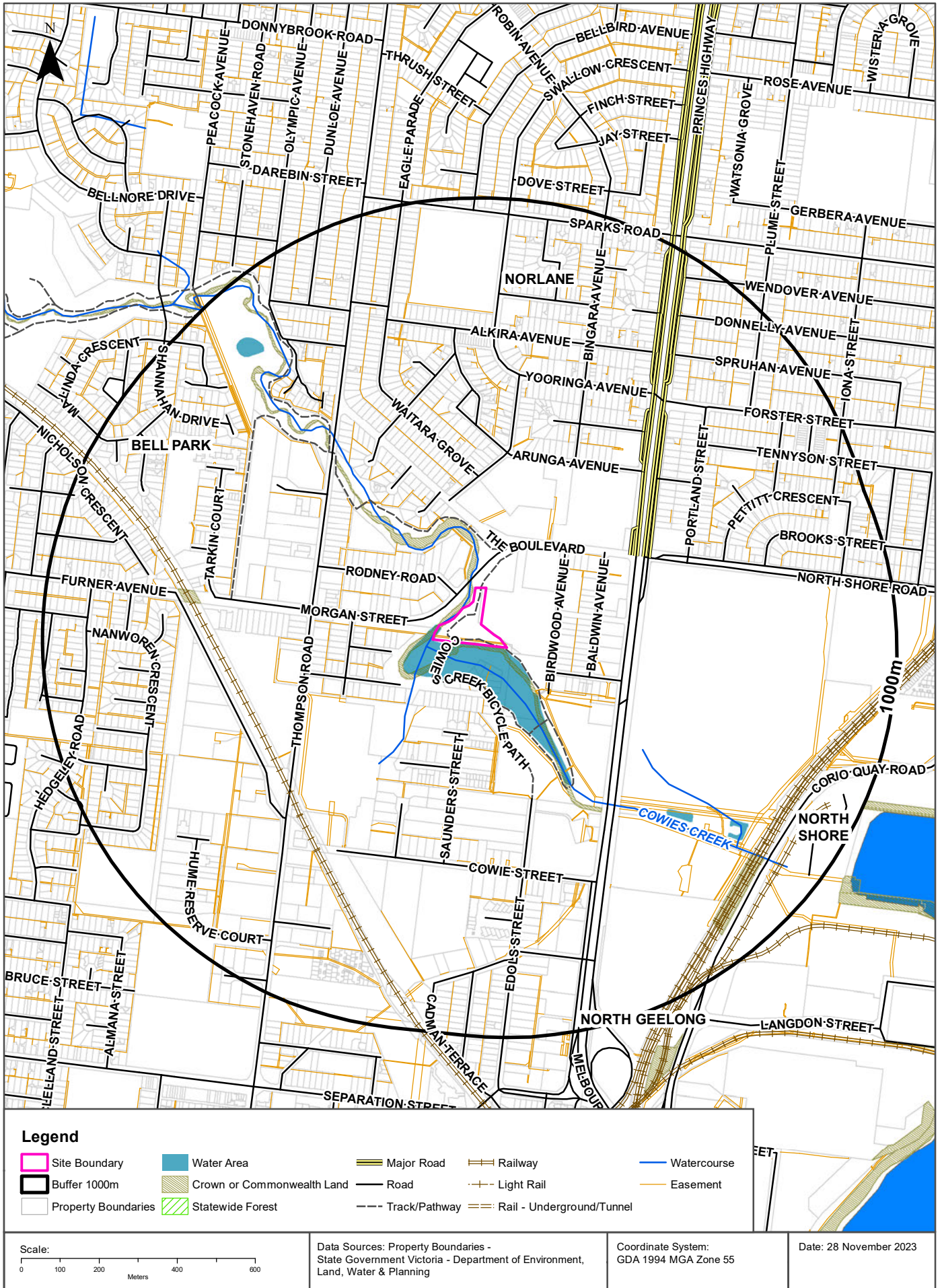
60-62 Morgan Street, Norlane, VIC 3214



Legend Site Boundary Internal Parcel Boundaries	Total Area: 11880m ² Total Perimeter: 587m	Scale:
	Disclaimers: Measurements are approximate only and may have been simplified or smaller lengths removed for readability. Parcels that make up a small percentage of the total site area have not been labelled for increased legibility.	Data Source Aerial Imagery: © Aerometrex Pty Ltd
	Coordinate System: GDA 1994 MGA Zone 55	Date: 28 November 2023

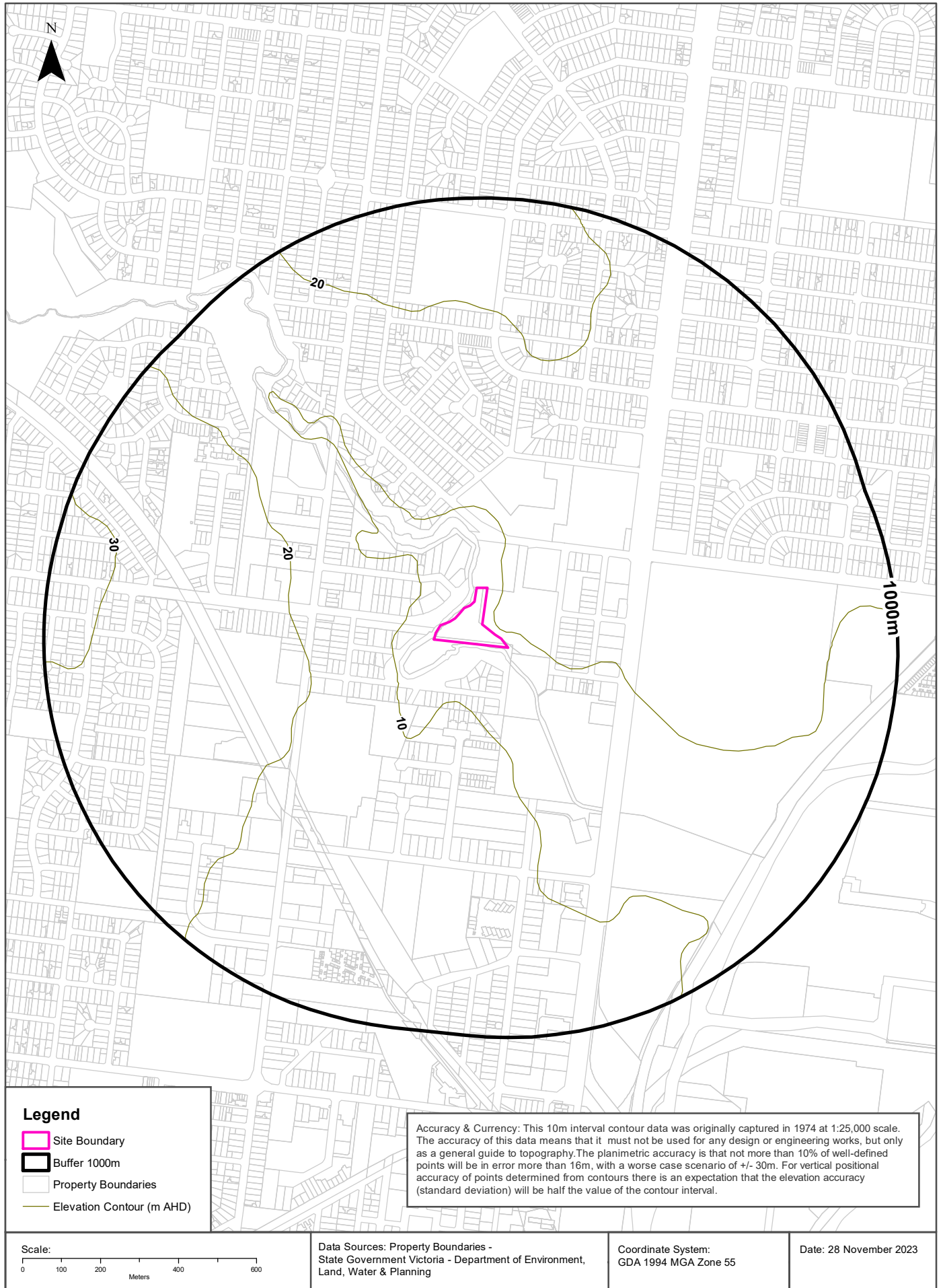
Topographic Data

60-62 Morgan Street, Norlane, VIC 3214



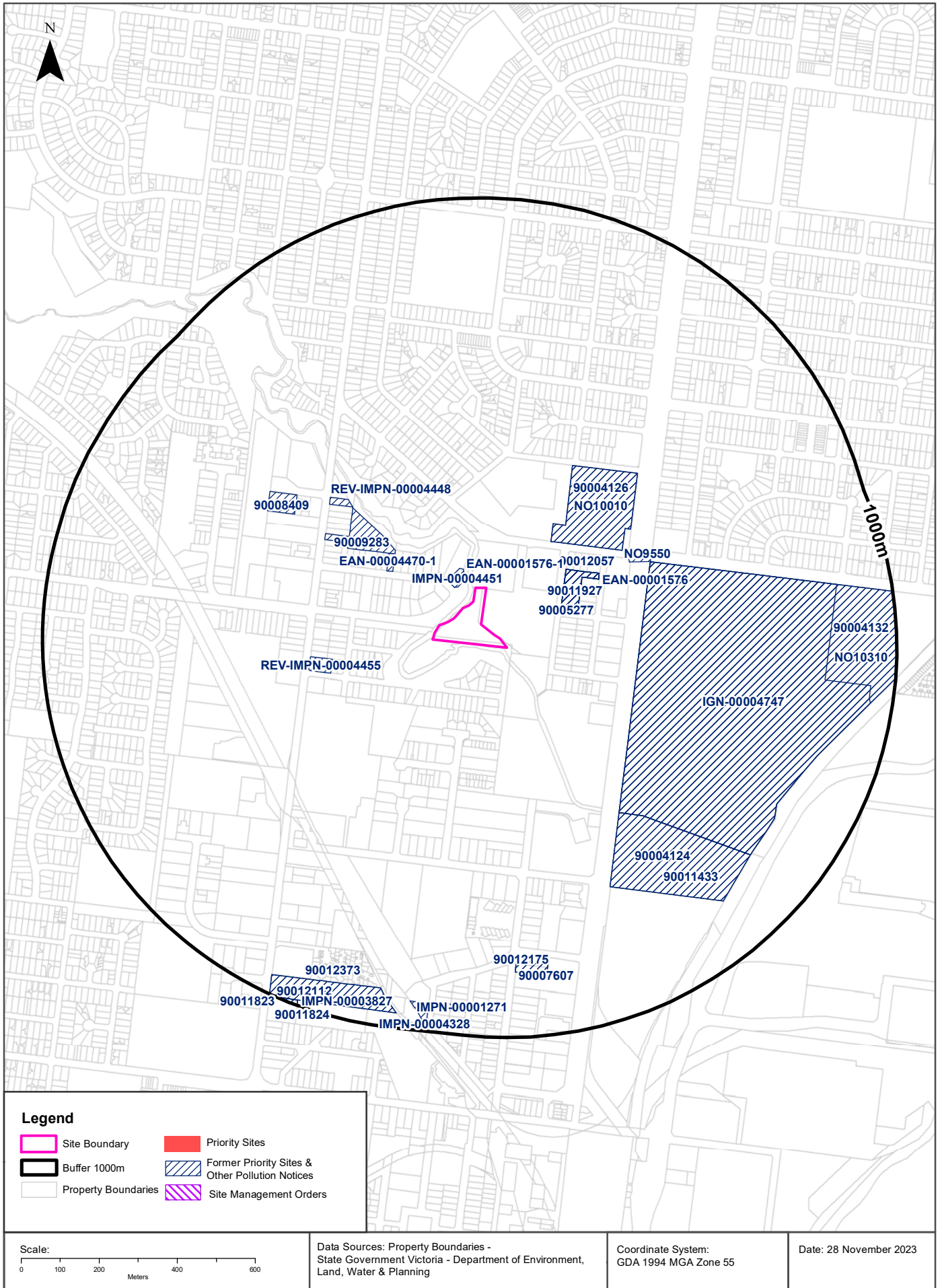
Elevation Contours (m AHD)

60-62 Morgan Street, Norlane, VIC 3214



EPA Records - Priority Sites, Site Management Orders & Pollution Notices

60-62 Morgan Street, Norlane, VIC 3214



EPA Priority Sites, Site Management Orders & Pollution Notices

60-62 Morgan Street, Norlane, VIC 3214

Current EPA Priority Sites Register

Sites on the current EPA priority sites register that exist within the dataset buffer:

Notice No	Address	Suburb	Issue	Loc Conf	Dist (m)	Direction
N/A	No records in buffer					

Priority Sites Register Custodian: State Government Victoria - Environment Protection Authority (EPA)

Site Management Orders

Sites within the dataset buffer that have been issued a Site Management Orders:

Order Id	Issue Date	Address	Title	Suburb	Company	Status	Loc Conf	Dist (m)	Dir
N/A	No records in buffer								

Site Management Orders Data Custodian: State Government Victoria - Environment Protection Authority (EPA)

Former EPA Priority Sites & Other Pollution Notices

Sites within the dataset buffer that have been issued a Pollution Notice:

Note. Due to pollution notices being revoked and removed from published lists this is not an exhaustive list of all past pollution notices.

Notice No	Notice Type	Company	Address	Suburb	Status	Issue	Date Issued	Loc Conf	Dist	Dir
IMPN-00004451	Improvement Notice	PLANET 9 LOGISTICS PTY LTD	35 Rodney Rd, North Geelong, Geelong, Victoria, 3215	GEELONG	Current Pollution Notice		31/03/2023	Premise Match	35m	North
90005277	Pollution Abatement Notice	COUNTRY FIRE AUTHORITY	20 BIRDWOOD AV	NORLANE	Previous Pollution Notice			Premise Match	170m	East
90011927	Pollution Abatement Notice	COUNTRY FIRE AUTHORITY [NORLANE]	20-32 BIRDWOOD AV NORLANE VIC 3214	NORLANE	Previous Pollution Notice			Premise Match	170m	East
90012057	Pollution Abatement Notice	COUNTRY FIRE AUTHORITY [NORLANE]	20-32 BIRDWOOD AV NORLANE VIC 3214	NORLANE	Previous Pollution Notice			Premise Match	170m	East
EAN-00001576	Previous Priority Notice, Environmental Action Notice		20-32 Birdwood Avenue, Norlane, Victoria, 3214, Australia	Norlane	Previous Priority Notice	Accidental spill/leak (non-industrial site)		Premise Match	170m	East
EAN-00001576-1	Previous Priority Notice		20-32 Birdwood Avenue, Norlane, Victoria, 3214, Australia	NORLANE	Previous Priority Notice	Accidental spill/leak (non-industrial site), Requires ongoing		Premise Match	170m	East
EAN-00004470-1	Environmental Action Notice	The Trustee for THE DAVIS OLLIS DISCRETIONARY TRUST	17 Rodney Rd, North Geelong, Geelong, Victoria, 3215	GEELONG	Current Pollution Notice		05/04/2023	Premise Match	182m	North West

Notice No	Notice Type	Company	Address	Suburb	Status	Issue	Date Issued	Loc Conf	Dist	Dir
90004126	Previous Priority Notice, Clean Up Notice	FORD MOTOR CO OF AUST LIMITED [BUNNINGS]	5 - 19 PRINCES HWY	NORLANE	Previous Priority Notice	Former Industrial Site. Requires assessment and/or clean up.	30/09/2013	Premise Match	204m	North East
NO10010	62A(1)	FORD MOTOR CO OF AUST LTD	PRINCES HWY	NORLANE	Legacy EPA Database Pollution Notice	Former Industrial Site, Requires assessment and/or clean up.	31/10/2011	Premise Match	204m	North East
90009283	Pollution Abatement Notice	Geelong Powersweep (North Geelong)	402A THOMPSON RD / NORTH GEELONG	NORTH GEELONG	Previous Pollution Notice		01/11/2018	Premise Match	215m	North West
REV-IMPN-00004455	Improvement Notice	THE TRUSTEE FOR THE DANLY TRUST	362-364 Thompson Rd, North Geelong, Geelong, Victoria, 3215, Australia	GEELONG	Current Pollution Notice		31/03/2023	Premise Match	262m	West
90004132	Previous Priority Notice, Clean Up Notice	FORD MOTOR CO OF AUST LIMITED [GEELONG]	60 - 80 NORTH SHORE RD	NORLANE	Previous Priority Notice	Current Industrial Site. Requires assessment and/or clean up.	30/09/2013	Premise Match	338m	East
IGN-00004747	Information Gathering Notice	FORTEK (PRINCES) PTY LTD	365-455 Melbourne Road Norlane 3214	NORLANE	Current Pollution Notice		19/05/2023	Premise Match	338m	East
NO10310	62A(1)	FORD MOTOR CO OF AUST LTD	MELBOURNE RD	GEELONG NORTH	Legacy EPA Database Pollution Notice	Former Industrial Site, Requires assessment and/or clean up.	29/03/2012	Premise Match	338m	East
NO9550	62A(1)	FORD MOTOR CO OF AUST LTD	CNR NORTH SHORE RD & PRINCES HWY	GEELONG	Legacy EPA Database Pollution Notice	Current Industrial Site, Requires assessment and/or clean up.	11/07/2011	Road Intersection	373m	East
REV-IMPN-00004448	Improvement Notice	The Trustee for DNT Unit Trust	414 Thompson Rd, North Geelong, Geelong, Victoria, 3215	GEELONG	Current Pollution Notice		30/03/2023	Premise Match	376m	North West
90008409	Pollution Abatement Notice	SOUTHERN STAR GLASS PTY LTD [NORTH GEELONG]	3-4 KELLY CT	NORTH GEELONG	Previous Pollution Notice		02/01/2018	Premise Match	468m	North West
90011433	Previous Priority Notice		343 - 363 MELBOURNE RD	NORTH GEELONG	Previous Priority Notice	Former Industrial Site. Requires ongoing management.		Premise Match	512m	South East
90004124	Previous Priority Notice, Notices	FORD MOTOR CO OF AUST LIMITED Southland Southland Site	343 - 363 MELBOURNE RD	NORTH GEELONG	Previous Priority Notice	Former Industrial Site. Requires assessment and/or clean up.	18/10/2013	Premise Match	512m	South East
90007607	Pollution Abatement Notice	HANSON CONSTRUCTION MATERIALS PTY LTD [NORTH GEELONG]	44-46 Edols Street	NORTH GEELONG	Previous Pollution Notice		06/04/2017	Premise Match	791m	South
90012175	Pollution Abatement Notice	HANSON CONSTRUCTION MATERIALS PTY LTD	[NORTH GEELONG] 44-46 EDOLS ST	NORTH GEELONG	Current Pollution Notice		11/03/2021	Premise Match	791m	South
90012112	Clean Up Notice	SIMS LIMITED [NORTH GEELONG]	266-272 THOMPSON RD NORTH GEELONG VIC 3215	NORTH GEELONG	Previous Pollution Notice		12/03/2021	Premise Match	903m	South

Notice No	Notice Type	Company	Address	Suburb	Status	Issue	Date Issued	Loc Conf	Dist	Dir
90012373	Pollution Abatement Notice	SIMS LIMITED	266-272 THOMPSON RD NORTH GEELONG VIC 3215	NORTH GEELONG	Previous Pollution Notice			Premise Match	903m	South
IMPN-00001271	Improvement Notice	BUILT PLANT HIRE PTY LTD	13 Holmes Street North Geelong 3215	North Geelong	Previous Pollution Notice		06/09/2021	Premise Match	924m	South
IMPN-00004328	Improvement Notice	PIRTEK (GEELONG NORTH) PTY LTD	1 Cadman Terrace, North Geelong, VIC, 3215, AUS	GEELONG	Current Pollution Notice		22/03/2023	Premise Match	927m	South
90011823	Previous Priority Notice		258 - 264 THOMPSON RD	NORTH GEELONG	Previous Priority Notice	Current Industrial Site. Requires assessment and/or clean up.		Premise Match	986m	South West
90011824	Pollution Abatement Notice	THE TRUSTEE FOR ALI GHAFARI	FAMILY TRUST 258 - 264 THOMPSON RD, NORTH GEELONG VIC 3215	NORTH GEELONG	Previous Pollution Notice		23/11/2020	Premise Match	986m	South West
IMPN-00003827	Improvement Notice	ATLAS AUTO PARTS PTY LTD	258-264 Thompson Rd	North Geelong	Previous Pollution Notice		12/01/2023	Premise Match	986m	South West

Pollution Notice Data Custodian: State Government Victoria - Environment Protection Authority (EPA)

PFAS Investigation & Management Programs

60-62 Morgan Street, Norlane, VIC 3214

EPA PFAS Site Investigations

Sites being investigated by the EPA for PFAS contamination within the dataset buffer:

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

EPA PFAS Site Investigations Data Custodian: State Government Victoria - Environment Protection Authority (EPA)

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

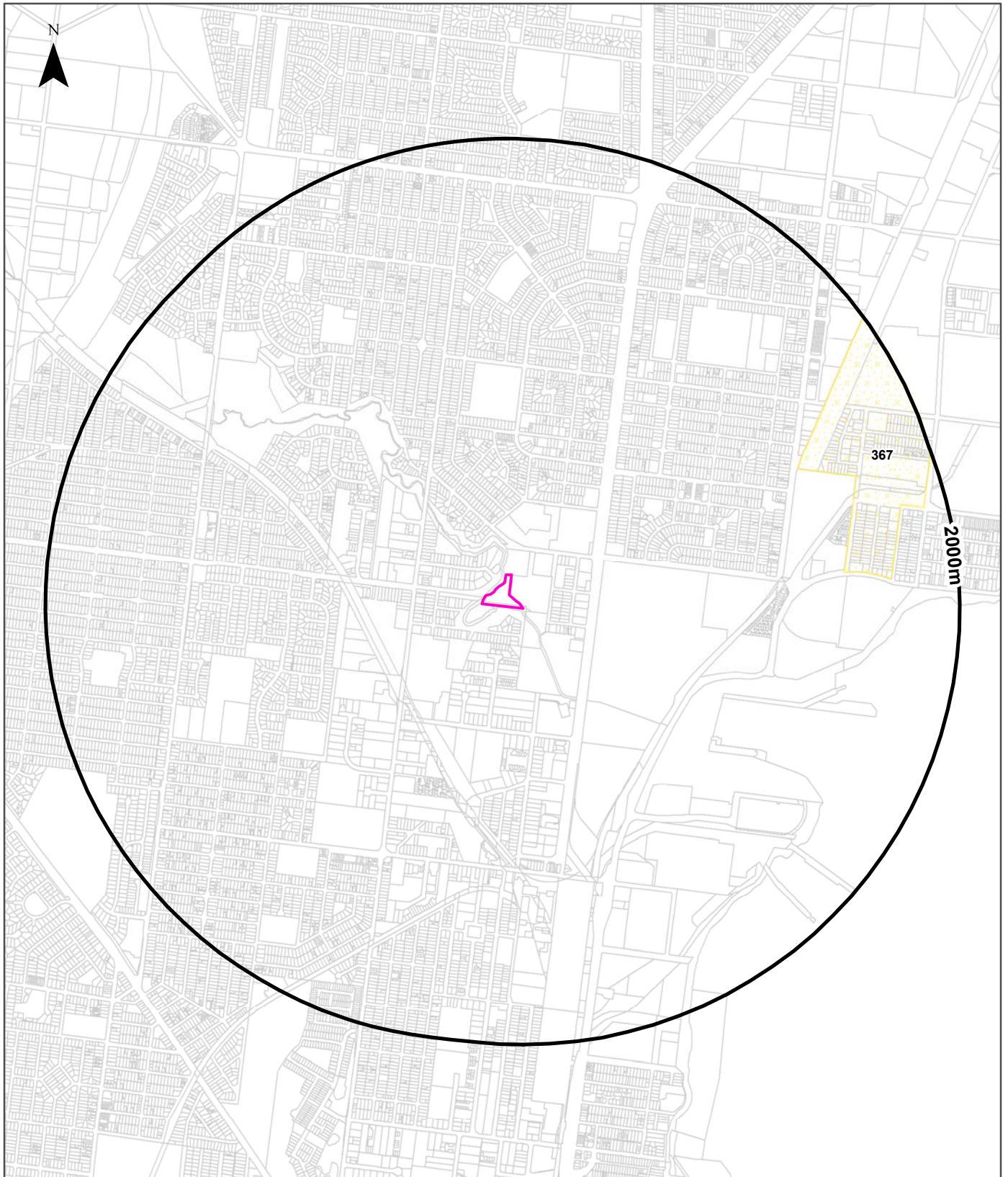
Sites being investigated or managed by Airservices Australia for PFAS contamination within the dataset buffer:

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

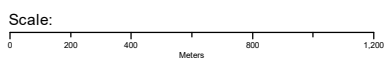
Defence Sites and Unexploded Ordnance

60-62 Morgan Street, Norlane, VIC 3214



Legend

- | | | | | |
|---------------------|--------------------------------|--|------------------------------|-------------|
| Site Boundary | DCA
Defence Controlled Area | Defence 3 Year RCIP
Known Contamination | UXO
Substantial Potential | Information |
| Buffer 2000m | No Known Contamination | Slight Potential | Remote Potential | Other |
| Property Boundaries | Sea Dumping of Depth Charges | Other Sea Dumping Sites | | |



Data Sources: Property Boundaries - State Government Victoria - Department of Environment, Land, Water & Planning

Coordinate System: GDA 1994 MGA Zone 55

Date: 28 November 2023

Defence Sites and Unexploded Ordnance

60-62 Morgan Street, Norlane, VIC 3214

Defence Controlled Areas (DCA)

Defence Controlled Areas provided by the Department of Defence within the dataset buffer:

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

Defence Controlled Areas, Data Custodian: Department of Defence, Australian Government

Defence 3 Year Regional Contamination Investigation Program (RCIP)

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

National Unexploded Ordnance (UXO)

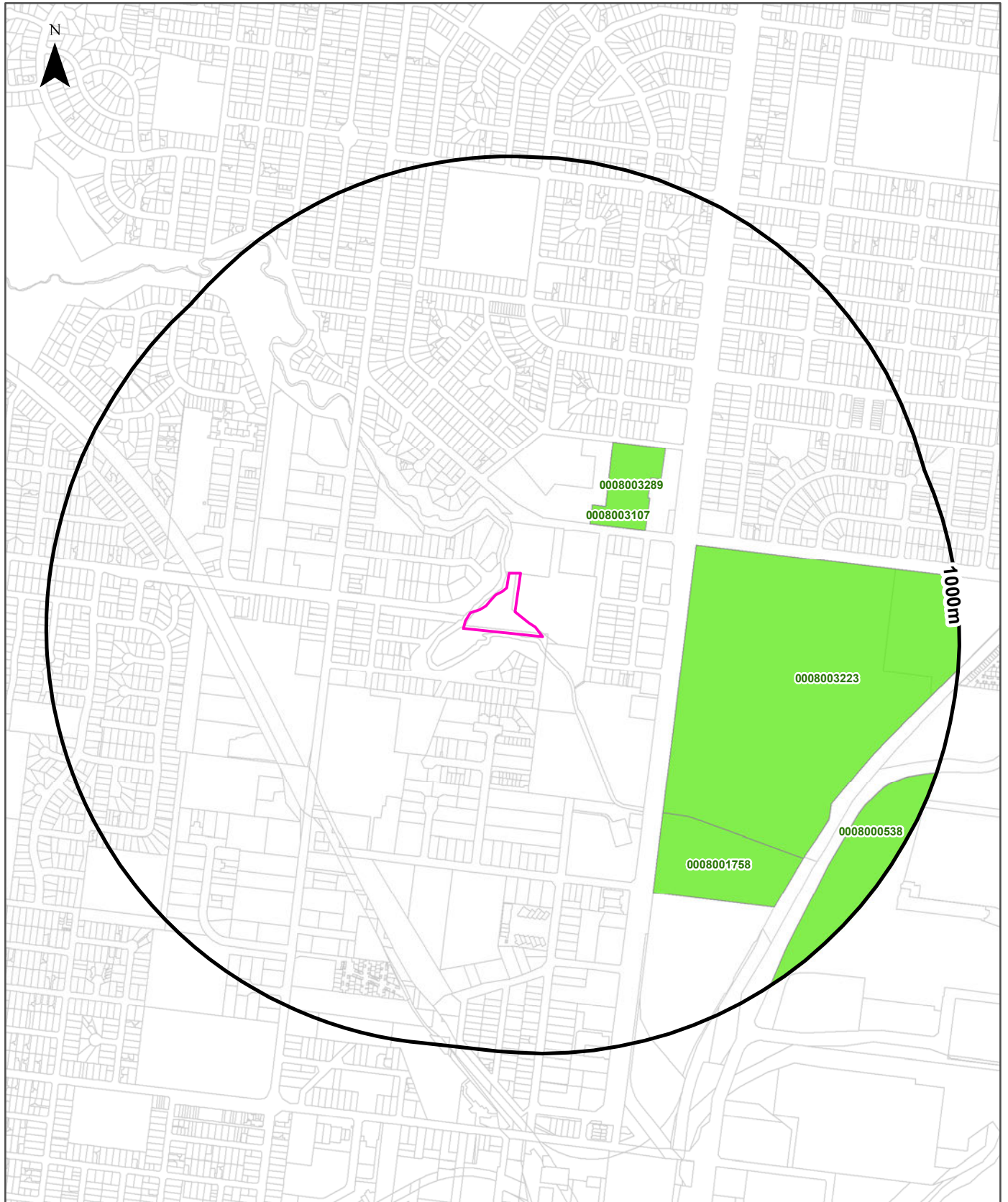
Sites which have been assessed by the Department of Defence for the potential presence of unexploded ordnance within the dataset buffer:

Site ID	Location Name	Category	Area Description	Additional Information	Commonwealth	Loc Conf	Dist	Dir
367	Geelong	Other	This site was used as a Landing Ground.		Not Commonwealth Land	As Supplied	1393m	East

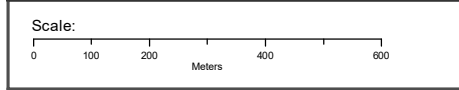
National Unexploded Ordnance (UXO), Data Custodian: Department of Defence, Australian Government

EPA Records - Preliminary Risk Screen Assessments, Audit Reports & GQRUZ

60-62 Morgan Street, Norlane, VIC 3214



Legend			
Site Boundary	Groundwater Zones with Restricted Uses (GQRUZ)	Preliminary Risk Screen Assessments	Environmental Audits
Buffer 1000m	Audit of Management of Sewerage Systems Area	Potential Forest Audit Program Area	
Property Boundaries			



Data Sources: Property Boundaries - State Government Victoria - Department of Environment, Land, Water & Planning

Coordinate System: GDA 1994 MGA Zone 55

Date: 28 November 2023

EPA Records

60-62 Morgan Street, Norlane, VIC 3214

EPA Preliminary Risk Screen Assessments

EPA Preliminary Risk Screen Assessment records that exist within the dataset buffer:

PRSA ID	Site Address	Completion Date	Attachment A	Attachment B	Attachment C	Loc Conf	Distance	Direction
N/A		No records in buffer						

Preliminary Risk Screen Assessments Audit Data Custodian: State Government Victoria - Environment Protection Authority (EPA)

EPA Environmental Audits

EPA environmental audit records that exist within the dataset buffer:

Note. Please click on CARMS No. to activate a hyperlink to online documentation. If link does not work, documentation may still be accessible via the EPA Interaction Portal.

Transaction No	CARMS No	Site	Address	Suburb	Date Complete	Audit Category	Loc Conf	Distance	Direction
0008003107	69059-1		FORD NORLANE (BUNNINGS REDEVELOPMENT) 5-19 PRINCES HWY	NORLANE	25/06/2012	53V	Premise Match	204m	North East
0008003289	70654-1		5-19 PRINCES HWY, NORLANE VIC 3214 5-19 PRINCES HWY	NORLANE	31/10/2012	53V	Premise Match	204m	North East
0008003223	70036-1		FORD MOTOR COMPANY OF AUSTRALIA 60-80 NORTH SHORE RD	NORLANE	14/08/2012	53V	Premise Match	338m	East
0008001758	53054-3		SOUTHLANDS 343-363 MELBOURNE RD	NORTH GEELONG	05/12/2013	53V	Premise Match	512m	South East
0008000538	30986-1	PORT OF GEELONG PORT OF GEELONG GEEELONG VIC 3220	North Shore Area, Lascelles Wharf, Corio Quay, Barrett Burston Land, Rippleside Area, Point Henry Land	GEELONG	31/01/1997	53X Statement	Premise Match	868m	South East

Environmental Audit Data Custodian: State Government Victoria - Environment Protection Authority (EPA)

EPA Records

60-62 Morgan Street, Norlane, VIC 3214

EPA Groundwater Zones with Restricted Uses (GQRUZ)

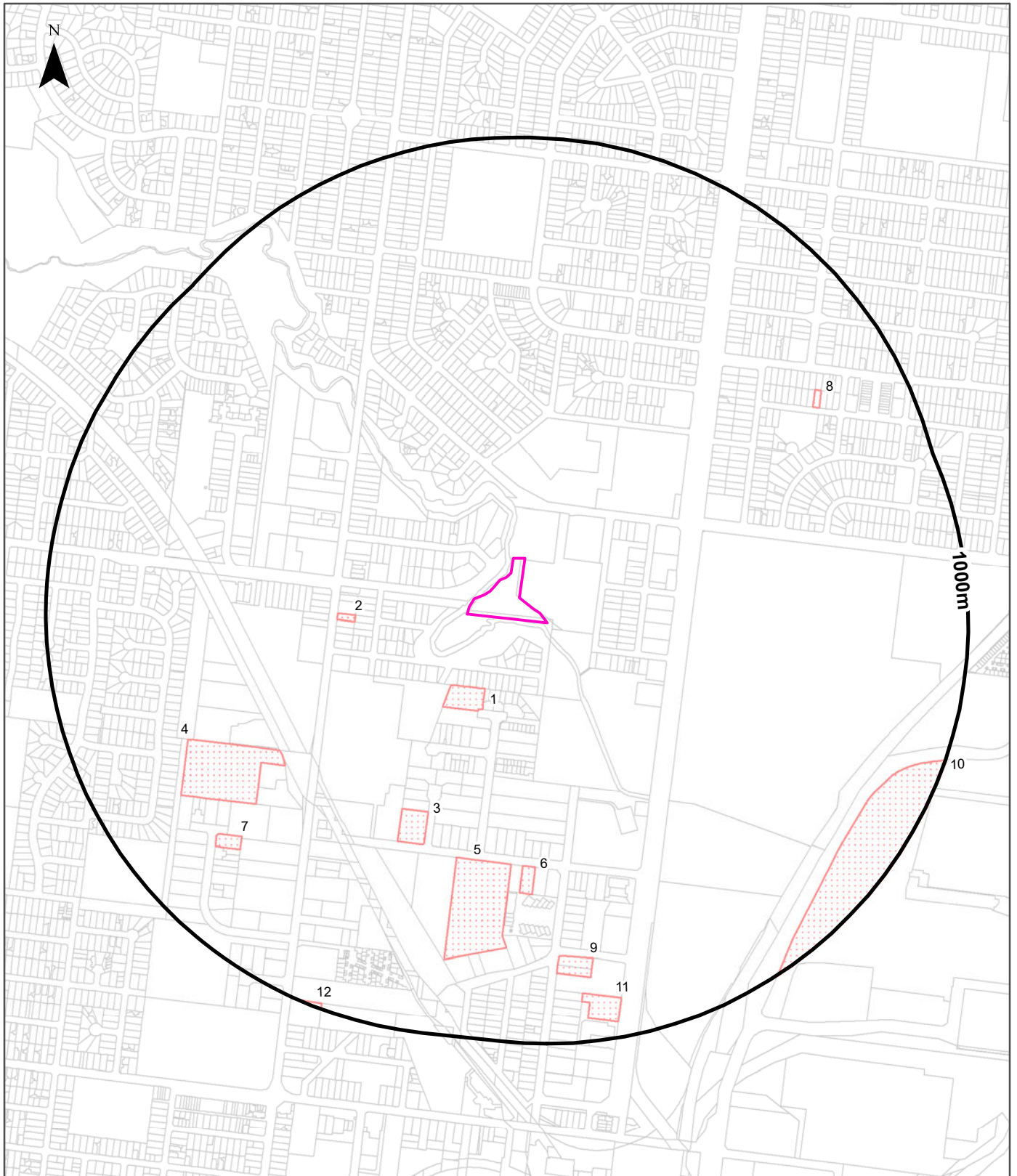
EPA Groundwater Zones with Restricted Uses (GQRUZ) records that exist within the dataset buffer:

Map ID	File No	Reference No	Site History	Site Address	Restricted Uses	Status	Loc Conf	Dist	Dir
N/A		No records in buffer							

Environmental GQRUZ Data Custodian: State Government Victoria - Environment Protection Authority (EPA)

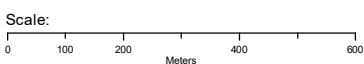
EPA Activities - Register of Permissions

60-62 Morgan Street, Norlane, VIC 3214



Legend

- Site Boundary
- Buffer 1000m
- Property Boundaries
- Register of Permissions Record



Data Sources: Property Boundaries - State Government Victoria - Department of Environment, Land, Water & Planning

Coordinate System: GDA 1994 MGA Zone 55

Date: 28 November 2023

EPA Activities

60-62 Morgan Street, Norlane, VIC 3214

EPA Activites - Register of Permissions

EPA Register of Permissions records that exist within the dataset buffer:

Note - Records with the following activities have been excluded:

- L05 (Operation of events outside of hours or extended operations)
- L06 (Conducting more than six outdoor concerts)

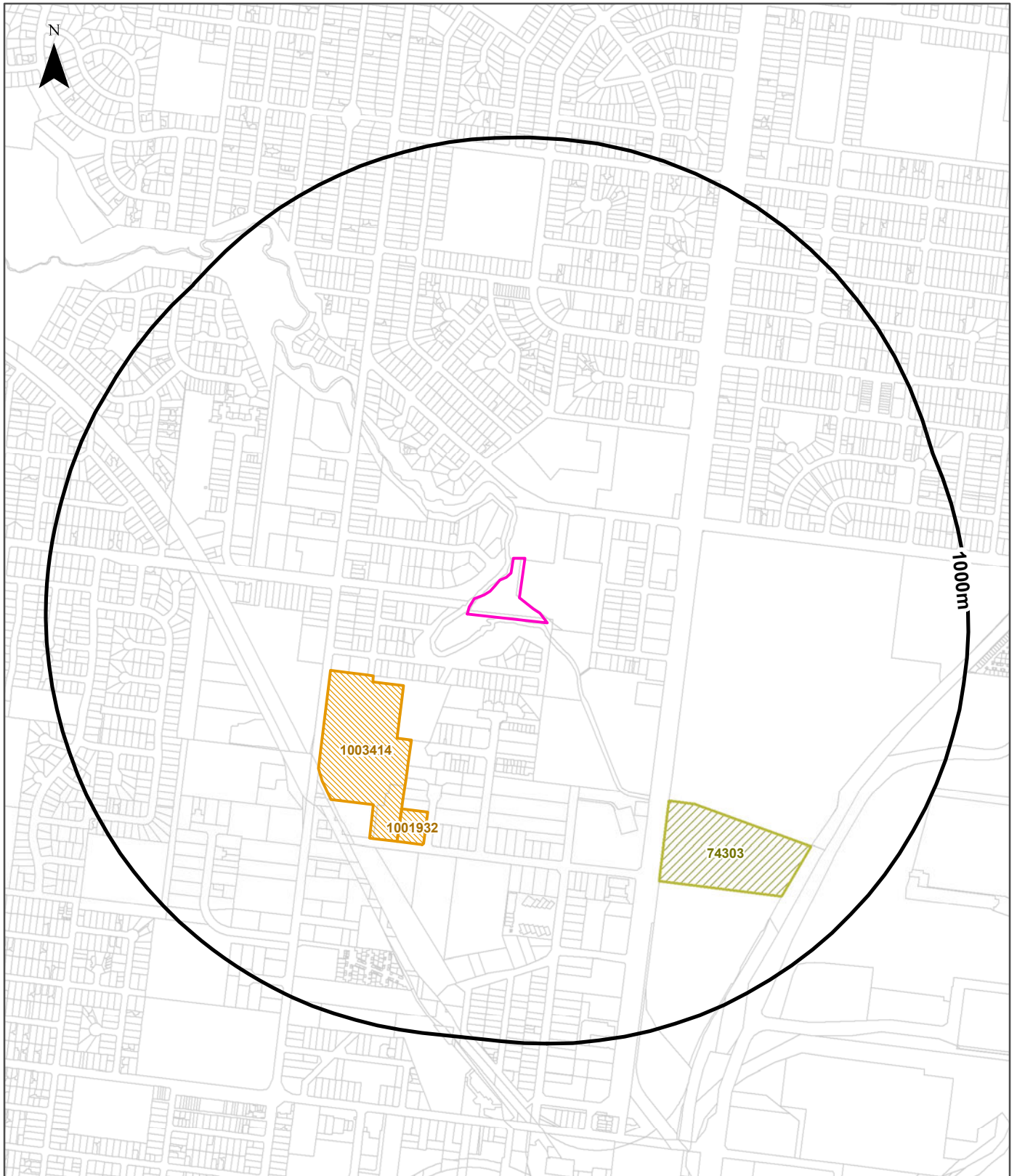
Map ID	Permission ID	Permission Type	Activity	Premise Address	Status	Issue Date	Expiry Date	Doc Link	Loc Conf	Dist (m)	Dir
1	R000300549	Registration	A10b (Reportable priority waste transport - other)	29 Saunders Street North Geelong 3215	Active	21/07/2021	20/07/2026	Link	Premise Match	172m	South West
	R000300624	Registration	A10b (Reportable priority waste transport - other)	29 Saunders Street North Geelong 3215	Active	30/07/2021	29/07/2026	Link	Premise Match	172m	South West
	R000300805	Registration	A10b (Reportable priority waste transport - other)	29 Saunders Street North Geelong 3215	Active	14/08/2021	13/08/2026	Link	Premise Match	172m	South West
	R000302189	Registration	A10b (Reportable priority waste transport - other)	25-29 Saunders Street North Geelong 3215	Active	09/12/2021	08/12/2026	Link	Premise Match	172m	South West
	R000302282	Registration	A10b (Reportable priority waste transport - other)	29 Saunders St, North Geelong, Geelong, Victoria, 3215	Active	17/12/2021	16/12/2026	Link	Premise Match	172m	South West
	R000304072	Registration	A10b (Reportable priority waste transport - other)	29 Saunders St, North Geelong, Geelong, Victoria, 3215	Active	19/07/2022	18/07/2027	Link	Premise Match	172m	South West
	R000304930	Registration	A10b (Reportable priority waste transport - other)	25-29 Saunders Street North Geelong 3215	Active	23/11/2022	22/11/2027	Link	Premise Match	172m	South West
2	R000300629	Registration	A02c (Other waste treatment - e-waste 500 tonnes or less)	370 Thompson Road North Geelong 3215	Active	31/07/2021	30/07/2026	Link	Premise Match	266m	West
3	PRM001290	Development Licence		62-66 Cowie St North Geelong VIC 3215 AU	Active				Premise Match	479m	South
	PRM001438	Development Licence	D07 (Milk processing)	68 Cowie St North Geelong VIC 3215 AU	Active				Premise Match	479m	South
4	R000305726	Registration	A13c (Waste and resource recovery - small)	116-122 Furner Avenue Bell Park 3215	Active	16/03/2023	15/03/2028	Link	Premise Match	550m	South West
	R000306578	Registration	A13c (Waste and resource recovery - small)	116-122 Furner Avenue Bell Park 3215	Active	28/06/2023	28/06/2028	Link	Premise Match	550m	South West
5	R000303268	Registration	A13c (Waste and resource recovery - small)	31 Cowie St, North Geelong, Geelong, Victoria, 3215	Active	08/04/2022	07/04/2027	Link	Premise Match	577m	South
	R000306602	Registration	A13c (Waste and resource recovery - small)	31 Cowie Street North Geelong 3215	Active	30/06/2023	29/06/2028	Link	Premise Match	577m	South
6	R000302001	Registration	A13c (Waste and resource recovery - small)	25 Cowie Street North Geelong 3215	Active	25/11/2021	24/11/2026	Link	Premise Match	580m	South
7	R000302379	Registration	A13c (Waste and resource recovery - small)	23 Hume Reserve Court Bell Park 3215	Active	22/12/2021	21/12/2026	Link	Premise Match	753m	South West
8	R000304122	Registration	A22 (Temporary storage - asbestos)	18 Tennyson Street Norlane 3214	Active	25/07/2022	25/07/2027	Link	Premise Match	771m	North East
9	R000301182	Registration	A13c (Waste and resource recovery - small)	44-46 Edols Street North Geelong 3215	Active	16/09/2021	15/09/2026	Link	Premise Match	791m	South

Map ID	Permission ID	Permission Type	Activity	Premise Address	Status	Issue Date	Expiry Date	Doc Link	Loc Conf	Dist (m)	Dir
10	R000302716	Registration	A10b (Reportable priority waste transport - other)	Geelong Port	Active	22/01/2022	21/01/2027	Link	Premise Match	868m	South East
11	R000301486	Registration	A23 (Temporary storage - designated waste)	324 Melbourne Rd, North Geelong, Geelong, Victoria, 3215	Active	09/10/2021	08/10/2026	Link	Premise Match	884m	South
12	R000302776	Registration	A13c (Waste and resource recovery - small)	258-264 Thompson Road North Geelong 3215	Active	02/02/2022	01/02/2027	Link	Premise Match	986m	South West

EPA Register of Permissions Custodian: State Government Victoria - Environment Protection Authority (EPA)
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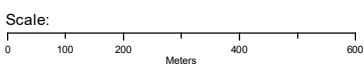
EPA Records - Legacy Licensed Activities & Works Approvals

60-62 Morgan Street, Norlane, VIC 3214



Legend

- Site Boundary
- Buffer 1000m
- Property Boundaries
- Legacy Licensed Activities
- Legacy Works Approvals



Data Sources: Property Boundaries - State Government Victoria - Department of Environment, Land, Water & Planning

Coordinate System: GDA 1994 MGA Zone 55

Date: 28 November 2023

EPA Activities

60-62 Morgan Street, Norlane, VIC 3214

Legacy EPA Licensed Activities

Activities licensed under the repealed *Environment Protection Act 1970 (Vic.)* within the dataset buffer:

Trans No	Licence No	Licence Type	Organisation	Premise Ref	Premise Address 1	Premise Address 2	Activities	Loc Conf	Dist (m)	Direction
	74303		FORD MOTOR COMPANY OF AUSTRALIA LIMITED	69340	343-363 MELBOURNE RD	NORTH GEELONG VIC 3215	106 Vehicle Assembly Works	Premise Match	512m	South East

Legacy Activity Data Custodian: State Government Victoria - Environment Protection Authority (EPA)

Legacy EPA Works Approvals

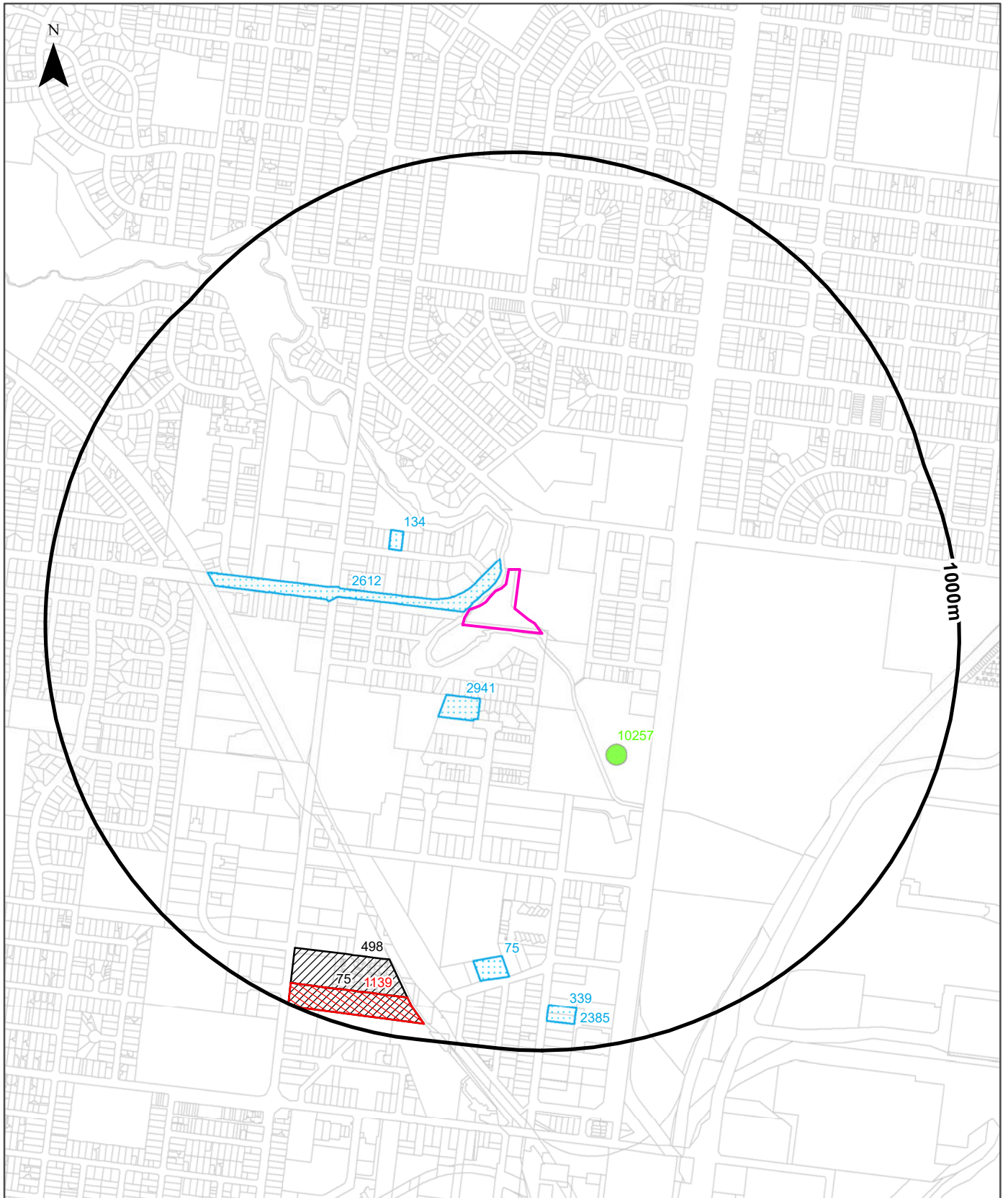
Works approvals licensed under the repealed *Environment Protection Act 1970 (Vic.)* within the dataset buffer:

Transaction No	Status	Approval No	Organisation	Premise Address	Suburb	Scheduled Categories	Loc Conf	Dist (m)	Direction
1003414	Approved/ Issued		CORIO BAY DAIRY GROUP [NORTH GEELONG]	320-356 Thompson Road, North Geelong 3215	NORTH GEELONG	Development of milk powder processing facility	Premise Match	227m	South West
1001932	Approved/ Issued		ORGANIC DAIRY FARMERS OF AUSTRALIA LTD [NORTH GEELONG]	62-66 Cowie Street	NORTH GEELONG	Exempt Under Section 19A(4) of the Environment Protection Act 1970 ;Convert an existing warehouse into a dairy processing plant.	Premise Match	479m	South

Legacy Works Approvals Data Custodian: State Government Victoria - Environment Protection Authority (EPA)

Waste Management Facilities and Landfills

60-62 Morgan Street, Norlane, VIC 3214



Site Boundary	National Waste Management Site
Report Buffer	Statewide Waste and Resource Recovery Infrastructure Plan Facility
Property Boundary	Legacy EPA Prescribed Industrial Waste Site
	EPA Victorian Landfill Register
	Area identified as Former Waste Disposal Site

<p>Scale:</p>	<p>Data Sources: Property Boundaries - State Government Victoria - Department of Environment, Land, Water & Planning</p>	<p>Coordinate System: GDA 1994 MGA Zone 55</p>	<p>Date: 28 November 2023</p>
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Waste Management Facilities & Landfills

60-62 Morgan Street, Norlane, VIC 3214

National Waste Management Site Database

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

Site Id	Owner	Name	Address	Suburb	Class	Landfill	Reprocess	Transfer	Comments	Loc Conf	Dist (m)	Direction
1139	Greater Geelong City Council	Sims Metal	3 Victor Street	North Geelong	Reprocessing		Operational			Premise Match	903m	South

Waste Management Facilities Data Source: Australian Government Geoscience Australia
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Statewide Waste and Resource Recovery Infrastructure Plan Facilities

Statewide Waste and Resource Recovery Infrastructure Plan Facilities within the dataset buffer:

Map Id	Owner	Site Name	Address	Suburb	Category	Sub Category	Loc Conf	Distance	Direction
498	Visy	Visy Geelong	266 Thompsons Rd	Geelong	Municipal Waste	Materials Recovery Facility	Premise Match	821m	South West
75	Simsmetal	Simsmetal	266 Thompson Rd	Geelong	Commercial & Industrial	C&I Recovery	Premise Match	903m	South

SWRRIPF Data Source: State Government Victoria - Department of Sustainability

Legacy EPA Prescribed Industrial Waste

EPA Prescribed Industrial Waste treaters, disposers and permitted transporters under the repealed *Environment Protection Act 1970 (Vic.)* within the dataset buffer:

Map Id	Company Name	Address	Suburb	Treatment /Disposal	Transport	Accredited Agent	EPA List Status	Loc Conf	Dist (m)	Dir
2612	SCOPE INVESTMENTS (VIC) PTY [NORTH GEELONG]	3 MORGAN ST	NORTH GEELONG VIC 3215	No	Yes	No	Current EPA List	Road Match	4m	West
2941	QEST INDUSTRIAL PTY LTD	29 SAUNDERS ST	NORTH GEELONG VIC 3215	No	Yes	No	Current EPA List	Premise Match	172m	South West
134	COMBINED WASTE SERVICES PTY LTD [GEELONG NORTH]	9-11 RODNEY RD	GEELONG NORTH VIC 3215	No	Yes	Yes	Previous EPA List	Premise Match	218m	North West
75	BARWON SEAFOODS PTY LTD	18-20 DONGA RD	NORTH GEELONG VIC 3215	No	Yes	No	Previous EPA List	Premise Match	778m	South
339	KATAMARAN AUST PTY LTD	34-36 EDOLS ST	NORTH GEELONG VIC 3215	No	Yes	No	Current EPA List	Premise Match	891m	South
2385	KATAMARAN AUSTRALIA P/L	34-36 EDOLS ST	NORTH GEELONG VIC 3215	No	Yes	No	Previous EPA List	Premise Match	891m	South

Legacy Prescribed Industrial Waste Data Source: State Government Victoria - Environment Protection Authority (EPA)

Waste Management Facilities & Landfills

60-62 Morgan Street, Norlane, VIC 3214

EPA Victorian Landfill Register

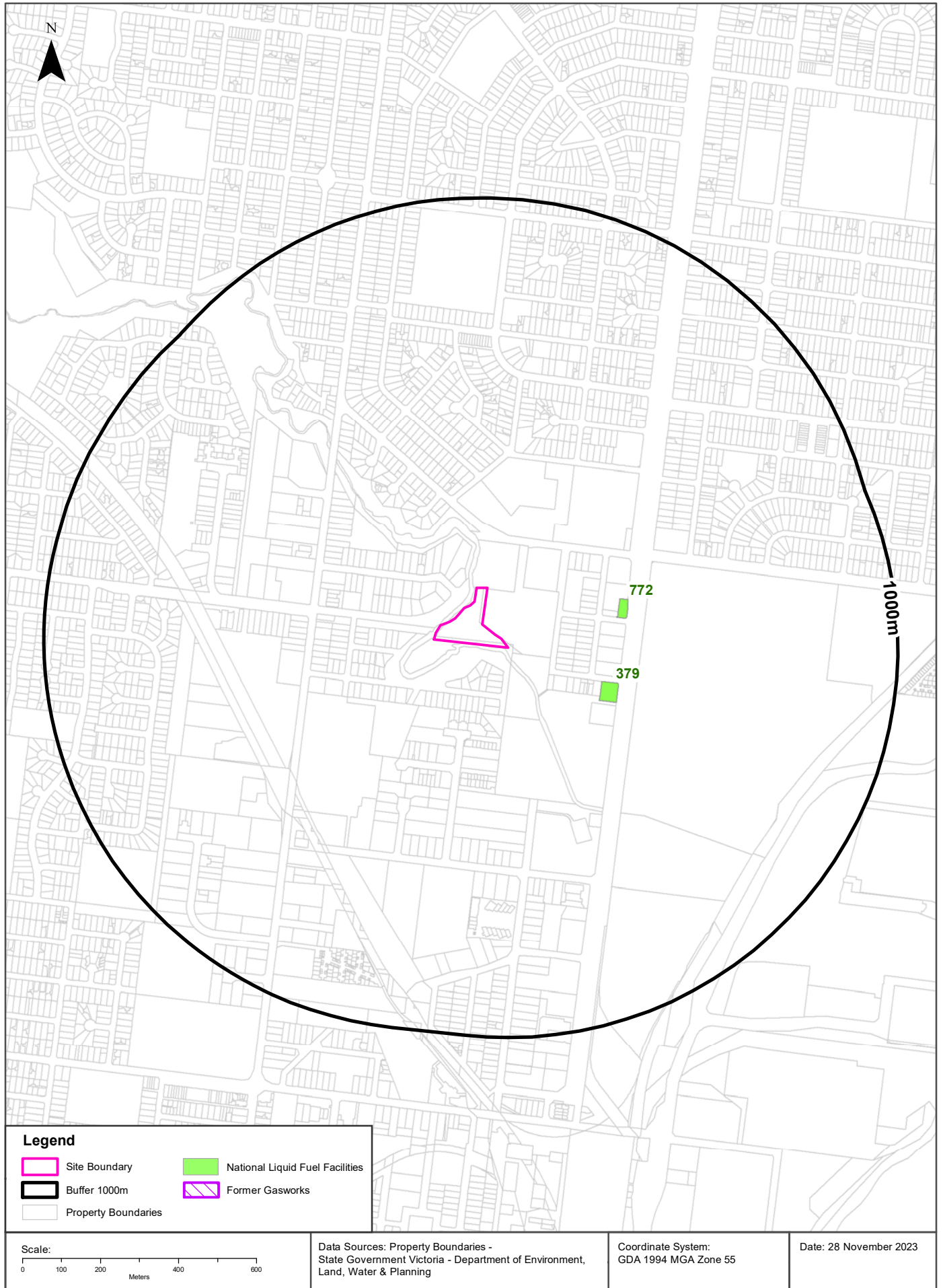
EPA Victorian Landfill Register sites within the dataset buffer:

Landfill Register No.	Site	Address	Operating Status	Est. Year Of Closure	Waste type	Loc Conf	Dist (m)	Direction
10257	North Geelong	Off Birdwood Avenue, Geelong, VIC 3220	Closed	Not available	Putrescible waste	As Supplied	316m	South East

EPA Victorian Landfill Register Data Source: State Government Victoria - Environment Protection Authority (EPA)

Former Gasworks & Liquid Fuel Facilities

60-62 Morgan Street, Norlane, VIC 3214



Former Gasworks and Liquid Fuel Facilities

60-62 Morgan Street, Norlane, VIC 3214

Former Gasworks

Former Gasworks identified from various historical sources within the dataset buffer:

Note - As this is a dataset collated from various historical sources, it is not an exhaustive list of all former Gasworks

Map Id	Site Name	Date Opened	Year Closed	Location Confidence	Distance	Direction
N/A	No records in buffer					

Former Gasworks Data Source: Collated from various historical sources

National Liquid Fuel Facilities

National Liquid Fuel Facilities within the dataset buffer:

Map Id	Owner	Name	Address	Suburb	Class	Operational Status	Operator	Revision Date	Loc Conf	Dist (m)	Direction
379	BP	BP Connect Corford	402-412 Melbourne Road	Norlane	Petrol Station	Operational		25/07/2011	Premise Match	254m	South East
772	Shell	Coles Express Norlane	458-468 Melbourne Road	Norlane	Petrol Station	Operational		25/07/2011	Premise Match	287m	East

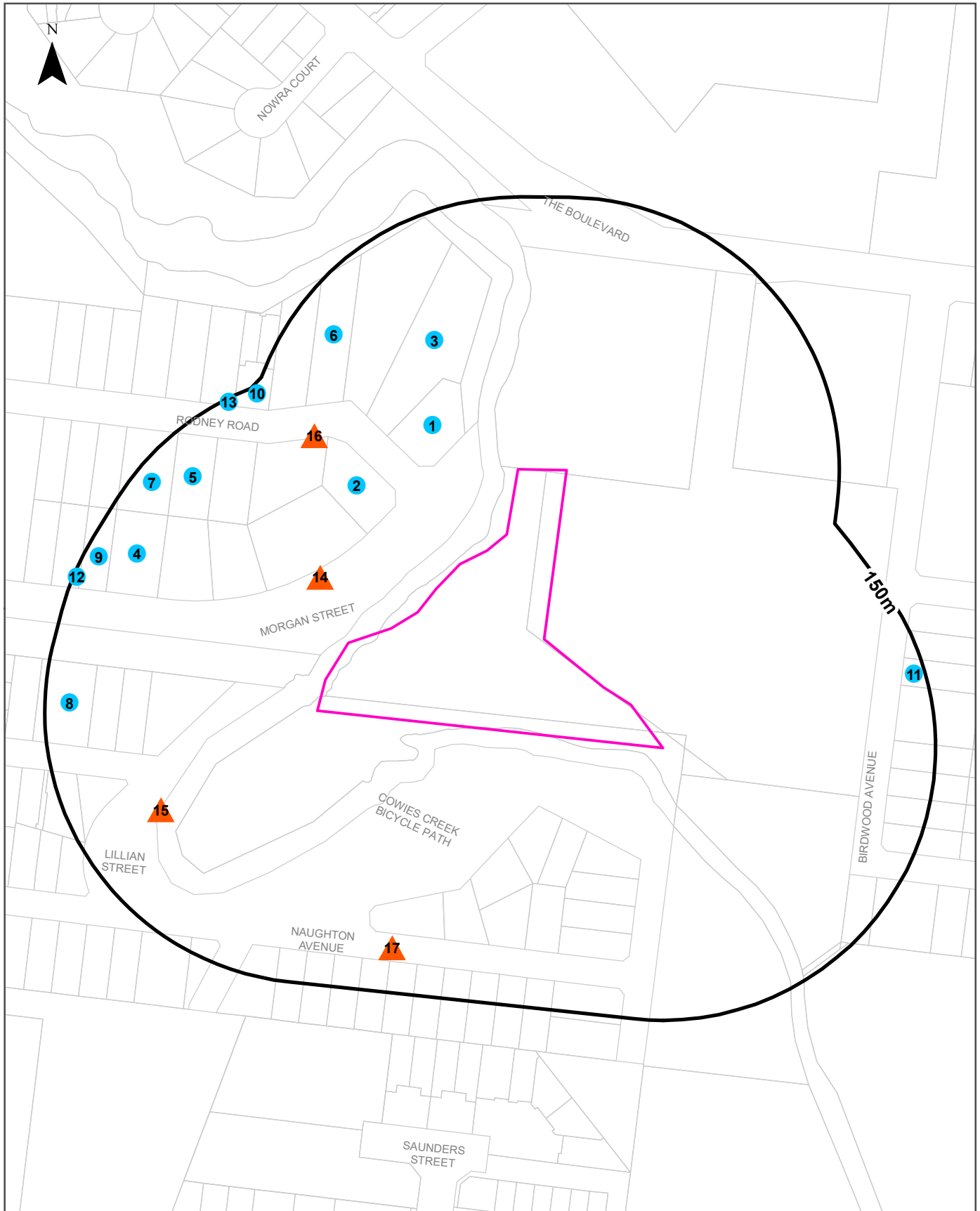
National Liquid Fuel Facilities Data Source: Geoscience Australia

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Historical Business Directories

60-62 Morgan Street, Norlane, VIC 3214



Legend [Pink line] Site Boundary [Black line] Buffer 150m [Grey line] Property Boundary [Blue circle] Business directory records mapped to a specific premise [Green square] Business directory records mapped to a road intersection [Orange triangle] Business directory records mapped to a road corridor [Hatched box] Business directory records mapped to a general area		Scale: 0 40 80 120 160 Meters	Coordinate System: GDA 1994 MGA Zone 55 Date: 28 November 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 © State Government Victoria - Dept. of Environment, Land, Water & Planning 2023			

Historical Business Directories

60-62 Morgan Street, Norlane, VIC 3214

Business Directory Records 1905-1991 Premise or Road Intersection Matches

Universal Business Directory and Sands & McDougall Directory records, from years 1991, 1980, 1970, 1960, 1950, 1945, 1925 & 1905, 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 Car Dealers - New &/Or Used	Beck Motors., 35 Rodney Rd. North Geelong. 3215	63097	1991	Premise Match	35m	North
2	Hose &/Or Hose Fittings Mfrs. &/Or Dists. &/Or W/Salers	Enzed The Hose Doctor Geelong., 32 Rodney Rd. North Geelong. 3215	62105	1991	Premise Match	48m	North West
	Hydraulic Hose Mfrs. &/Or Dists.	Enzed The Hose Doctor Geelong., 32 Rodney Rd. North Geelong. 3215	62197	1991	Premise Match	48m	North West
3	Motor Brake Specialists	Dawson. Rob Motors., 3/33 Rodney Rd. North Geelong. 3215	63069	1991	Premise Match	57m	North
	Motor Engine Reconditioners	Dawson. Rob Motors., 3/33 Rodney Rd. North Geelong. 3215	63263	1991	Premise Match	57m	North
	Motor Engineers	Dawson. Rob Motors., 3/33 Rodney Rd. North Geelong. 3215	63304	1991	Premise Match	57m	North
	Motor Engineers	Ed's Truck & Car Service & Repair Centre Pty. Ltd., 5/33 Rodney Rd. North Geelong. 3215	63306	1991	Premise Match	57m	North
	Truck &/Or Bus Repairs	Ed's Truck & Car Service & Repair Centre Pty. Ltd., 5/33 Rodney Rd. North Geelong. 3215	65995	1991	Premise Match	57m	North
	Awnings Mfrs. &/Or Dists.	F & I Blinds. Unit., 1/33 Rodney Rd. North Geelong. 3215	58654	1991	Premise Match	57m	North
	Blind Mfrs. &/Or Specialists	F & I Blinds., Unit 1/33 Rodney Rd. North Geelong. 3215	58898	1991	Premise Match	57m	North
	Burglar Alarm &/Or Protection Systems Mfrs. &/Or Dists. &/Or Installers.	Geelong Car Care., 3/33 Rodney Rd. North Geelong. 3215	59227	1991	Premise Match	57m	North
	Motor Accessories - Retail	Geelong Car Care., 3/33 Rodney Rd. North Geelong. 3215	63021	1991	Premise Match	57m	North
	Motor Accessories Mfrs &/Or Imps &/Or W/salers	Geelong Car Care., 3/33 Rodney Rd. North Geelong. 3215	62997	1991	Premise Match	57m	North
	Telephone Equipment &/Or Supplies Mfrs. &/Or Dists.	Geelong Car Care., 3/33 Rodney Rd. North Geelong. 3215	65736	1991	Premise Match	57m	North
	Signs - Neon &/Or Illuminated	Martin. Shane Signs., Unit 2/33 Rodney Rd. North Geelong. 3215	65160	1991	Premise Match	57m	North
	Signs - Plastic	Martin. Shane Signs., Unit 2/33 Rodney Rd. North Geelong. 3215	65168	1991	Premise Match	57m	North
Signwriters	Martin. Shane Signs., Unit 2/33 Rodney Rd. North Geelong. 3215	65178	1991	Premise Match	57m	North	
4	Insulating Material Mfrs. &/Or Dists. &/Or Suppliers.	Bradford Insulation., 53 Morgan St. North Geelong. 3215	62243	1991	Premise Match	103m	West
	Hardware - Retail	Mccann's Plumbing & Hardware., 55 Morgan St. North Geelong. 3215	61940	1991	Premise Match	103m	West
	Plumbers Supplies.	Mccann's Plumbing & Hardware., 55 Morgan St. North Geelong.3215	64379	1991	Premise Match	103m	West
5	Buildings - Pre-Fabricated, Portable &/Or Modular Mfrs. &/Or Dists. &/Or Erectors.	Kardinia Steel Pty. Ltd., 24 Rodney Rd. North Geelong. 3215	59221	1991	Premise Match	103m	North West
	Carport &/Or Awning Mfrs &/Or Erectors	Kardinia Steel Pty. Ltd., 24 Rodney Rd. North Geelong. 3215	59539	1991	Premise Match	103m	North West
	Garage Door Mfrs. &/Or Dists. &/Or Installers	Kardinia Steel Pty. Ltd., 24 Rodney Rd. North Geelong. 3215	61436	1991	Premise Match	103m	North West
	Garage Mfrs. &/Or Dists. &/Or Installers.	Kardinia Steel Pty. Ltd., 24 Rodney Rd. North Geelong. 3215	61441	1991	Premise Match	103m	North West

Map Id	Business Activity	Premise	Ref No.	Year	Location Confidence	Distance to Property Boundary or Road Intersection	Direction
5	Garden Shed Mfrs. &/Or Dists.	Kardinia Steel Pty. Ltd., 24 Rodney Rd. North Geelong. 3215	61444	1991	Premise Match	103m	North West
	Steel Fabricators	Kardinia Steel Pty. Ltd., 24 Rodney Rd. North Geelong. 3215	65372	1991	Premise Match	103m	North West
	Steel Structural	Kardinia Steel Pty. Ltd., 24 Rodney Rd. North Geelong. 3215	65394	1991	Premise Match	103m	North West
6	Outboard Motor Sales &/Or Service	Osborne Marine., 29 Rodney Rd. North Geelong. 3215	64000	1991	Premise Match	103m	North West
7	Motor Gas (L.P.G.) Conversions.	Auto Gas Engineering., 22 Rodney Rd. North Geelong. 3215	63552	1991	Premise Match	122m	North West
	Motor Gas (L.P.G.) Conversions.	Autogas Engineering Pty. Ltd., 22 Rodney Road. North Geelong. 3215	63550	1991	Premise Match	122m	North West
8	Clothing Mfrs. &/Or W/salers. - Industrial &/Or Protective	Ascot Clothing Pty. Ltd., 3 Lillian St. North Geelong. 3215	59797	1991	Premise Match	123m	West
	Clothing Mfrs. &/Or W/salers. - Mens &/Or Boys Wear.	Ascot Clothing Pty. Ltd., 3 Lillian St. North Geelong. 3215	59824	1991	Premise Match	123m	West
	Equestrian Supplies	Ascot Clothing Pty. Ltd., 3 Lillian St. North Geelong. 3215	60876	1991	Premise Match	123m	West
9	Motor Carburettor Specialists	Geelong Exchange Carburettors., 51 Morgan St. North Geelong. 3215	63197	1991	Premise Match	130m	West
	Motor Garages & Service Stations.	Geelong Exchange Carburettors., 51 Morgan St. North Geelong. 3215	63455	1991	Premise Match	130m	West
	Motor Gas (L.P.G.) Conversions.	Geelong Exchange Carburettors., 51 Morgan St. North Geelong. 3215	63555	1991	Premise Match	130m	West
	Motor Tuning Specialists.	Geelong Exchange Carburettors., 51 Morgan St. North Geelong. 3215	63759	1991	Premise Match	130m	West
10	Battery Mfrs. &/Or Dists.	Century Batteries., 1/25 Rodney St. North Geelong. 3215	58811	1991	Premise Match	135m	North West
	Battery Mfrs. &/Or Dists.	Century Batteries., 25 Rodney Rd. North Geelong. 3215	58812	1991	Premise Match	135m	North West
	Paint &/Or Accessories - Retail	Wattyl Paints., 2/25 Rodney Rd. North Geelong. 3215	64039	1991	Premise Match	135m	North West
11	Motor Body Builders	Pbw Engineering Pty. Ltd., 14 Birdwood Ave. Norlane. 3214	63052	1991	Premise Match	135m	East
12	Motor Panel Beaters &/Or Spray Painters	Fine Finish Panels., 49 Morgan St. North Geelong. 3215	63613	1991	Premise Match	145m	West
13	Clothing Mfrs. &/Or W/salers. - Jeans	Kilmarnock Clothing Co., 23 Rodney Rd. North Geelong. 3215	59806	1991	Premise Match	145m	North West

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Business Directory Records 1905-1991 Road or Area Matches

Universal Business Directory and Sands & McDougall Directory records, from years 1991, 1980, 1970, 1960, 1950, 1945, 1925 & 1905, 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
14	Boilermakers.	Geelong Installations (Vic.) Pty. Ltd., Morgan St., North Geelong., 3215	57511	1980	Road Match	0m
	Roofing Contractors &/Or Repairers.	Geelong Installations (Vic.) Pty. Ltd., Morgan St., North Geelong. 3215.	60958	1980	Road Match	0m
	Sheet Metal Workers.	Geelong Installations (Vic.) Pty. Ltd., Morgan St., North Geelong. 3215.	61103	1980	Road Match	0m
	Engineers - Structural	Geelong Installations (Vic.) Pty. Ltd., Morgan St., North Geelong.3215	58729	1980	Road Match	0m
	Scrap Metal Merchant	Mclaren, P., Morgan St, North Geelong. 3215.	61063	1980	Road Match	0m
15	Carriers &/Or Cartage Contractors	A.R. & A.T. Cartage Contractors., Lot 7. Lillian St. North Geelong. 3215	59542	1991	Road Match	21m
16	Sheet Metal Workers.	Geelong Installations Pty. Ltd., Rodney Rd., North Geelong. 3215.	61104	1980	Road Match	46m
17	Motor Panel Beaters &/Or Spray Painters	Academy Auto Panel Beating & Spray Painting., 29 Naughton Ave. North Geelong. 3215	63587	1991	Road Match	116m
	Motor Car Hire Services	Aus-Vic U Drive., 29 Naughton Ave. North Geelong. 3215	63166	1991	Road Match	116m
	Motor Towing Services.	Corio Towing Service., 29 Naughton Ave. North Geelong. 3215	63715	1991	Road Match	116m

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Dry Cleaners, Motor Garages & Service Stations

60-62 Morgan Street, Norlane, VIC 3214



Legend [Pink outline] Site Boundary [Black circle] Buffer 500m [Grey outline] Property Boundary [Blue circle] Business directory records mapped to a specific premise [Green square] Business directory records mapped to a road intersection [Orange triangle] Business directory records mapped to a road corridor [Green hatched] Business directory records mapped to a general area	Scale: 0 90 180 270 360 Meters	Coordinate System: GDA 1994 MGA Zone 55
	Date: 28 November 2023	
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Historical Business Directories

60-62 Morgan Street, Norlane, VIC 3214

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

Dry Cleaners, Motor Garages & Service Stations from Sands & McDougall's Directories and UBD Business Directories, 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.	Geelong Exchange Carburettors., 51 Morgan St. North Geelong. 3215	63455	1991	Premise Match	130m	West
2	Motor Garages & Service Stations.	Mills. L. Motors., 22 Naughton Ave. North Geelong. 3215	63485	1991	Premise Match	155m	South West
3	Motor Garages & Service Stations.	Facer. Les Motors., 47 Morgan St. North Geelong. 3215	63448	1991	Premise Match	160m	West
4	Motor Garages & Service Stations.	A.M.T. Automotive., 2 Lillian St. North Geelong. 3215	63410	1991	Premise Match	195m	West
5	Motor Garages & Service Stations.	Petts Service Stations Pty. Ltd., 350 Thompson Rd. North Geelong. 3215	63507	1991	Premise Match	227m	South West
	Motor Garages &/Or Engineers &/Or Service Stations.	Petts Service Station., 350 Thompson Rd., North Geelong.3215.	60112	1980	Premise Match	227m	South West
6	Motor Garages & Service Stations.	Bp Corford Service Station., 412 Melbourne Rd. Norlane. 3214	63422	1991	Premise Match	254m	South East
7	Motor Garages & Service Stations.	Power Plus Motors., 368 Thompson Rd. North Geelong. 3215	63509	1991	Premise Match	269m	West
8	Motor Garages & Service Stations.	Shell Norlane Service Station., 468 Melbourne Rd. Norlane. 3214	63520	1991	Premise Match	287m	East
9	Motor Garages & Service Stations.	North Geelong Tyre & Automotive Service., 396 Thompson Rd. North Geelong. 3215	63502	1991	Premise Match	305m	North West
10	Motor Garages & Service Stations.	Apco Service Stations., 343 Thompson Rd. North Geelong. 3215	63415	1991	Premise Match	334m	West
11	Motor Garages & Service Stations.	Stokes Motors., 414 Thompson Rd. North Geelong. 3215	63529	1991	Premise Match	376m	North West
	Motor Garages &/Or Engineers &/Or Service Stations.	Tony's V.W. Service & Repairs., 414 Thompsons Road., North Geelong. 3215	59990	1980	Premise Match	376m	North West

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

Dry Cleaners, Motor Garages & Service Stations from UBD Business Directories and Sands & McDougall's Directories, mapped to a road or an area within the dataset buffer. Records are mapped to the road when a building number is not supplied, cannot be found, or the road has been renumbered since the directory was published.

Map Id	Business Activity	Premise	Ref No.	Year	Location Confidence	Distance to Road Corridor or Area
12	Motor Garages &/Or Engineers &/Or Service Stations.	Bellears D. Esso Servicenter., Melbourne Rd., Norlane. 3214.	60009	1980	Road Match	291m
	Motor Garages &/Or Engineers &/Or Service Stations.	Bp Coriord Service Station., Melbourne Rd., Norlane. 3214.	60012	1980	Road Match	291m
	Motor Garages &/Or Engineers &/Or Service Stations.	Norlane Service Station., Melbourne Rd., Norlane. 3214.	60104	1980	Road Match	291m
	MOTOR SERVICE STATIONS	Norlane Service Station., Melbourne Rd Norlane Geelong	3364	1970	Road Match	291m
13	Motor Garages &/Or Engineers &/Or Service Stations.	Pett A. W., Thompson Rd., North Geelong.3215.	60111	1980	Road Match	306m
	MOTOR SERVICE STATIONS	Pett's Service Station., Thompson Rd Geelong	3370	1970	Road Match	306m
	MOTOR SERVICE STATIONS	Saffron's Auto Service., Thompson St North Geelong	3381	1970	Road Match	306m
	MOTOR SERVICE STATIONS PETROL, ETC.	Saffron's Auto Service, Thompson St. North , Geelong.	140970	1960	Road Match	306m
14	Motor Garages &/Or Engineers &/Or Service Stations.	Benders Diesel Service., Edol St., North Geelong., 3215.	60010	1980	Road Match	390m
	MOTOR GARAGES & ENGINEERS	Bender's Diesel Service., Edol St North Geelong	3099	1970	Road Match	390m
15	Motor Garages & Service Stations.	XI Petroleum., 336 Melbourne Rd. North Geelong. 3215	63546	1991	Road Match	478m
	Motor Garages &/Or Engineers &/Or Service Stations.	Speedwings Service Station., Melbourne Rd., North Geelong. 3215	60137	1980	Road Match	478m
	MOTOR SERVICE STATIONS	Corford Service Station., Melbourne Rd North Geelong	3311	1970	Road Match	478m
	MOTOR SERVICE STATIONS	Dickens Motors., Melbourne Rd North Geelong	3314	1970	Road Match	478m
	MOTOR SERVICE STATIONS	Goodway Service Station.,178 Melbourne Rd North Geelong	3334	1970	Road Match	478m
	MOTOR SERVICE STATIONS	Price. L. A., Melbourne Rd North Geelong	3375	1970	Road Match	478m
	MOTOR SERVICE STATIONS	Speedwings Service Station., Melbourne Rd North Geelong	3386	1970	Road Match	478m
	MOTOR SERVICE STATIONS PETROL, ETC.	Ampol (Alba) Petroleum Pty. Ltd E.J.D. Motors, West Melbourne Rd., Geelong.	140892	1960	Road Match	478m
	MOTOR SERVICE STATIONS PETROL, ETC.	Capron's Service Station. West Melbourne Rd. West, Geelong.	140909	1960	Road Match	478m
	MOTOR SERVICE STATIONS PETROL, ETC.	Corford Service Station, Melbourne Rd., North , Geelong.	140914	1960	Road Match	478m
	MOTOR SERVICE STATIONS PETROL, ETC.	Dickens Motors, Melbourne Rd. North, Geelong.	140918	1960	Road Match	478m
	MOTOR SERVICE STATIONS PETROL, ETC.	Hargreave's Service Station, Melbourne Rd. North, Geelong.	140935	1960	Road Match	478m
	MOTOR SERVICE STATIONS PETROL, ETC.	Norlane Service Station. Melbourne Rd. North , Geelong.	140956	1960	Road Match	478m
	MOTOR SERVICE STATIONS PETROL, ETC.	Price. L. A., Melbourne Rd. North, Geelong.	140962	1960	Road Match	478m
MOTOR SERVICE STATIONS PETROL, ETC.	Robertson & Son, Melbourne Rd. North , Geelong.	140966	1960	Road Match	478m	

Map Id	Business Activity	Premise	Ref No.	Year	Location Confidence	Distance to Road Corridor or Area
15	MOTOR SERVICE STATIONS PETROL, ETC.	Trewheela, Nev, West Melbourne Rd. West., Geelong.	140977	1960	Road Match	478m
	MOTOR SERVICE STATIONS, PETROL, ETC.	Buckley. D, C., Melbourne Rd. Geelong	90667	1950	Road Match	478m
	MOTOR GARAGES & ENGINEERS	Dickens Motors, Melbourne Rd. North. Geelong	90556	1950	Road Match	478m
	MOTOR SERVICE STATIONS, PETROL, ETC.	Dickens Motors, Melbourne Rd. North. Geelong	90674	1950	Road Match	478m
	MOTOR SERVICE STATIONS, PETROL, ETC.	Norlane Service Station, Melbourne Rd. North. Geelong	90691	1950	Road Match	478m
	MOTOR SERVICE STATIONS, PETROL, ETC.	Price. L, A., Melbourne Rd North Geelong	90697	1950	Road Match	478m
	MOTOR GARAGES & ENGINEERS	Robertson & Son, Melbourne Rd. North. Geelong	90580	1950	Road Match	478m
	Motor Depots & Garages	Cunningham, G., Melbourne-rd, Glg.	1810	1945	Road Match	478m

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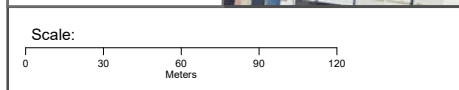
Aerial Imagery 2023

60-62 Morgan Street, Norlane, VIC 3214



Legend

- Site Boundary
- Buffer 150m



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Coordinate System:
GDA 1994 MGA Zone 55

Date: 28 November 2023

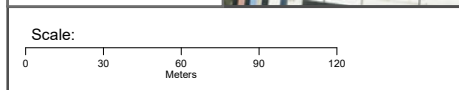
Aerial Imagery 2020

60-62 Morgan Street, Norlane, VIC 3214



Legend

- Site Boundary
- Buffer 150m



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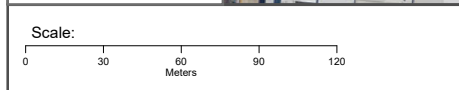
Aerial Imagery 2017

60-62 Morgan Street, Norlane, VIC 3214



Legend

- Site Boundary
- Buffer 150m



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Aerial Imagery 2014

60-62 Morgan Street, Norlane, VIC 3214







Aerial Imagery 2010

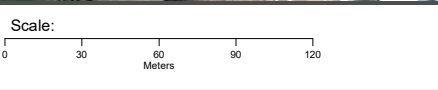
60-62 Morgan Street, Norlane, VIC 3214



150m

Legend

-  Site Boundary
-  Buffer 150m



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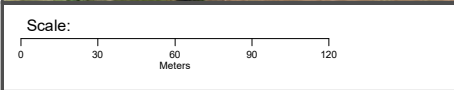
Aerial Imagery 2008

60-62 Morgan Street, Norlane, VIC 3214



Legend

- Site Boundary
- Buffer 150m



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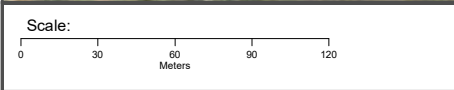
Aerial Imagery 2002

60-62 Morgan Street, Norlane, VIC 3214



Legend

- Site Boundary
- Buffer 150m



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Aerial Imagery 1994

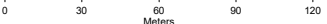
60-62 Morgan Street, Norlane, VIC 3214



Legend

-  Site Boundary
-  Buffer 150m

Scale:



0 30 60 90 120
Meters

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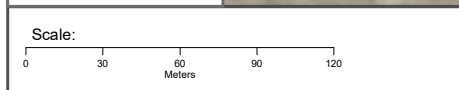
Aerial Imagery 1990

60-62 Morgan Street, Norlane, VIC 3214



Legend

- Site Boundary
- Buffer 150m



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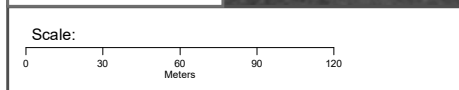
Aerial Imagery 1984

60-62 Morgan Street, Norlane, VIC 3214



Legend

- Site Boundary
- Buffer 150m



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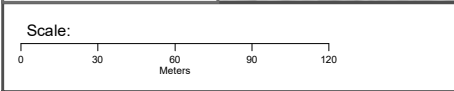
Aerial Imagery 1978

60-62 Morgan Street, Norlane, VIC 3214



Legend

-  Site Boundary
-  Buffer 150m



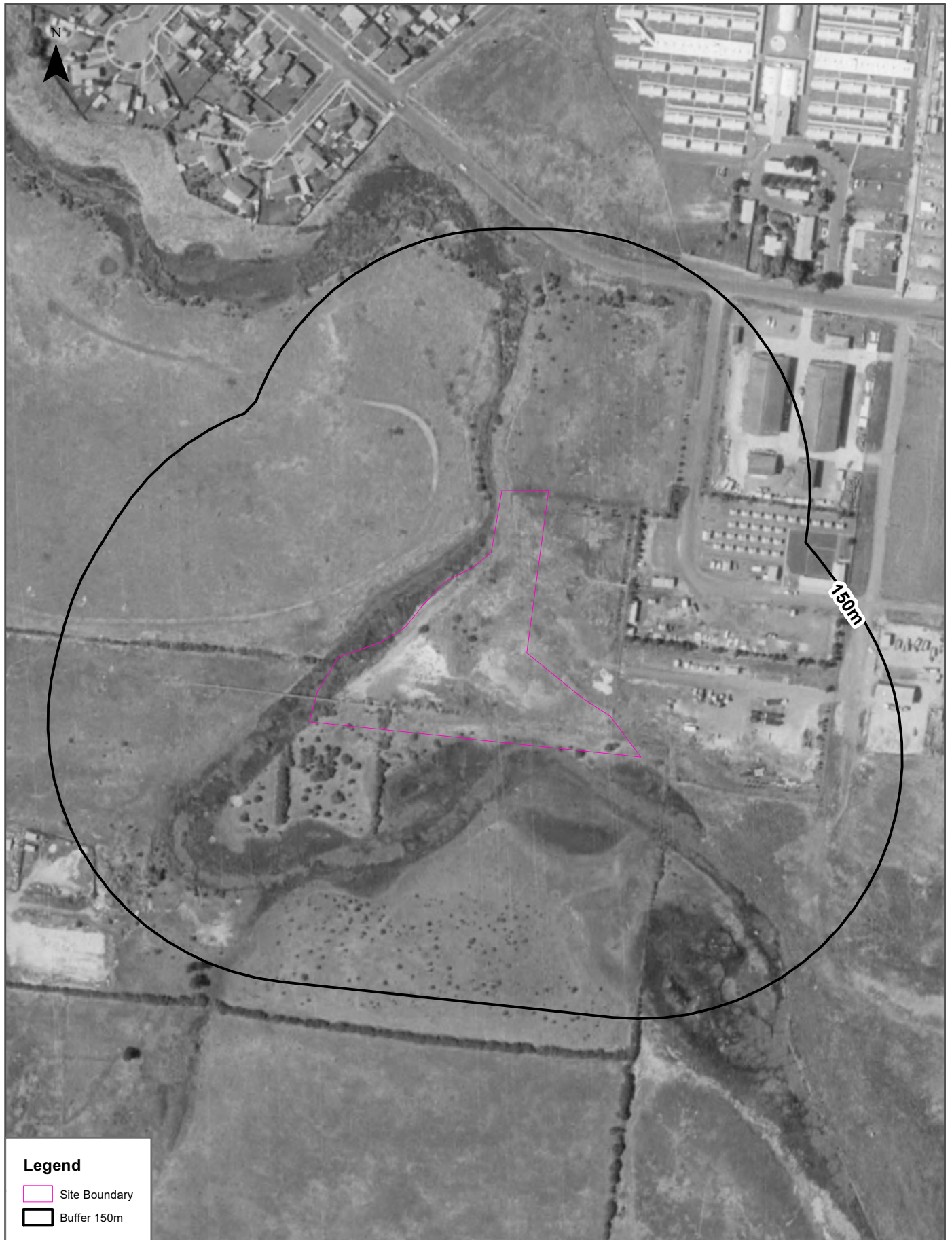
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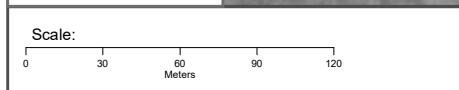
Aerial Imagery 1970

60-62 Morgan Street, Norlane, VIC 3214



Legend

- Site Boundary
- Buffer 150m



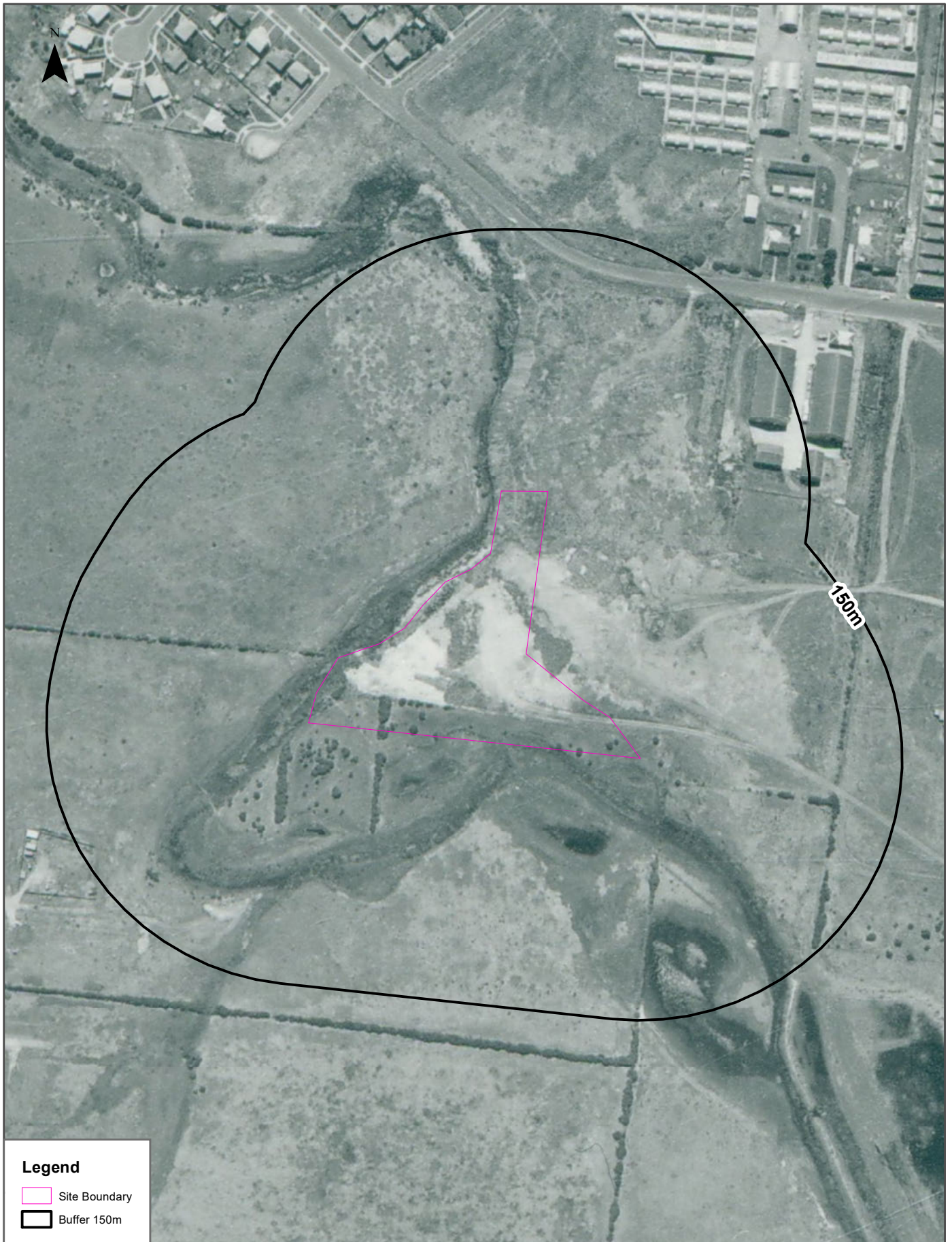
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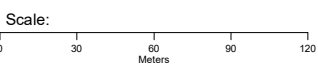
Aerial Imagery 1963

60-62 Morgan Street, Norlane, VIC 3214



Legend

-  Site Boundary
-  Buffer 150m



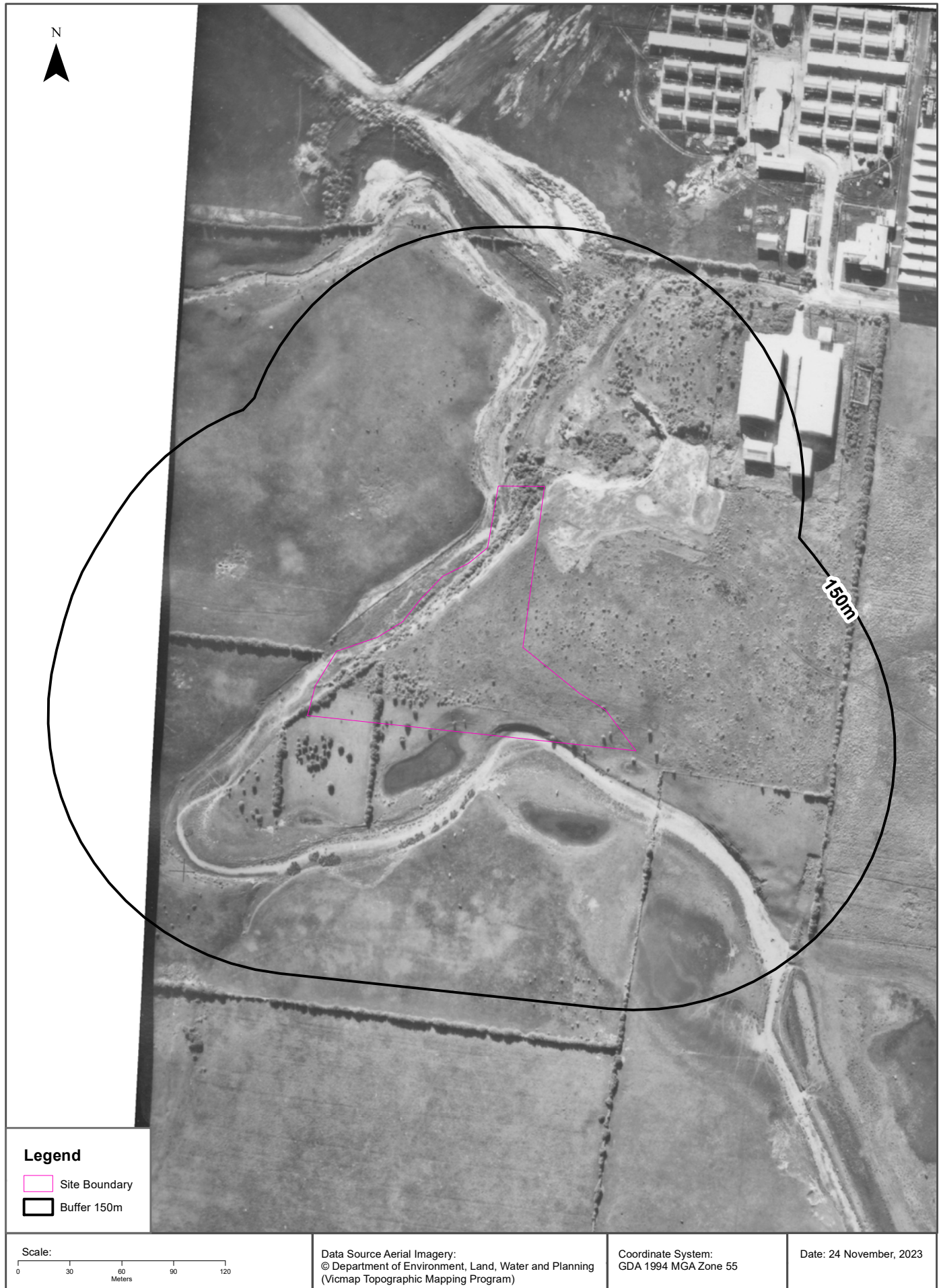
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Aerial Imagery 1951

60-62 Morgan Street, Norlane, VIC 3214



Legend

- Site Boundary
- Buffer 150m

Scale:
0 30 60 90 120
Meters

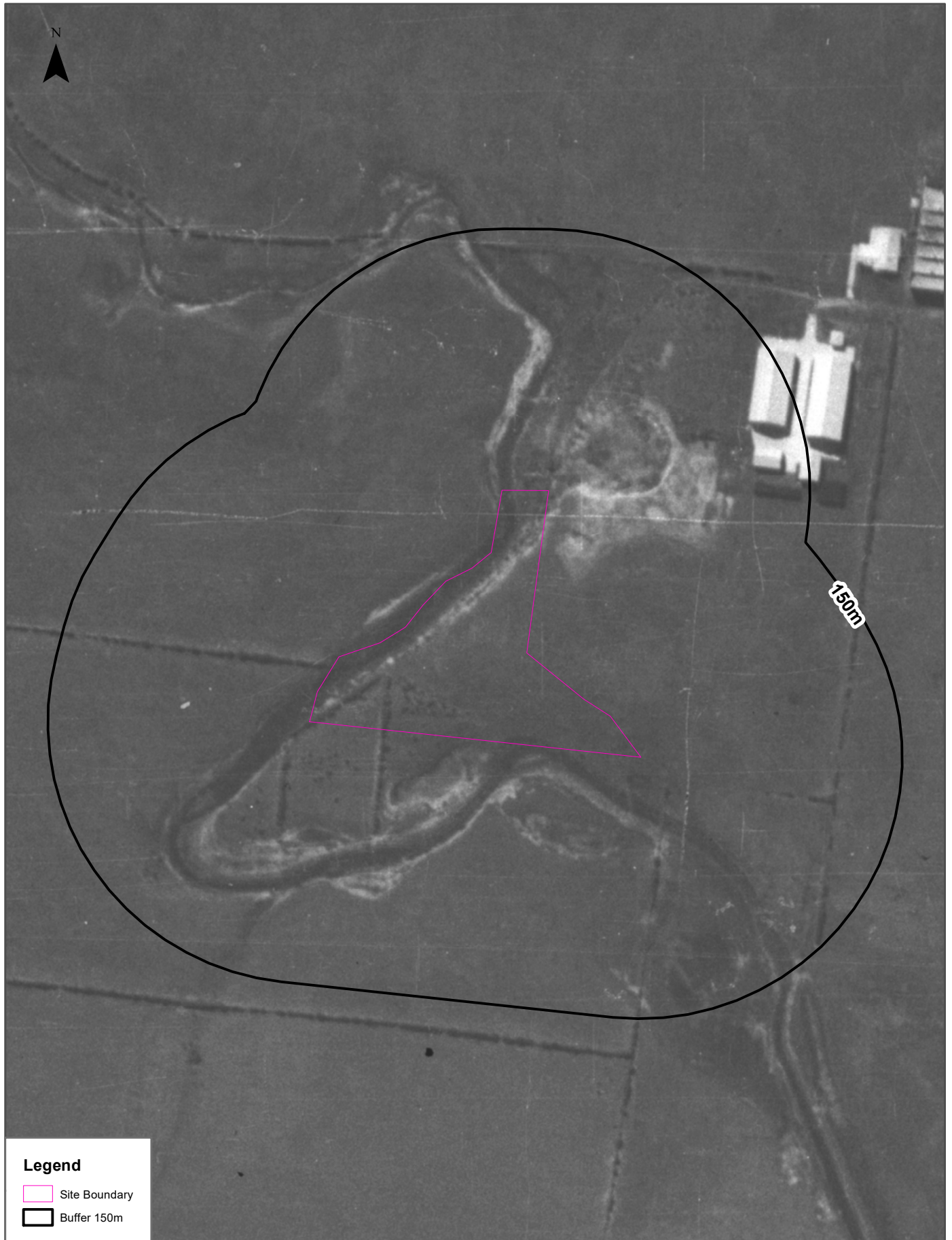
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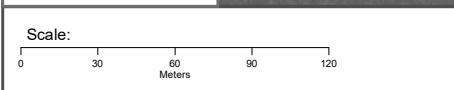
Aerial Imagery 1946

60-62 Morgan Street, Norlane, VIC 3214



Legend

-  Site Boundary
-  Buffer 150m



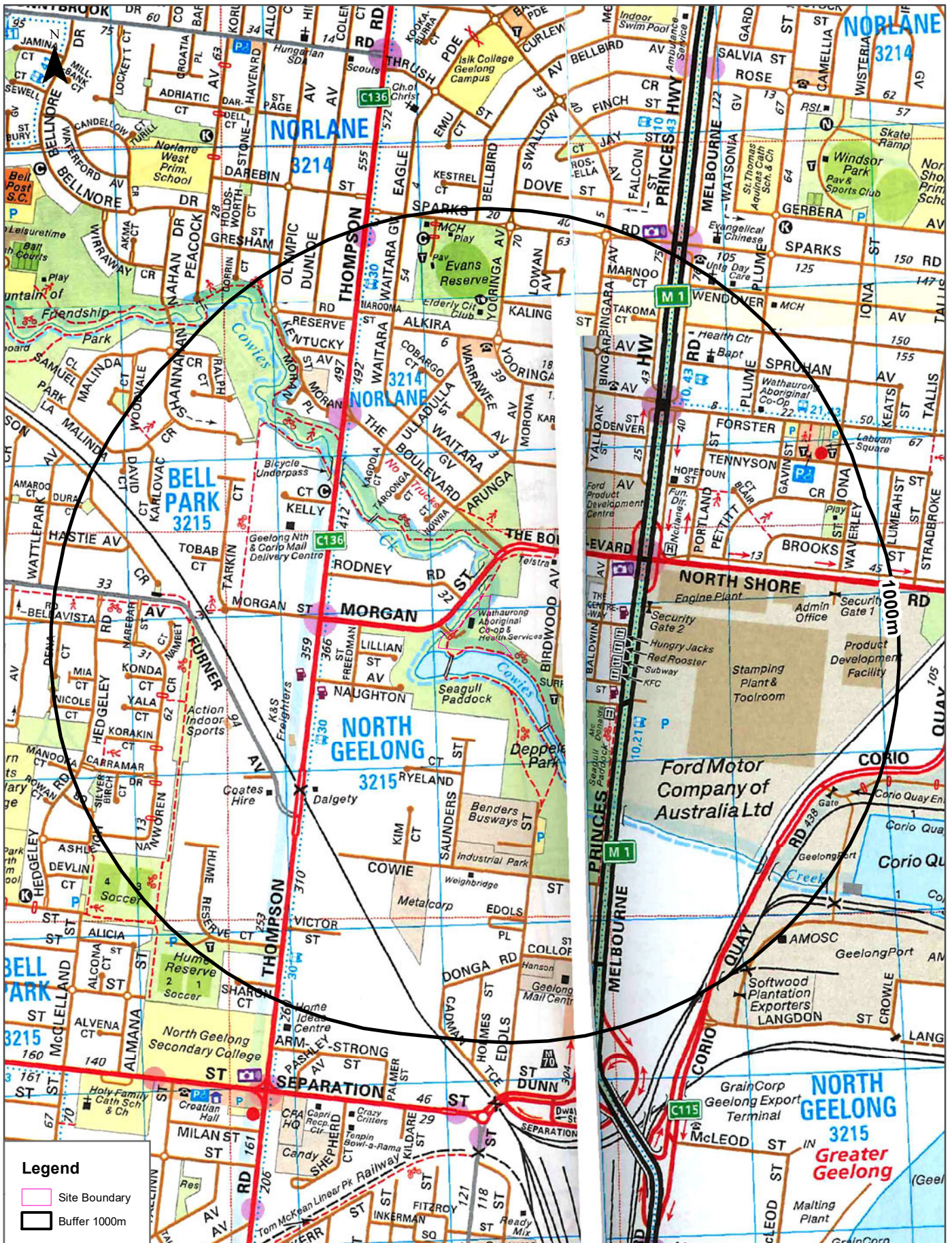
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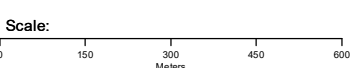
Historical Map 2009

60-62 Morgan Street, Norlane, VIC 3214



Legend

- Site Boundary
- Buffer 1000m



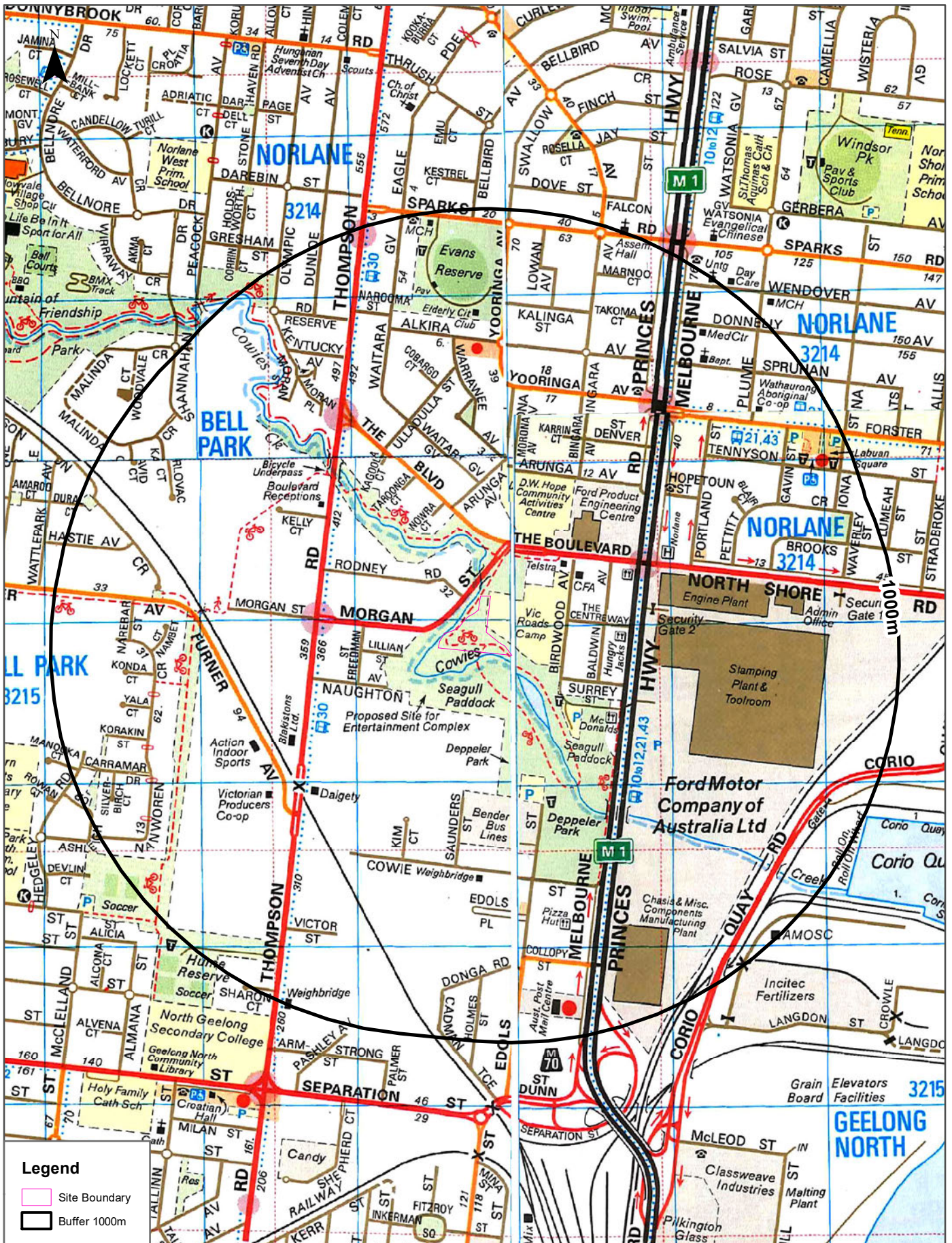
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Coordinate System: GDA 1994 MGA Zone 55

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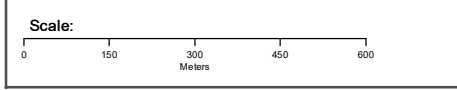
Historical Map 1998

60-62 Morgan Street, Norlane, VIC 3214



Legend

- Site Boundary
- Buffer 1000m



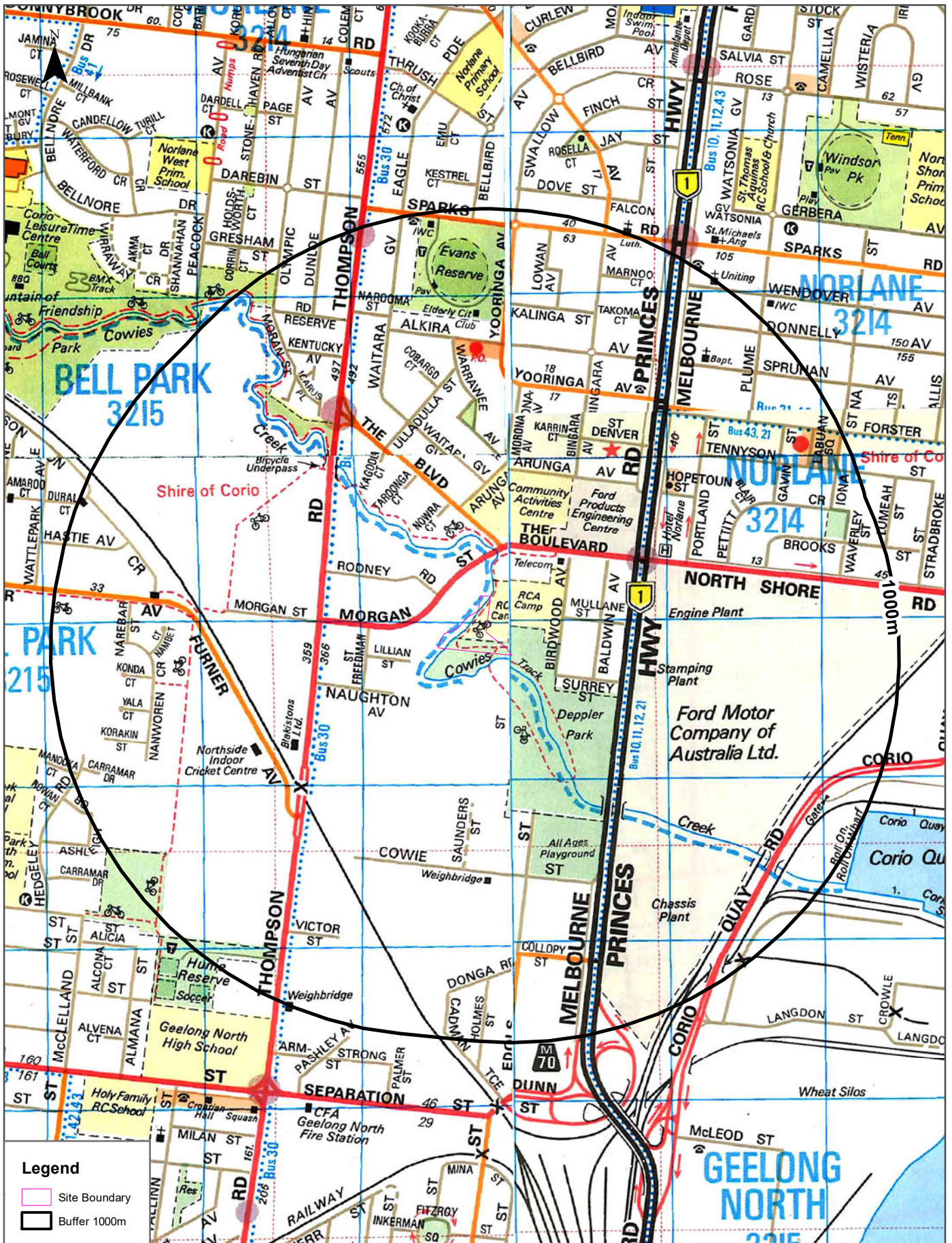
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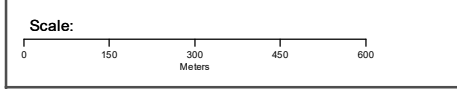
Historical Map 1986

60-62 Morgan Street, Norlane, VIC 3214



Legend

- Site Boundary
- Buffer 1000m



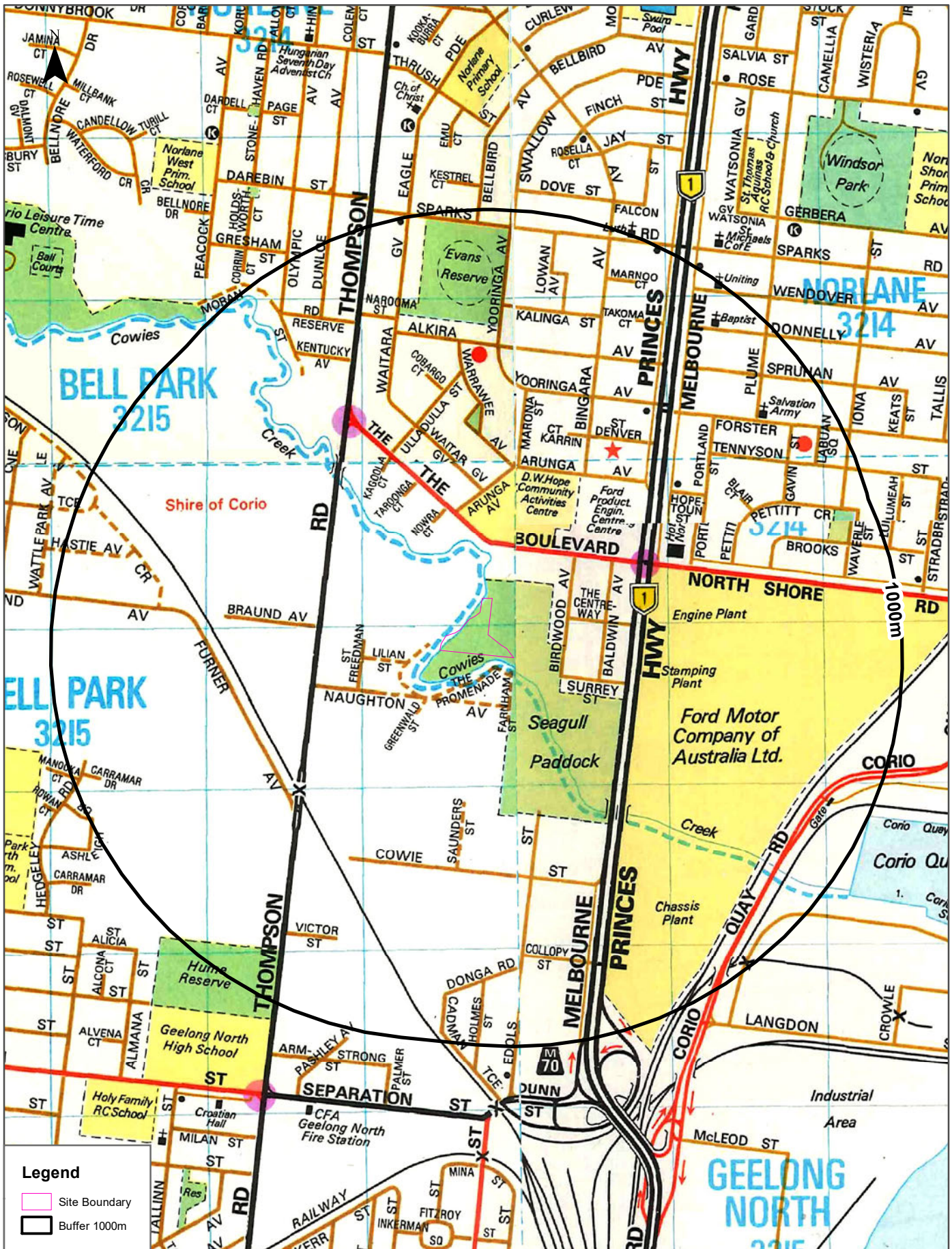
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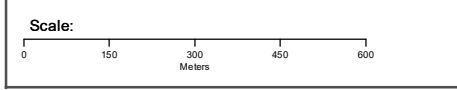
Historical Map 1978

60-62 Morgan Street, Norlane, VIC 3214



Legend

- Site Boundary
- Buffer 1000m



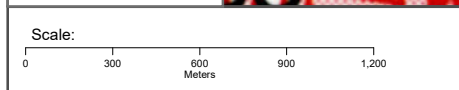
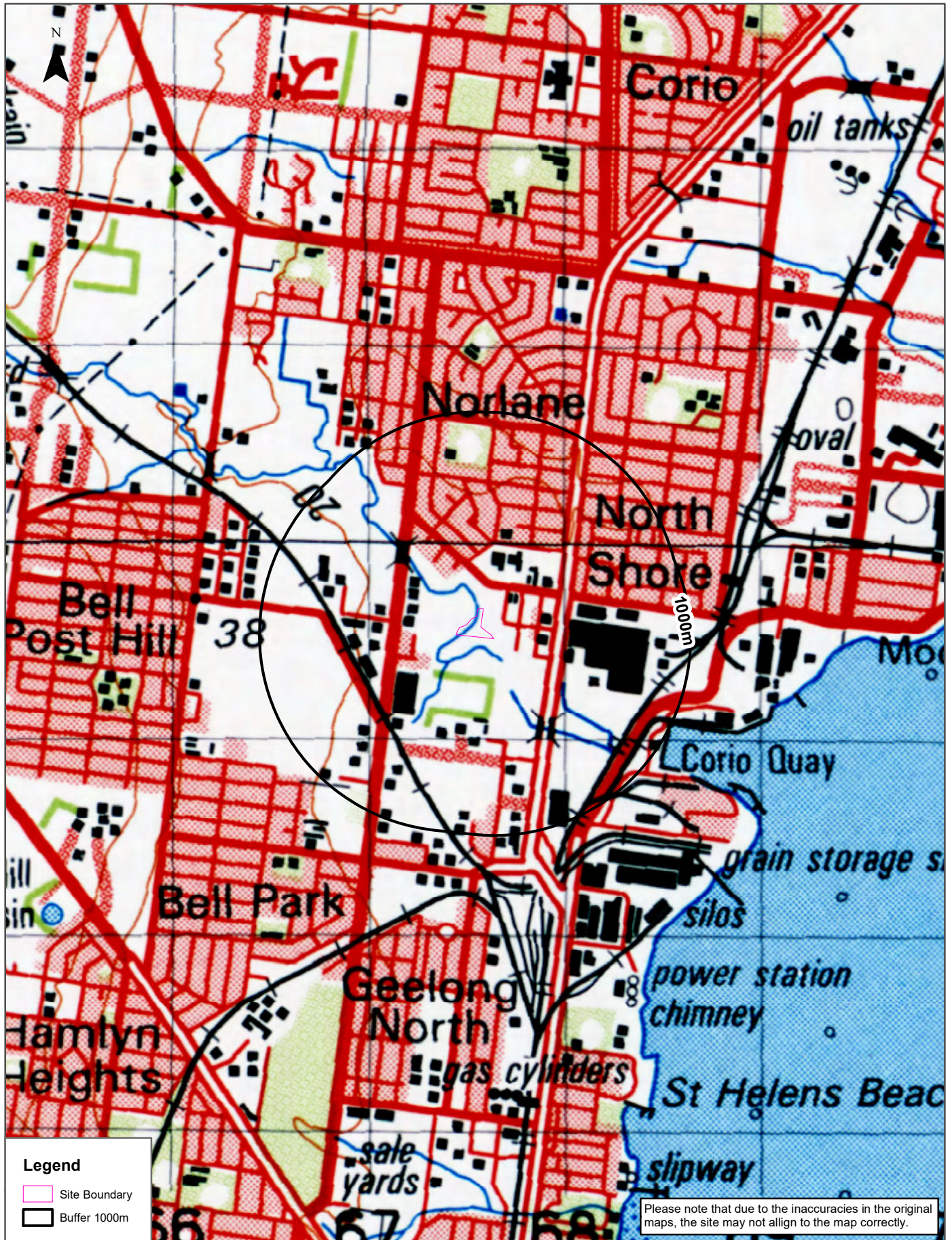
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Coordinate System: GDA 1994 MGA Zone 55

Date: 27 November 2023

Historical Map 1975

60-62 Morgan Street, Norlane, VIC 3214



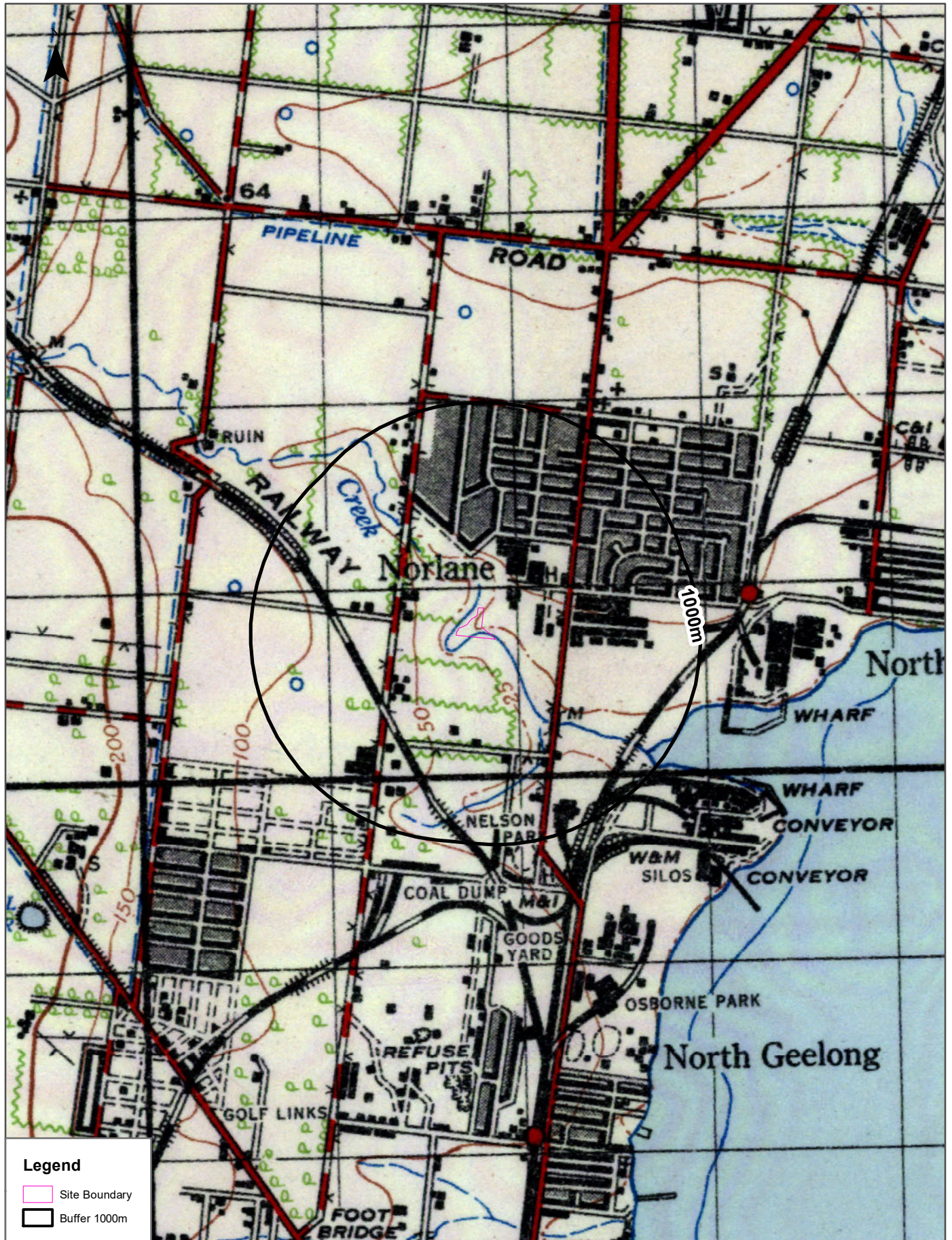
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Topographic Maps Geoscience Australia

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Date: 28 November 2023

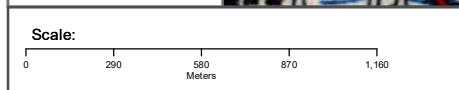
Historical Map c.1955

60-62 Morgan Street, Norlane, VIC 3214



Legend

- Site Boundary
- Buffer 1000m



Data Sources: Australia 1:63360
Prepared by Commonwealth Section Imperial General Staff

Coordinate System:
GDA 1994 MGA Zone 55

Date: 27 November 2023

Historical Map c.1928

60-62 Morgan Street, Norlane, VIC 3214



Legend

- Site Boundary
- Buffer 1000m

Scale:

Data Sources: Australia 1:63360
 Prepared by Commonwealth Section Imperial General Staff

Coordinate System:
 GDA 1994 MGA Zone 55

Date: 27 November 2023

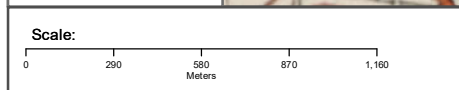
Historical Map c.1914

60-62 Morgan Street, Norlane, VIC 3214



Legend

- Site Boundary
- Buffer 1000m



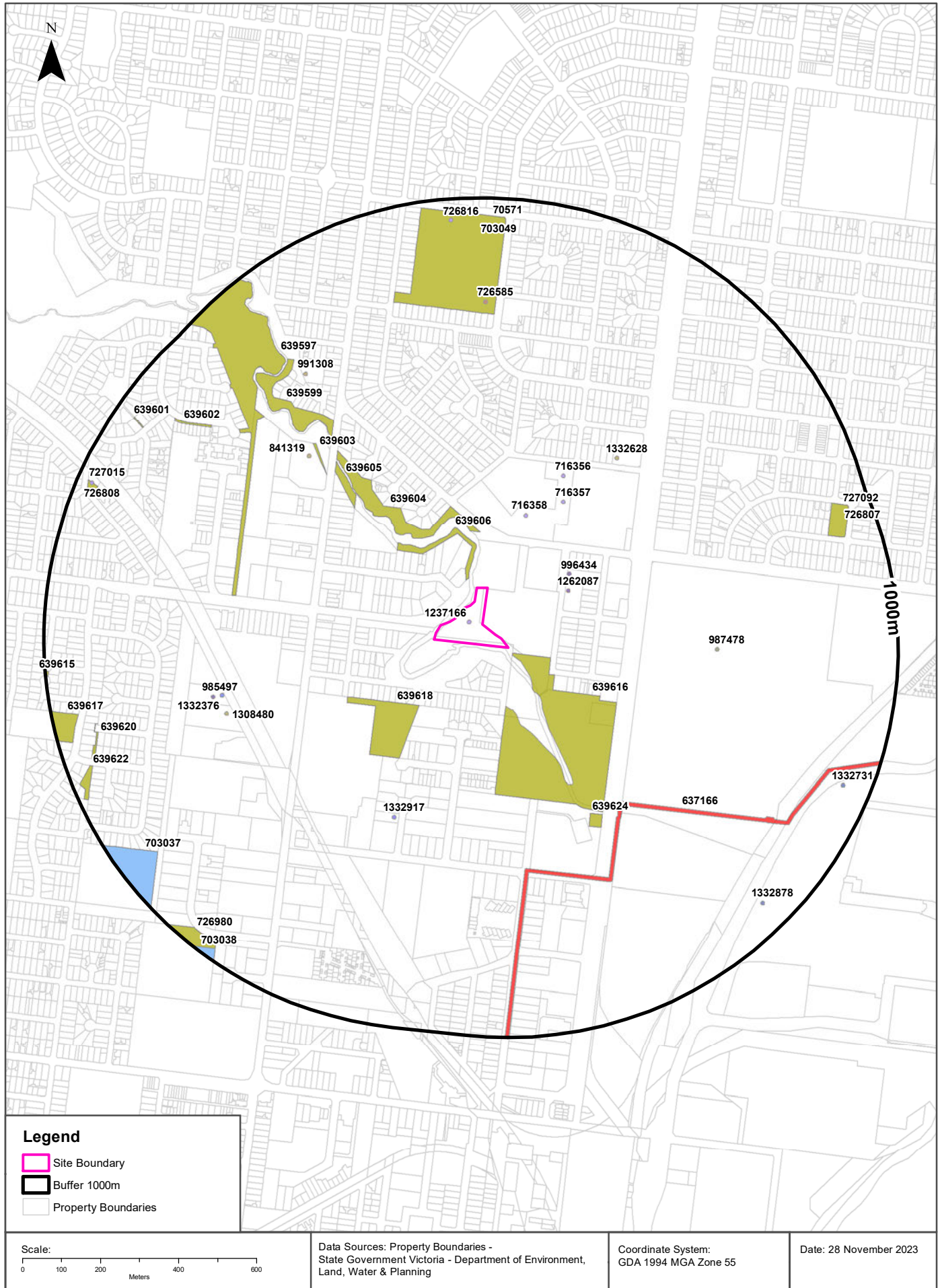
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Prepared by Commonwealth Section Imperial General Staff

Coordinate System:
GDA 1994 MGA Zone 55

Date: 27 November 2023

Features of Interest

60-62 Morgan Street, Norlane, VIC 3214



Features of Interest

60-62 Morgan Street, Norlane, VIC 3214

Features of Interest

Features of Interest within the dataset buffer:

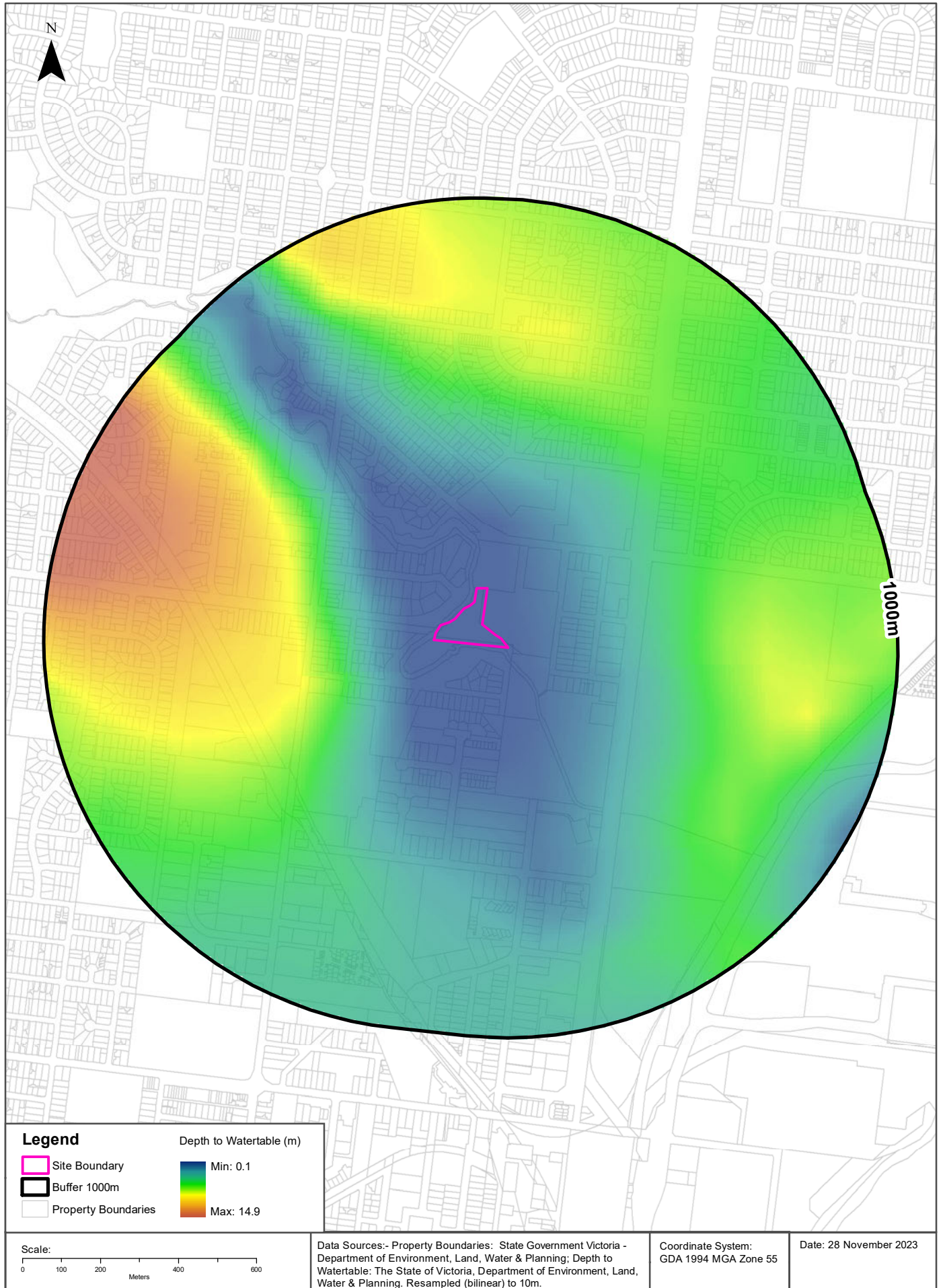
Feature Id	Feature Type	Feature Sub Type	Name	Distance	Direction
1237166	recreational resource	club house	Wathaurong Aboriginal Cooperative	0m	On-site
639616	reserve	park	Seagull Paddock	18m	South East
639606	reserve	park		34m	North
639604	reserve	park		143m	North West
639618	reserve	park		173m	South West
1262087	emergency facility	fire station	Corio Fire Station	201m	East
716358	recreational resource	club house	Dw Hope Centre Spanish Club	205m	North East
996434	emergency facility	emergency coordination centre	Corio Local Command Facility	206m	North East
716357	recreational resource	club house	Dw Hope Centre Phillipino Club	289m	North East
716356	recreational resource	club house	Dw Hope Centre German Club	342m	North East
639605	reserve	park		374m	North West
1332917	admin facility	justice service	Geelong Ccs Community Work Shed	462m	South
1332628	care facility	child care	Montessori Minds Childcare Centre	464m	North East
639624	reserve	park		473m	South East
639603	reserve	park		483m	North West
637166	pipeline	gas pipeline	Corio - Pt Henry	485m	South East
639597	reserve	park		521m	North West
639599	reserve	park		525m	North West
987478	industrial facility	factory	Ford Motor Works	529m	East
841319	care facility	child care	One World Childrens Centre	543m	North West
1332376	admin facility	office	Vicses Sw Office Geelong	557m	West
1308480	care facility	child care	Nimble Kidsz	560m	West
985497	emergency facility	emergency coordination centre	Geelong Incident Control Centre	580m	West
991308	care facility	aged care	Calvary Vonlea Manor	699m	North West
70571	reserve	park	Evans Reserve	703m	North
726585	community venue	senior citizens	Yooringa Seniors Community Centre	729m	North
703049	sport facility	sports ground		753m	North
639602	reserve	park		776m	North West
727092	reserve	park	Waverley Reserve	866m	East
639620	reserve	park		889m	West
703037	sport facility	sports ground		893m	South West

Feature Id	Feature Type	Feature Sub Type	Name	Distance	Direction
726807	recreational resource	playground		909m	East
639601	reserve	park		916m	North West
1332878	sign	emergency marker	SOT004	918m	South East
1332731	sign	emergency marker	CQN001	922m	South East
639617	reserve	park		932m	West
639622	reserve	park		934m	West
726816	recreational resource	playground		939m	North
727015	reserve	park	Nicholson Reserve	944m	West
726980	reserve	park	Hume Reserve	947m	South West
726808	recreational resource	playground		958m	West
703038	sport facility	sports ground		973m	South West
639615	reserve	park		991m	West

Features of Interest Data Custodian: State Government Victoria - Dept of Environment, Land, Water & Planning
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Depth to Watertable

60-62 Morgan Street, Norlane, VIC 3214



Hydrogeology & Groundwater

60-62 Morgan Street, Norlane, VIC 3214

Hydrogeology

Description of aquifers within the dataset buffer:

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

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

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Groundwater Salinity

On-site Groundwater Salinity:

Groundwater Salinity	Percent Of Site Area
3,500 - 7,000 mg/l	100
1,000 - 3,500 mg/l	<1

Depth to Watertable

On-site Depth to Watertable:

Depth to Watertable	Percent Of Site Area
Less than 5 metres	100

Surface Elevation

Approximate on-site Surface Elevation:

Surface Elevation
10 AHDm

Basement Elevation

Approximate on-site Basement Elevation:

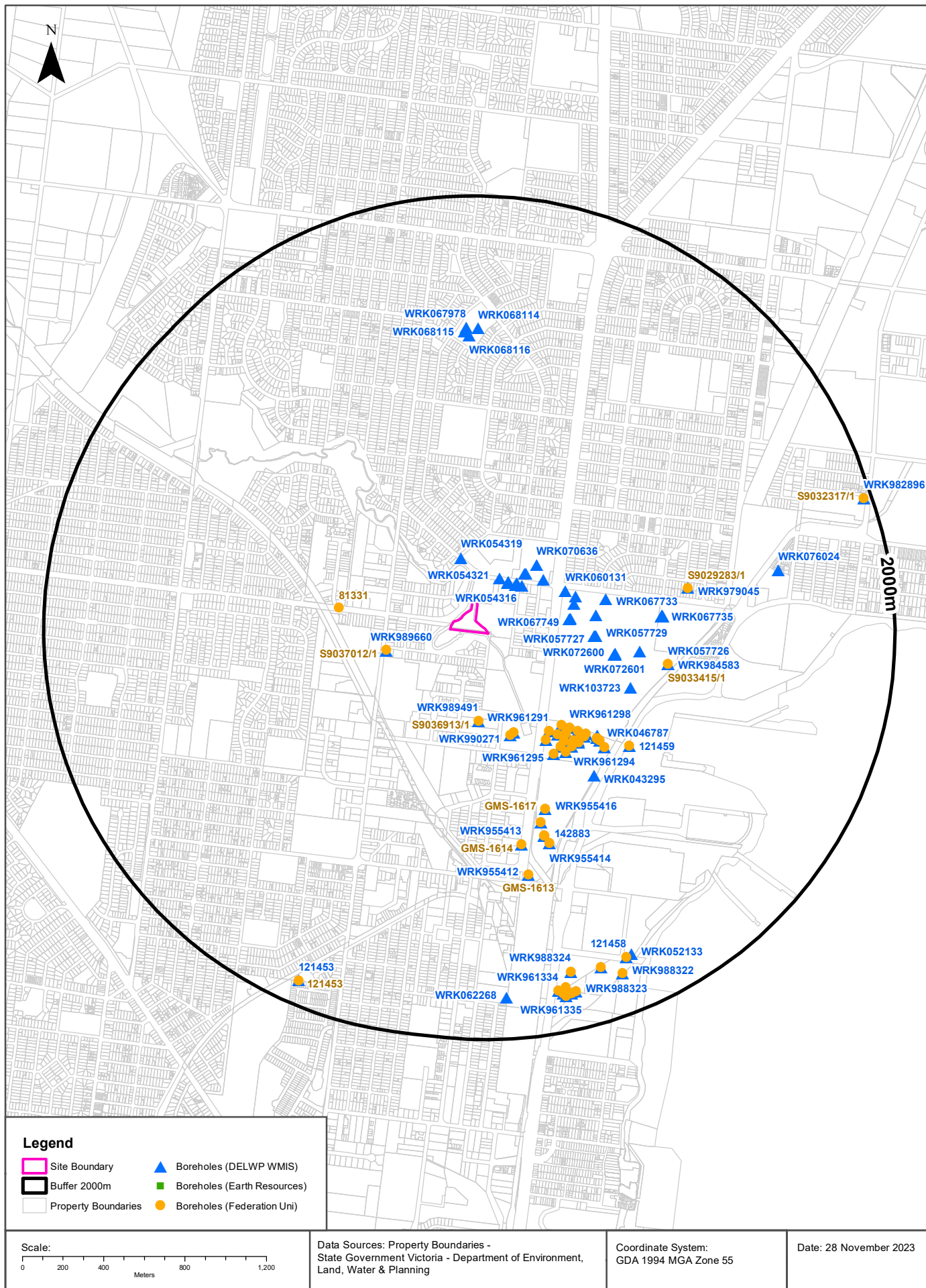
Basement Elevation - Basement Rocks comprise Lower Palaeozoic basement rocks that form the highlands and the crystalline basement; and Mesozoic rocks of the Otway and Gippsland basins both outcropping and subsurface
-132 AHDm to -129 AHDm

Groundwater Data Custodian: State Government Victoria - Dept of Environment, Land, Water & Planning

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Groundwater Boreholes

60-62 Morgan Street, Norlane, VIC 3214



Groundwater Boreholes

60-62 Morgan Street, Norlane, VIC 3214

Boreholes (DELWP WMIS)

Boreholes from the Department of Environment, Land, Water & Planning's Water Measurement Information System, within the dataset buffer:

Bore Id	Use Type	Drillers Log	Construction	Latest Water Levels	Geology	Completed Date	Dist (m)	Dir
WRK054321	Observation	0.00m-0.50m fill 0.50m-5.00m sandy clay 5.00m-13.00m hard sandy calcrete bands	0.00m-12.50m INNER LINING - CASING = Pvc 12.50m-13.00m INNER LINING - SCREEN = Pvc 0.00m-8.50m OUTER LINING - GRAVEL = Cement 8.50m-11.50m OUTER LINING - GRAVEL = Bentonite 11.50m-13.00m OUTER LINING - GRAVEL = Gravel		0.00m-12.50m Clay 12.50m-13.00m Calcrete	05/02/2010	159m	North East
WRK054320	Observation	0.00m-0.50m fill 0.50m-5.00m sandy clay 5.00m-13.00m hard sandy calcrete bands	0.00m-12.50m INNER LINING - CASING = Pvc 12.50m-13.00m INNER LINING - SCREEN = Pvc 0.00m-8.50m OUTER LINING - GRAVEL = Cement 8.50m-11.50m OUTER LINING - GRAVEL = Bentonite 11.50m-13.00m OUTER LINING - GRAVEL = Gravel		0.00m-12.50m Clay 12.50m-13.00m Calcrete	05/02/2010	173m	North East
WRK054322	Observation	0.00m-0.50m fill 0.50m-5.00m sandy clay 5.00m-13.00m hard sandy calcrete bands	0.00m-12.50m INNER LINING - CASING = Pvc 12.50m-13.00m INNER LINING - SCREEN = Pvc 0.00m-8.50m OUTER LINING - GRAVEL = Cement 8.50m-11.50m OUTER LINING - GRAVEL = Bentonite 11.50m-13.00m OUTER LINING - GRAVEL = Gravel		0.00m-12.50m Clay 12.50m-13.00m Calcrete	05/02/2010	173m	North East
WRK054315	Observation	0.00m-0.50m fill 0.50m-5.00m sandy clay 5.00m-13.00m hard sandy calcrete bands	0.00m-12.50m INNER LINING - CASING = Pvc 12.50m-13.00m INNER LINING - SCREEN = Pvc 0.00m-8.50m OUTER LINING - GRAVEL = Cement 8.50m-11.50m OUTER LINING - GRAVEL = Bentonite 11.50m-13.00m OUTER LINING - GRAVEL = Gravel		0.00m-12.50m Sand 12.50m-13.00m Calcrete	05/02/2010	181m	North East
WRK054317	Observation	0.00m-0.50m fill 0.50m-5.00m sandy clay 5.00m-13.00m hard sandy calcrete bands	0.00m-12.50m INNER LINING - CASING = Pvc 12.50m-13.00m INNER LINING - SCREEN = Pvc 0.00m-8.50m OUTER LINING - GRAVEL = Cement 8.50m-11.50m OUTER LINING - GRAVEL = Bentonite 11.50m-13.00m OUTER LINING - GRAVEL = Gravel		0.00m-12.50m Clay 12.50m-13.00m Calcrete	05/02/2010	204m	North East
WRK054316	Observation	0.00m-0.50m fill 0.50m-5.00m sandy clay 5.00m-13.00m hard sandy calcrete bands	0.00m-12.50m INNER LINING - CASING = Pvc 12.50m-13.00m INNER LINING - SCREEN = Pvc 0.00m-8.50m OUTER LINING - GRAVEL = Cement 8.50m-11.50m OUTER LINING - GRAVEL = Bentonite 11.50m-13.00m OUTER LINING - GRAVEL = Gravel		0.00m-12.50m Clay 12.50m-13.00m Calcrete	05/02/2010	213m	North East
WRK054319	Observation	0.00m-0.50m fill 0.50m-5.00m sandy clay 5.00m-13.00m hard sandy calcrete bands	0.00m-12.50m INNER LINING - CASING = Pvc 12.50m-13.00m INNER LINING - SCREEN = Pvc 0.00m-8.50m OUTER LINING - GRAVEL = Cement 8.50m-11.50m OUTER LINING - GRAVEL = Bentonite 11.50m-13.00m OUTER LINING - GRAVEL = Gravel		0.00m-12.50m Clay 12.50m-13.00m Calcrete	05/02/2010	226m	North

Bore Id	Use Type	Drillers Log	Construction	Latest Water Levels	Geology	Completed Date	Dist (m)	Dir
WRK054318	Observation	0.00m-0.50m fill 0.50m-5.00m sandy clay 5.00m-13.00m hard sandy calcrete bands	0.00m-12.50m INNER LINING - CASING = Pvc 12.50m-13.00m INNER LINING - SCREEN = Pvc 0.00m-8.50m OUTER LINING - GRAVEL = Cement 8.50m-11.50m OUTER LINING - GRAVEL = Bentonite 11.50m-13.00m OUTER LINING - GRAVEL = Gravel		0.00m-12.50m Clay 12.50m-13.00m Calcrete	05/02/2010	233m	North East
WRK071921	Observation	0.00m-0.20m FILL 0.20m-13.00m CLAY	0.00m-8.50m INNER LINING - CASING = Pvc 8.50m-13.00m INNER LINING - SCREEN = Pvc 0.00m-7.00m OUTER LINING - GRAVEL = Cement 7.00m-8.00m OUTER LINING - GRAVEL = Bentonite 8.00m-13.00m OUTER LINING - GRAVEL = Gravel		8.50m-13.00m Clay	10/11/2012	270m	North East
WRK071922	Observation					10/11/2012	275m	North East
WRK989660							331m	West
WRK073825	Observation					01/10/2012	341m	North East
WRK070636	Observation	0.00m-7.50m FILL 7.50m-12.00m LIMESTONE	0.00m-8.00m INNER LINING - CASING = Pvc 8.00m-12.00m INNER LINING - SCREEN = Pvc 0.00m-6.50m OUTER LINING - GRAVEL = Cement 6.50m-7.50m OUTER LINING - GRAVEL = Bentonite 7.50m-12.00m OUTER LINING - GRAVEL = Gravel		8.00m-12.00m Limestone	13/08/2012	343m	North East
WRK067749	Observation	0.00m-1.20m FILL 1.20m-11.50m CLAY	0.00m-8.50m INNER LINING - CASING = Pvc 8.50m-11.50m INNER LINING - SCREEN = Pvc 0.00m-7.00m OUTER LINING - GRAVEL = Cement 7.00m-8.00m OUTER LINING - GRAVEL = Bentonite 8.00m-11.50m OUTER LINING - GRAVEL = Gravel		8.50m-11.50m Clay	30/03/2012	403m	East
WRK067751	Observation					16/03/2012	403m	East
WRK067750	Observation					30/03/2012	409m	East
WRK060131	Observation					01/12/2010	432m	East
WRK989491							435m	South
WRK103720	Observation	0.00m-2.20m SANDY SILTY CLAY 2.20m-3.00m CALCRETEBAND 3.00m-9.50m SANDY CLAY	0.00m-6.50m INNER LINING - CASING = UPVC class 18 6.50m-9.50m INNER LINING - SCREEN = UPVC class 18 0.00m-5.00m OUTER LINING - GRAVEL = Cement 5.00m-6.00m OUTER LINING - GRAVEL = Bentonite 6.00m-9.50m OUTER LINING - GRAVEL = Gravel			22/11/2017	444m	East
WRK103721	Observation	0.00m-4.20m SANDY SILTY CLAY 4.20m-6.50m CALCRETEBAND 6.50m-9.50m SANDY CLAY	0.00m-6.50m INNER LINING - CASING = UPVC class 18 6.50m-9.50m INNER LINING - SCREEN = UPVC class 18 0.00m-5.00m OUTER LINING - GRAVEL = Cement 5.00m-6.00m OUTER LINING - GRAVEL = Bentonite 6.00m-9.50m OUTER LINING - GRAVEL = Gravel			22/11/2017	465m	East
WRK990270							503m	South
WRK990271							512m	South
WRK060141	Observation					20/12/2010	518m	East
WRK057727	Observation					20/12/2010	522m	East
WRK057729	Observation					20/12/2010	528m	East

Bore Id	Use Type	Drillers Log	Construction	Latest Water Levels	Geology	Completed Date	Dist (m)	Dir
WRK103722	Observation	0.00m-2.00m SANDY SILTY CLAY 2.00m-6.50m SAND 6.50m-8.00m SANDY CLAY	0.00m-5.00m INNER LINING - CASING = UPVC class 18 5.00m-8.00m INNER LINING - SCREEN = UPVC class 18 0.00m-3.50m OUTER LINING - GRAVEL = Cement 3.50m-4.50m OUTER LINING - GRAVEL = Bentonite 4.50m-8.00m OUTER LINING - GRAVEL = Gravel			29/11/2017	535m	East
WRK961291							565m	South East
WRK961297							577m	South East
WRK961287							596m	South East
WRK103724	Observation	0.00m-4.00m SANDY CLAY 4.00m-7.00m CLAYEY SAND 7.00m-9.00m SILTY SANDY CLAY	0.00m-5.50m INNER LINING - CASING = UPVC class 18 5.50m-9.00m INNER LINING - SCREEN = UPVC class 18 0.00m-4.00m OUTER LINING - GRAVEL = Cement 4.00m-5.00m OUTER LINING - GRAVEL = Bentonite 5.00m-9.00m OUTER LINING - GRAVEL = Gravel			28/11/2017	600m	East
WRK961303							603m	South East
WRK961298							614m	South East
WRK961288							621m	South East
WRK961304							624m	South East
WRK072600	Observation	0.00m-11.50m CLAY	0.00m-11.00m INNER LINING - CASING = Pvc 11.00m-11.50m INNER LINING - SCREEN = Pvc 0.00m-9.00m OUTER LINING - GRAVEL = Cement 9.00m-10.50m OUTER LINING - GRAVEL = Bentonite 10.50m-11.50m OUTER LINING - GRAVEL = Gravel		11.00m-11.50m Clay	19/01/2013	628m	East
WRK072601	Observation					12/01/2013	629m	East
WRK072606	Observation					11/01/2013	629m	East
WRK072608	Observation					08/01/2013	629m	East
WRK072610	Observation					15/01/2013	629m	East
WRK072605	Observation					12/01/2013	631m	East
WRK072607	Observation					17/01/2013	632m	East
WRK072609	Observation					13/01/2013	632m	East
WRK961292							649m	South East
WRK961299							650m	South East
WRK961289							659m	South East
WRK968576	Dewatering	0.00m-1.00m SANDY CLAY FILL 1.00m-5.00m RUBBLE IN SANDY CLAY 5.00m-7.50m SILTY GREY CLAY	-1.50m-7.30m INNER LINING - CASING = Concrete 7.30m-7.50m INNER LINING - SLOT = Not Known 7.20m-7.30m OUTER LINING - GRAVEL = Gravel 7.30m-7.50m OUTER LINING - GRAVEL = Seal			01/06/2005	673m	South East
WRK961295							676m	South East
WRK961302							685m	South East
WRK961293							687m	South East
WRK961300							689m	South East

Bore Id	Use Type	Drillers Log	Construction	Latest Water Levels	Geology	Completed Date	Dist (m)	Dir
WRK961290							691m	South East
WRK968574	Dewatering	0.00m-1.00m SANDY CLAY FILL 1.00m-5.00m RUBBLE IN SANDY CLAY 5.00m-7.50m SILTY GREY CLAY	-1.50m-7.30m INNER LINING - CASING = Concrete 7.30m-7.50m INNER LINING - SLOT = Not Known 7.20m-7.30m OUTER LINING - GRAVEL = Gravel 7.30m-7.40m OUTER LINING - GRAVEL = Seal 7.40m-7.50m OUTER LINING - GRAVEL = Bentonite		7.30m-7.50m Clay	01/06/2005	692m	South East
WRK961296							696m	South East
WRK984831							697m	South East
WRK046787	Dewatering						733m	South East
WRK968565							743m	South East
WRK968575							743m	South East
WRK968588							743m	South East
WRK968589							743m	South East
WRK968590							743m	South East
WRK057985	Dewatering					02/10/2009	748m	East
WRK103723	Observation	0.00m-8.80m SANDY SILTY CLAY 8.80m-9.00m CAKRETE 9.00m-12.00m SILTY SANDY CLAY	0.00m-8.50m INNER LINING - CASING = UPVC class 18 9.00m-12.00m INNER LINING - SCREEN = UPVC class 18 0.00m-7.50m OUTER LINING - GRAVEL = Cement 7.50m-8.50m OUTER LINING - GRAVEL = Bentonite 8.50m-12.00m OUTER LINING - GRAVEL = Gravel			05/12/2017	748m	East
WRK961301							761m	South East
WRK961294							799m	South East
WRK067732	Observation	0.00m-5.50m CLAY 5.50m-12.00m CLAY	0.00m-9.00m INNER LINING - CASING = Pvc 9.00m-12.00m INNER LINING - SCREEN = Pvc 0.00m-7.50m OUTER LINING - GRAVEL = Cement 7.50m-8.50m OUTER LINING - GRAVEL = Bentonite 8.50m-12.00m OUTER LINING - GRAVEL = Gravel			10/01/2012	855m	East
WRK067735	Observation	0.00m-1.00m FILL 1.00m-12.00m CLAY	0.00m-9.00m INNER LINING - CASING = Pvc 9.00m-12.00m INNER LINING - SCREEN = Pvc 0.00m-7.50m OUTER LINING - GRAVEL = Cement 7.50m-8.50m OUTER LINING - GRAVEL = Bentonite 8.50m-12.00m OUTER LINING - GRAVEL = Gravel		9.00m-12.00m Clay	12/01/2012	855m	East
WRK067738	Observation					12/01/2012	855m	East
WRK067741	Observation					12/01/2012	855m	East
WRK070003	Observation	0.00m-0.90m FILL 0.90m-10.00m CLAY	0.00m-6.00m INNER LINING - CASING = Pvc 6.00m-10.00m INNER LINING - SCREEN = Pvc 0.00m-4.50m OUTER LINING - GRAVEL = Cement 4.50m-5.50m OUTER LINING - GRAVEL = Bentonite 5.50m-10.00m OUTER LINING - GRAVEL = Gravel		6.00m-10.00m Clay	28/06/2012	855m	East
WRK070007	Observation					28/06/2012	855m	East
WRK067736	Observation					12/01/2012	856m	East

Bore Id	Use Type	Drillers Log	Construction	Latest Water Levels	Geology	Completed Date	Dist (m)	Dir
WRK067737	Observation					12/01/2012	856m	East
WRK067742	Observation					12/01/2012	856m	East
WRK067743	Observation					12/01/2012	856m	East
WRK070004	Observation					28/06/2012	856m	East
WRK070006	Observation					28/06/2012	856m	East
WRK067733	Observation					09/01/2012	857m	East
WRK067740	Observation					12/01/2012	857m	East
WRK070005	Observation					28/06/2012	861m	East
WRK043295	Dewatering						872m	South East
121459	Groundwater Investigation, Observation, State Observation Network	0.00m-3.00m GREY FINE TO MEDIUM SAND WITH SHELLS 3.00m-5.00m BLACK MEDIUM GRAINED SAND WITH SOME SHELLS 5.00m-5.50m MOTTLED BLACK ORANGE CLAY WITH ADUNBANT SHELLS 5.50m-6.50m BROWN GREY SILT	0.00m-3.00m INNER LINING - CASING = Pvc Class 9 3.00m-6.00m INNER LINING - SCREEN = Pvc Class 9 2.00m-2.50m OUTER LINING - GRAVEL = Bentonite 2.50m-6.00m OUTER LINING - GRAVEL = Gravel	Date/time: 2016-05-24 1114 Quality: 43 WLMP: 2.92m DBNS: 2.93m RWL: 0.77mAHD		24/06/1994	888m	South East
WRK057726	Observation	0.00m-6.00m clay 6.00m-12.00m sandy clay	0.00m-7.00m INNER LINING - CASING = Pvc 7.00m-12.00m INNER LINING - SCREEN = Pvc 0.00m-5.00m OUTER LINING - GRAVEL = Cement 5.00m-6.50m OUTER LINING - GRAVEL = Bentonite 6.50m-12.00m OUTER LINING - GRAVEL = Gravel		0.00m-7.00m Clay 7.00m-12.00m Clay	09/07/2010	896m	East
WRK984583	Groundwater Investigation		0.00m-14.00m OUTER LINING - GRAVEL = Cement 14.00m-15.00m OUTER LINING - GRAVEL = Bentonite 15.00m-15.50m OUTER LINING - GRAVEL = Gravel			09/10/2008	896m	East
WRK955416						01/01/2002	909m	South
WRK955415						01/01/2002	965m	South
WRK979045							1005 m	East
142883	Groundwater Investigation	0.00m-0.30m ASPHALT 0.30m-0.60m FILL 0.60m-1.00m SILT, DK BROWN, MOIST 1.00m-3.00m SILTY SAND, GREY, ORANGE, MOIST, MEDIUM DENSE 3.00m-4.50m SILT, WITH CLAY, SOFT, MOIST, BROWN 4.50m-7.50m CLAYEY SILT 7.50m-8.00m SILT WITH SOME CLAY	0.00m-5.00m INNER LINING - CASING = Pvc 5.00m-8.00m INNER LINING - SCREEN = Pvc 0.00m-3.70m OUTER LINING - GRAVEL = Cement 3.70m-4.50m OUTER LINING - GRAVEL = Bentonite 4.50m-8.00m OUTER LINING - GRAVEL = Gravel		5.00m-8.00m Clay	22/09/1999	1034 m	South
142884	Groundwater Investigation	0.00m-0.20m ASPHALT 0.20m-0.50m FILL 0.50m-1.00m CLAYEY SILT 1.00m-2.00m SILTY SAND 2.00m-3.00m SANDY SILT 3.00m-4.50m SILT SOME CLAY 4.50m-7.00m CLAYEY SILT 7.00m-8.00m SILTY CLAY	0.00m-5.00m INNER LINING - CASING = Pvc 5.00m-8.00m INNER LINING - SCREEN = Pvc 0.00m-2.00m OUTER LINING - GRAVEL = Cement 2.00m-4.50m OUTER LINING - GRAVEL = Bentonite 4.50m-8.00m OUTER LINING - GRAVEL = Gravel		5.00m-8.00m Clay	22/09/1999	1034 m	South
142886	Groundwater Investigation	0.00m-0.20m ASPHALT 0.20m-0.60m FILL 0.60m-1.00m SILT 1.00m-2.00m SILTY SAND 2.00m-4.50m SILT MEDIUM CLAY 4.50m-6.00m CLAYEY SILT 6.00m-7.50m SILTY CLAY	0.00m-4.50m INNER LINING - CASING = Pvc 4.50m-7.50m INNER LINING - SCREEN = Pvc 0.00m-2.00m OUTER LINING - GRAVEL = Cement 2.00m-4.00m OUTER LINING - GRAVEL = Bentonite 4.00m-7.50m OUTER LINING - GRAVEL = Gravel		4.50m-7.50m Clay	22/09/1999	1034 m	South
WRK955413						01/01/2002	1051 m	South
WRK955414						01/01/2002	1077 m	South

Bore Id	Use Type	Drillers Log	Construction	Latest Water Levels	Geology	Completed Date	Dist (m)	Dir
WRK955412						01/01/2002	1204 m	South
WRK068116	Observation	0.00m-0.00m	0.00m-0.00m OUTER LINING - GRAVEL = Not Known			02/01/2016	1313 m	North
WRK068115	Observation	0.00m-0.00m	0.00m-0.00m OUTER LINING - GRAVEL = Not Known			02/01/2016	1333 m	North
WRK068114	Observation	0.00m-0.00m	0.00m-0.00m OUTER LINING - GRAVEL = Not Known			02/01/2016	1349 m	North
WRK067978	Observation	0.00m-0.00m	0.00m-0.00m OUTER LINING - GRAVEL = Not Known			02/01/2016	1353 m	North
WRK076024	Observation	0.00m-0.30m FILL 0.30m-9.00m CLAY	0.00m-6.00m INNER LINING - CASING = Pvc 6.00m-9.00m INNER LINING - SCREEN = Pvc 0.00m-4.00m OUTER LINING - GRAVEL = Cement 4.00m-5.50m OUTER LINING - GRAVEL = Bentonite 5.50m-9.00m OUTER LINING - GRAVEL = Gravel			19/09/2013	1458 m	East
WRK988324							1714 m	South
WRK052133	Observation	0.00m-0.70m fill 0.70m-11.00m sandy clay 11.00m-13.00m clay	0.00m-9.00m INNER LINING - CASING = Pvc 9.00m-13.00m INNER LINING - SCREEN = Pvc 0.00m-7.50m OUTER LINING - GRAVEL = Cement 7.50m-8.50m OUTER LINING - GRAVEL = Bentonite 8.50m-13.00m OUTER LINING - GRAVEL = Gravel		0.00m-9.00m Clay 9.00m-13.00m Clay	09/03/2010	1728 m	South East
121458	Groundwater Investigation, Observation, State Observation Network	0.00m-2.00m BROWN SILT 2.00m-6.00m ORANGE FINE TO MEDIUM CALCAREOUS SAND WITH MINOR CLAY 6.00m-7.00m FINE YELLOW SAND WITH HARD CEMENTED BANDS 7.00m-10.00m ORANGE SILTY CLAY WITH MINOR FINE SAND 10.00m-12.00m ORANGE FINE SAND WITH HARD CEMENTED BANDS 12.00m-16.00m ORANGE FINE SANDY SILT WITH THIN SAND AND CLAY BANDS 16.00m-17.00m ORANGE CLAY 17.00m-18.00m ORANGE FINE SILTY SAND	0.00m-12.00m INNER LINING - CASING = Pvc Class 9 12.00m-15.00m INNER LINING - SCREEN = Pvc Class 9 15.00m-18.00m INNER LINING - CASING = Pvc Class 9 10.00m-10.50m OUTER LINING - GRAVEL = Bentonite 10.50m-18.00m OUTER LINING - GRAVEL = Gravel	Date/time: 2023-05-09 1259 Quality: 43 WLMP: 7.99m DBNS: 8.04m RWL: 5.08mAHD		23/06/1994	1731 m	South East
WRK988325							1736 m	South
WRK961337							1786 m	South
WRK961334							1791 m	South
WRK062268	Observation	0.00m-0.30m FILL 0.30m-4.50m CLAY 4.50m-4.70m CALCRETE 4.70m-8.00m CLAY	0.00m-3.50m INNER LINING - CASING = Pvc 3.50m-8.00m INNER LINING - SCREEN = Pvc 0.00m-2.00m OUTER LINING - GRAVEL = Cement 2.00m-3.00m OUTER LINING - GRAVEL = Bentonite 3.00m-8.00m OUTER LINING - GRAVEL = Gravel		0.00m-3.50m Clay 3.50m-8.00m Clay	12/05/2011	1795 m	South
WRK988322	Groundwater Investigation	0.00m-1.00m FILL (DARK BROWN) 1.00m-3.00m CLAY (BROWN) 3.00m-11.00m CLAYEY SANDS (DARK GOLDEN COLOUR)	0.00m-0.30m OUTER LINING - GRAVEL = Cement 0.30m-6.50m OUTER LINING - GRAVEL = Bentonite 6.50m-7.50m OUTER LINING - GRAVEL = Bentonite 7.50m-11.00m OUTER LINING - GRAVEL = Gravel			10/10/2008	1797 m	South East
WRK961338							1811 m	South
WRK988323							1815 m	South
WRK961336							1820 m	South
WRK961335							1824 m	South

Bore Id	Use Type	Drillers Log	Construction	Latest Water Levels	Geology	Completed Date	Dist (m)	Dir
121453	Groundwater Investigation, Observation, State Observation Network	0.00m-1.00m DARK BROWN CLAY 1.00m-3.50m LIGHT GREY FINE SAND 3.50m-6.00m ORANGE SANDY CLAY WITH FINE TO MED QUARTZ & CALCAREOUS SAND 6.00m-8.00m FINE ORANGE SAND WITH MINOR CLAY	0.00m-4.50m INNER LINING - CASING = Pvc Class 9 4.50m-7.50m INNER LINING - SCREEN = Pvc Class 9 3.50m-4.00m OUTER LINING - GRAVEL = Bentonite 4.50m-7.00m OUTER LINING - GRAVEL = Gravel	Date/time: 2023-05-09 1243 Quality: 43 WLMP: 4.69m DBNS: 4.84m RWL: 19.61mAHD		22/06/1994	1883 m	South West
WRK982896							1962 m	East

Boreholes WMIS Data Custodian: State Government Victoria - Dept of Environment, Land, Water & Planning
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Groundwater Boreholes

60-62 Morgan Street, Norlane, VIC 3214

Boreholes (Earth Resources Database)

Boreholes from the Earth Resources dataset, within the dataset buffer:

Bore Id	Bore Type	Company	Usage	Method	Status	Drill Date	Depth	Elevation	Accuracy (m)	Dist (m)	Dir
N/A	No records in buffer										

Boreholes Earth Resources Data Source: © The State of Victoria, Department of Economic Development, Jobs, Transport and Resources 2015. Creative Commons Attribution 3.0 Australia

Boreholes (Federation University)

Boreholes from the Federation University Australia dataset, within the dataset buffer:

Bore Id	Authority	Type	Uses	Initial TD	Log	Dist (m)	Dir
S9037012/1		Groundwater				331m	West
S9036913/1		Groundwater				435m	South
S9037445/1		Groundwater				503m	South
S9037445/2		Groundwater				512m	South
81331	Victorian Mines Department (1909 - 1977)					557m	West
S61542/14		Groundwater				565m	South East
S61542/2		Groundwater				577m	South East
S61542/10		Groundwater				596m	South East
S61542/8		Groundwater				603m	South East
S61542/3		Groundwater				614m	South East
S61542/11		Groundwater				621m	South East
S61542/9		Groundwater				624m	South East
S61542/15		Groundwater				649m	South East
S61542/4		Groundwater				650m	South East
S61542/12		Groundwater				659m	South East
S9021708/2		Groundwater	Dewatering		D: 0.000m-1.000m Sandy Clay Fill D: 1.000m-5.000m Rubble In Sandy Clay D: 5.000m-7.500m Silty Grey Clay	673m	South East
S61542/18		Groundwater				676m	South East
S61542/7		Groundwater				685m	South East
S61542/16		Groundwater				687m	South East
S61542/5		Groundwater				689m	South East

Bore Id	Authority	Type	Uses	Initial TD	Log	Dist (m)	Dir
S61542/13		Groundwater				691m	South East
S9021707/1		Groundwater	Dewatering		D: 0.000m-1.000m Sandy Clay Fill D: 1.000m-5.000m Rubble In Sandy Clay D: 5.000m-7.500m Silty Grey Clay	692m	South East
S61542/19		Groundwater				696m	South East
S9033595/1		Groundwater				697m	South East
S9021699/1		Groundwater				743m	South East
S9021708/1		Groundwater				743m	South East
S9021725/1		Groundwater				743m	South East
S9021726/1		Groundwater				743m	South East
S9021727/1		Groundwater				743m	South East
S61542/6		Groundwater				761m	South East
S61542/17		Groundwater				799m	South East
121459	Rural Water Commission / Corporation (1984 - 1995)	Groundwater	Observation State Observation Network		D: 0.000m-3.000m Grey Fine To Medium Sand With Shells D: 3.000m-5.000m Black Medium Grained Sand With Some Shells D: 5.000m-5.500m Mottled Black Orange Clay With Adunbant Shells D: 5.500m-6.500m Brown Grey Silt	888m	South East
S9033415/1		Groundwater	Groundwater Investigation			896m	East
GMS-1617		Groundwater				909m	South
GMS-1616		Groundwater				965m	South
S9029283/1	Private Landholders Bore	Groundwater				1005 m	East
142883		Groundwater	Investigation		D: 0.000m-0.300m Asphalt D: 0.300m-0.600m Fill D: 0.600m-1.000m Silt D: 1.000m-3.000m Silty Sand D: 3.000m-4.500m Silt D: 4.500m-7.500m Clayey Silt D: 7.500m-8.000m Silt With Some Clay	1034 m	South
142884		Groundwater	Investigation		D: 0.000m-0.200m Asphalt D: 0.200m-0.500m Fill D: 0.500m-1.000m Clayey Silt D: 1.000m-2.000m Silty Sand D: 2.000m-3.000m Sandy Silt D: 3.000m-4.500m Silt Some Clay D: 4.500m-7.000m Clayey Silt D: 7.000m-8.000m Silty Clay	1034 m	South
142886		Groundwater	Investigation		D: 0.000m-0.200m Asphalt D: 0.200m-0.600m Fill D: 0.600m-1.000m Silt D: 1.000m-2.000m Silty Sand D: 2.000m-4.500m Silt Medium Clay D: 4.500m-6.000m Clayey Silt D: 6.000m-7.500m Silty Clay	1034 m	South
GMS-1614		Groundwater				1051 m	South
GMS-1615		Groundwater				1077 m	South
GMS-1613		Groundwater				1204 m	South
S9036003/3		Groundwater				1714 m	South

Bore Id	Authority	Type	Uses	Initial TD	Log	Dist (m)	Dir
121458	Rural Water Commission / Corporation (1984 - 1995)	Groundwater	Observation State Observation Network		D: 0.000m-2.000m Brown Silt D: 2.000m-6.000m Orange Fine To Medium Calcareous Sand With Minor C D: 6.000m-7.000m Fine Yellow Sand With Hard Cemented Bands D: 7.000m-10.000m Orange Silty Clay With Minor Fine Sand D: 10.000m-12.000m Orange Fine Sand With Hard Cemented Bands D: 12.000m-16.000m Orange Fine Sandy Silt With Thin Sand And Clay Ban D: 16.000m-17.000m Orange Clay D: 17.000m-18.000m Orange Fine Silty Sand	1731 m	South East
S9036003/4		Groundwater				1736 m	South
S61563/4		Groundwater				1786 m	South
S61563/1		Groundwater				1791 m	South
S9036003/1		Groundwater	Groundwater Investigation		D: 0.000m-1.000m Fill (Dark Brown) D: 1.000m-3.000m Clay (Brown) D: 3.000m-11.000m Clayey Sands (Dark Golden Colour)	1797 m	South East
S61563/5		Groundwater				1811m	South
S9036003/2		Groundwater				1815 m	South
S61563/3		Groundwater				1820 m	South
S61563/2		Groundwater				1824 m	South
121453	Rural Water Commission / Corporation (1984 - 1995)	Groundwater	Investigation Observation		D: 0.000m-1.000m Dark Brown Clay D: 1.000m-3.500m Light Grey Fine Sand D: 3.500m-6.000m Orange Sandy Clay With Fine To Med Quartz & Calcar D: 6.000m-8.000m Fine Orange Sand With Minor Clay	1883 m	South West
S9032317/1	Private Landholders Bore	Groundwater				1962 m	East

Boreholes FedUni Data Source: © Federation University Australia

Historical Mining Activity - Shafts

60-62 Morgan Street, Norlane, VIC 3214

Historical Mining Activity - Shafts

Mine Shaft Locations were collected by a variety of methods from 1869 in some areas of the state, mainly concentrating in Ballarat and Bendigo. In places a shaft may be recorded multiple times with a different source. In cases where several shaft locations are shown close together (generally with separations less than stated position errors) and they have different sources, it is possible that one shaft has been mapped several times. In cases where several shaft locations are shown close together but they have the same information source, it is possible that each shaft location represents a different shaft on the ground.

Historical Mine Shafts within the dataset buffer:

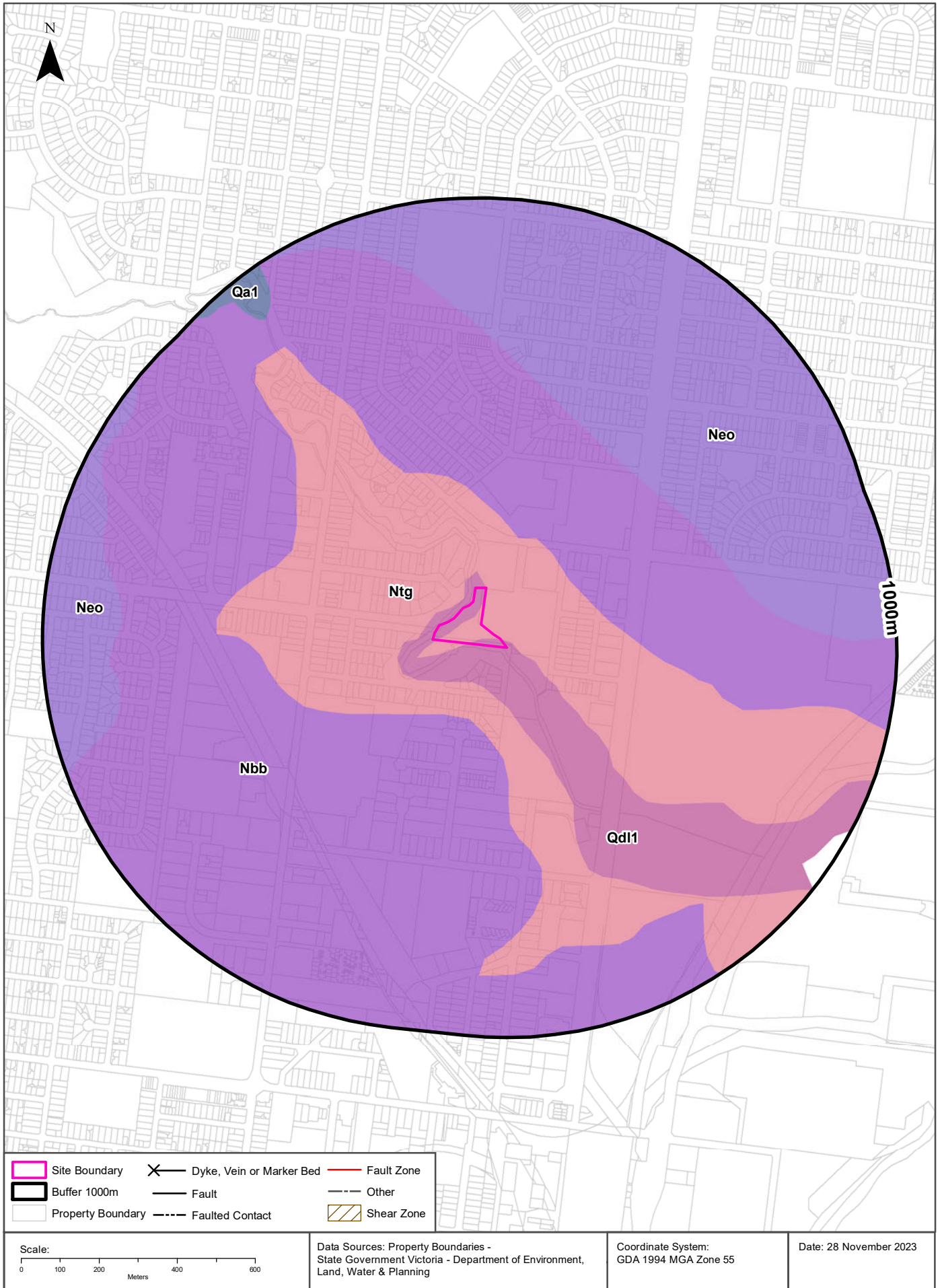
Map Id	Name	Source	Depth (m)	Collar (ft)	Fill/Cap Method	Location Desc	Location Accuracy	Distance	Direction
N/A	No records in buffer								

Historical Mining Activity Data Custodian: State Government Victoria - Dept of Economic Development, Jobs, Transport & Resources

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Geology

60-62 Morgan Street, Norlane, VIC 3214



Geology

60-62 Morgan Street, Norlane, VIC 3214

Geological Units 1:50,000

What are the Geological Units within the dataset buffer?

Symbol	Name	Description	Geological Age	Lithology	Distance	Direction
Qdl1	coastal dune deposits (Qdl1): generic	Sand, silt, clay: well sorted, poorly consolidated; coastal dune and beach deposits, some swamp deposits	Holocene to Holocene	sand (significant); silt material (significant); clay lithology (significant)	0m	On-site
Ntg	Gellibrand Marl (Ntg): Gellibrand Marl in Torquay Group	Marl, mudstone, sandstone, calcarenite, minor lignite, ligneous clay: marl blue-green and yellow; abundant carbonate nodules; contains shelly fossils and microfossils; lignite dark brown; contains spores and pollen	Miocene to Miocene	marlstone (significant); siltstone (significant); sandstone (subordinate); limestone (subordinate)	0m	On-site
Nbb	Black Rock Sandstone (Nbb): generic	Sand, sandstone, conglomerate, minor sandy limestone, local ironstone: pale to dark brown, reddish brown; generally very well sorted, variably cemented; horizontally laminated to low-angle cross-laminated; glauconitic; contains shelly fossils and burrows	Miocene to Pliocene	conglomerate (significant); sandstone (significant); sand (significant); limestone (minor proportion)	151m	South West
Neo	Newer Volcanic Group - basalt flows (Neo): generic	Olivine tholeiite, quartz tholeiite, basanite, basaltic icelandite, hawaiite, mugearite, minor scoria and ash, fluvial sediments: tholeiitic to alkaline; includes sheet flows and valley flows and intercalated gravel, sand, clay	Miocene to Holocene	alkali basalt (major proportion); tholeiitic basalt (major proportion); alluvium (minor proportion); tuff (minor proportion)	467m	North East
Qa1	alluvium(Qa1): generic	Gravel, sand, silt: variably sorted and rounded; generally unconsolidated; includes deposits of low terraces; alluvial floodplain deposits	Pleistocene to Holocene	gravel material (significant); sand (significant); silt material (significant)	873m	North West

Geology Data Custodian: State Government Victoria - Dept of Economic Development, Jobs, Transport & Resources
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Geology

60-62 Morgan Street, Norlane, VIC 3214

Geological Structures 1:50,000

What are the Geological Faults or Faulted Contacts within the dataset buffer?

Map Id	Type	Name	Contact	Positional Accuracy	Distance	Direction
N/A	No records in buffer					

What are the Dykes, Marker Beds and Veins within the dataset buffer?

Map Id	Type	Name	Description	Positional Accuracy	Distance	Direction
N/A	No records in buffer					

Geological Structures 1:250,000

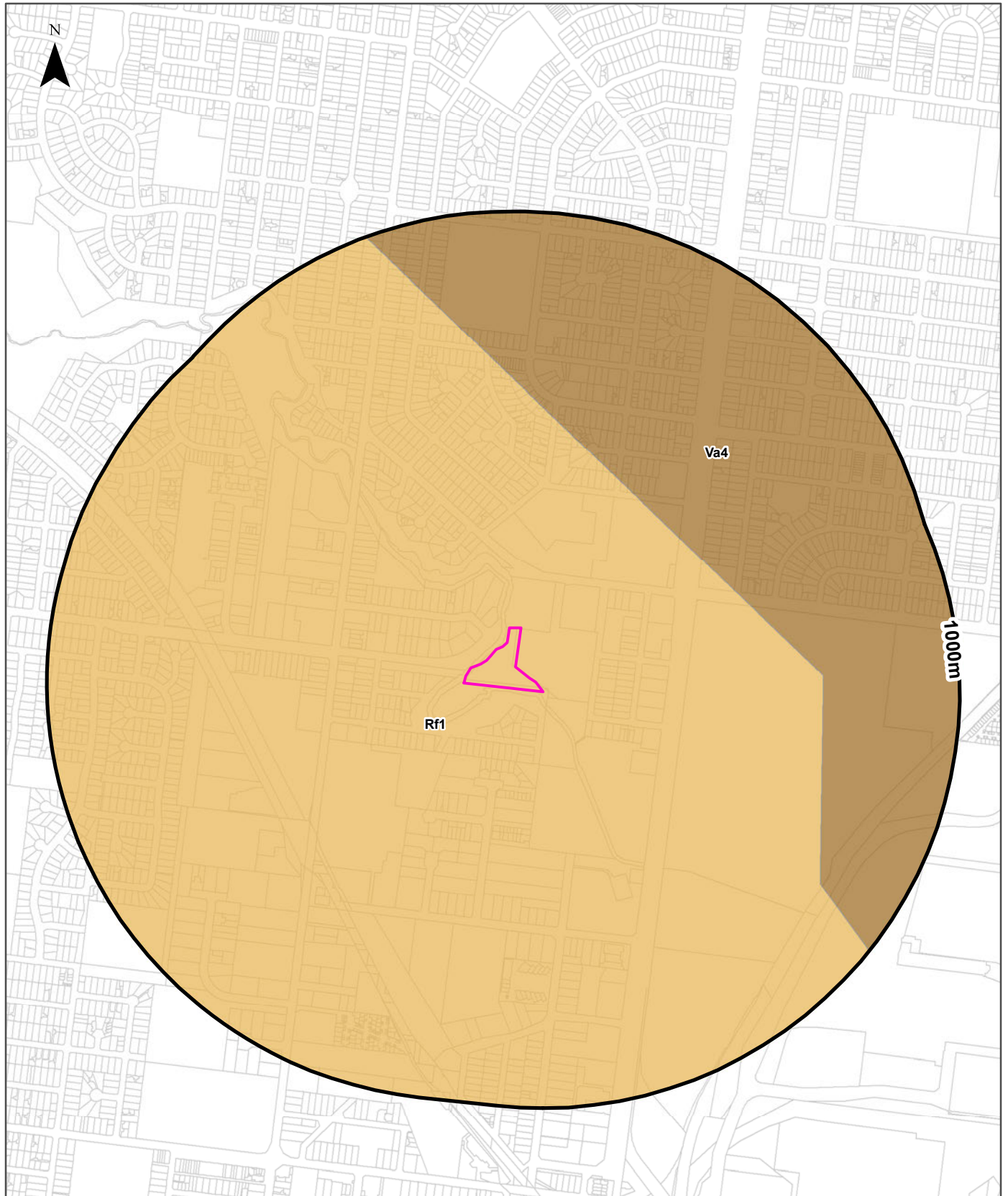
What are the Shear Zones within the dataset buffer?

Map Id	Type	Name	Description	Positional Accuracy	Distance	Direction
N/A	No records in buffer					

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Atlas of Australian Soils

60-62 Morgan Street, Norlane, VIC 3214



Legend		Australian Soil Classification Orders					
Site Boundary	Anthrosol	Dermosol	Kandosol	Podosol	Tenosol	No Data	
Buffer 1000m	Calcarosol	Ferrosol	Kurosol	Rudosol	Vertosol		
Property Boundary	Chromosol	Hydrosol	Organosol	Sodosol	Lake		
Scale: 		Data Sources: Property Boundaries - State Government Victoria - Department of Environment, Land, Water & Planning		Coordinate System: GDA 1994 MGA Zone 55		Date: 28 November 2023	

Soils

60-62 Morgan Street, Norlane, VIC 3214

Atlas of Australian Soils

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

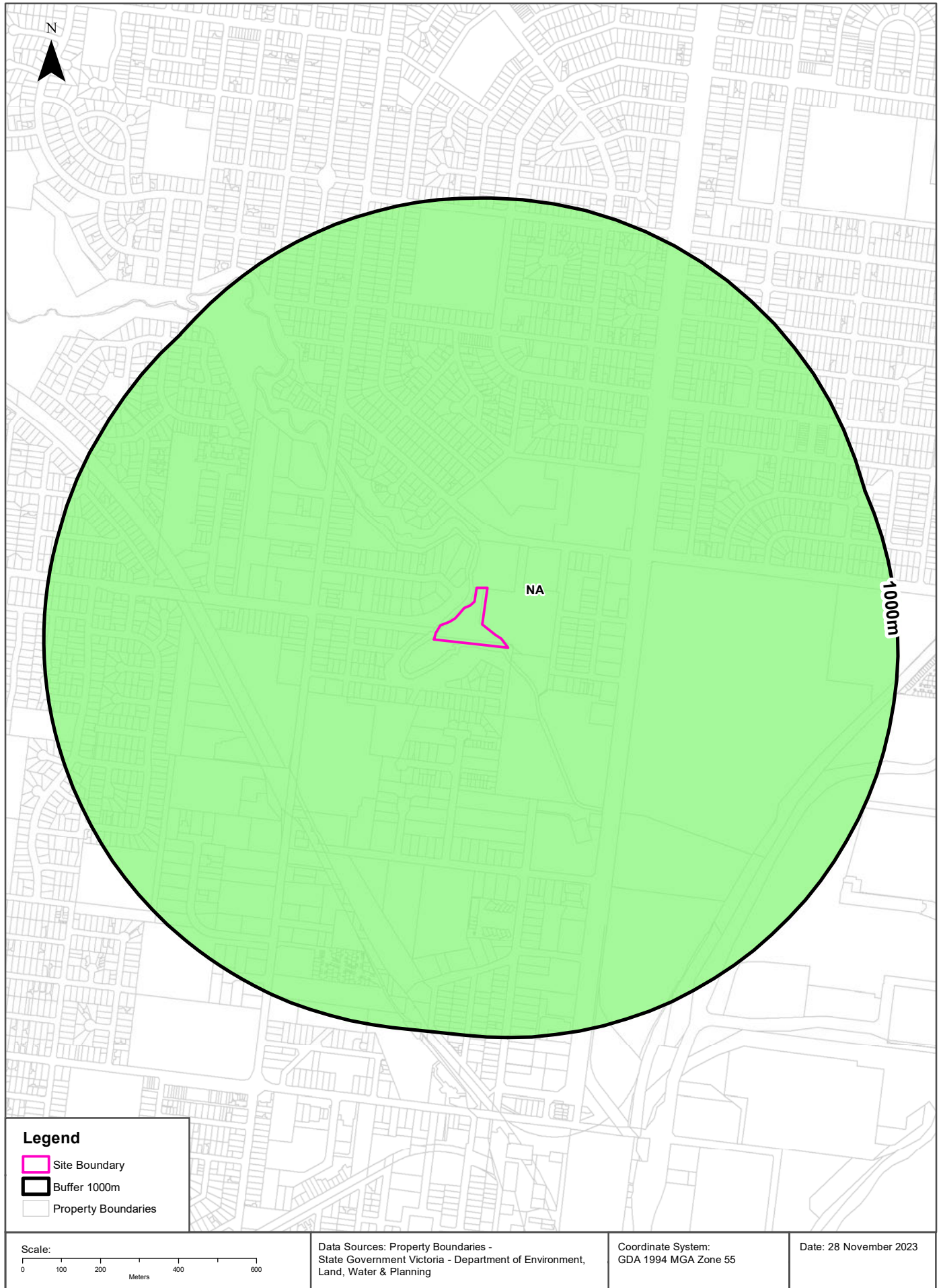
Map Unit Code	Soil Order	Map Unit Description	Distance	Direction
Rf1	Chromosol	Undulating plateaux with major steps in them: plains of hard alkaline brown soils (Db1.13) with hard alkaline dark soils (Dd1.13), and also hard alkaline yellow mottled soils (Dy3.13) with cracking clays (Ug5.2) in gilgai microassociation; hard alkaline red soils (Dr2.13) on the slopes (steps) between the different plateau levels.	0m	On-site
Va4	Sodosol	Undulating outwash plains: hard alkaline yellow mottled soils (Dy3.43) and (Dy5.43) with smaller areas of (Dr2.33) shallow forms (Um6), (Uc6.11), and (Gc1.12).	418m	North East

Atlas of Australian Soils Data Source: CSIRO

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Victorian Soil Type Mapping

60-62 Morgan Street, Norlane, VIC 3214



Soils

60-62 Morgan Street, Norlane, VIC 3214

Victorian Soil Type Mapping

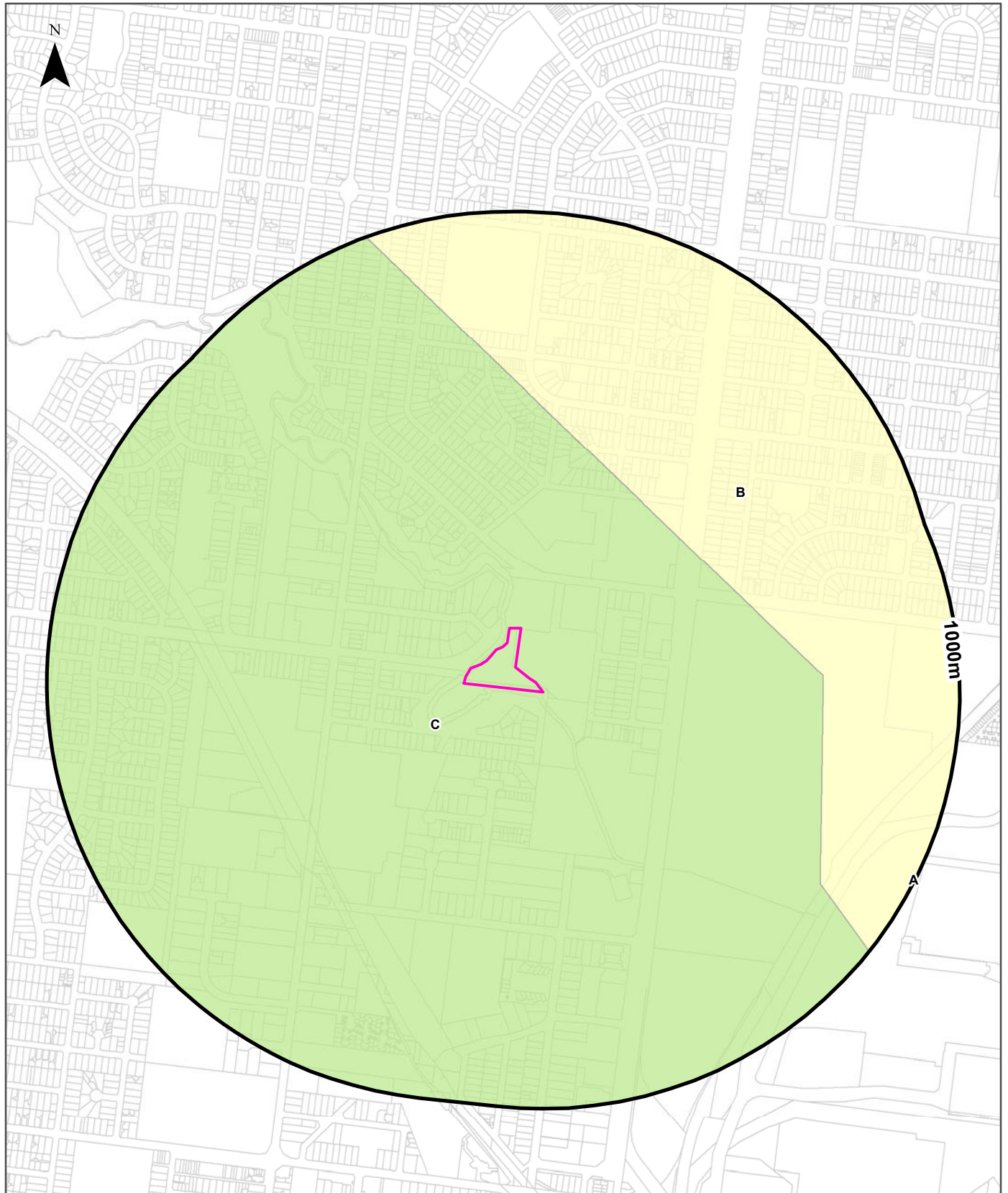
Victorian Soil Types within the dataset buffer:

Symbol	Description	Distance	Direction
NA	Unassigned	0m	On-site

Victorian Soil Type Mapping Data Source: Department of Economic Development, Jobs, Transport and Resources
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Atlas of Australian Acid Sulfate Soils

60-62 Morgan Street, Norlane, VIC 3214



Legend Site Boundary Buffer 1000m Property Boundary		Probability of occurrence of Acid Sulfate Soils A. High (>70%) B. Low (6-70%) C. Extremely Low (1-5%) D. No Chance (0%) No Data	
Scale: 0 100 200 400 600 Meters		Data Sources: Property Boundaries & Topographic Data: State of Victoria - Department of Environment and Primary Industries	Coordinate System: GDA 1994 MGA Zone 55
			Date: 28 November 2023

Acid Sulfate Soils

60-62 Morgan Street, Norlane, VIC 3214

Atlas of Australian Acid Sulfate Soils

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

Class	Description	Distance	Direction
C	Extremely low probability of occurrence. 1-5% chance of occurrence with occurrences in small localised areas.	0m	On-site
B	Low Probability of occurrence. 6-70% chance of occurrence.	418m	North East
A	High Probability of occurrence. >70% chance of occurrence.	995m	South East

Atlas of Australian Acid Sulfate Soils Data Source: CSIRO

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Acid Sulfate Soils

60-62 Morgan Street, Norlane, VIC 3214

Coastal Acid Sulfate Soils

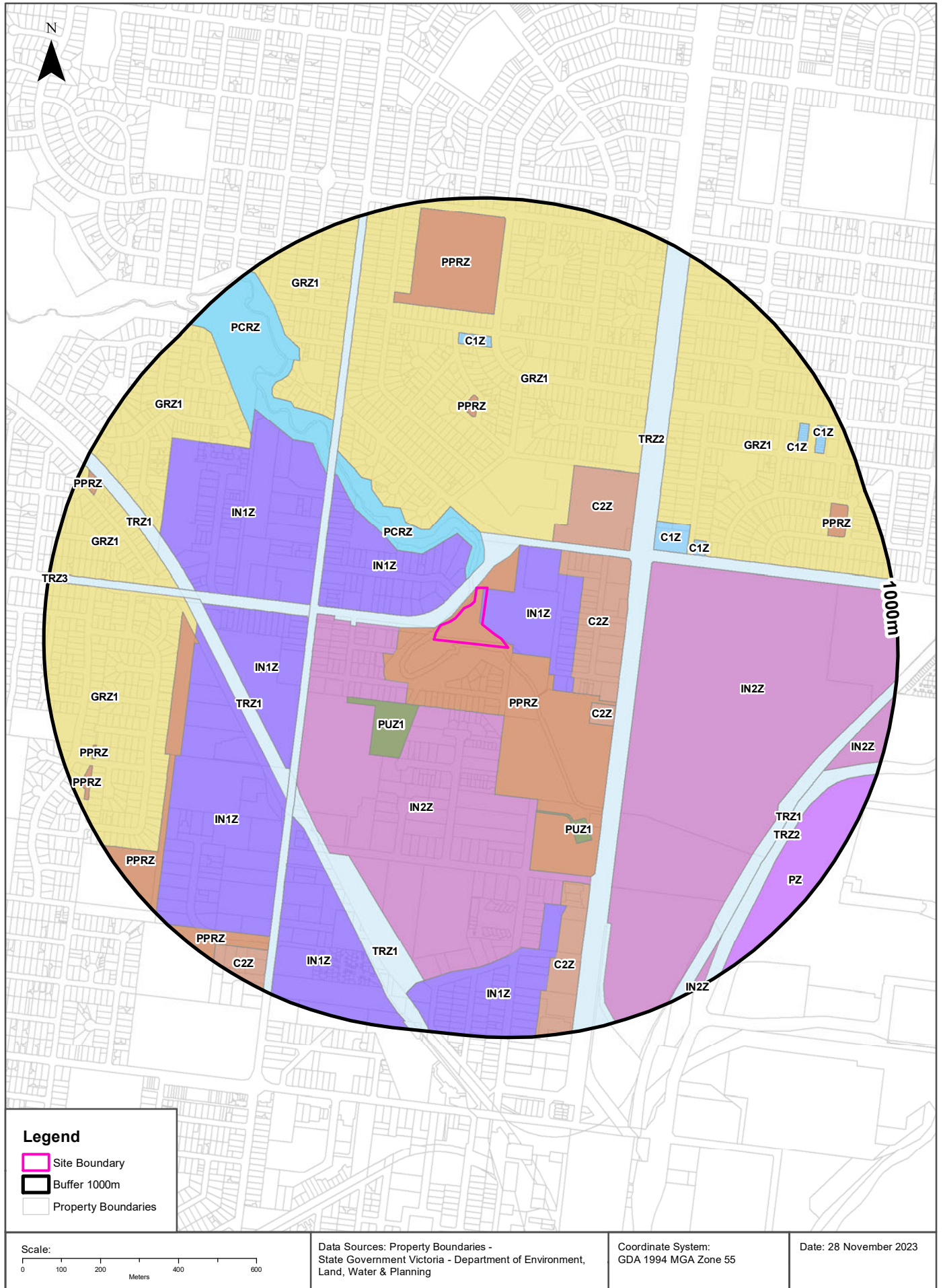
Coastal Acid Sulfate Soil types within the dataset buffer:

Coastal Acid Sulfate Soil Types	Distance	Direction
No records in buffer		

Coastal Acid Sulfate Data Custodian: State Government Victoria - Dept of Environment, Land, Water & Planning
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Planning Zones

60-62 Morgan Street, Norlane, VIC 3214



Planning

60-62 Morgan Street, Norlane, VIC 3214

Planning Zones

Planning zones within the dataset buffer:

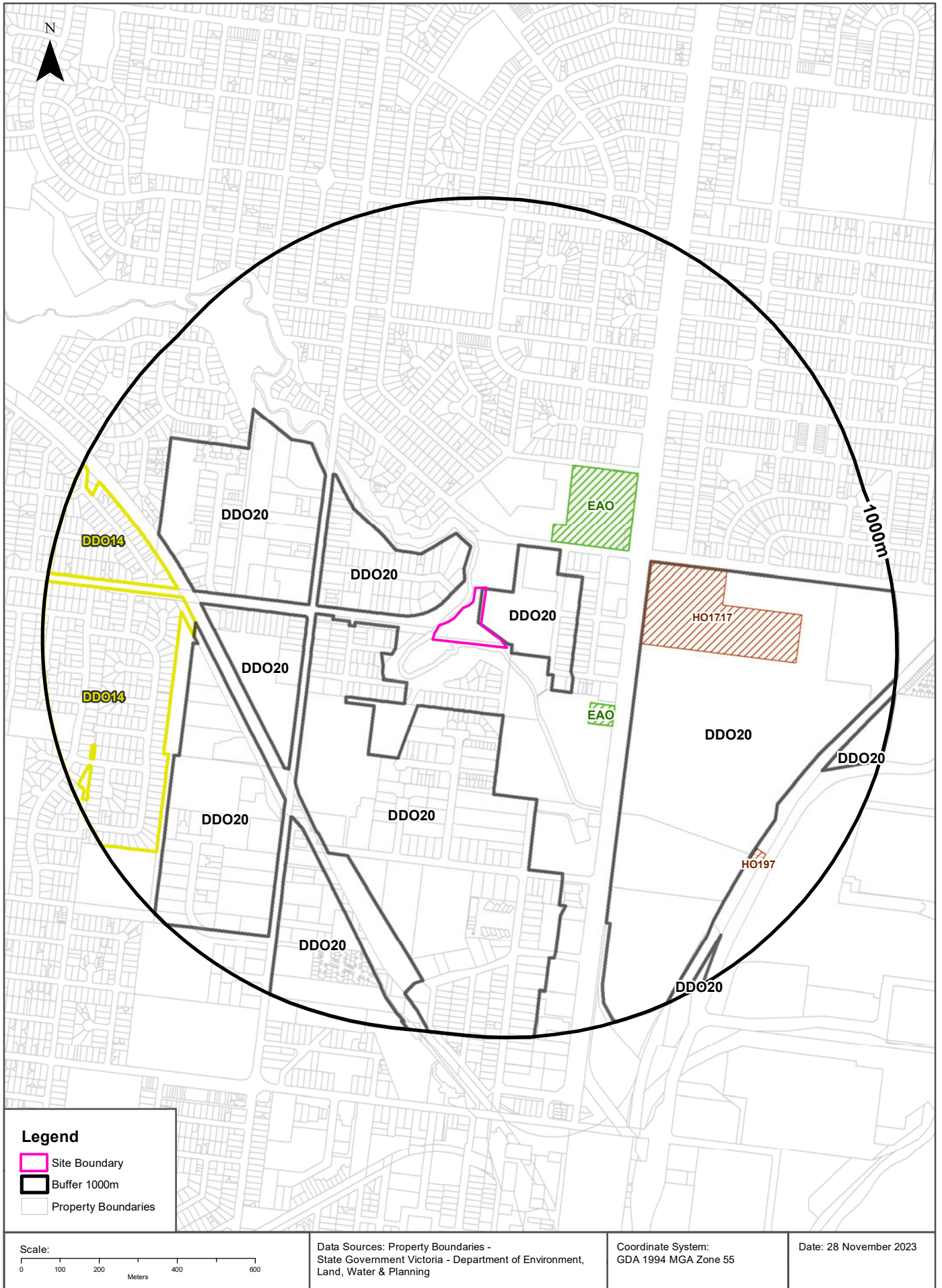
Zone Code	Description	Distance	Direction
PPRZ	PUBLIC PARK AND RECREATION ZONE	0m	On-site
IN1Z	INDUSTRIAL 1 ZONE	0m	On-site
TRZ2	TRANSPORT ZONE 2 - PRINCIPAL ROAD NETWORK	3m	East
PCRZ	PUBLIC CONSERVATION AND RESOURCE ZONE	34m	North West
IN1Z	INDUSTRIAL 1 ZONE	35m	North West
IN2Z	INDUSTRIAL 2 ZONE	93m	South
GRZ1	GENERAL RESIDENTIAL ZONE - SCHEDULE 1	139m	North
C2Z	COMMERCIAL 2 ZONE	169m	East
PUZ1	PUBLIC USE ZONE - SERVICE AND UTILITY	173m	South West
C2Z	COMMERCIAL 2 ZONE	204m	North East
C2Z	COMMERCIAL 2 ZONE	256m	South East
IN1Z	INDUSTRIAL 1 ZONE	326m	West
TRZ3	TRANSPORT ZONE 3 - SIGNIFICANT MUNICIPAL ROAD	327m	West
IN1Z	INDUSTRIAL 1 ZONE	330m	North West
IN2Z	INDUSTRIAL 2 ZONE	338m	South East
PUZ1	PUBLIC USE ZONE - SERVICE AND UTILITY	422m	South East
C1Z	COMMERCIAL 1 ZONE	435m	North East
PPRZ	PUBLIC PARK AND RECREATION ZONE	440m	North
GRZ1	GENERAL RESIDENTIAL ZONE - SCHEDULE 1	467m	North East
PCRZ	PUBLIC CONSERVATION AND RESOURCE ZONE	483m	North West
TRZ1	TRANSPORT ZONE 1 - STATE TRANSPORT INFRASTRUCTURE	489m	West
TRZ1	TRANSPORT ZONE 1 - STATE TRANSPORT INFRASTRUCTURE	509m	South
IN1Z	INDUSTRIAL 1 ZONE	523m	South West
C1Z	COMMERCIAL 1 ZONE	531m	East
GRZ1	GENERAL RESIDENTIAL ZONE - SCHEDULE 1	567m	North West
IN1Z	INDUSTRIAL 1 ZONE	581m	South West
PPRZ	PUBLIC PARK AND RECREATION ZONE	603m	South West
GRZ1	GENERAL RESIDENTIAL ZONE - SCHEDULE 1	609m	West
C2Z	COMMERCIAL 2 ZONE	615m	South
C1Z	COMMERCIAL 1 ZONE	616m	North
TRZ1	TRANSPORT ZONE 1 - STATE TRANSPORT INFRASTRUCTURE	625m	West
IN1Z	INDUSTRIAL 1 ZONE	662m	South

Zone Code	Description	Distance	Direction
GRZ1	GENERAL RESIDENTIAL ZONE - SCHEDULE 1	667m	West
GRZ1	GENERAL RESIDENTIAL ZONE - SCHEDULE 1	667m	North West
PPRZ	PUBLIC PARK AND RECREATION ZONE	703m	North
TRZ1	TRANSPORT ZONE 1 - STATE TRANSPORT INFRASTRUCTURE	799m	South East
PPRZ	PUBLIC PARK AND RECREATION ZONE	866m	East
C1Z	COMMERCIAL 1 ZONE	867m	North East
IN2Z	INDUSTRIAL 2 ZONE	867m	East
PZ	PORT ZONE	867m	South East
C2Z	COMMERCIAL 2 ZONE	905m	South West
C1Z	COMMERCIAL 1 ZONE	906m	North East
PPRZ	PUBLIC PARK AND RECREATION ZONE	907m	West
IN2Z	INDUSTRIAL 2 ZONE	918m	South East
PPRZ	PUBLIC PARK AND RECREATION ZONE	934m	West
PPRZ	PUBLIC PARK AND RECREATION ZONE	944m	West

Planning Zone Data Custodian: State Government Victoria - Dept of Environment, Land, Water & Planning
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Planning Overlays

60-62 Morgan Street, Norlane, VIC 3214



Planning

60-62 Morgan Street, Norlane, VIC 3214

Planning Overlays

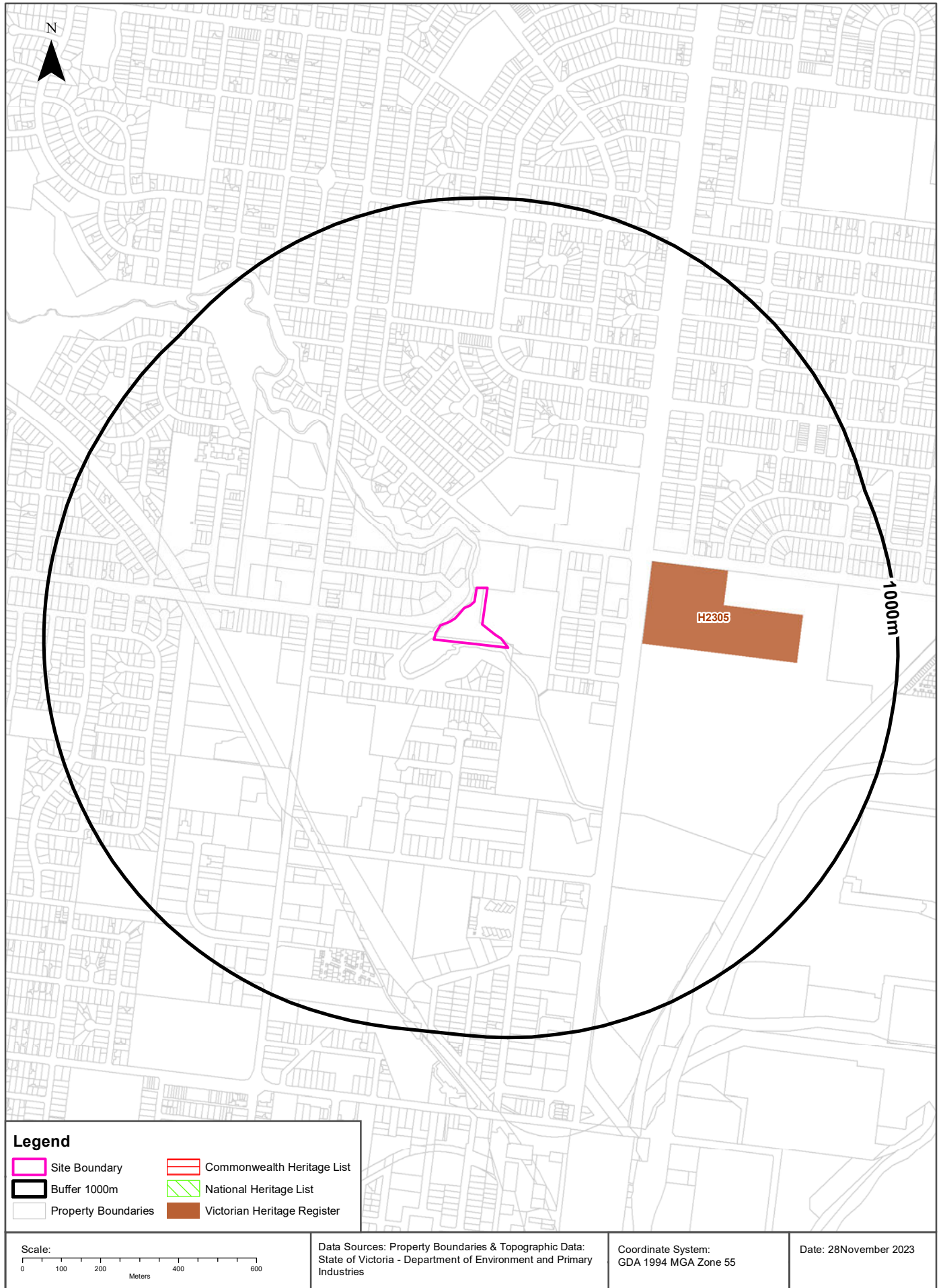
Planning overlays within the dataset buffer:

Zone Code	Description	Distance	Direction
DDO20	DESIGN AND DEVELOPMENT OVERLAY - SCHEDULE 20	0m	On-site
DDO20	DESIGN AND DEVELOPMENT OVERLAY - SCHEDULE 20	35m	North West
DDO20	DESIGN AND DEVELOPMENT OVERLAY - SCHEDULE 20	93m	South
EAO	ENVIRONMENTAL AUDIT OVERLAY	204m	North East
EAO	ENVIRONMENTAL AUDIT OVERLAY	256m	South East
DDO20	DESIGN AND DEVELOPMENT OVERLAY - SCHEDULE 20	326m	West
DDO20	DESIGN AND DEVELOPMENT OVERLAY - SCHEDULE 20	330m	North West
DDO20	DESIGN AND DEVELOPMENT OVERLAY - SCHEDULE 20	338m	South East
HO1717	HERITAGE OVERLAY (HO1717)	342m	East
DDO20	DESIGN AND DEVELOPMENT OVERLAY - SCHEDULE 20	523m	South West
DDO20	DESIGN AND DEVELOPMENT OVERLAY - SCHEDULE 20	581m	South West
DDO14	DESIGN AND DEVELOPMENT OVERLAY - SCHEDULE 14	609m	West
DDO14	DESIGN AND DEVELOPMENT OVERLAY - SCHEDULE 14	667m	West
HO197	HERITAGE OVERLAY (HO197)	821m	South East
DDO20	DESIGN AND DEVELOPMENT OVERLAY - SCHEDULE 20	867m	East
DDO20	DESIGN AND DEVELOPMENT OVERLAY - SCHEDULE 20	918m	South East

Planning Overlay Data Custodian: State Government Victoria - Dept of Environment, Land, Water & Planning
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Heritage

60-62 Morgan Street, Norlane, VIC 3214



Heritage

60-62 Morgan Street, Norlane, VIC 3214

Commonwealth Heritage List

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

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

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

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

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

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

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

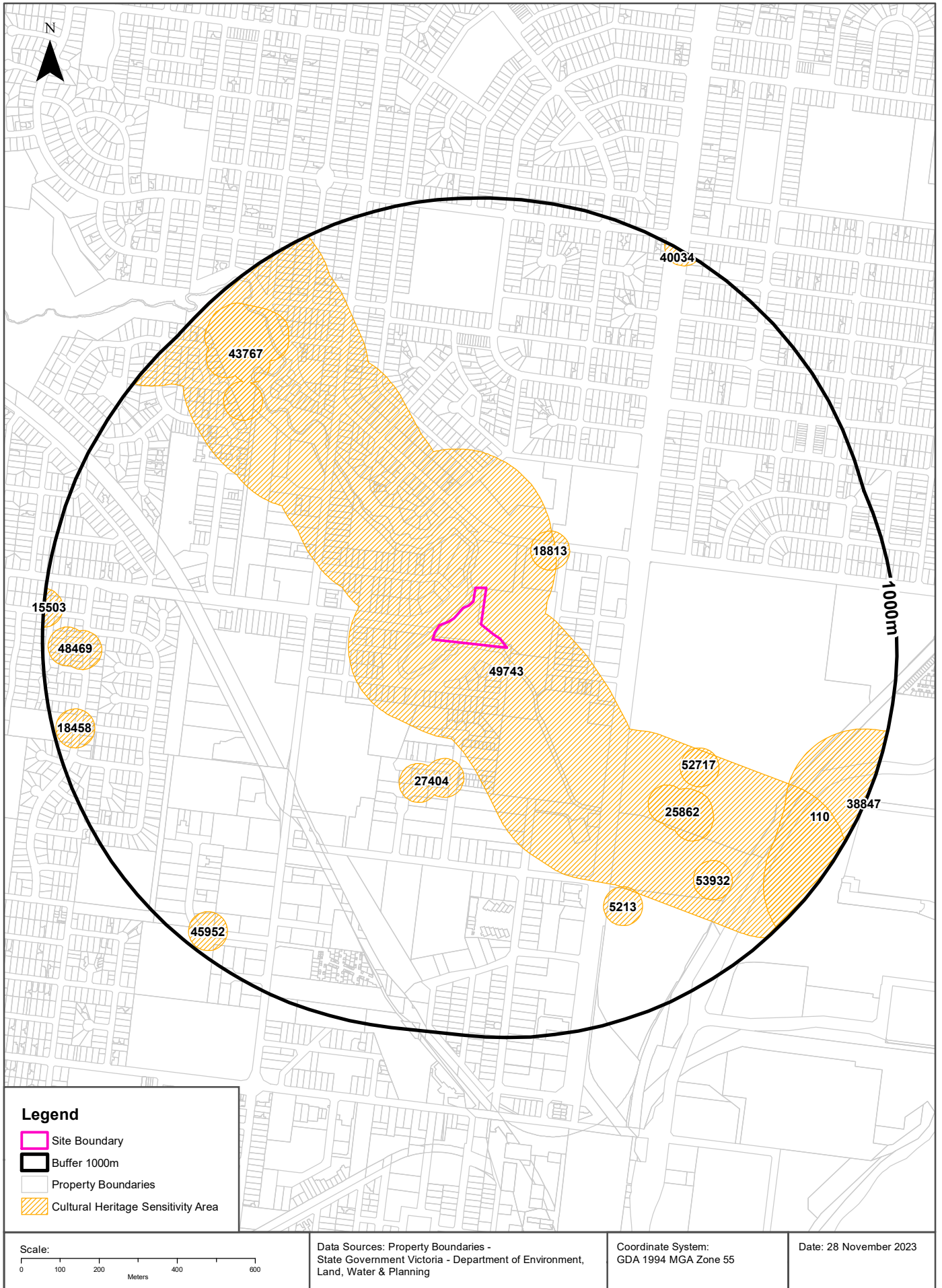
What are the Victorian Heritage Register items located within the dataset buffer?:

VHR Number	Description	Distance	Direction
H2305	FORD MOTOR COMPANY COMPLEX	343m	East

Victorian Heritage Register Data Custodian: State Government Victoria - Dept of Environment, Land, Water & Planning
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Cultural Heritage Sensitivity

60-62 Morgan Street, Norlane, VIC 3214



Heritage

60-62 Morgan Street, Norlane, VIC 3214

Cultural Heritage Sensitivity

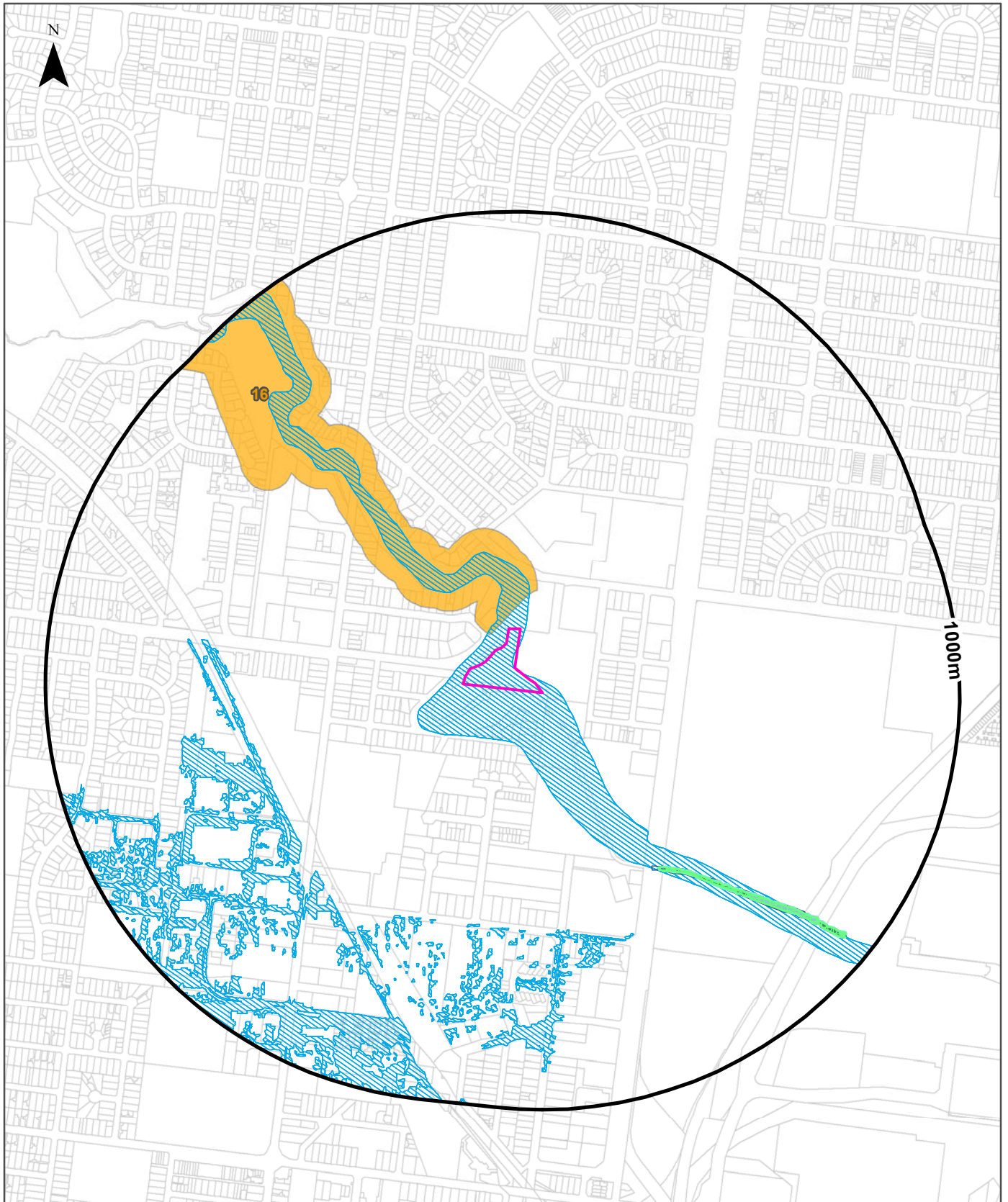
Areas of Cultural Heritage Sensitivity as specified in Division 3 of Part 2 in the Victorian Aboriginal Heritage Regulations 2018, within the dataset buffer:

Map Id	Distance	Direction
49743	0m	On-site
18813	140m	North East
27404	299m	South
25862	526m	South East
52717	532m	South East
5213	677m	South East
43767	714m	North West
53932	747m	South East
110	801m	South East
48469	848m	West
18458	894m	West
45952	894m	South West
15503	951m	West
40034	962m	North East
38847	997m	South East

Cultural Heritage Sensitivity Data Custodian: State Government Victoria - Department of Premier and Cabinet
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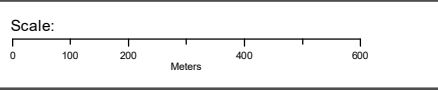
Natural Hazards

60-62 Morgan Street, Norlane, VIC 3214



Legend

- Site Boundary
- Buffer 1000m
- Property Boundaries
- Flood 1 in 100 Year Extent
- Fire History Records
- Designated Bushfire Prone Area
- Sea Level 0cm (2009)
- Sea Level 47cm (2070)
- 1 in 100 Year Storm Tide (2009)
- 1 in 100 Year Storm Tide (2070)
- Sea Level 20cm (2040)
- Sea Level 82cm (2100)
- 1 in 100 Year Storm Tide (2040)
- 1 in 100 Year Storm Tide (2100)



Data Sources: Property Boundaries - State Government Victoria - Department of Environment, Land, Water & Planning

Coordinate System: GDA 1994 MGA Zone 55

Date: 28 November 2023

Natural Hazards

60-62 Morgan Street, Norlane, VIC 3214

Bushfire Prone Areas

What are the designated bushfire prone areas within the dataset buffer?

Map ID	Feature	Plan No	LGA	Gazetted Date	Distance	Direction
16	Designated Bushfire Prone Area	LEGL./23-155	GREATER GEELONG	20/04/2023	23m	North West

Bushfire Prone Area Data Custodian: State Government Victoria - Dept of Transport, Planning & Local Infrastructure
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Fire History

What are the fire history records of fires primarily on public land, within the dataset buffer?

Map Id	Fire Type	Fire Key	Season	Fire No	Fire Name	Treatment	Fire Cover	Start Date	Dist (m)	Direction
N/A	No records in buffer									

Fire History Data Custodian: State Government Victoria - Dept of Environment, Land, Water & Planning
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Flood - 1 in 100 year modelled flood extent

What 1 in 100 year flood extent features exist within the dataset buffer?

Feature	Source	Method	Scale	Modified Date	Distance	Direction
100 Year Flood Outline	Unknown	Little info available		01/01/2000	0m	On-site
100 Year Flood Outline	City of Greater Geelong	Modelled		18/06/2012	516m	South West

Flood Data Custodian: State Government Victoria - Dept of Environment, Land, Water & Planning
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Natural Hazards

60-62 Morgan Street, Norlane, VIC 3214

Victorian Coastal Inundation Sea Level Rise

What coastal inundation sea level rise features exist within the dataset buffer?

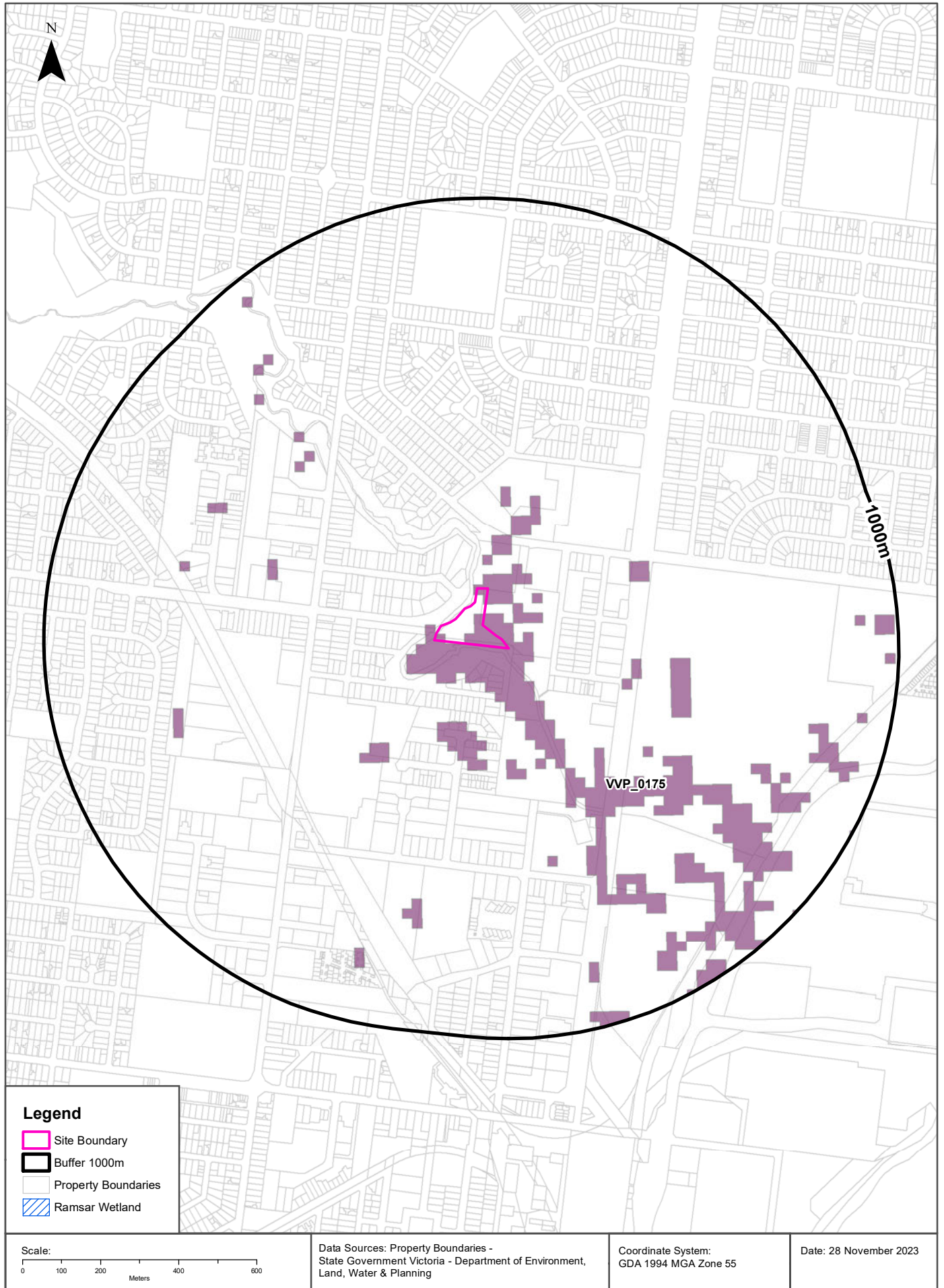
Description	Distance	Direction
Inundation to 1-in-100 year storm tide level with storm surge increased by 19% plus 82 cm sea level rise (2100)	491m	South East
Inundation to 1-in-100 year storm tide level with storm surge increased by 13% plus 47 cm sea level rise (2070)	503m	South East
Inundation to 1-in-100 year storm tide level with storm surge increased by 6% plus 20 cm sea level rise (2040)	503m	South East
Projected 82cm sea level rise by 2100	503m	South East
Current (2009) inundation to 1-in-100 year storm tide level	505m	South East
Projected 47cm sea level rise by 2070	520m	South East
Projected 20cm sea level rise by 2040	694m	South East

Victorian Coastal Inundation Sea Level Rise Data Custodian: State Government Victoria - Dept of Environment, Land, Water & Planning

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Ecological Constraints - Native Vegetation 2005 & Ramsar Wetlands

60-62 Morgan Street, Norlane, VIC 3214



Ecological Constraints

60-62 Morgan Street, Norlane, VIC 3214

Native Vegetation (Modelled 2005 Ecological Vegetation Classes)

What native vegetation exists within the dataset buffer?

Veg Code	EVC Name	EVCode	Group	Subgroup	Bioregion	Conservation Status	Geographic Occurance	Dist	Dir
VVP_0175	Grassy Woodland	0175	Lower Slopes or Hills Woodlands	Grassy	Victorian Volcanic Plain	Endangered	Common	0m	On-site

Native Vegetation Data Custodian: State Government Victoria - Dept of Environment, Land, Water & Planning
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Ramsar Wetlands

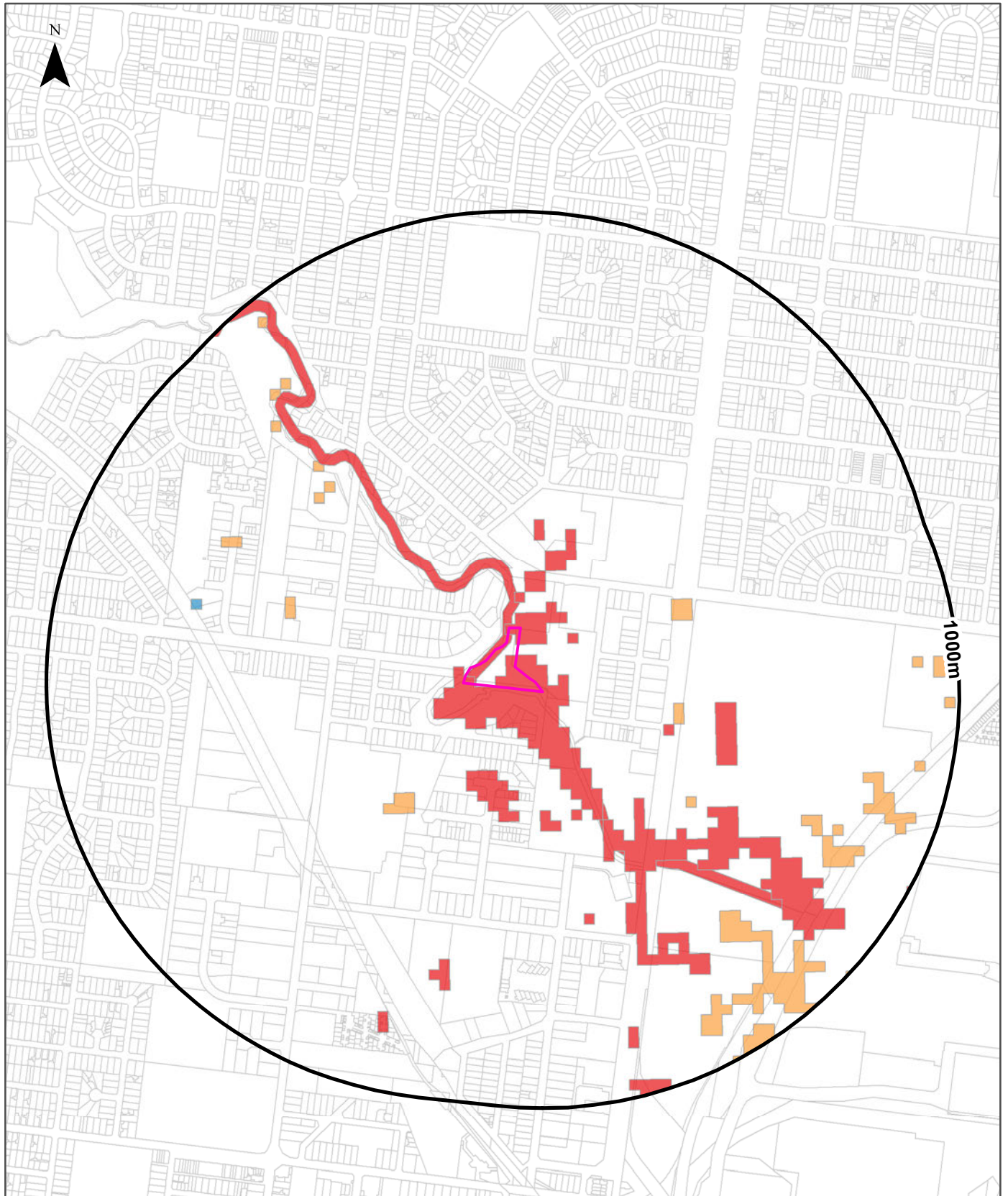
What Ramsar wetland areas exist within the dataset buffer?

Map ID	Site Name	Lake Name	Distance	Direction
N/A	No records in buffer			

Ramsar Wetland Area Data Custodian: State Government Victoria - Dept of Environment, Land, Water & Planning
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Ecological Constraints - Groundwater Dependent Ecosystems Atlas

60-62 Morgan Street, Norlane, VIC 3214



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

<p>Scale:</p>	<p>Data Sources: Property Boundaries - State Government Victoria - Department of Environment, Land, Water & Planning</p>	<p>Coordinate System: GDA 1994 MGA Zone 55</p>	<p>Date: 28 November 2023</p>
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Ecological Constraints

60-62 Morgan Street, Norlane, VIC 3214

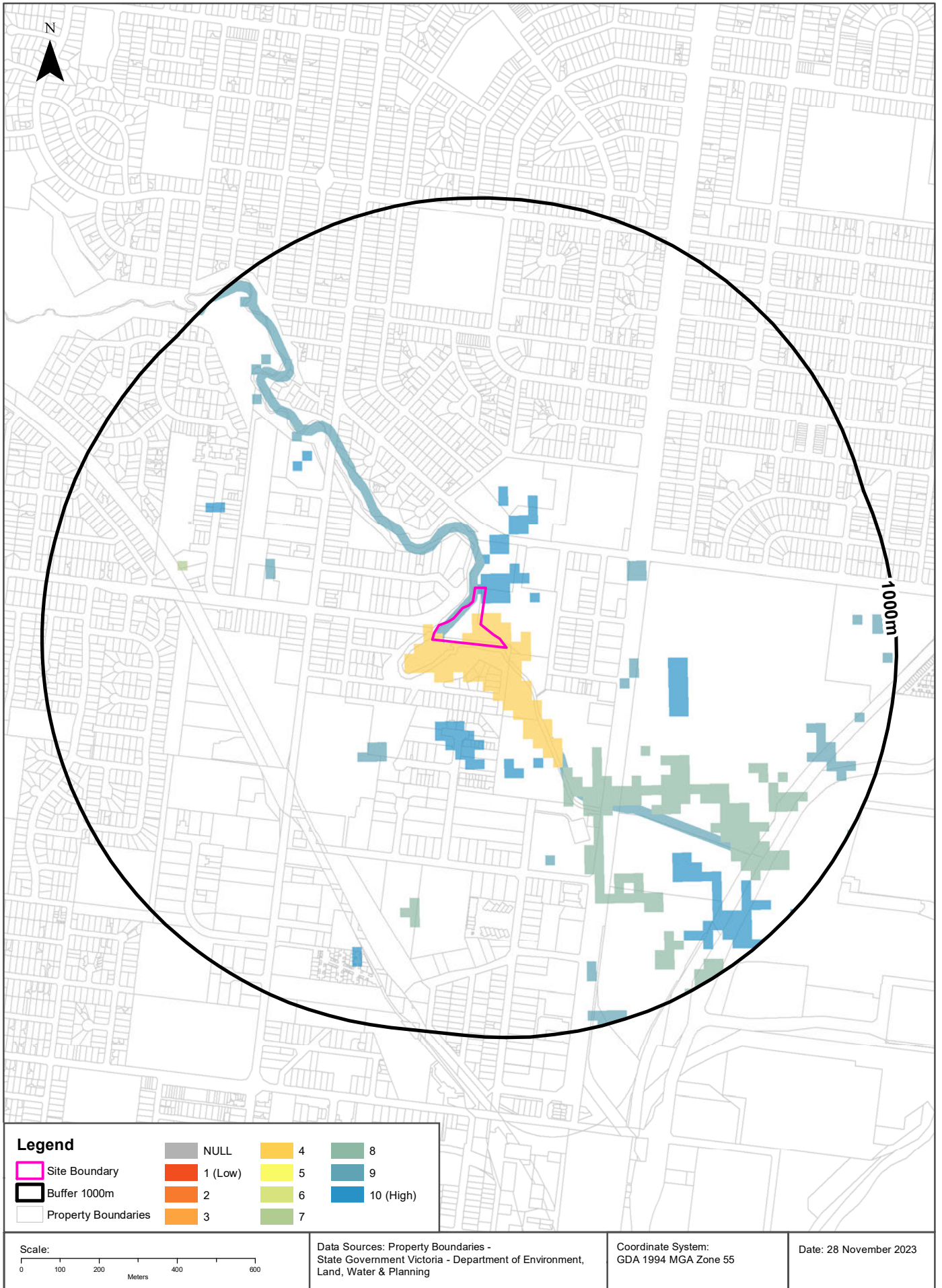
Groundwater Dependent Ecosystems Atlas

Type	Name	GDE Potential	Geomorphology	Ecosystem Type	Aquifer Geology	Distance	Direction
Aquatic		High potential GDE - from national assessment	Plains mainly on basalt lavas with many volcanic forms and lakes, partly on weak sedimentary rocks.	River		0m	On-site
Terrestrial		High potential GDE - from national assessment	Plains mainly on basalt lavas with many volcanic forms and lakes, partly on weak sedimentary rocks.	Vegetation	Fractured rock	0m	On-site
Terrestrial		High potential GDE - from national assessment	Plains mainly on basalt lavas with many volcanic forms and lakes, partly on weak sedimentary rocks.	Vegetation	Unconsolidated sedimentary	199m	South
Terrestrial		Moderate potential GDE - from national assessment	Plains mainly on basalt lavas with many volcanic forms and lakes, partly on weak sedimentary rocks.	Vegetation	Unconsolidated sedimentary	288m	South West
Terrestrial		Moderate potential GDE - from national assessment	Plains mainly on basalt lavas with many volcanic forms and lakes, partly on weak sedimentary rocks.	Vegetation	Fractured rock	315m	East
Terrestrial		Low potential GDE - from national assessment	Plains mainly on basalt lavas with many volcanic forms and lakes, partly on weak sedimentary rocks.	Vegetation	Unconsolidated sedimentary	651m	West
Terrestrial		High potential GDE - from national assessment	Plains mainly on basalt lavas with many volcanic forms and lakes, partly on weak sedimentary rocks.	Vegetation		990m	South East

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

60-62 Morgan Street, Norlane, VIC 3214



Ecological Constraints

60-62 Morgan Street, Norlane, VIC 3214

Inflow Dependent Ecosystems Likelihood

Type	Name	IDE Likelihood	Geomorphology	Ecosystem Type	Aquifer Geology	Distance	Direction
Terrestrial		4	Plains mainly on basalt lavas with many volcanic forms and lakes, partly on weak sedimentary rocks.	Vegetation	Fractured rock	0m	On-site
Aquatic		9	Plains mainly on basalt lavas with many volcanic forms and lakes, partly on weak sedimentary rocks.	River		0m	On-site
Terrestrial		10	Plains mainly on basalt lavas with many volcanic forms and lakes, partly on weak sedimentary rocks.	Vegetation	Fractured rock	0m	On-site
Terrestrial		10	Plains mainly on basalt lavas with many volcanic forms and lakes, partly on weak sedimentary rocks.	Vegetation	Unconsolidated sedimentary	199m	South
Terrestrial		9	Plains mainly on basalt lavas with many volcanic forms and lakes, partly on weak sedimentary rocks.	Vegetation	Unconsolidated sedimentary	288m	South West
Terrestrial		9	Plains mainly on basalt lavas with many volcanic forms and lakes, partly on weak sedimentary rocks.	Vegetation	Fractured rock	300m	East
Terrestrial		8	Plains mainly on basalt lavas with many volcanic forms and lakes, partly on weak sedimentary rocks.	Vegetation	Unconsolidated sedimentary	337m	South East
Terrestrial		7	Plains mainly on basalt lavas with many volcanic forms and lakes, partly on weak sedimentary rocks.	Vegetation	Unconsolidated sedimentary	651m	West
Terrestrial		8	Plains mainly on basalt lavas with many volcanic forms and lakes, partly on weak sedimentary rocks.	Vegetation	Fractured rock	765m	South East
Terrestrial		9	Plains mainly on basalt lavas with many volcanic forms and lakes, partly on weak sedimentary rocks.	Vegetation		990m	South East

Inflow Dependent Ecosystems Likelihood Data Source: The Bureau of Meteorology
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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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