

## Silvan High Security Fence Contaminated Land Desktop Assessment

Version: 0

Melbourne Water

Silvan High Security Fence



## Silvan High Security Fence Contaminated Land Desktop Assessment

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**Project manager:** Jennifer Spencer  
**Prepared by:** Tea Sviland / Jordan Prestidge  
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#### Jacobs Group (Australia) Pty Ltd

Floor 13, 452 Flinders Street  
Melbourne, VIC 3000  
PO Box 312, Flinders Lane  
Melbourne, VIC 8009  
Australia

T +61 3 8668 3000  
F +61 3 8668 3001  
[www.jacobs.com](http://www.jacobs.com)

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## Acronyms and Abbreviations

ASRIS	Australian Soil Resource Information System
ASS	Acid Sulfate Soil
CBD	Central Business District
CSIRO	Commonwealth Scientific and Industrial Research Organisation
DEECA	Department of Energy, Environment and Climate Action
EP Act	Environment Protection Act 2017
EP Regulations	Environmental Protection Regulations 2021
EPA Victoria	Environment Protection Authority Victoria
GED	General Environmental Duty
Jacobs	Jacobs Group (Australia) Pty Ltd
MAH	Monocyclic aromatic hydrocarbons
m AHD	Metres Above Height Datum
MWC	Melbourne Water Corporation
NEPM	National Environmental Protection (Assessment of Site Contamination) Measure 1999 (as amended 2013)
OCP	Organochlorine pesticide
OPP	Organophosphate pesticide
PAH	Polycyclic aromatic hydrocarbons
PAN	Pollution Abatement Notice
PASS	Potential Acid Sulfate Soil
PCB	Polychlorinated biphenyl
PFAS	Per- and polyfluoroalkyl substances
VIC	Victoria

## 1. Introduction

### 1.1 Background

Jacobs was engaged by Melbourne Water Corporation (MWC) (the client) to undertake a contaminated land desktop assessment as part of the Silvan High Security Fence replacement works (the project) based on the proposal dated 13 July 2023 (Jacobs, 2023). The project involves the replacement of approximately 15 km of the currently inadequate peripheral fencing surrounding the Silvan Reservoir, approximately 40 km east of Melbourne's Central Business District (CBD).

### 1.2 Objectives and Scope

The purpose of this contaminated land desktop assessment is to assess the potential for encountering soil contamination along the proposed fence alignment, identify areas of concern for soil contamination and identify data gaps associated with these areas. This includes recommendations as to the requirements and likely scope of any subsequent field investigation of the proposed project area.

The specific scope of this assessment includes:

- A review of relevant available information provided by the client including any previous assessment that contain data pertaining to soil condition within the project area (as defined in Section 1.3 below).
- A review of publicly available information including a search of relevant Environment Protection Authority Victoria (EPA) registers.
- A review of historical aerial photographs of the project area and other site-specific information obtained through a Lotsearch™ report.
- Summarising the history of the site based on the above inputs and identifying any potential historic contaminating activities in the vicinity of the project area.
- Conduct a site walkover to confirm findings of the desktop assessment and identify any areas of concern for potentially encountering soil contamination.
- Reporting of the assessment findings in a Contaminated Land Desktop Assessment report (this document), addressing the following:
  - Identifying any potential sources of contamination in the vicinity of the project area (i.e. areas of concern), any corresponding potential contaminants of concern, and what risks these might pose to the project.
  - Make a recommendation as to the requirement for a field investigation.

### 1.3 Proposed Infrastructure

The project concept design for the fence is yet to be finalised, however is expected to be refined as the project progresses. Jacobs understands the current preliminary works required for the Silvan High Security Fencing replacement comprise the works outlined below:

- Construction of 15 km high security fencing surrounding the Silvan Reservoir and catchment area.
- Fence attributes:
  - Equipped with Perimeter Intrusion Detection System (PIDS)
  - Minimum attribution of 358-wire mesh fencing
  - Minimum height of 3 m
  - Founded on concrete plinth – anti-dig / anti-climb functionality

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- Potential construction of access tracks along lengths of the alignment, and access tracks to the corridor from adjacent public roads.
- Construction of shallow foundations comprising piles socketed within soil / rock and shallow footings and / or pad footing foundations.

The proposed location of the new fence (i.e. the 'project area' or 'project corridor') is provided in Figure 1-1.



Figure 1-1. Proposed project area, represented as a red line (Jacobs, 2023)



## 2. Regulatory Framework

### 2.1 Overview

The key legislative document governing environmental compliance for individuals and businesses in Victoria is the Environment Protection Act 2017 (State Government of Victoria, 2017) (EP Act 2017). A principal feature of the EP Act 2017 is the 'General Environmental Duty' (GED) to prevent harm to human health and the environment and duties associated with contaminated land, and including the following obligations:

- Identifying and assessing potential contamination a person should reasonably know about
- Managing contamination by minimising the risks to human health and the environment (as far as practicable)
- Notifying people who may be affected by contamination.

The framework for assessment and reporting of environmental conditions for meeting obligations under the EP Act 2017 is outlined in the Environment Protection Regulations 2021 (State Government of Victoria, 2021) and the Environment Reference Standard 2021 (Environmental Protection Agency, 2021a) (ERS), which sets environmental values, indicators and objectives. Environmental values relevant to land within the project area include:

- Human health
- Ecological health
- Buildings and structures
- Aesthetics

#### Human and Ecological Health

The National Environmental Protection (Assessment of Site Contamination) Measure (NEPM) 1999 (as amended in 2013) is the primary national guidance document for the assessment of potential risks of harm from soil and groundwater contamination to human health and the environment.

#### Buildings and Structures

The potential for the condition of soils to adversely impact upon buildings and structures can result from elevated sulfate concentrations and/or low pH (acidic) conditions which are detrimental to some concrete structures. Australian Standard 2159 – Piling Design and Installation (Standards Australia, 2009) (AS2159-2009) provides exposure classification values for concrete and steel piles in soil and is considered an appropriate guideline in assessing the potential for detrimental impacts of soils for this environmental value.

#### Aesthetics

The ERS states that the objective is that "land that is not offensive to the senses of human beings". There is no concentration based aesthetic criteria currently available for soil. However, whilst aesthetic observations are subjective, it is considered that if there is discolouration or noticeable odours from the soil and/or if waste materials such as rubble, slag or similar wastes are present, then a potential aesthetic concern exists.

#### Soil Waste Management

While not an environmental value, the EP Act 2017 impose additional duties related to the management of industrial waste (including soil) in Victoria. The duties include, among other things, assessing industrial waste (including soil) for determining whether it is also a priority waste or reportable priority waste (which may in turn impose further duties associated with their management).

The characteristics and thresholds for determining the priority waste category of soils are prescribed under Environmental Protection Agency Publication 1828.2 - Waste Disposal Categories – Characteristics and Thresholds (EPA, 2021b), which is the key reference document for assessing potential offsite disposal options of soil.

## **2.2 Key project considerations**

Within the context of the project background described in Section 1 and the regulatory framework described above, key considerations that are of relevance to the contaminated land desktop assessment include the following:

- Potential impacts to human health (including onsite workers) due to the presence and management of contaminated soil.
- Potential environmental impacts due to the presence and management of contaminated soil.
- Potential impacts to the durability of inground building materials due to contaminated soil.
- Potential for restricted reuse or disposal of excavated spoil and excess water due to contaminated soil and water

These considerations form the basis for the assessment which follows.

### 3. Site Setting

#### 3.1 Site Identification and Surrounding Land-Use

The project area is situated across the suburbs of Silvan and Monbulk, approximately 40 km east of Melbourne’s CBD, surrounding the Silvan Reservoir, a system which supplies over 70% of Melbourne’s drinking water. The Dandenong Ranges National Park is located to the north and west of the project area, with low-density residential, industrial/commercial and agricultural areas to the south and east of the project area. Relevant site information is presented in Table 1 below.

Table 1. Site identification

Feature	Detail
Area	Approx. 558,475 m <sup>2</sup>
Locality	Silvan and Monbulk
Local government area	Yarra Ranges Council
Land-use zoning within project area	Public use (service and utility) Transport zone Public conservation and resource zone Green wedge zone Public park and recreation zone.
Land-use zoning surrounding project area	Low-density residential Public conservation and resource zone Green wedge zone Industrial 3 zone Commercial 1/2 zone Transport zone 3 Public use zone (service and utility / education – location government) Public and recreation zone Neighbourhood residential zone Rural conservation zone.
Planning Overlays within project area	BMO: Bushfire Management Overlay SLO1: Significant Landscape Overlay – Schedule 1 ES01: Environmental Significance Overlay – Schedule 1 HO278: Heritage Overlay EMO: Erosion Management Overlay SLO5: Significant Landscape Overlay – Schedule 5

The allocation of land-use zoning within and surrounding the project area is shown in the Lotsearch™ report (2023) in Appendix A.

### 3.2 Topography, Vegetation and Ecology

The topography of the project area and the surrounding area is provided in the Lotsearch™ report (2023) in Appendix A. The area ranges in elevation between 207 and 508 m AHD, with the highest elevation being the southwest portion of the project area. Silvan Reservoir is generally positioned topographically downgradient from the surrounding area (including the project area). A key exception from this general trend is the north-west portion of the reservoir which is filled and dammed above the natural elevation.

No Ramsar listed wetlands were identified within the project area. Native vegetation was identified within the project area and within the 1 km buffer, however, all native vegetation identified within the project area has a conservation status of 'Least Concern'. Furthermore, a high potential for Groundwater and Inflow Dependent Ecosystems within the 1 km buffer area was identified in the Lotsearch™ report (2023), as outlined in Appendix A.

### 3.3 Geological Setting

Descriptions of geological units found within the project area and the surrounding area are outlined in Table 2. The location of the surficial units are shown in the Lotsearch™ report (2023) provided in Appendix A.

Table 2. Geological unit descriptions within 1 km of the project area

Unit symbol	Geological unit	Material description	Location
Nuo	Monbulk Volcanic Group	Basaltic lava flows: basanite, olivine, tholeiite, hawaiite	Intersects with project area
Dxh	Humevale Siltstone (hornfels)	Hornfels	Intersects with project area
Djf	Ferny Creek Rhyodacite	Biotite-hypersthene rhyodacite ignimbrite: recrystallized; chilled glassy base shows traces of eutaxic foliation parallel to the sediment band below; becomes increasingly crystalline and phenocryst-rich upwards	Intersects with project area
Dxh	Humevale Siltstone (generic)	Siltstone: brown, laminated; minor very fine- to fine-grained sandstone laminae and thin beds towards the top of the formation; distal shelf and hemipelagic deposits	Intersects with project area
Djy	Yellingbo Porphyry (generic)	Quartz-feldspar porphyry: mid- to dark grey; large quartz and smaller feldspar phenocrysts, minor biotite in fine-grained groundmass	Intersects with project area
Qc1	Colluvium (generic)	Diamictite, gravel, sand, silt, clay, rubble: sorting variable, usually poor; generally poorly rounded; includes channel deposits with better rounding and sorting	From 9 m north-west of project area

### 3.4 Hydrological Setting

The project area encircles Silvan Reservoir, a potable water supply to Melbourne. The reservoir is positioned topographically downgradient from the project area. While most portions of the project area are greater than 200 m from the reservoir, there are portions of the project area that are as little as 40 m from the reservoir.

Other key surface water features within 1 km of the project area include:

- Stoney Creek: Approximately 980 m southeast of project area.
- Emerald Creek: Approximately 400 m south of project area.

- Nathania Springs Creek: Approximately 400 m south of project area.
- Stringybark Creek: Approximately 912 m northeast of the project area.
- Olinda Creek: Approximately 360 m northwest of the project area.
- Lyrebird Gully Creek: Approximately 360 m northwest of the project area.
- Ferndale Creek: Approximately 905 m east of the project area.
- Several smaller water bodies located to the northeast, east and southeast of the project area.

## **3.5 Hydrogeological Setting**

### **3.5.1 Groundwater**

Summary of key hydrogeological information surrounding the project area provided in the Lotsearch™ (2023) report include the following:

- Fractured or fissured extensive aquifers of low to moderate productivity exist in the vicinity of the project area. Groundwater flow typically occurs through fractures in the bedrock, thus, the flow is dependent on the location of such fractures within the project area.
- Groundwater salinity in the area is estimated to be less than 500 mg/L (Lotsearch, 2023).
- Depth to water table surrounding the majority of the project area ranges 20 to 50 m below ground level (mbgl), with certain areas to the south-west ranging 50 to 100 mbgl. A very minor segment of the project area, located in its north-west portion (immediately west of Silvan Reservoir Park), reports a depth to groundwater ranging <5m to 10mbgl. A figure showing the depth to groundwater in the vicinity of the project area is provided in the Lotsearch™ (2023) report in Appendix A.

### **3.5.2 Registered Groundwater Bores**

According to the Department of Energy, Environment and Climate Action (DEECA), the Earth Resources Database, and Federation University (Lotsearch, 2023), there are 3 registered groundwater boreholes located within the project area and 24 additional bores located within 100 m of the project area. The use of the groundwater boreholes within 100 m of the project area are listed in Table 3 below.

The full groundwater bore search details and locations are presented in Appendix A (Lotsearch, 2023).

**Table 3. Use of groundwater monitoring bores in surrounding area**

Use	Number of wells within project area	Number of wells within 100 m of project area	Bore depth range
Domestic	1	8	49 – 122 m
Observation	2	1	19 – 86 m
Irrigation	-	7	48 – 122 m
Irrigation / investigation	-	1	Not available
Domestic / stock	-	1	49 m
Domestic / irrigation / stock	-	4	51 – 122 m
Unknown use	-	2	Not available

Groundwater flow direction is unknown due to the nature of the fractured rock aquifer. Thus, downgradient groundwater bores are not identified.

## 4. Review of Potentially Contaminated Land

### 4.1 Current and Historical Land Use

For the preliminary assessment of potential contaminated land present within or in the vicinity of the project area, a review of the current and historic land use was evaluated via review of the following lines of evidence:

- Review of historical aerial imagery
- Review of publicly available historic databases
- Review of available historic reports

These are discussed in Sections 4.1.1, 0 and 4.1.3 below.

#### 4.1.1 Historical Aerial Imagery

Historical aerial imagery dating back to 1946 was obtained for the proposed project area and its surrounds in the Lotsearch™ (2023) report (included in Appendix B). The purpose of these photographs is to identify historic and current activities that could have resulted in potential contamination of the land. Due to the scale of the project area, historical aerial photographs were divided into six lots, as illustrated in Appendix B of this document.

The historical aerial imagery indicates that the project area and the surrounding areas appear to have been used for agricultural, forestry, industrial/commercial and low-density residential use since at least 1946. Key features identified through the historical aerial review include the following:

- Most of the land contained within the project area, as well as the land immediately west of the project area, has generally been covered by dense forest since at least 1946.
- Various small developments have occurred in the forested area surrounding Silvan Reservoir, including:
  - Some earth works around the dam wall to the northwest of the reservoir prior to 1984.
  - Development of an access road prior to 1954.
  - Construction of several smaller buildings around the reservoir (including in the south-eastern portion of the project area).
- Former partially forested areas to the east, southeast and northeast of the project area appear to have been largely converted to agricultural land since at least 1946. Some of these areas have been developed over time to also include low-density residential and industrial / commercial areas. The most significant changes were observed between 1963 and 2010, with few significant changes observed after 2010.

A detailed summary of the findings of the historical aerial image review is provided in Appendix B.

#### 4.1.2 Historical Databases

A review of historical databases relevant to potential contamination within 1 km of the project area, as supplied by Lotsearch™ (2023), identified the following key features outlined in Table 4.

Table 4. Summary of key features identified as being indicative of potential land contamination

Feature	Detail
EPA Priority Sites	<ul style="list-style-type: none"> <li>▪ No current priority notices are known to be listed on the EPA Priority Sites Register at the time of preparation of this report, within 1 km of the project area. Due to pollution notices being revoked and removed from published lists this is not an exhaustive list of all past pollution notices.</li> </ul>

Feature	Detail
<b>EPA Pollution Abatement Notices (PAN)</b>	<ul style="list-style-type: none"> <li>▪ Two sites in vicinity of the project area are known to have been issued a previous Pollution Abatement Notice:                             <ul style="list-style-type: none"> <li>- Sylvan Glades Inc (notice number: 90008176), at 15 Anderson Rd, Monbulk VIC 3793 (100 m southeast of project area), issued 16 October 2017. Wastewater treatment plant that treats all the wastewater and sewage for the Sylvan Glades Retirement Village.</li> <li>- Parks Victoria (notice number: 90007007), at 11 Woolrich Rd, Olinda VIC 3788 (859 m southwest of project area), issued 27 June 2016.</li> </ul> </li> </ul>
<b>EPA Environmental Audits</b>	<ul style="list-style-type: none"> <li>▪ One previous EPA Environmental Audit identified within the project area:                             <ul style="list-style-type: none"> <li>- 53V Audit (service order number: 8004360, 68515-9), in State forests within the Central, Dandenong and Bendigo Forest Management Areas, Dandenong VIC 3175, completed 11/02/2015. However, chemical contamination was determined to not be applicable to the audit, as no instances of chemical use were found at any of the audited coupes.</li> </ul> </li> </ul>
<b>EPA Licensed Activities and Work Approvals</b>	<ul style="list-style-type: none"> <li>▪ Two EPA Licenced Activities within 1 km of project area:                             <ul style="list-style-type: none"> <li>- Operating Licence (OL000003416) for sewage treatment (A03), at Sylvan Glades Retirement Village, 15 Anderson Rd, Monbulk VIC 3793, issued 23/10/1973 with no expiry date (100 m southeast of the project area). Operating Licence allows the Sylvan Glades Retirement Village’s wastewater treatment plant to discharge treated wastewater to surface waters.</li> <li>- Registration (R000302202) for waste and resource recovery (A13c), at Parks Victoria – Olinda Depot, 1 Woolrich Rd, Olinda VIC 3788, issued 11/12/2021 and expires 10/12/2026 (684 m southwest of the project area). The registration allows the Olinda Depot to accept waste including steel, industrial waste, e-waste and tyres.</li> </ul> </li> <li>▪ No EPA Works Approvals were identified within 1 km of the project area.</li> </ul>
<b>Waste Management Facilities / Landfills</b>	<ul style="list-style-type: none"> <li>▪ No Waste Management Facilities or EPA registered landfills were identified within 1 km of the project area.</li> </ul>
<b>Former Gasworks and Liquid Fuel Facilities</b>	<ul style="list-style-type: none"> <li>▪ No Former Gasworks were identified within 1 km of the project area.</li> <li>▪ 1 current National Liquid Fuel Facility identified within 1 km of the project area:                             <ul style="list-style-type: none"> <li>- Shell (petrol station) at 273 Monbulk Rd, Silvan VIC 3795 (20 m north-east of the project area).</li> </ul> </li> </ul>
<b>Historical Business Directories</b>	<ul style="list-style-type: none"> <li>▪ A review of Sands &amp; McDougall Historical Business Directories identified the following potentially contaminating historical businesses within 150 m of the project area (see map and full list in Appendix A):                             <ul style="list-style-type: none"> <li>- Nurseries / agricultural contractors: 24 identified within project area, and 11 additional identifies within 100 m of project area, both to the northeast and the southeast of the project area.</li> <li>- Television repair services: 2 identified to the southeast within the project area.</li> <li>- Builders (nature of business not identified): 5 identified within project area and 2 additional identified within 100 m southeast of the project area.</li> <li>- Motor garage: 1 identified to the northeast within the project area.</li> <li>- Painters / decorators: 2 identified 34 m northeast of the project area.</li> </ul> </li> </ul>



Feature	Detail
	<ul style="list-style-type: none"> <li>- Glasshouse construction and equipment: 1 identified within 100 m southeast of the project area.</li> </ul> <p>Note that the Historical Business Directory records are mapped to a road when the building number is unknown, which may influence the relative distance to the project area.</p>
<b>Historical Mining Activity</b>	<ul style="list-style-type: none"> <li>▪ No Historical Mining Activities identified within 1 km of the project area.</li> </ul>
<b>Acid Sulfate Soils (ASS)</b>	<ul style="list-style-type: none"> <li>▪ A review of CSIRO's Australian Soil Resource Information System (ASRIS), considering the probability of encountering Potential Acid Sulfate Soils (PASS) within 1 km of the project area, identified the following:                             <ul style="list-style-type: none"> <li>- A low probability of occurrence (6-70%, class B) within the majority of the project area and the surrounding area to the north, west and south.</li> <li>- An extremely low probability of occurrence (1-5%, class C) within the project area and to the east of the project area.</li> <li>- A high probability of occurrence (over 70%, class A) assigned to the Silvan reservoir itself, which is at minimum located 20 m from southeast part of the project area.</li> </ul> </li> </ul> <p>A map illustrating the probability of encountering PASS around the project area can be found in Appendix A.</p>
<b>Heritage Items</b>	<ul style="list-style-type: none"> <li>▪ No Commonwealth Heritage List items identified within 1 km of the project area.</li> <li>▪ No Victorian Heritage Register items identified within 1 km of the project area.</li> <li>▪ One National Heritage List item identified to the west of the project area:                             <ul style="list-style-type: none"> <li>- Dandenong Ranges National Park and Puffing Billy Railway (105975), located at Belgrave-Gembrook Rd, Belgrave VIC 3160.</li> </ul> </li> <li>▪ 14 areas of Cultural Heritage Sensitivity identified within 1 km of the project area, including 3 areas within the project area. See full list and map in Appendix A.</li> </ul>

### 4.1.3 Historical Reports

There are no known previous contaminated land investigation reports of the project area available.

## 4.2 Site Walkover

A walkover of the project area was undertaken by a Jacobs environmental field scientist on 19 October 2023. The key objectives of the walkover were to:

- Corroborate (where possible) any features identified during the desktop review.
- Visually identify any further potential contamination sources, pathways or receptors not identified during the desktop review, which may further inform the potential risks to the project from contaminated land.
- Identify any additional site features (including access constraints) which may inform the scope of any potential subsequent field investigation.

Key features identified during the site walkover, as relevant to this contaminated land assessment, include:

- No direct visual or olfactory indicators of contamination (e.g. malodours, soil staining, anthropogenic waste, etc) were identified within or adjacent to the project area.
- Intermittent land clearing / logging activities have occurred across the area surrounding the project area.

- An inferred electrical transformer is located directly adjacent to the current fence line and approximately 60m east of the intersection of Monbulk Rd and Old Emerald Rd. This feature may represent a potential source of contamination to the project area, however, appears to be bunded.
- A water treatment facility is located approximately 30m northeast of the current fence line and the intersection of Monbulk Rd and Old Emerald Rd. Chemicals appear to be stored and used within this facility (including sodium fluoride and sodium hypochlorite), however similar to above, there appears to be controls in place (e.g. bunding, drainage infrastructure, concrete hardstand).

The locations of the transformer and water treatment facility are provided in Figure 4-1 below. Relevant photographs taken during the site walkover are included in Appendix C.



Figure 4-1. Locations of electrical transformer (yellow circle) and water treatment facility (blue circle) identified during the site walkover.

## 4.3 Summary of Potential Contaminated Land

### 4.3.1 Potential Contaminants and Sources

Potential contaminant sources (and associated contaminants of potential concern) associated with historical site features are summarised in Table 5 below.

Table 5. Potential contaminant sources and associated contaminations of potential concern

Potential sources	Description	Potential contaminants of concern
Sewage / wastewater treatment plant	One wastewater treatment plant, located within the Sylvan Glades Retirement Village 100 m southeast of the project area, for treatment of all onsite wastewater and sewage. EPA Operating Licence allows the retirement village to discharge treated wastewater to surface waters. Facility was issued a previous Pollution Abatement Notice in 2017.	Nutrients Metals Per- and polyfluoroalkyl substances (PFAS) Phenols Pathogens

Potential sources	Description	Potential contaminants of concern
<b>Petrol station / motor garage</b>	One operational service station (Shell) identified 20 m northeast of the project area, upgradient from the project area and Silvan reservoir at 275-277 Monbulk Rd. One historical motor garage / service station identified to the northeast within the project area.	Petroleum hydrocarbons Chlorinated hydrocarbons (VCHs) Monocyclic aromatic hydrocarbons (MAHs) Polycyclic aromatic hydrocarbons (PAHs) Metals
<b>Current and historical land development activities</b>	The area surrounding the site has been used for low-density residential use as well as agriculture and industrial use at least since 1946, according to the historical aerial review. Building materials including asbestos, septic waste, household waste and other chemicals associated with household use and construction materials could have contaminated the land surrounding the site.	Asbestos Hydrocarbons Metals Nutrients
<b>Paint businesses</b>	Two historical paint businesses identified 34 m northeast of the project area, upgradient from the project area and Silvan reservoir.	Metals Hydrocarbons Polychlorinated biphenyls (PCBs)
<b>Long-term agricultural land use</b>	Historic farming has taken place in close vicinity to the site for over 70 years, according to the historical aerial review. This could have resulted in localised contamination of shallow soils from application of pesticides / herbicides / fertilisers and surface spills of fuels and other liquids from farm machinery or workshops.	Asbestos Pesticides / herbicides Nutrients Metals
<b>Nurseries</b>	24 historic nurseries identified within the project area, and 11 additional identified within 100 m northeast and southeast of the project area, upgradient from the project area and the Silvan reservoir.	Metals Organochlorine pesticides (OCPs) Organophosphate pesticides (OPPs) Petroleum hydrocarbons MAHs
<b>Acid Sulfate Soils</b>	The probability of the occurrence of ASS within the project area is considered to be from extremely low to low. However, certain sections of the project area are situated in very close proximity to Silvan Reservoir (within 20m) which is considered to have a high probability of the occurrence of ASS.	pH Metals

Potential sources	Description	Potential contaminants of concern
Timber logging	The site walkover identified intermittent land clearing / logging activities as having occurred across the extent of the area that surrounds the project area.	Hydrocarbons Metals
Inferred electrical transformer	The site walkover identified an inferred electrical transformer located immediately adjacent to the project area. While bunding and concrete pads appeared to be installed around the transformer, a detailed inspection was not possible.	Polychlorinated biphenyls (PCBs) Metals Hydrocarbons PFAS
Water treatment facility	The site walkover identified a water treatment facility (associated with the Silvan Reservoir) within 30m of the project area and appears to store and use water treatment chemicals. Suitable controls (including bunding, drainage infrastructure, concrete hardstand) are installed within the facility.	Sodium hypochlorite Sodium fluoride Hydrocarbons

Other potential sources of contaminated land identified during this desktop review that are not considered to pose risks to the project (mainly due to their distance to the site and activity type) include the following:

- **Waste and resource recovery centre**, at Parks Victoria – Olinda Depot. This potential source is located 684 m southwest and topographically downgradient from the project area.
- **Audit recommendation (8004360)**, at State forests within Central, Dandenong and Bendigo Forest Management areas. Audit recommendation did not include chemical contamination as no instances of chemical use were found.
- **Pollution Abatement Notice (90007007)**, at Parks Victoria site. This potential source is located 859 m southwest and topographically downgradient from the project area.

### 4.3.2 Potential Risks and Recommendations

Based on this review of desktop information of potentially contaminated land within and surrounding the project area, the following potential risks are identified with respect to the proposed project design:

- The potential sources of contamination (including acid sulfate soils) identified in Table 5 may pose a potential risk of harm to human health and the environment. Potential human receptors include onsite workers which may be exposed to excavated soils.
- The potential sources of contamination identified in Table 5 above may affect the waste classification of any spoil generated and scheduled for reuse or disposal offsite.
- The potential sources of contamination identified in Table 5 above may be potentially corrosive to building materials used for the project.

Based on these project risks from potentially contaminated land, the following recommendations are made with respect to the project:

- A soil sampling field investigation is recommended to further assess the potential risks of human health and the environment, as well as to assess the offsite spoil disposal options.
- While test locations should generally be evenly distributed across the extent of the project area, the locations of potential source areas outlined in Table 5 above should be considered when determining the

sample design (i.e. mix of systemic and targeted sampling). The following areas should be considered and incorporated into the broader sampling design:

- Portion of project area situated adjacent to water treatment facility (close to intersection of Monbulk Rd and Old Emerald Rd).
  - Portion of project area situated adjacent to the inferred electrical transformer (close to intersection of Monbulk Rd and Old Emerald Rd).
  - Portion of project area situated adjacent to the petrol station located at 275-277 Monbulk Rd.
  - Portion of project area situated adjacent to the sewage / wastewater treatment plant located within the Sylvan Glades Retirement Village.
- The soil investigation should consider the following contaminants of potential concern (COPCs), as identified and listed in Table 5 above:
    - Metals
    - Nutrients
    - Hydrocarbons (including petroleum hydrocarbons and chlorinated hydrocarbons).
    - MAHs and PAHs
    - OCPs and OPPs
    - PCBs
    - PFAS
    - Phenols
    - Acid sulfate soils
    - Asbestos
  - Samples should be further evaluated for potential corrosivity risks to subsurface infrastructure in accordance with Australian Standard AS 2159—2009.
  - Based on the general indicative groundwater depth and the likelihood of it not being encountered during the project works, a groundwater field investigation is not recommended at this stage. Note these recommendations may be updated based on any subsequent field observations or soil investigation results.

## 5. Conclusions and Recommendations

A contaminated land desktop assessment was conducted for the project area, with the aim to assess the potential for encountering soil contamination along the proposed fence alignment, identify areas of concern for soil contamination and identify data gaps associated with these areas. A summary of the current and historical land uses, potential sources of contamination, and potential risks of harm from contaminated land and associated recommendations are provided below.

### Assessment Findings

The project area is situated within a forested zone that encircles the Silvan Reservoir. The surrounding area generally consists of the Dandenong Ranges National Park to the north and west, and low-density residential, industrial / commercial, and agricultural areas to the south and east of the project area. The site history review indicates that the land uses surrounding the project area have stayed largely consistent since 1946.

A number of potential sources of contamination (and associated contaminants of potential concern) were identified within the vicinity of the project area, including a sewage and wastewater treatment plant, a water treatment and purification facility, an inferred electrical transformer, land clearing activities, and various historical business including paint businesses, nurseries, and a service station. The project area is also situated in close proximity to Silvan Reservoir which is associated with a high probability of encountering acid sulfate soils. Further details of the potential sources are outlined in Table 5 above.

### Recommendations

Based on the findings of this assessment, the following recommendations are provided:

- Soil sampling field investigation is recommended. Samples should be collected in areas of proposed construction to understand:
  - The potential risk of harm to human health and the environment from contaminated land.
  - The indicative soil waste classification.
  - For evaluating the potential corrosivity risk to subsurface building materials.
- While test locations should generally be evenly distributed across the extent of the project area, the locations of potential source areas outlined in Section 4.3.2 above should also be considered when determining the sample design (i.e. mix of systemic and targeted sampling).
- Samples should be tested for the COPCs identified in Table 5 and listed in Section 4.3.2 above (including testing for acid sulfate soils).

## 6. References

- Environmental Protection Agency, 2021a, Environment Reference Standard 2021 (ERS 2021)
- Environmental Protection Agency, 2021b, EPA Publication 1828.2 - Waste Disposal Categories – Characteristics and Thresholds
- Jacobs, 2023, Y10337 – Silvan High Security Fence – Functional Investigations. 13 July 2023.
- Jacobs, 2023, Silvan Fence - Task 1 - Concept Confirmation Memorandum\_DRAFT
- Lotsearch 2023, Lotsearch LS049167\_EL - Silvan Reservoir, Monbulk Rd, Monbulk, VIC 3793. 16 October 2023.
- Lotsearch 2023, Lotsearch LS049178\_EA - Silvan Reservoir (Part 1 of 6), Monbulk Rd, Monbulk, VIC 3793. 16 October
- Lotsearch 2023, Lotsearch LS049179\_EA - Silvan Reservoir (Part 2 of 6), Monbulk Rd, Monbulk, VIC 3793. 16 October
- Lotsearch 2023, Lotsearch LS049180\_EA - Silvan Reservoir (Part 3 of 6), Monbulk Rd, Monbulk, VIC 3793. 16 October
- Lotsearch 2023, Lotsearch LS049181\_EA - Silvan Reservoir (Part 4 of 6), Monbulk Rd, Monbulk, VIC 3793. 16 October
- Lotsearch 2023, Lotsearch LS049182\_EA - Silvan Reservoir (Part 5 of 6), Monbulk Rd, Monbulk, VIC 3793. 16 October
- Lotsearch 2023, Lotsearch LS049183\_EA - Silvan Reservoir (Part 6 of 6), Monbulk Rd, Monbulk, VIC 3793. 16 October
- Melbourne Water, 2021, Y10337 – Silvan High Security Fence: Functional Requirements Statement. 12 July 2023.
- National Environment Protection Council (NEPC) (2013) Schedule B of National Environment Protection (Assessment of Site Contamination) Measure 1999 (as amended 2013) ('NEPM').
- State Government of Victoria, 2017, Environment Protection Act 2017 (EP Act 2017).
- State Government of Victoria, 2021, Environment Protection Regulations 2021
- Standards Australia, 2009, Australian Standard 2159 – Piling Design and Installation (AS2159-2009)

## **Appendix A. Lotsearch™ Reports**





# LOTSEARCH

LOTSEARCH ENVIRO LITE

**Date: 16 Oct 2023 17:02:41**

**Reference: LS049167 EL**

**Address: Silvan Reservoir, Monbulk Rd, Monbulk, VIC 3793**

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:

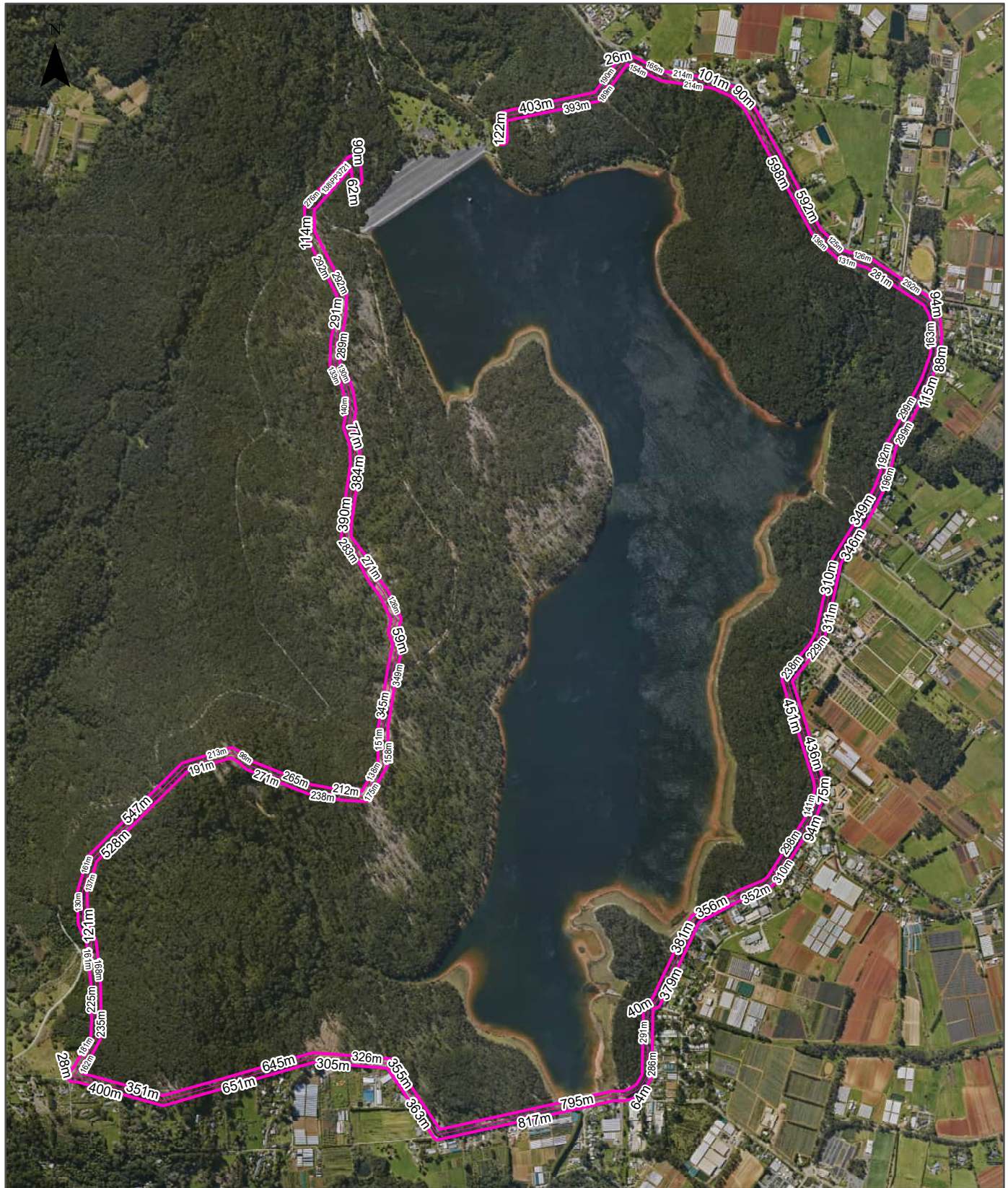
Dataset Name	Custodian	Supply Date	Currency Date	Update Frequency	Dataset Buffer (m)	No. Features On-site	No. Features within 100m	No. Features within Buffer
Topographic and Cadastre data	State Government Victoria - Department of Environment, Land, Water & Planning	13/09/2023	13/09/2023	Monthly	-	-	-	-
Current EPA Priority Sites	Environment Protection Authority (Vic)	16/10/2023	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)	16/10/2023	04/08/2023	Monthly	1000m	0	0	2
EPA PFAS Site Investigations	Environment Protection Authority (Vic)	18/09/2023	30/05/2023	Monthly	2000m	0	0	0
Defence PFAS Investigation & Management Program - Investigation Sites	Department of Defence	16/08/2023	16/08/2023	Monthly	2000m	0	0	0
Defence PFAS Investigation & Management Program - Management Sites	Department of Defence	16/08/2023	16/08/2023	Monthly	2000m	0	0	0
Airservices Australia National PFAS Management Program	Airservices Australia	18/08/2023	18/08/2023	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	16/06/2023	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	0
EPA Preliminary Risk Screening Assessments	Environment Protection Authority (Vic)	18/09/2023	15/11/2022	Monthly	1000m	0	0	0
EPA Environmental Audit Reports	Environment Protection Authority Victoria	19/05/2023	24/02/2023	Monthly	1000m	1	1	1
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	2
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	0
National Waste Management Facilities Database	Geoscience Australia	26/05/2022	07/03/2017	Annually	1000m	0	0	0
Statewide Waste and Resource Recovery Infrastructure Plan Facilities	State Government Victoria - Department of Sustainability	27/11/2014	31/12/2012	None planned	1000m	0	0	0
Legacy EPA Prescribed Industrial Waste	Environment Protection Authority (Vic)	12/08/2020	12/08/2020	Quarterly	1000m	0	0	0
EPA Victorian Landfill Register	Environment Protection Authority (Vic)	16/10/2023	16/03/2023	Quarterly	1000m	0	0	0
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	1	1
Historical Business Directories (Premise & Intersection Matches)	Hardie Grant; Sands & McDougall, State Library Victoria			Not required	150m	0	0	0
Historical Business Directories (Road & Area Matches)	Hardie Grant; Sands & McDougall, State Library Victoria			Not required	150m	-	64	64
Historical Business Directory Dry Cleaners & Motor Garages/Service Stations (Premise & Intersection Matches)	Hardie Grant; Sands & McDougall, State Library Victoria			Not required	500m	0	0	0
Historical Business Directory Dry Cleaners & Motor Garages/Service Stations (Road & Area Matches)	Hardie Grant; Sands & McDougall, State Library Victoria			Not required	500m	-	1	1
Features of Interest	State Government Victoria - Department of Environment, Land, Water & Planning	18/10/2022	18/10/2022	Quarterly	1000m	7	28	48

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	As required	1000m	1	1	1
Groundwater Salinity	State Government Victoria - Department of Environment, Land, Water & Planning	14/08/2015	29/08/2012	Unknown	0m	1	-	-
Depth to Watertable	State Government Victoria - Department of Environment, Land, Water & Planning	14/08/2015	29/08/2012	Unknown	0m	4	-	-
Surface Elevation	State Government Victoria - Department of Environment, Land, Water & Planning	14/08/2015	23/09/2013	Unknown	0m	1	-	-
Basement Elevation	State Government Victoria - Department of Environment, Land, Water & Planning	14/08/2015	23/09/2013	Unknown	0m	1	-	-
Groundwater Boreholes WMIS	State Government Victoria - Department of Environment, Land, Water & Planning	27/07/2023	27/07/2023	Quarterly	2000m	3	26	317
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	7	108
Groundwater Boreholes Fed Uni	Federation University Australia	21/12/2017	07/01/2014	As required	2000m	0	0	0
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	Unknown	1000m	5	6	6
Geological Structures 1:50,000	State Government Victoria - Department of Economic Development, Jobs, Transport and Resources	13/01/2015	24/06/2014	Unknown	1000m	1	1	2
Dykes and Marker Beds 50k	State Government Victoria - Department of Economic Development, Jobs, Transport and Resources	13/01/2015	24/06/2014	Unknown	1000m	0	0	0
Shear zones 250k	State Government Victoria - Department of Economic Development, Jobs, Transport and Resources	13/01/2015	24/06/2014	Unknown	1000m	0	0	0
Atlas of Australian Soils	ABARES	19/05/2017	17/02/2011	As required	1000m	3	3	3
Victorian Soil Type Mapping	State Government Victoria - Department of Economic Development, Jobs, Transport and Resources	24/08/2017	21/03/2016	Unknown	1000m	4	4	4
Atlas of Australian Acid Sulfate Soils	CSIRO	19/01/2017	21/02/2013	As required	1000m	2	3	3
Coastal Acid Sulfate Soils	State Government Victoria - Department of Economic Development, Jobs, Transport and Resources	28/03/2017	30/03/2011	None planned	1000m	0	0	0
Planning Scheme Zones	State Government Victoria - Department of Environment, Land, Water & Planning	09/08/2023	26/07/2023	Monthly	1000m	6	21	49
Planning Scheme Overlay	State Government Victoria - Department of Environment, Land, Water & Planning	09/08/2023	26/07/2023	Monthly	1000m	6	13	42
Commonwealth Heritage List	Australian Government Department of Agriculture, Water and the Environment	03/06/2022	13/04/2022	Annually	1000m	0	0	0
National Heritage List	Australian Government Department of Agriculture, Water and the Environment	03/06/2022	13/04/2022	Annually	1000m	1	1	1
Victorian Heritage Register	State Government Victoria - Department of Environment, Land, Water & Planning	14/06/2023	14/06/2023	Quarterly	1000m	0	0	0
Cultural Heritage Sensitivity	State Government Victoria - Department of Premier and Cabinet	18/10/2022	18/10/2022	Quarterly	1000m	3	6	14
Bushfire Prone Area	State Government Victoria - Department of Transport, Planning and Local Infrastructure	18/10/2022	17/08/2022	Quarterly	1000m	1	1	1
Fire History	State Government Victoria - Department of Environment, Land, Water & Planning	16/02/2023	10/01/2023	Quarterly	1000m	17	25	72
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	0	0	0
Victorian Coastal Inundation Sea Level Rise	State Government Victoria - Department of Environment, Land, Water & Planning	10/04/2018	24/10/2017	Unknown	1000m	0	0	0
Native Vegetation (Modelled 2005 Ecological Vegetation Classes)	State Government Victoria - Department of Environment, Land, Water & Planning	13/01/2015	31/12/2005	None planned	1000m	4	5	8
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	0	3	6

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	0	3	15

# Site Diagram

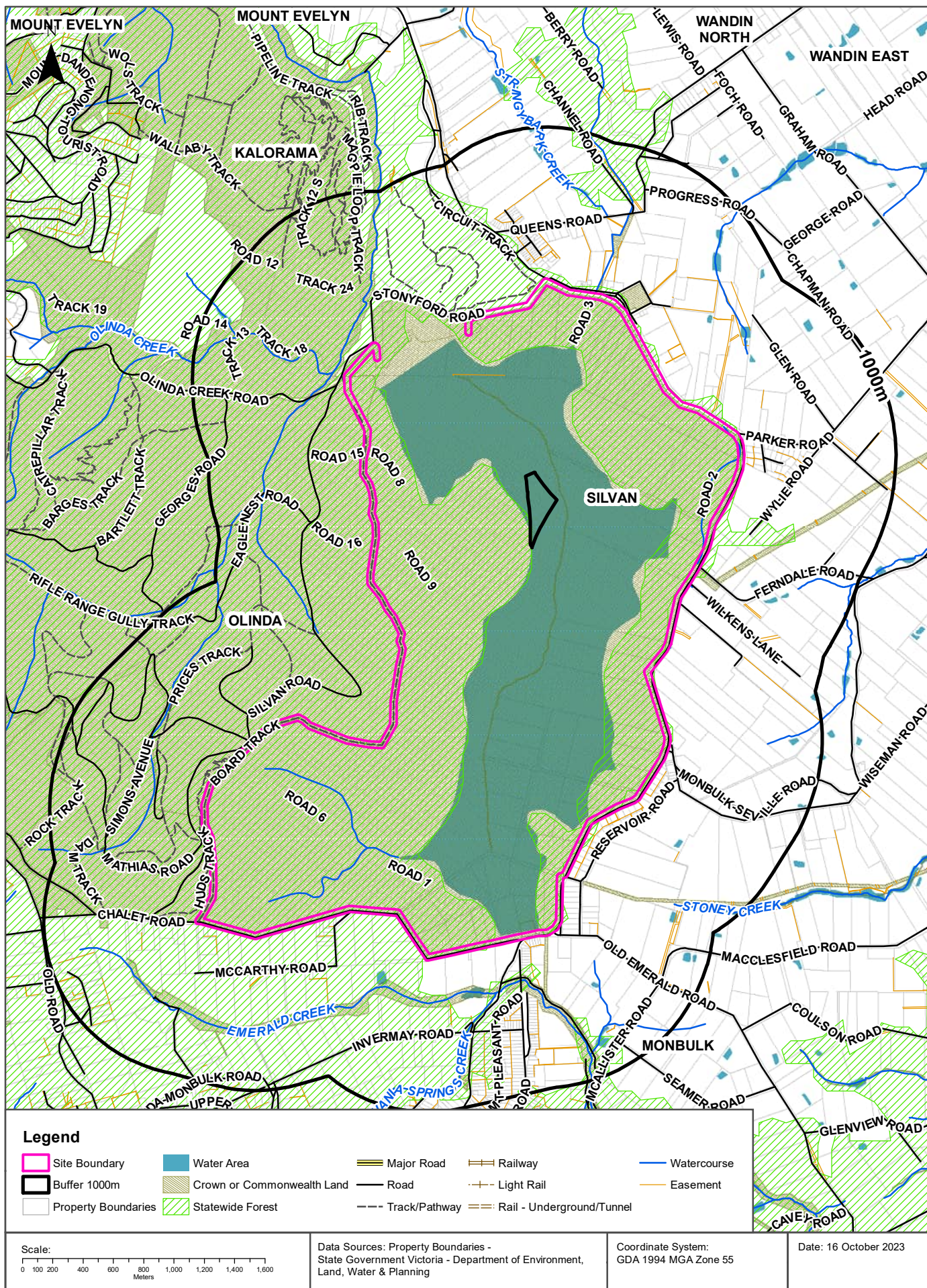
Silvan Reservoir, Monbulk Rd, Monbulk, VIC 3793



<p><b>Legend</b></p> <ul style="list-style-type: none"> <li><span style="display: inline-block; width: 15px; height: 10px; border: 2px solid pink; margin-right: 5px;"></span> Site Boundary</li> <li><span style="display: inline-block; width: 15px; height: 10px; border: 1px solid lightpink; margin-right: 5px;"></span> Internal Parcel Boundaries</li> </ul>	<p><b>Total Area:</b> 558475m<sup>2</sup></p> <p><b>Total Perimeter:</b> 27.95km</p> <p>Disclaimers:</p> <p>Measurements are approximate only and may have been simplified or smaller lengths removed for readability.</p> <p>Parcels that make up a small percentage of the total site area have not been labelled for increased legibility.</p>	<p>Scale:</p> <p>0 100 200 400 600 800 1,000 Meters</p> <p>Data Source Aerial Imagery: © Aerometrex Pty Ltd</p> <table border="1" style="width: 100%;"> <tr> <td style="width: 50%;">Coordinate System: GDA 1994 MGA Zone 55</td> <td style="width: 50%;">Date: 16 October 2023</td> </tr> </table>	Coordinate System: GDA 1994 MGA Zone 55	Date: 16 October 2023
Coordinate System: GDA 1994 MGA Zone 55	Date: 16 October 2023			

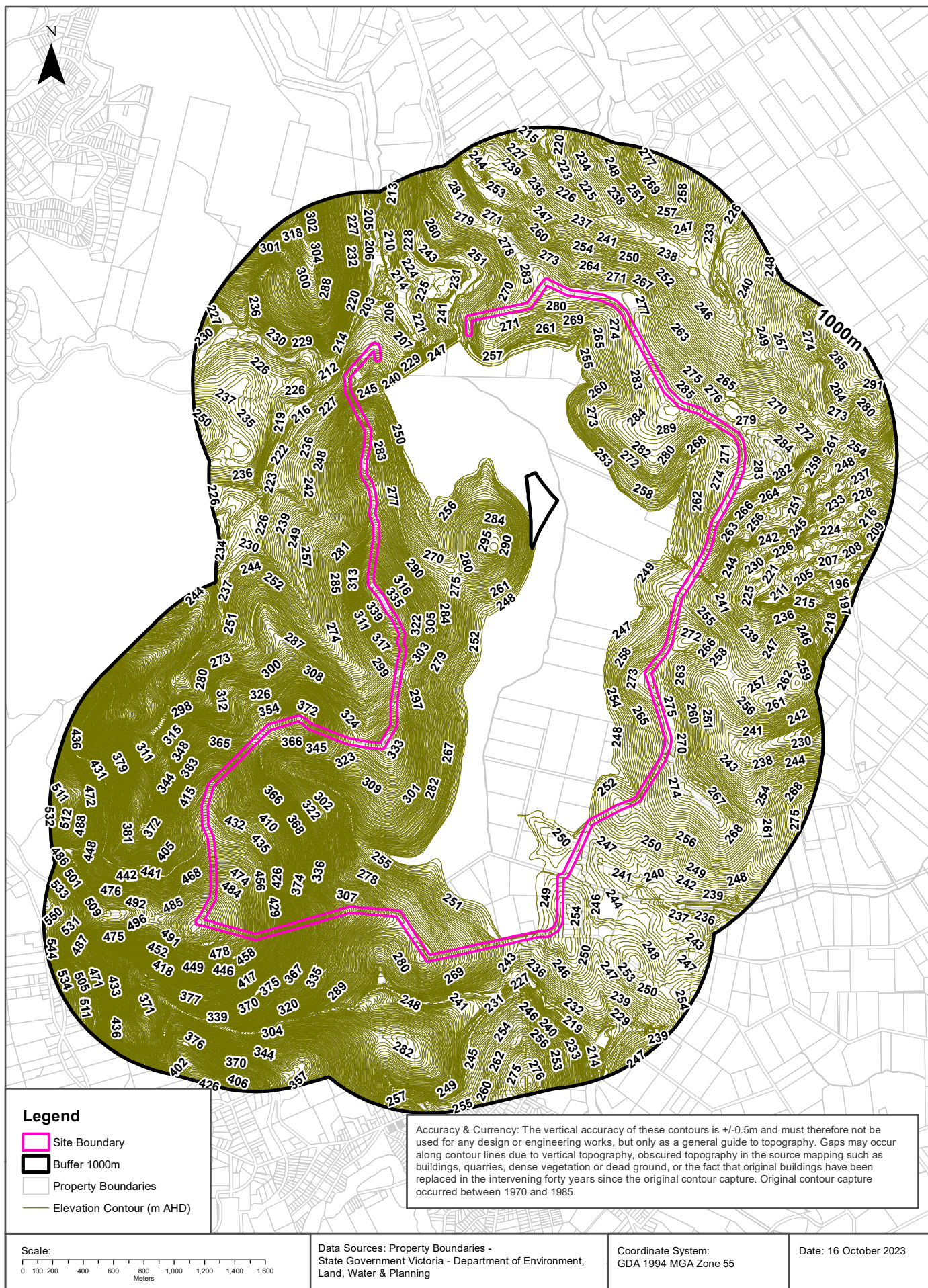
# Topographic Data

Silvan Reservoir, Monbulk Rd, Monbulk, VIC 3793



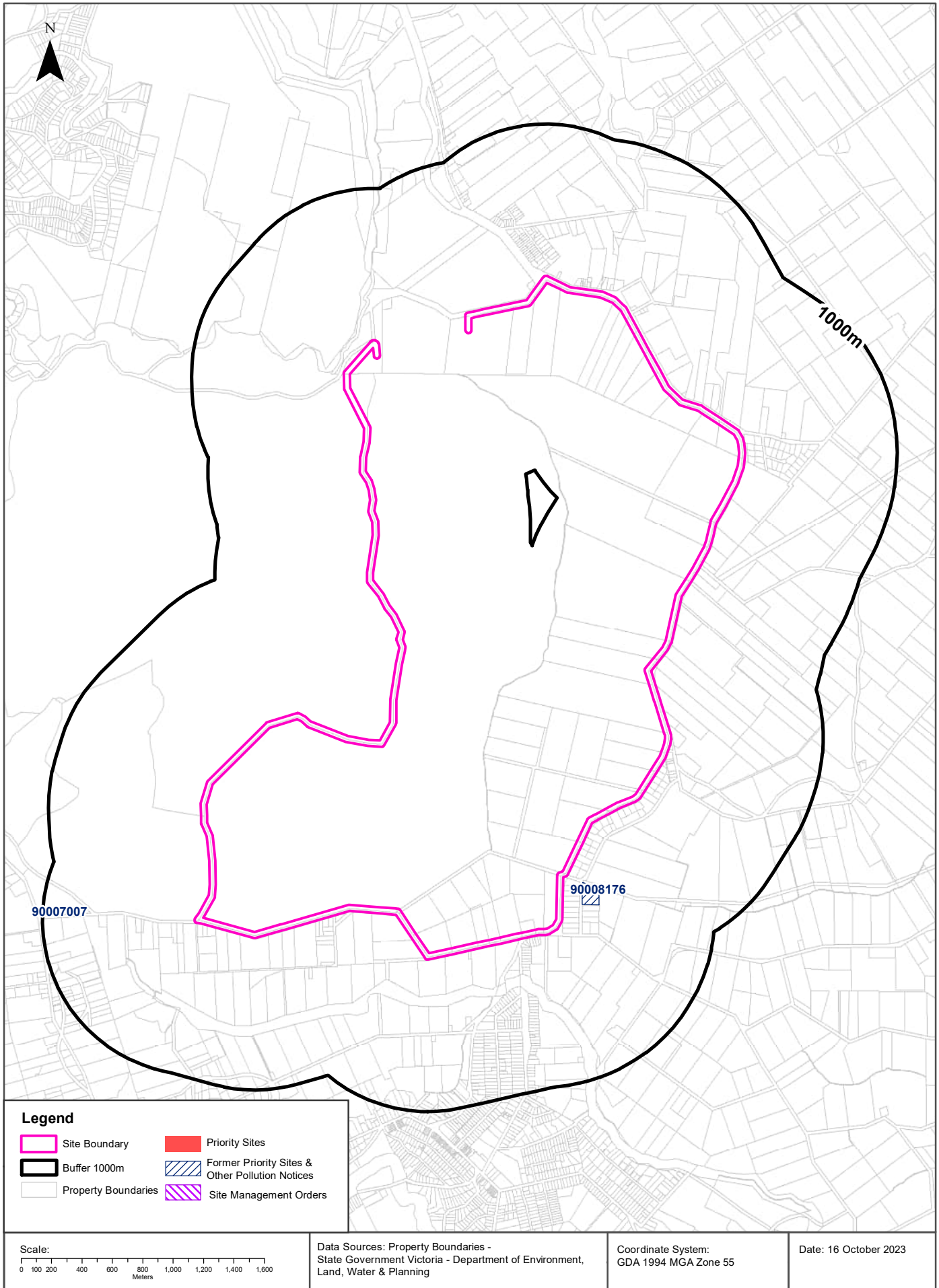
# Elevation Contours (m AHD)

Silvan Reservoir, Monbulk Rd, Monbulk, VIC 3793



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

Silvan Reservoir, Monbulk Rd, Monbulk, VIC 3793





# EPA Priority Sites, Site Management Orders & Pollution Notices

Silvan Reservoir, Monbulk Rd, Monbulk, VIC 3793

## 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
90008176	Pollution Abatement Notice	SYLVAN GLADES INC	15 Anderson RD MONBULK VIC 3793	MONBULK	Previous Pollution Notice		16/10/2017	Premise Match	110m	South East
90007007	Pollution Abatement Notice	PARKS VICTORIA	11 Woolrich Road	OLINDA	Previous Pollution Notice		27/06/2016	Premise Match	859m	South West

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

# PFAS Investigation & Management Programs

Silvan Reservoir, Monbulk Rd, Monbulk, VIC 3793

## 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

Silvan Reservoir, Monbulk Rd, Monbulk, VIC 3793

## 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)

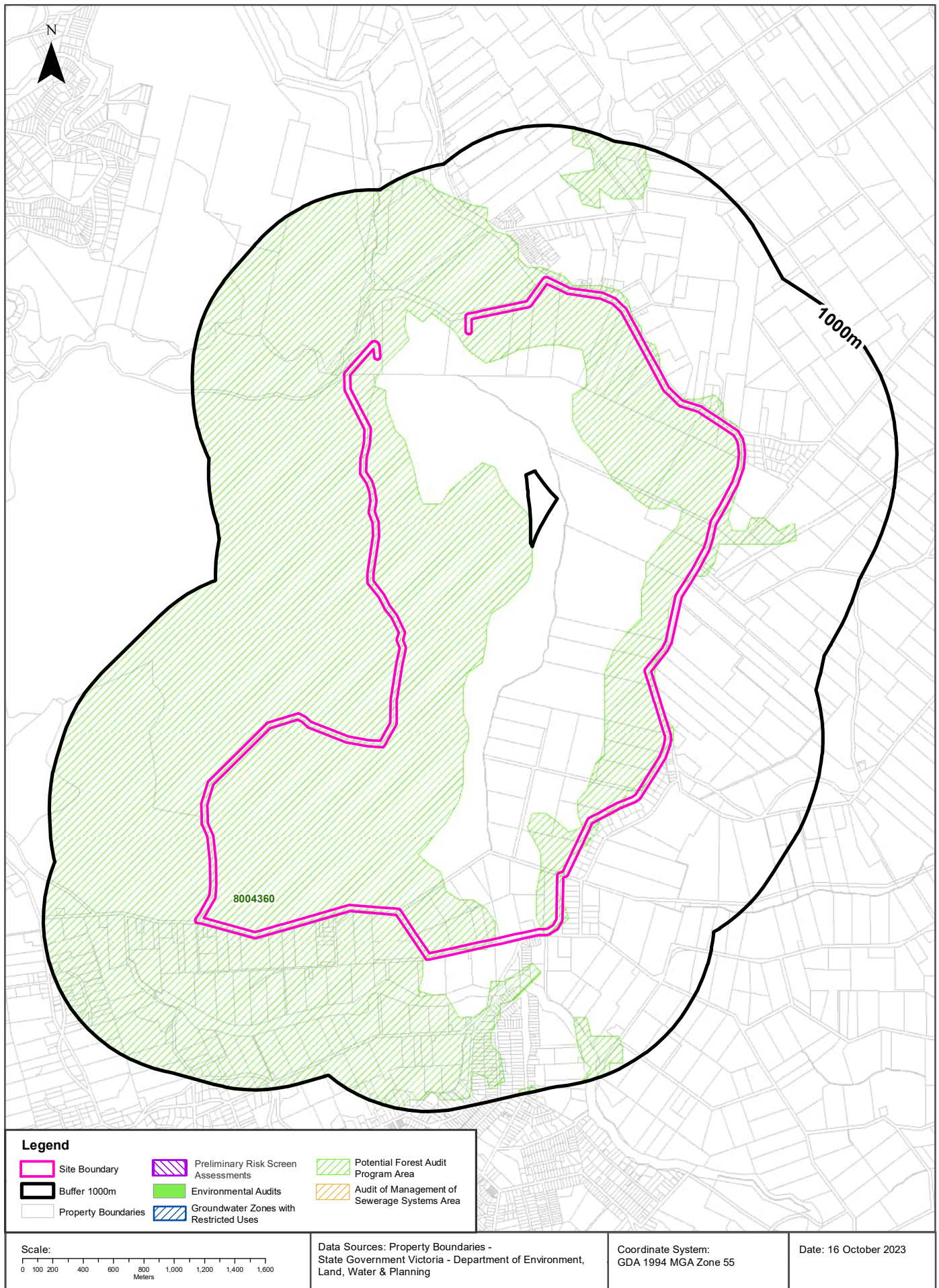
Sites which have been assessed by the Department of Defence for the potential presence of unexploded ordnance within the dataset buffer:

Site ID	Location Name	Category	Area Description	Additional Information	Commonwealth	Loc Conf	Dist	Dir
N/A	No records in buffer							

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



Silvan Reservoir, Monbulk Rd, Monbulk, VIC 3793



## EPA Records

Silvan Reservoir, Monbulk Rd, Monbulk, VIC 3793

## 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						

Environmental 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
<a href="#">8004360</a>	68515-9	Forest audit program and the assessment of forest coupe plans located in State Forests within the Central, Dandenong and Bendigo Forest Management Areas. Note. Lotsearch cannot obtain the specific locations of the coupes being assessed	DANDENONG VIC 3175	DANDENONG	11/02/2015	53V Audit recommendations	Area Match	0m	On-site

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

## EPA Records

Silvan Reservoir, Monbulk Rd, Monbulk, VIC 3793

### EPA Groundwater Zones with Restricted Uses

EPA GQRUZ records that exist within the dataset buffer:

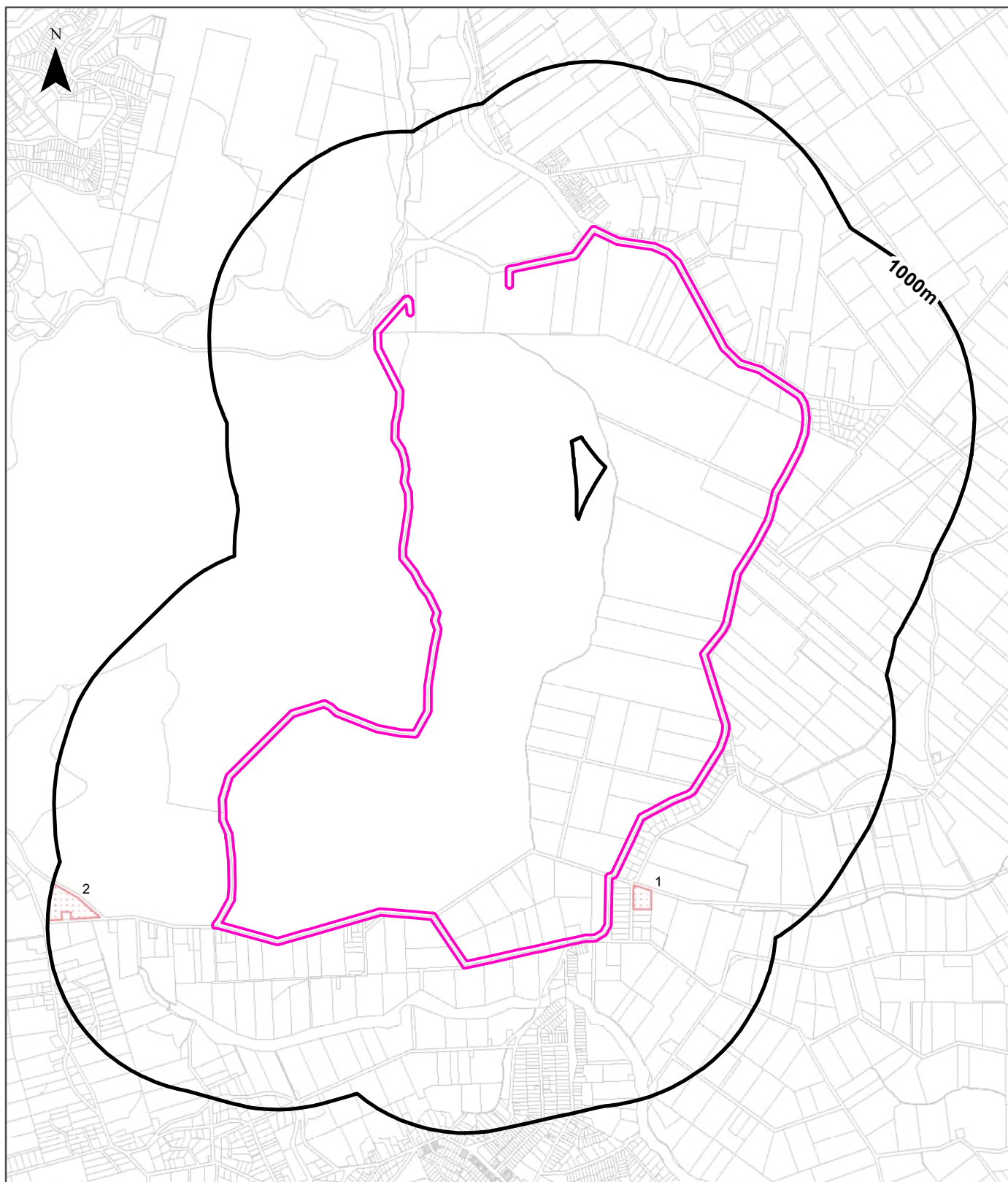
Note. Please click on CARMS No. to activate a hyperlink to online documentation.

CARMS No	EPA Id	Site History	Site Address	Restricted Uses	Status	Loc Conf	Distance	Direction
N/A	No records in buffer							

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

# EPA Activities - Register of Permissions

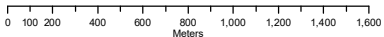
Silvan Reservoir, Monbulk Rd, Monbulk, VIC 3793



### Legend

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

### Scale:



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

Coordinate System: GDA 1994 MGA Zone 55

Date: 16 October 2023

# EPA Activities

Silvan Reservoir, Monbulk Rd, Monbulk, VIC 3793

## 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	<a href="#">OL000003416</a>	Operating Licence (any other case)	A03 (Sewage treatment)	15 Anderson Rd Monbulk VIC 3793 AU	Active	23/10/1973	31/12/9999	<a href="#">Link</a>	Premise Match	110m	South East
2	<a href="#">R000302202</a>	Registration	A13c (Waste and resource recovery - small)	1 Woolrich Rd, Olinda, Victoria, 3788	Active	11/12/2021	10/12/2026	<a href="#">Link</a>	Premise Match	684m	South West

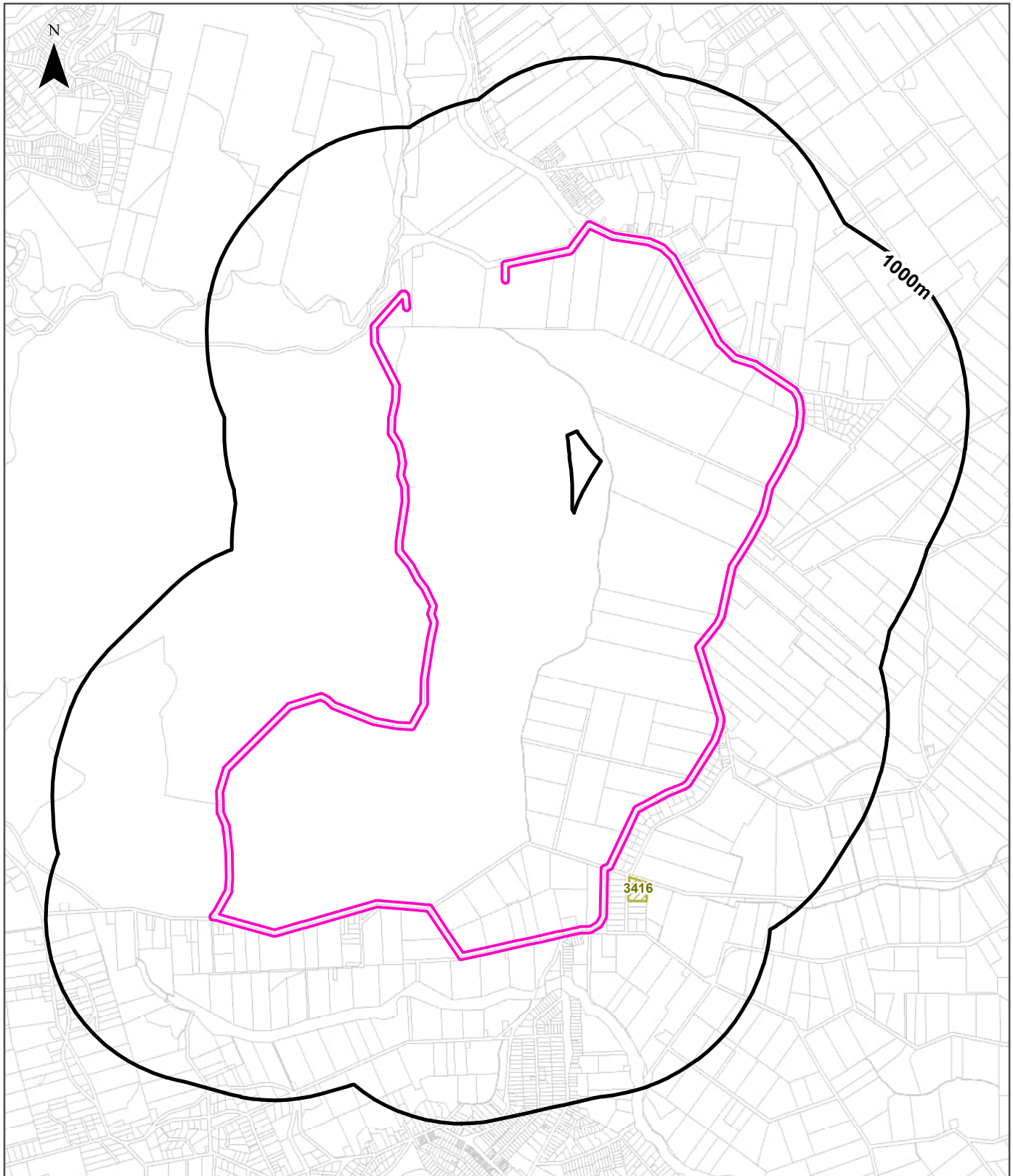
EPA Register of Permissions Custodian: State Government Victoria - Environment Protection Authority (EPA)

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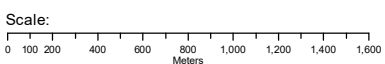
# EPA Records - Legacy Licensed Activities & Works Approvals

Silvan Reservoir, Monbulk Rd, Monbulk, VIC 3793



## 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: 16 October 2023

## EPA Activities

Silvan Reservoir, Monbulk Rd, Monbulk, VIC 3793

### 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
3026776	3416	Licence	SYLVAN GLADES INC [MONBULK]		15 ANDERSON RD	MONBULK VIC 3793	A03 Sewage Treatment	Premise Match	110m	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
N/A	No records in buffer								

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

## Waste Management Facilities & Landfills

Silvan Reservoir, Monbulk Rd, Monbulk, VIC 3793

### National Waste Management Site Database

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

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

Waste Management Facilities Data Source: 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
N/A	No records in buffer								

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
N/A	No records in buffer									

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

# Waste Management Facilities & Landfills

Silvan Reservoir, Monbulk Rd, Monbulk, VIC 3793

## EPA Victorian Landfill Register

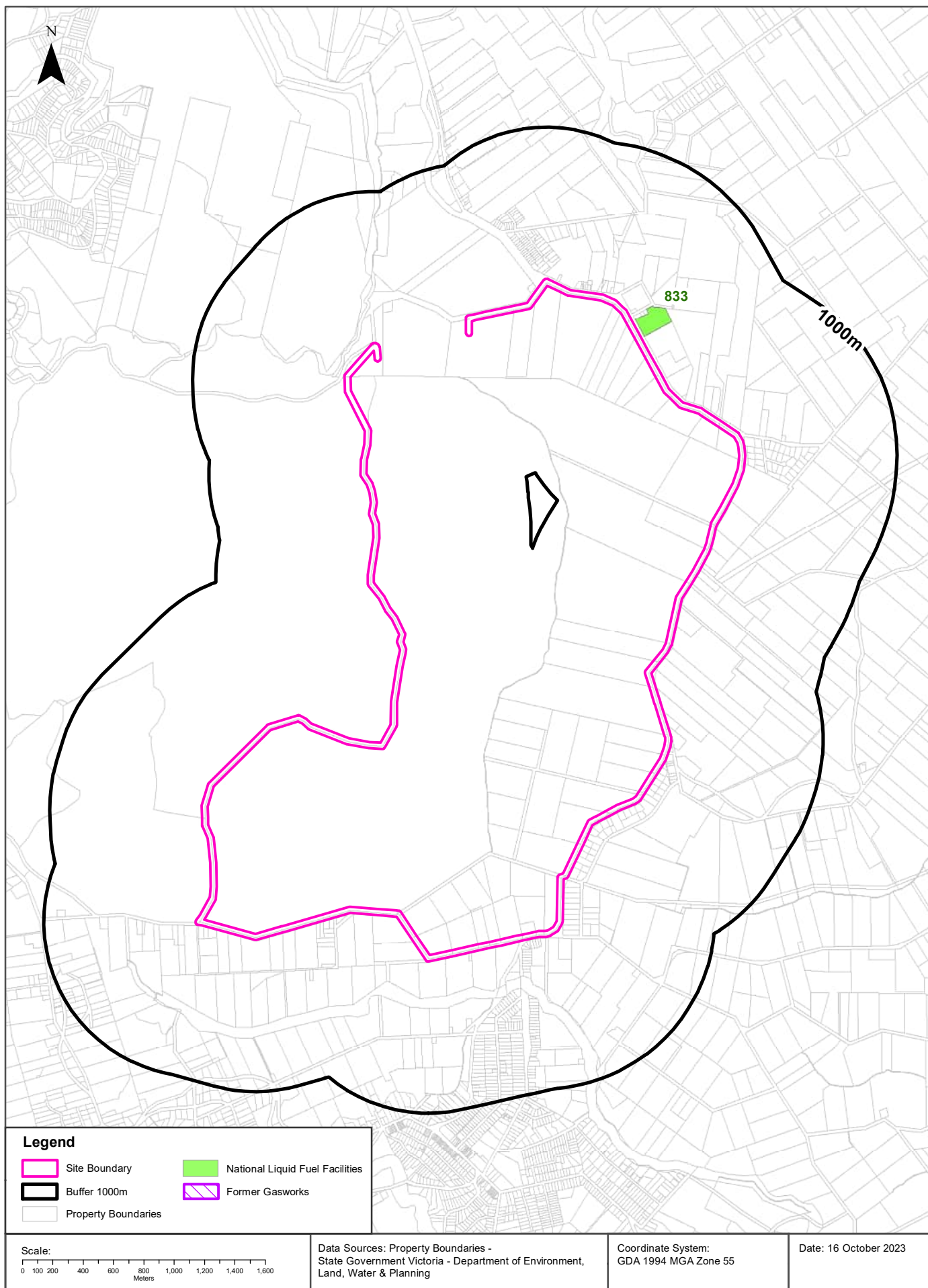
EPA Victorian Landfill Register sites within the dataset buffer:

Landfill Register No.	Site	Address	Operating Status	Est. Year Of Closure	Waste type	Loc Conf	Dist (m)	Direction
N/A	No records in buffer							

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

# Former Gasworks & Liquid Fuel Facilities

Silvan Reservoir, Monbulk Rd, Monbulk, VIC 3793



## Former Gasworks and Liquid Fuel Facilities

Silvan Reservoir, Monbulk Rd, Monbulk, VIC 3793

### 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:

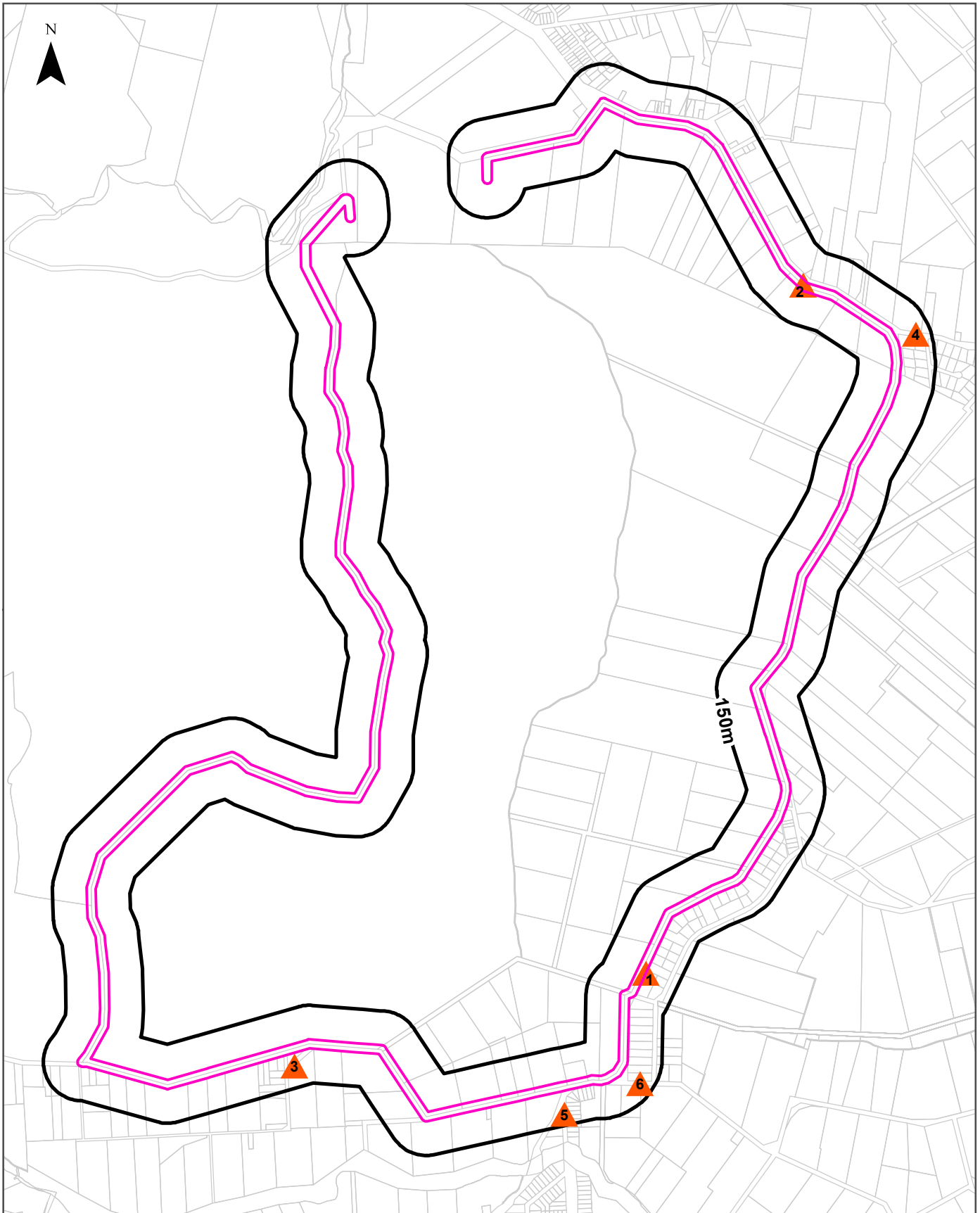
Map Id	Owner	Name	Address	Suburb	Class	Operational Status	Operator	Revision Date	Loc Conf	Dist (m)	Direction
833	Shell	Princi Motors	273 Monbulk Road	Silvan	Petrol Station	Operational		25/07/2011	Premise Match	20m	North East

National Liquid Fuel Facilities Data Source: Geoscience Australia

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# Historical Business Directories

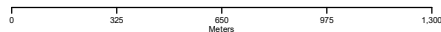
Silvan Reservoir, Monbulk Rd, Monbulk, VIC 3793



## Legend

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

Scale:



Coordinate System:  
GDA 1994 MGA Zone 55

Date: 16 October 2023

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Property Boundaries © State Government Victoria - Dept. of Environment, Land, Water & Planning 2023

## Historical Business Directories

Silvan Reservoir, Monbulk Rd, Monbulk, VIC 3793

### Business Directory Records 1905-1991 Premise or Road Intersection Matches

Universal Business Directory and Sands & McDougall Directory records, from years 1991, 1984, 1980, 1977, 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
N/A	No records in buffer						

Business Directory Content reproduced with permission of UBD and Hardie Grant Media Pty Ltd DD 01/08/2018 and Sands & McDougall's Directory of Victoria (Digitised by State Library Victoria)



## Business Directory Records 1905-1991 Road or Area Matches

Universal Business Directory and Sands & McDougall Directory records, from years 1991, 1984, 1980, 1977, 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
1	Television Repairs &/or Service Contractors	Moores T.V. Service, Monbulk Rd., Monbulk. 3793	13075	1991	Road Match	0m
	BAKERS &/OR PASTRYCOOKS.	Connell C. J & J , Monbulk Rd., Monbulk. 3793.	3240	1984	Road Match	0m
	PRODUCE MERCHANTS.	Monbulk Produce Pty. Ltd., Monbulk Rd., Monbulk. 3793.	52215	1984	Road Match	0m
	TELEVISION REPAIRS	Moores T. V. Service, Monbulk Rd., Monbulk. 3793	60529	1984	Road Match	0m
	BUILDERS SUPPLIES	Blue Hills Constructions., Silvan Rd, Monbulk	57232	1970	Road Match	0m
	BULB GROWERS	Boekels Bulb Nursery., Silvan Rd. Monbulk	57235	1970	Road Match	0m
	BULB GROWERS	Broersen Bulb Nursery., Silvan Rd. Monbulk	57236	1970	Road Match	0m
	NURSERYMEN	Mernda Heights Nursery Pty. Ltd., Monbulk Rd. Monbulk	57309	1970	Road Match	0m
	ROTARY HOEING CONTRACTORS	Ruigrok, F. J., Silvan Rd. Monbulk	57319	1970	Road Match	0m
	AGRICULTURAL CONTRACTORS	Rulgrok, P. J., Silvan Rd. Monbulk	57218	1970	Road Match	0m
	BULB GROWERS	Tesselaar, G. I., Silvan Rd. Monbulk	57238	1970	Road Match	0m
	BULB GROWERS	Van Berkel Bros. Pty. Ltd., Silvan Rd. Monbulk	57239	1970	Road Match	0m
	NURSERYMEN	Van Berkel Bros., Silvan Rd. Monbulk	57313	1970	Road Match	0m
	BULB GROWERS	Vandernwct's Bulb Nursery., Silvan Rd. Monbulk	57240	1970	Road Match	0m
	BULB GROWERS	Yarrafarm Bulb Co., Silvan Rd. Monbulk	57241	1970	Road Match	0m
	BULB GROWERS	Boekels Bulb Nursery, Silvan Rd., Monbulk	117903	1960	Road Match	0m
	BULB GROWERS	Broesem Bulb Nursery, Silvan Rd., Monbulk	117904	1960	Road Match	0m
	BULB GROWERS	Marr, C., Silvan Rd., Monbulk	117906	1960	Road Match	0m
	BULB GROWERS	Yarrafarm Bulb Co., Silvan Rd., Monbulk	117902	1960	Road Match	0m
	BUILDERS & BUILDING CONTRACTORS	Gaina. W, J., Lilydale Rd. Monbulk	117503	1950	Road Match	0m
CARRIERS & CARTAGE CONTRACTORS	Johnstone. T, W., Silvan Rd. Monbulk	117516	1950	Road Match	0m	
2	NURSERYMEN.	Broersen Seed & Bulb Nursery, Main Rd., Silvan. 3795	47921	1984	Road Match	0m
	BUILDERS &/OR BUILDING CONTRACTORS.	Fern. W. D., Main Rd., Silvan. 3795	5542	1984	Road Match	0m
	MOTOR' GARAGES &/OR ENGINEERS &/OR SERVICE STATIONS.	Motors., Main Rd., Silvan.3795	44969	1984	Road Match	0m
	PRODUCE MERCHANTS.	Silvan Produce & Hardware Pty. Ltd., Main Rd., Silvan. 3795.	52222	1984	Road Match	0m
	REAL ESTATE AGENTS	Silvan Real Estate, Main Rd., Silvan. 3795.	53150	1984	Road Match	0m
	NURSERYMEN.	Tesselaar, C. I., Main Rd., Silvan. 3795	48003	1984	Road Match	0m
	NURSERYMEN.	Broersen Seed & Bulb Nursery, Main Rd., Silvan.	41093	1980	Road Match	0m

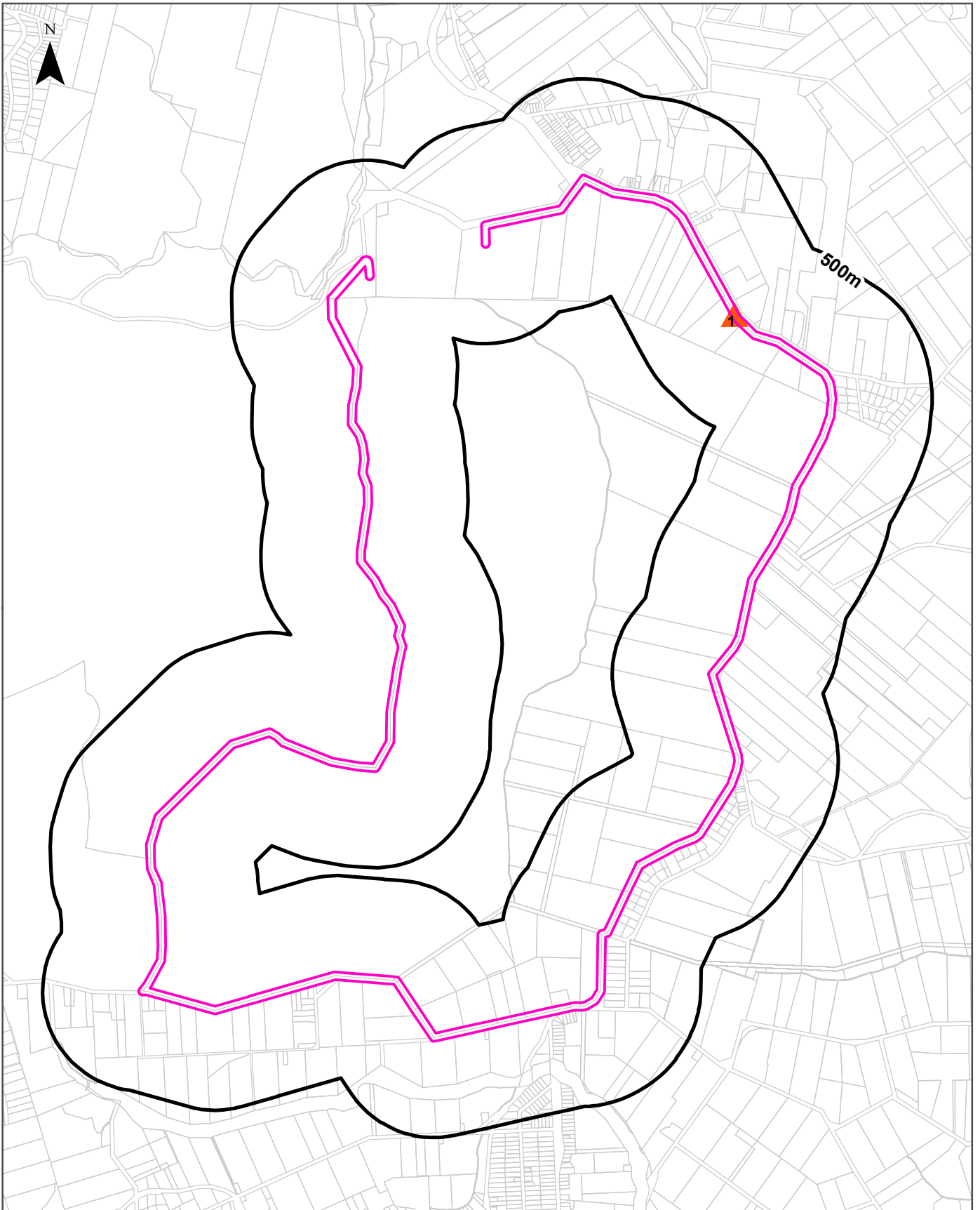
Map Id	Business Activity	Premise	Ref No.	Year	Location Confidence	Distance to Road Corridor or Area
2	SEEDSMEN & NURSERYMEN	Broersen Seed & Bulb Nursery, Main Rd., Silvan.	49460	1980	Road Match	0m
	BUILDERS &/OR BUILDING CONTRACTORS.	Fern, W. D., Main Rd., Silvan.	3401	1980	Road Match	0m
	SEEDSMEN & NURSERYMEN	Tesselaar, C. I., Main Rd., Silvan.	49493	1980	Road Match	0m
	NURSERYMEN.	Broersen Seed & Bulb Nursery., Main Rd., Silvan. 3795	27326	1977	Road Match	0m
	SEEDSMEN & NURSERYMEN	Broersen Seed & Bulb Nursery., Main Rd., Silvan. 3795	34568	1977	Road Match	0m
	BUILDERS &/OR BUILDING CONTRACTORS	Fern, W. D., Main Rd., Silvan. 3795	3770	1977	Road Match	0m
	SEEDSMEN & NURSERYMEN	Tesselaar, C. I., Main Rd., Silvan 3795	34623	1977	Road Match	0m
	FRUITERS AND GREENGROCERS	Henderson, H., Silvan Rd. Silvan	57739	1970	Road Match	0m
	SEEDSMEN & NURSERYMEN	Tesselaar, C. I., Monbulk Rd. Silvan	57753	1970	Road Match	0m
	FRUITERS & GREENGROCERS	Henderson, H., Silvan Rd., Silvan	123261	1960	Road Match	0m
	SEEDSMEN & NURSERYMEN	Tesselaar, C. I., Monbulk Rd., Silvan	123275	1960	Road Match	0m
	SEEDSMEN & NURSERYMEN	Tesselaar. C. I., Monbulk Rd. Silvan	127096	1950	Road Match	0m
3	SEEDSMEN & NURSERYMEN	Rangeview Nursery, McCarthy Rd., Olinda. 3788	55329	1984	Road Match	0m
	SEEDSMEN & NURSERYMEN	Rangeview Nursery, McCarthy Rd., Olinda.	49480	1980	Road Match	0m
	SEEDSMEN & NURSERYMEN	Rangeview Nursery., McCarthy Rd., Olinda. 3788	34608	1977	Road Match	0m
	NURSERYMEN & SEEDSMEN	Rangeview Nursery., McCarthy Rd. Olinda	57522	1970	Road Match	0m
4	CARRIERS AND CARTAGE CONTRACTORS	Burrows, K. W., Parker Rd, Silvan	57736	1970	Road Match	16m
	CARRIERS & CARTAGE CONTRACTORS	Burrows, K. W., Parker Rd., Silvan	123258	1960	Road Match	16m
5	PAINTERS, PAPERHANGERS &/OR DECORATORS.	Van De Velde., Moores Rd., Monbulk. 3793	28126	1977	Road Match	34m
	SCHOOLS	Pre-School., Moore's Rd. Monbulk	57321	1970	Road Match	34m
	PAINTERS & DECORATORS	Van de Velde., Moore's Rd. Monbulk	57316	1970	Road Match	34m
	BUILDERS & BUILDING CONTRACTORS	Benson, M. G., Moore's Rd. Monbulk	117498	1950	Road Match	34m
	BULB GROWERS	Edgevale Gardens., Moore's Rd. Monbulk	117508	1950	Road Match	34m
	FLORISTS	Edgevale Gardens., Moore's Rd. Monbulk	117531	1950	Road Match	34m
	SEEDSMEN & NURSERYMEN	Edgevale Gardens., Moore's Rd. Monbulk	117560	1950	Road Match	34m
	SEEDSMEN & NURSERYMEN	Mystic Lakes., Moore's Rd. Monbulk	117562	1950	Road Match	34m
	GUEST HOUSES	Strathbungo Guest House (A. Paterson, Propr.), Moores Rd. Monbulk	117546	1950	Road Match	34m
6	Seed Merchants	Blue Dandenong Bulb Farm, Old Emerald Rd Monbulk 3793	51517	1991	Road Match	36m
	Nurserymen – Wholesale.	Blue Dandenong Bulb Farm., Old Emerald Rd., Monbulk 3793	19503	1991	Road Match	36m
	Glasshouse Construction & Equipment	Hortcraft Ltd, Lot 2A Old Emerald Rd Monbulk 3793	21406	1991	Road Match	36m
	Nurserymens Supplies.	Hortcraft Pty. Ltd., Lot 2A Old Emerald Rd., Monbulk 3793	19523	1991	Road Match	36m
	SEEDSMEN & NURSERYMEN	Blue Dandenong Bulk Farm, Old Emerald Rd., Monbulk. 3793	55289	1984	Road Match	36m
	SEEDSMEN & NURSERYMEN	Blue Dandenong Bulk Farm, Old Emerald Rd., Monbulk.	49428	1980	Road Match	36m
	NURSERYMEN	Mossmont Nurseries Pty. Ltd., Old Emerald Rd. Monbulk	57312	1970	Road Match	36m
	NURSERYMEN	Wayside Nurseries., old Emerald Rd. Monbulk	57314	1970	Road Match	36m

Map Id	Business Activity	Premise	Ref No.	Year	Location Confidence	Distance to Road Corridor or Area
6	BUILDERS & BUILDING CONTRACTORS	Sideral. E, C. Waverley., Emerald Rd. Monbulk	117499	1950	Road Match	36m

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# Dry Cleaners, Motor Garages & Service Stations

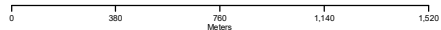
Silvan Reservoir, Monbulk Rd, Monbulk, VIC 3793



## Legend

- Site Boundary
- Buffer 500m
- Property Boundary
- Business directory records mapped to a specific premise
- Business directory records mapped to a road intersection
- Business directory records mapped to a road corridor
- Business directory records mapped to a general area

Scale:



Coordinate System:  
GDA 1994 MGA Zone 55

Date: 16 October 2023

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## Historical Business Directories

Silvan Reservoir, Monbulk Rd, Monbulk, VIC 3793

### 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
N/A	No records in buffer						

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

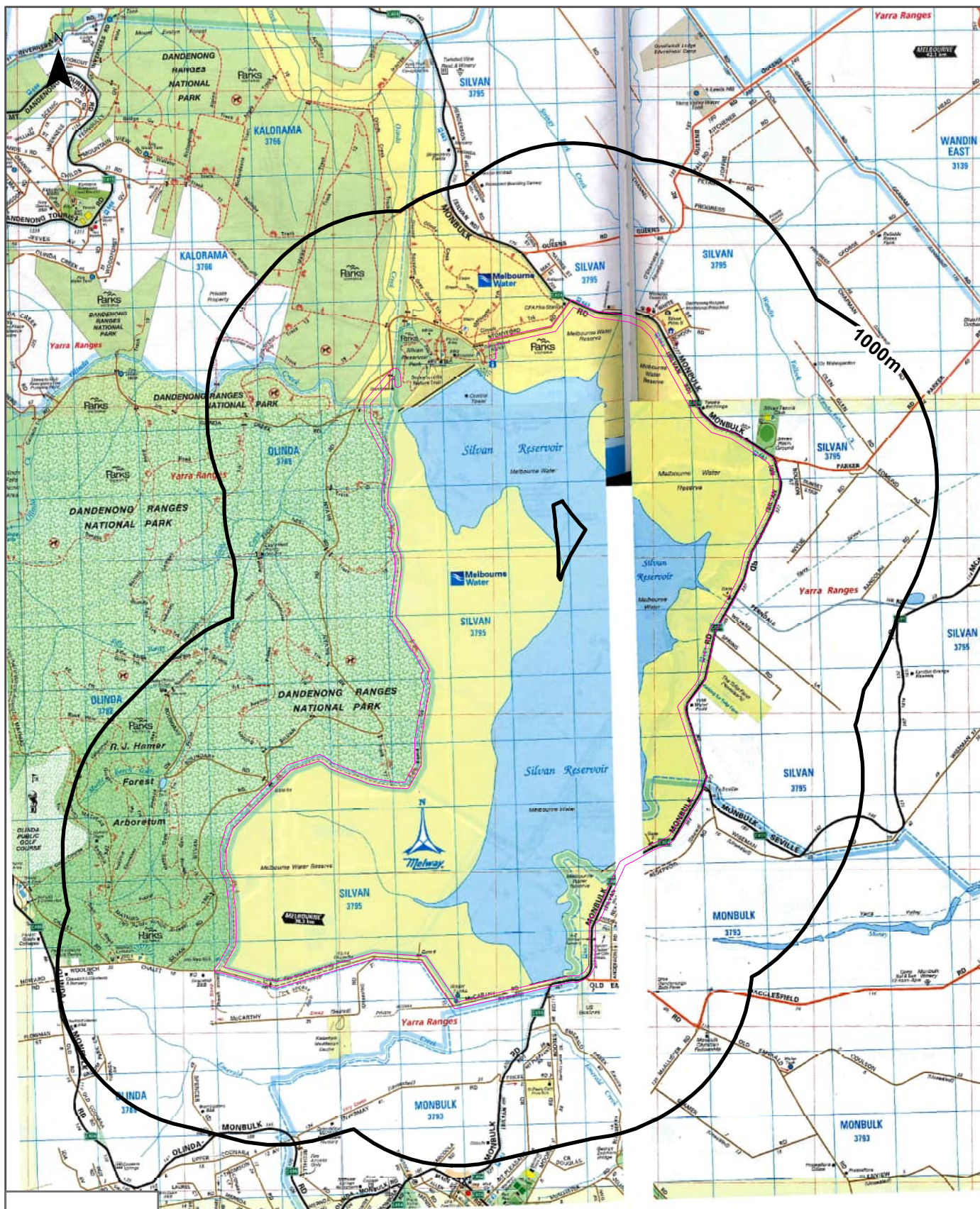
Dry Cleaners, Motor Garages & Service Stations from UBD Business Directories and Sands & McDougall's Directories, mapped to a road or an area within the dataset buffer. Records are mapped to the road when a building number is not supplied, cannot be found, or the road has been renumbered since the directory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

Map Id	Business Activity	Premise	Ref No.	Year	Location Confidence	Distance to Road Corridor or Area
1	MOTOR GARAGES &/OR ENGINEERS &/OR SERVICE STATIONS.	Motors., Main Rd., Silvan.3795	44969	1984	Road Match	0m

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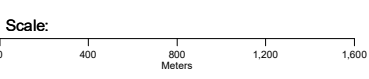
# Historical Map 2009

Silvan Reservoir, Monbulk Rd, Monbulk, VIC 3793



**Legend**

- Site Boundary
- Buffer 1000m



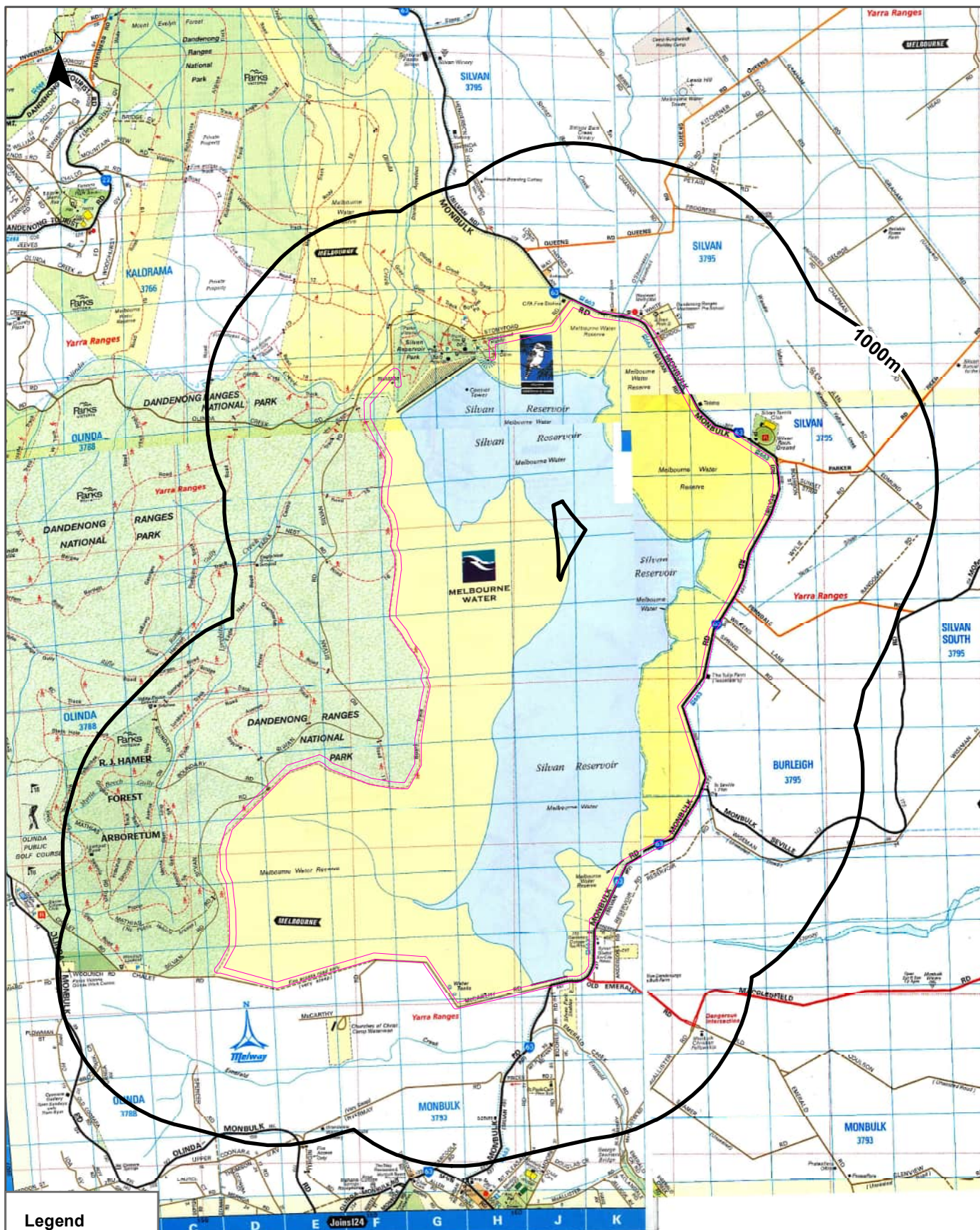
Data Sources: Maps reproduced from 2009, Edition 36 of the Melway Street Directory

Coordinate System: GDA 1994 MGA Zone 55

Date: 16 October 2023

# Historical Map 1998

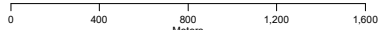
Silvan Reservoir, Monbulk Rd, Monbulk, VIC 3793



### Legend

- Site Boundary
- Buffer 1000m

### Scale:



Data Sources: Maps reproduced from 1998, Edition 25 of the Melway Street Directory

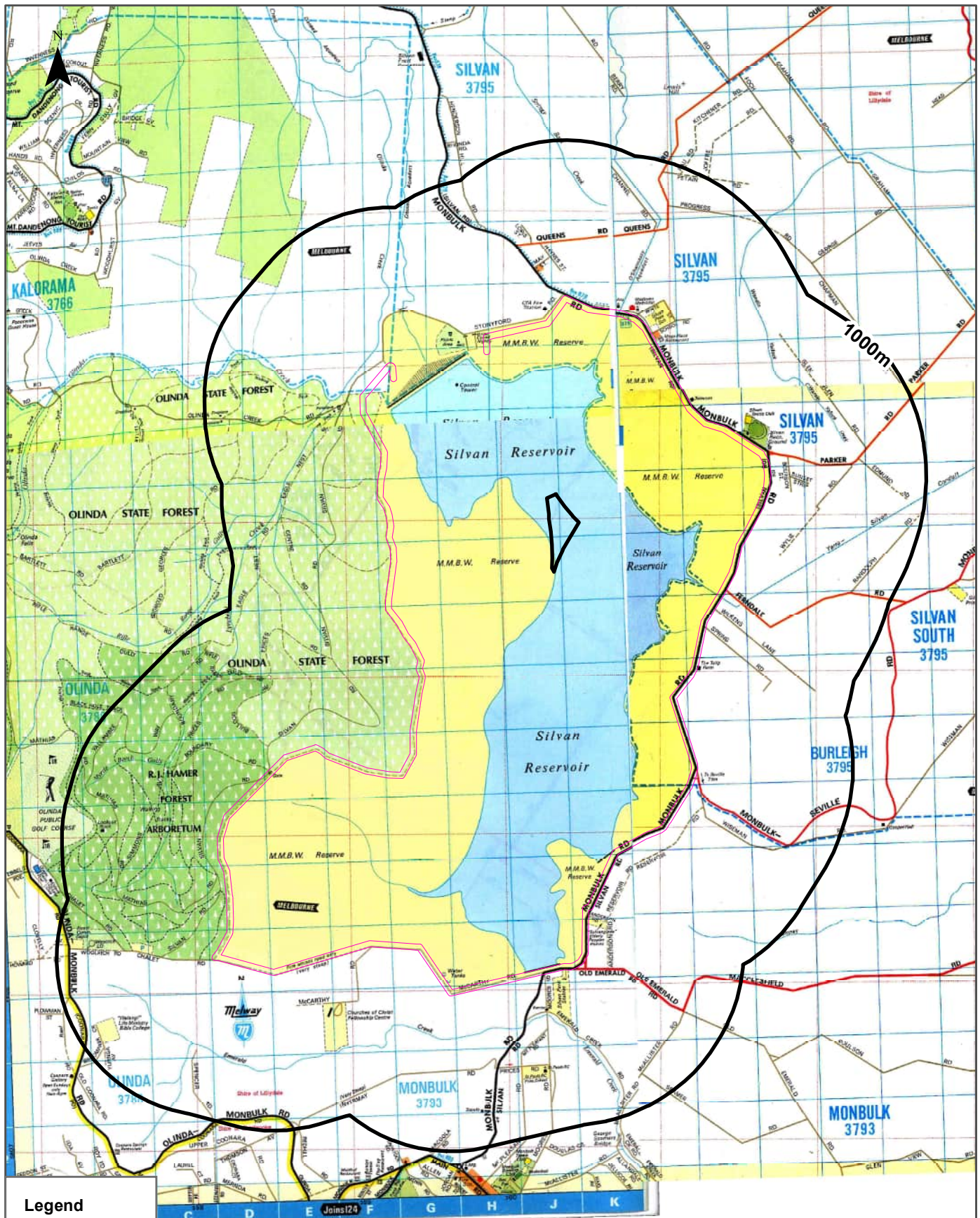
Coordinate System: GDA 1994 MGA Zone 55

Date: 16 October 2023



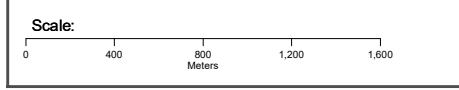
# Historical Map 1986

Silvan Reservoir, Monbulk Rd, Monbulk, VIC 3793



**Legend**

- Site Boundary
- Buffer 1000m



Data Sources: Maps reproduced from 1986, Edition 16 of the Melway Street Directory

Coordinate System: GDA 1994 MGA Zone 55

Date: 16 October 2023

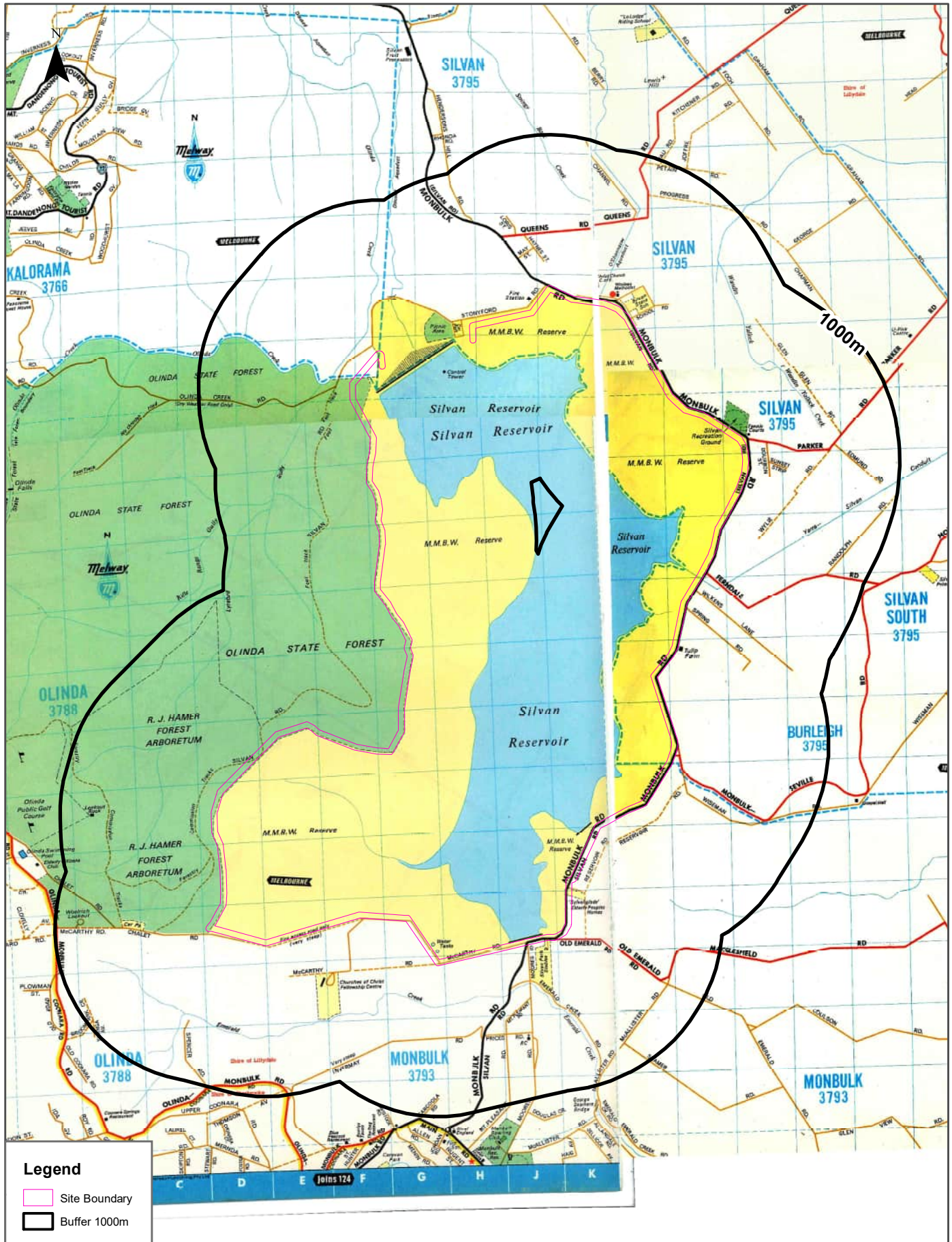
# Historical Map 1982

Silvan Reservoir, Monbulk Rd, Monbulk, VIC 3793



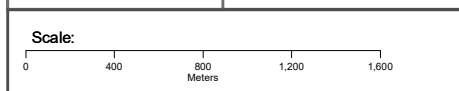
# Historical Map 1978

Silvan Reservoir, Monbulk Rd, Monbulk, VIC 3793



**Legend**

- Site Boundary
- Buffer 1000m



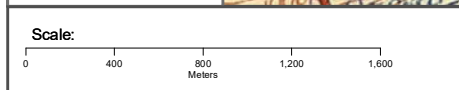
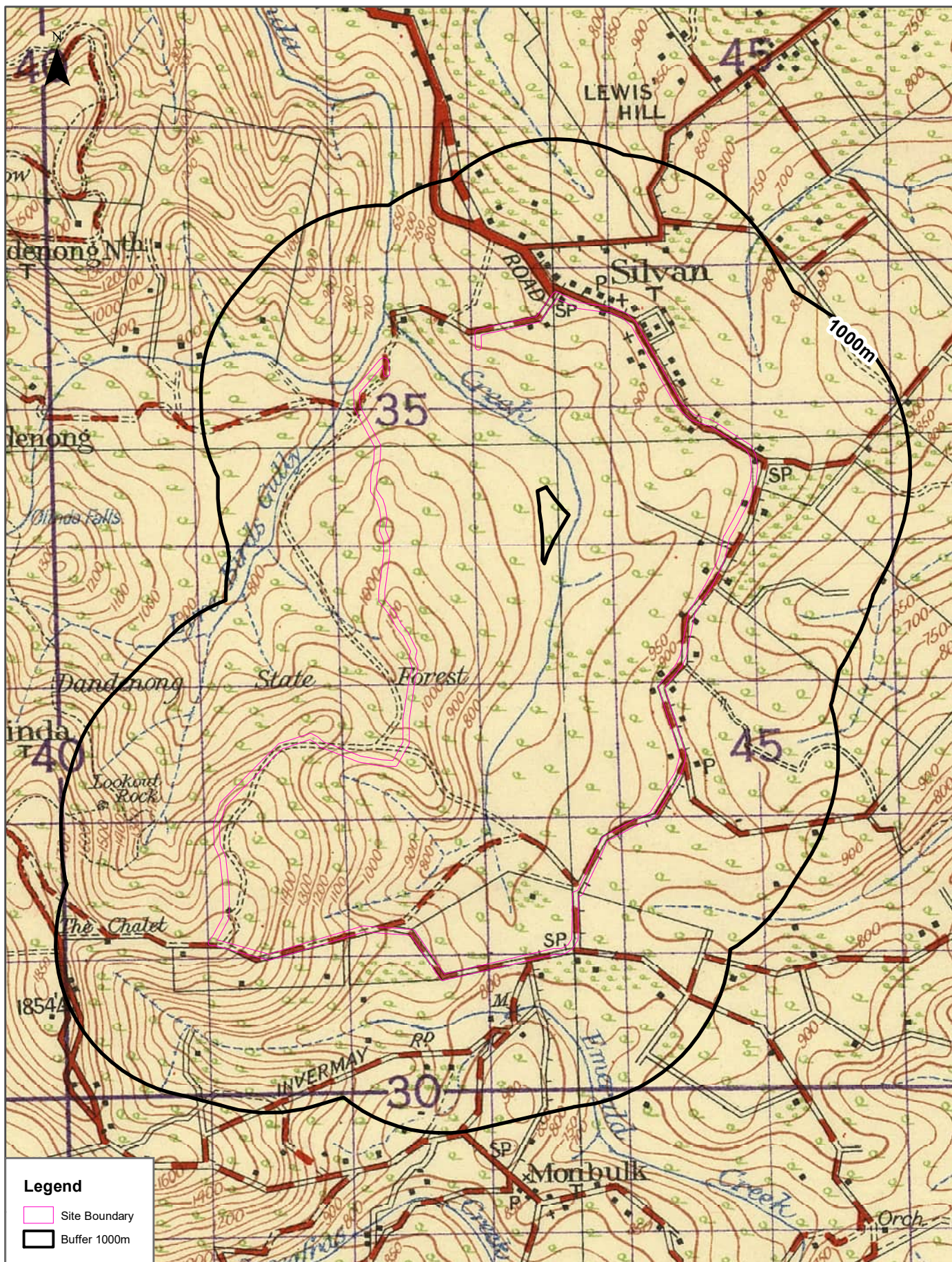
Data Sources: Maps reproduced from 1978, Edition 11 of the Melway Street Directory

Coordinate System: GDA 1994 MGA Zone 55

Date: 16 October 2023

# Historical Map c.1922

Silvan Reservoir, Monbulk Rd, Monbulk, VIC 3793



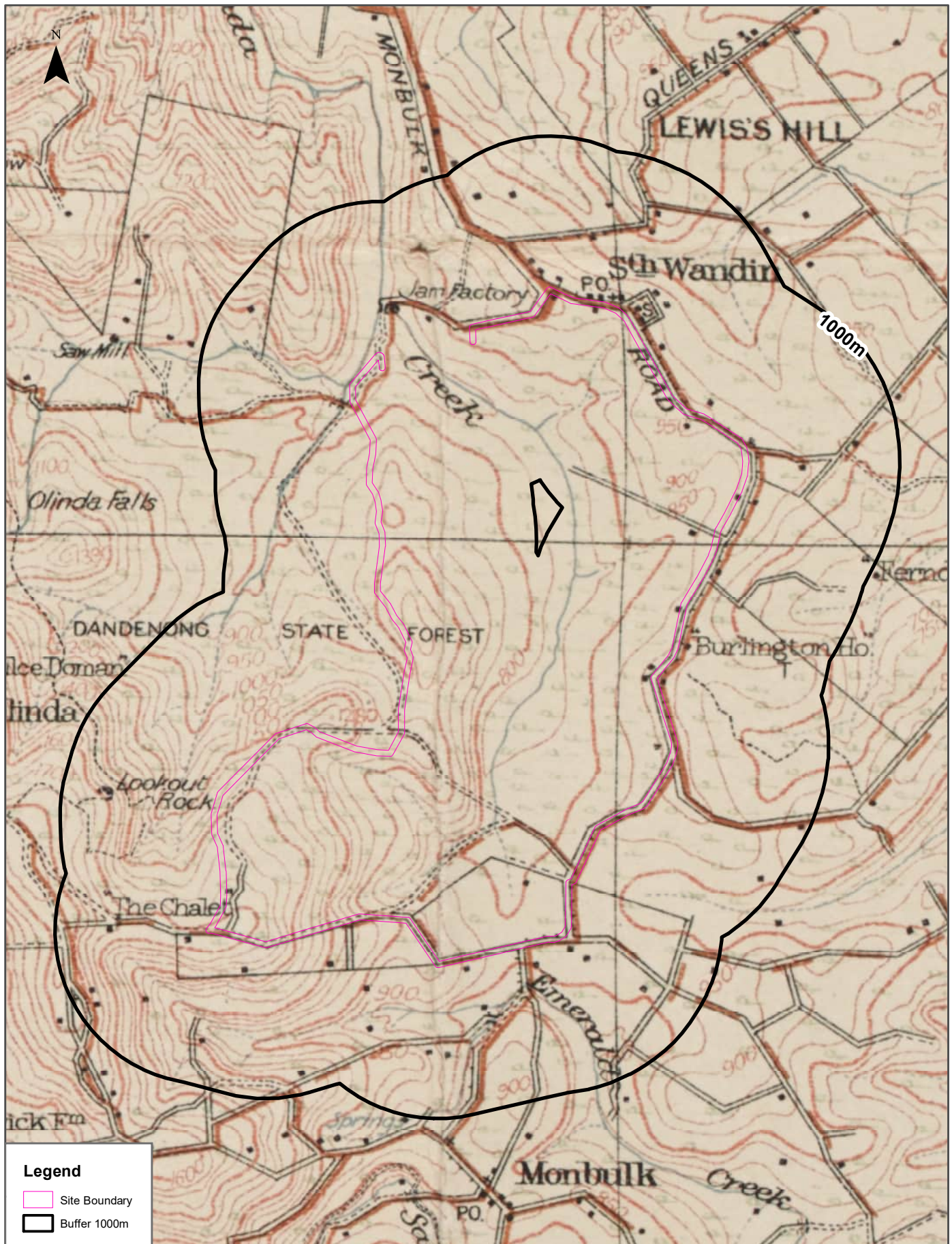
Data Sources: Australia 1:63360  
Prepared by Commonwealth Section Imperial General Staff

Coordinate System:  
GDA 1994 MGA Zone 55

Date: 16 October 2023

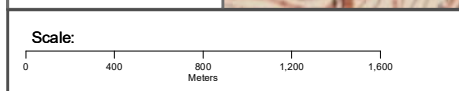
# Historical Map c.1916

Silvan Reservoir, Monbulk Rd, Monbulk, VIC 3793



**Legend**

- Site Boundary
- Buffer 1000m



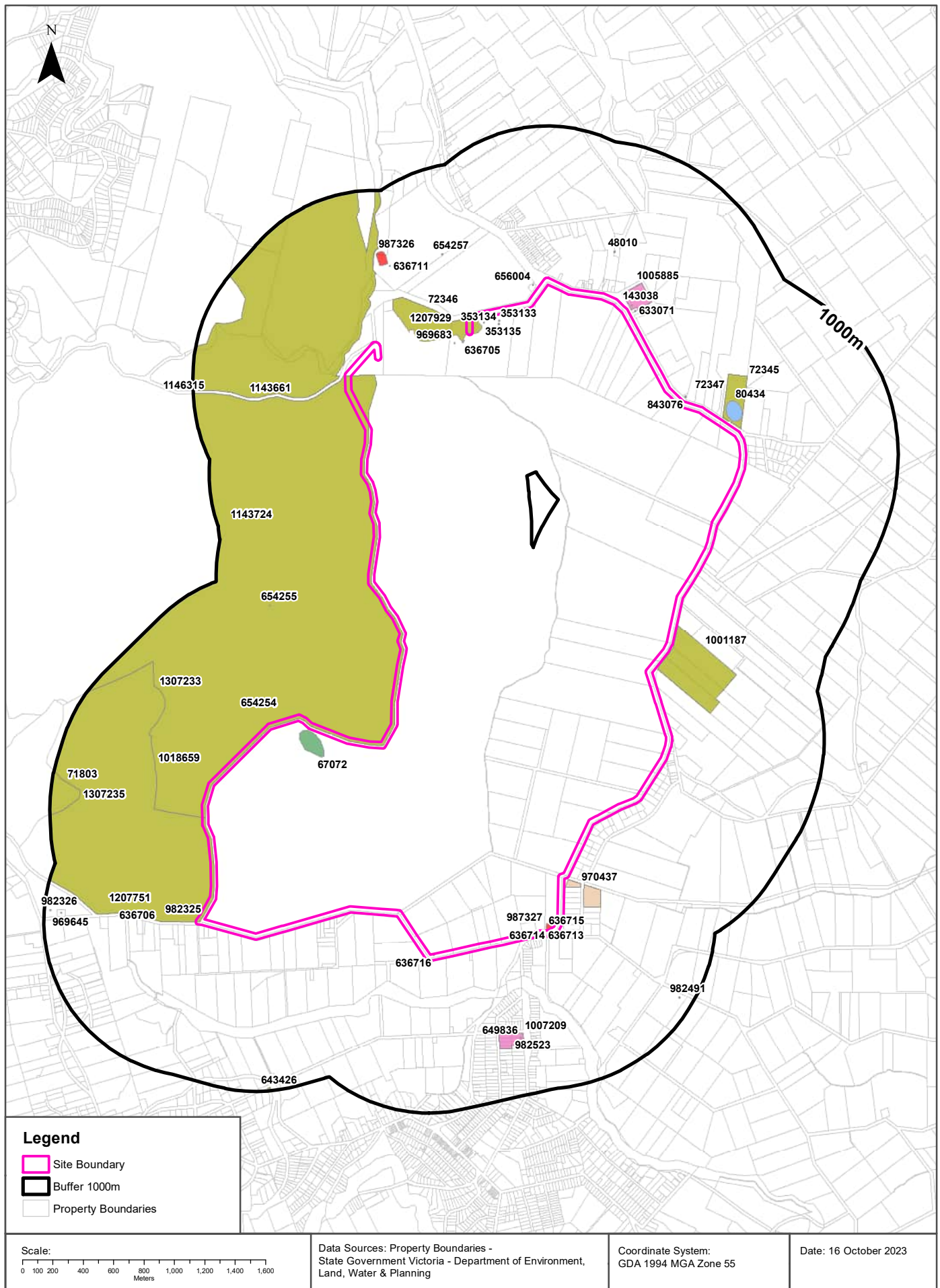
Data Sources: Australia 1:63360  
Prepared by Commonwealth Section Imperial General Staff

Coordinate System:  
GDA 1994 MGA Zone 55

Date: 16 October 2023

# Features of Interest

Silvan Reservoir, Monbulk Rd, Monbulk, VIC 3793



## Features of Interest

Silvan Reservoir, Monbulk Rd, Monbulk, VIC 3793

## Features of Interest

Features of Interest within the dataset buffer:

Feature Id	Feature Type	Feature Sub Type	Name	Distance	Direction
1143661	reserve	park	Olinda Area	0m	On-site
1146315	reserve	national park	Dandenong Ranges National Park	0m	On-site
1018659	reserve	gardens	R J Hamer Forest Arboretum	0m	On-site
1307233	reserve	conservation park	Rj Hamer Arboretum - Gardens Of The Dandenongs	0m	On-site
72346	reserve	park	Silvan Reservoir Park	0m	On-site
987327	pipeline facility	treatment plant		0m	On-site
636716	pipeline facility	pumping station		0m	On-site
1001187	reserve	gardens	Tesselaar Gardens	0m	East
970437	residential building	retirement village	Sylvan Glades	4m	South East
636715	pipeline facility	pumping station		9m	South East
67072	excavation site	quarry		13m	South West
72345	reserve	park	Silvan Recreation Ground	20m	North East
636714	pipeline facility	pumping station		20m	South East
636713	pipeline facility	pumping station		21m	South East
1005885	education centre	education complex		21m	North East
353135	admin facility	office		25m	North
982325	landmark	lookout	Nib Nab Nob	25m	South West
843076	communication service	telephone exchange	Silvan Telephone Exchange	27m	North East
353133	admin facility	office		36m	North
80434	sport facility	sports ground		37m	North East
633071	community venue	hall	Silvan Hall	37m	North East
143038	education centre	primary school	Silvan Primary School	38m	North East
656004	emergency facility	fire station	Silvan Fire Station	39m	North
636705	landmark	lookout		55m	North
353134	admin facility	office		56m	North
353136	admin facility	office		88m	North
1207929	recreational resource	picnic site	Silvan Reservoir Torulosa Picnic Ground	91m	North
969683	admin facility	office	Silvan Reservoir	100m	North
654254	sign	emergency marker	DRN510	140m	West
72347	sport facility	tennis court	Silvan Tennis Club	156m	North East
1207903	recreational resource	picnic site	Silvan Reservoir Lower Picnic Ground	274m	North

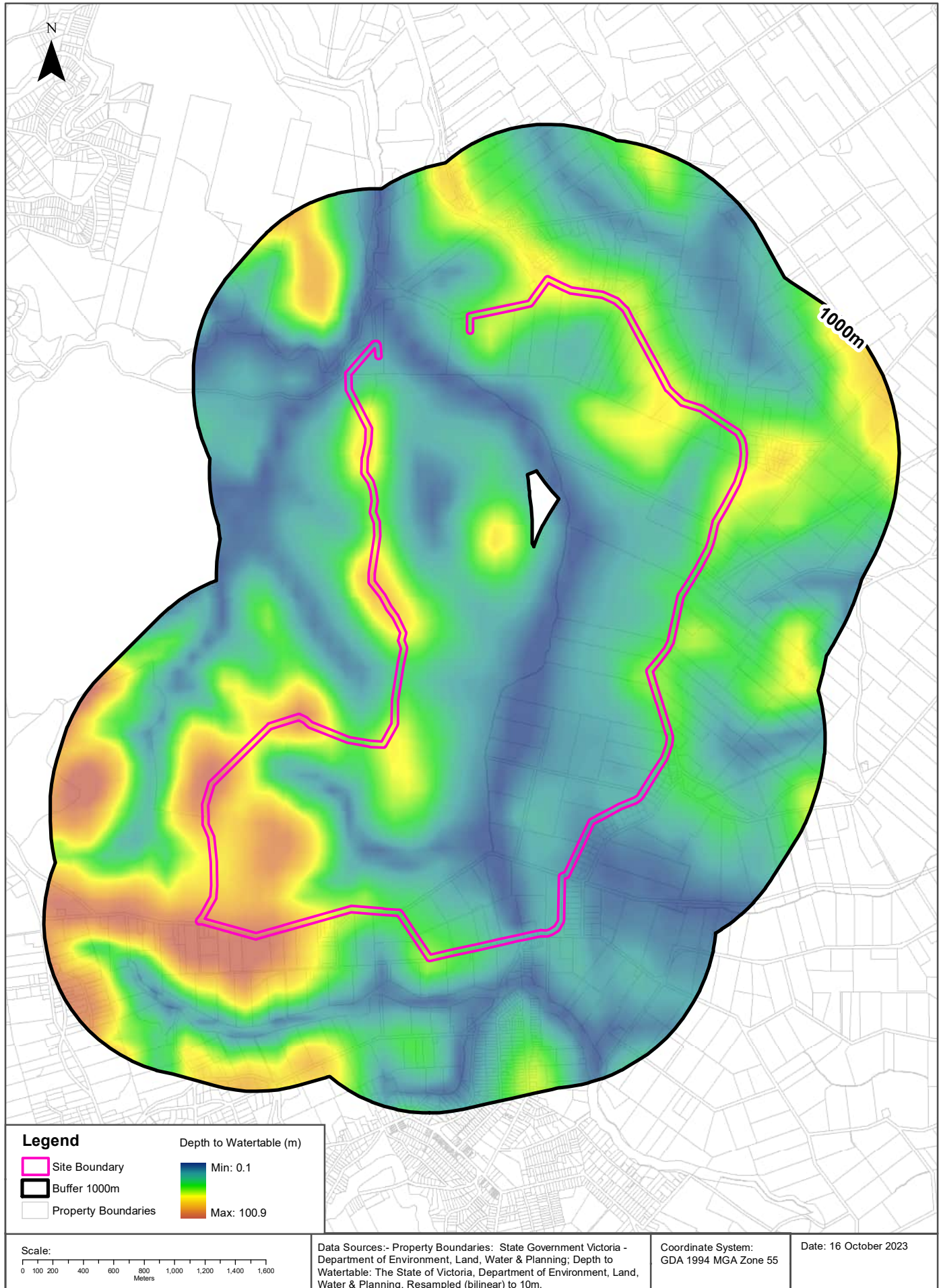
Feature Id	Feature Type	Feature Sub Type	Name	Distance	Direction
48010	excavation site	adit		281m	North East
654257	sign	emergency marker	DRN513	431m	North
636706	landmark	lookout	Woolrich Lookout	452m	South West
1207751	recreational resource	picnic site	R J Hamer Arboretum	499m	South West
987326	pipeline facility	treatment plant		506m	North
636711	pipeline facility	pumping station		507m	North
1007209	education centre	education complex		562m	South
982523	place of worship	church	St Pauls Catholic Church	597m	South
649836	education centre	primary school	St Pauls School	615m	South
654255	sign	emergency marker	DRN511	658m	West
71803	sport facility	golf course	Olinda Public Golf Course	807m	South West
1307235	reserve	conservation park	Olinda Golf Course	807m	South West
1143724	recreational resource	picnic site	Eagle Nest Picnic Area	834m	North West
969645	admin facility	office	Olinda	883m	South West
982491	place of worship	church	Monbulk Christian Fellowship	899m	South East
982326	storage facility	depot		956m	South West
643426	reserve	park		974m	South

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

Silvan Reservoir, Monbulk Rd, Monbulk, VIC 3793



# Hydrogeology & Groundwater

Silvan Reservoir, Monbulk Rd, Monbulk, VIC 3793

## 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
Less than 500 mg/l	100

## Depth to Watertable

On-site Depth to Watertable:

Depth to Watertable	Percent Of Site Area
Greater than 50 metres	45
20 to 50 metres	44
10 to 20 metres	10
5 to 10 metres	2

## Surface Elevation

Approximate on-site Surface Elevation:

Surface Elevation
207 AHDm to 508 AHDm

## Basement Elevation

Approximate on-site Basement Elevation:

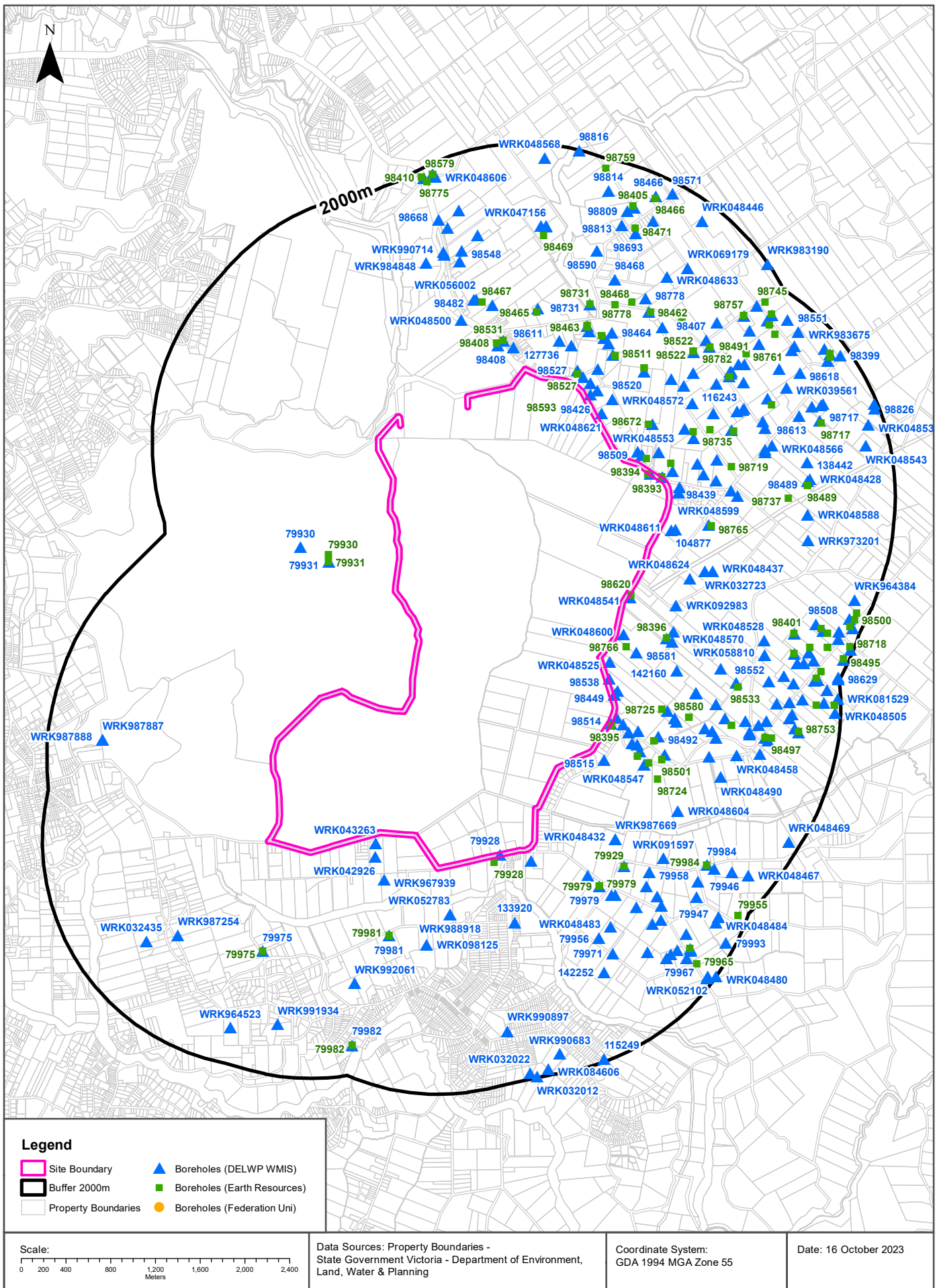
Basement Elevation - Basement Rocks comprise Lower Palaeozoic basement rocks that form the highlands and the crystalline basement; and Mesozoic rocks of the Otway and Gippsland basins both outcropping and subsurface
154 AHDm to 508 AHDm

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

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# Groundwater Boreholes

Silvan Reservoir, Monbulk Rd, Monbulk, VIC 3793



# Groundwater Boreholes

Silvan Reservoir, Monbulk Rd, Monbulk, VIC 3793

## 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
79928	Observation, State Observation Network	0.00m-1.00m TOP SOIL 1.00m-10.00m CLAY 10.00m-15.14m CLAY & STONE 15.14m-22.00m SILT STONE 22.00m-23.00m MUDSTONE GREY 23.00m-24.00m BROKEN MUDSTONE 24.00m-44.00m MUDSTONE HARD (DRILL DROPS) 44.00m-48.00m MUDSTONE 48.00m-49.00m BROKEN MUDSTONE 49.00m-58.00m HARD MUDSTONE	0.00m-18.95m INNER LINING - CASING = Mild Steel	Date/time: 2023-05-03 0953 Quality: 43 WLMP: 1.94m DBNS: 1.26m RWL: 242.55 mAHD	18.95m-58.00m Mudstone	25/02/1975	0m	On-site
98394	Observation, State Observation Network	0.00m-1.00m TOP SOIL 1.00m-17.00m CLAY 17.00m-22.00m CLAY STONE (NOT HARD) 22.00m-31.00m NO SAMPLES 31.00m-36.00m BASALT CLAY BANDS 36.00m-40.00m BROKEN BASALT 40.00m-47.00m BASALT SOME BROKEN PARTS 47.00m-53.00m SOLID BLUE BASALT 53.00m-54.00m CAVITY 54.00m-60.00m BROKEN BASALT 60.00m-66.00m SOLID BASALT 66.00m-72.00m BASALT BLUE 72.00m-74.00m DECOM BASALT BROKEN 74.00m-85.50m BASALT BLUE 85.50m-86.00m BEDROCK MUDSTONE SAND ON TOP	0.00m-6.45m INNER LINING - CASING = Mild Steel 6.45m-86.00m INNER LINING - SCREEN = Mild Steel	Date/time: 2016-05-23 1133 Quality: 43 WLMP: 17.88m DBNS: 16.94m RWL: 261.53 mAHD	6.45m-86.00m Basalt	07/09/1974	0m	On-site
98514	Domestic					31/12/1962	0m	On-site
98393	Irrigation, Groundwater Investigation	0.00m-9.00m CLAY DECOM STONE 9.00m-20.00m CLAY 20.00m-23.00m DECOM STONE AND STONE 23.00m-32.00m CLAY 32.00m-36.00m BLUE BASALT 36.00m-47.00m SOLID BASALT 47.00m-55.00m BROKEN BASALT 55.00m-63.00m BASALT 63.00m-67.00m BROKEN BASALT 67.00m-72.00m BASALT SOME BROKEN	0.00m-2.00m OUTER LINING - GRAVEL = Cement			02/08/1974	5m	North East
WRK054653	Irrigation						5m	North East
98449	Domestic					31/12/1970	6m	East
98536	Domestic, Irrigation, Stock					31/12/1970	6m	East
98538	Irrigation					31/12/1970	6m	East
WRK048541	Irrigation	0.00m-1.22m SURFACE SOIL 1.22m-6.10m RED CLAY 6.10m-27.43m MOTTLED CLAYS 27.43m-76.20m ROCK (SLATE SHALE) 76.20m-94.49m BASALT	0.00m-76.20m INNER LINING - CASING = Steel 76.20m-94.49m INNER LINING - SCREEN = Steel		76.20m-94.49m Basalt	31/01/1985	12m	East
98395	Observation, State Observation Network		0.00m-41.00m INNER LINING - CASING = Pvc 41.00m-59.00m INNER LINING - SCREEN = Pvc 59.00m-84.00m INNER LINING - CASING = Pvc 31.00m-33.00m OUTER LINING - GRAVEL = Cement 33.00m-83.00m OUTER LINING - GRAVEL = Gravel	Date/time: 2016-05-23 1055 Quality: 43 WLMP: 29.97m DBNS: 29.83m RWL: 245.24 mAHD	41.00m-59.00m Basalt	22/10/1974	19m	East

Bore Id	Use Type	Drillers Log	Construction	Latest Water Levels	Geology	Completed Date	Dist (m)	Dir
98426	Domestic		0.00m-57.91m INNER LINING - CASING = Not Known 57.91m-60.96m INNER LINING - SCREEN = Not Known		57.91m-60.96m	31/12/1967	31m	North East
WRK048433	Irrigation	0.00m-0.30m TOP SOIL 0.30m-3.00m CLAY & SUB SOIL 3.00m-38.10m RED YELLOW & TAN BASALTIC CLAY 38.10m-52.40m GREY/BLUE BASALT 52.40m-77.00m HARD BLUE BASALT 77.00m-80.00m BAKED BASALTIC CLAY WITH FRACTURES 80.00m-121.30m BLUE SHALE	-0.30m-38.10m INNER LINING - CASING = Mild Steel 38.10m-121.30m INNER LINING - SCREEN = Mild Steel			24/11/1994	43m	East
WRK048621	Irrigation	0.00m-2.00m TOP SOIL 2.00m-43.00m MOTTLED CLAY 43.00m-121.90m BASALT	0.00m-73.00m INNER LINING - CASING = Pvc 85.00m-121.90m INNER LINING - SCREEN = Pvc		85.00m-121.90m	21/02/1989	43m	North East
WRK048600	Domestic, Irrigation, Stock	0.00m-15.00m RED BASALTIC CLAY 15.00m-52.00m YELLOW AND GREY CLAY 52.00m-95.00m BASALT	0.00m-15.00m INNER LINING - CASING = Pvc 15.00m-18.00m INNER LINING - SCREEN = Pvc 18.00m-30.00m INNER LINING - CASING = Pvc 30.00m-36.00m INNER LINING - SCREEN = Pvc 36.00m-48.00m INNER LINING - SCREEN = Slotted Pvc 48.00m-51.00m INNER LINING - CASING = Pvc		15.00m-18.00m Clay 30.00m-36.00m Clay 36.00m-48.00m Clay	14/01/1985	48m	East
WRK048525	Domestic					01/01/1970	54m	East
WRK043263	Irrigation	0.00m-2.00m SOIL & CLAY 2.00m-29.00m WEATHERED BASALT 29.00m-123.00m GRANDIORITE	0.00m-34.00m INNER LINING - CASING = Pvc 0.00m-34.00m OUTER LINING - GRAVEL = Cement			13/03/2004	64m	South
WRK978211							67m	North East
98569	Domestic					01/01/1970	74m	North East
98641	Domestic, Stock	0.00m-0.50m TOP SOIL 0.50m-2.00m FIRM MOTTLED RED CLAY 2.00m-67.00m HARD BASALT	0.00m-24.30m INNER LINING - CASING = Steel 41.75m-48.76m INNER LINING - SCREEN = Steel		41.75m-48.76m	20/07/1976	81m	North East
98649	Domestic		0.00m-79.00m INNER LINING - CASING = Not Known 79.00m-91.00m INNER LINING - SCREEN = Not Known		79.00m-91.00m	07/04/1977	81m	North East
WRK048611	Domestic, Irrigation, Stock	0.00m-18.00m YELLOW STIPLED CLAYS 18.00m-85.00m BASALT (W/- SEAMS OF MUDSTONE) 85.00m-86.00m WHITE CLAY 86.00m-0.00m WHITE FINE SAND	0.00m-24.00m INNER LINING - CASING = Pvc 24.00m-86.00m INNER LINING - SCREEN = Pvc		24.00m-86.00m	22/07/1985	84m	North East
WRK978712							86m	South East
98509	Domestic					31/12/1970	88m	North East
98686	Domestic	0.00m-0.30m TOP SOIL 0.30m-10.00m VERY FIRM RED MOTTLED CLAY AND STONE PIECES 10.00m-50.50m MEDIUM FIRM MOTTLED CLAY 50.50m-56.00m FIRM CLAYEY PARTLY DECOMPOSED BASALT 56.00m-67.00m MEDIUM HARD SANDSTONE 67.00m-100.00m HARD SANDSTONE SHALE	0.00m-67.00m INNER LINING - CASING = Galvanised Iron 67.00m-100.00m INNER LINING - SCREEN = Galvanised Iron		67.00m-100.00m Sandstone	07/09/1979	88m	North East
98563	Domestic					31/12/1964	91m	East
WRK048609	Domestic, Irrigation, Stock	0.00m-41.00m EXISTING BORE 41.00m-65.00m HARD BASALT 65.00m-68.40m MEDIUM HARD BLUE SHALE 68.40m-90.00m HARD BLUE SHALE 90.00m-122.00m VERY HARD AS ABOVE WITH SOME FRACTURES	0.00m-25.50m INNER LINING - CASING = Galvanised Iron 25.50m-122.00m INNER LINING - SCREEN = Galvanised Iron		25.50m-122.00m	14/12/1985	100m	North East
98634	Domestic, Stock	0.00m-1.83m SUB SOIL 1.83m-47.24m MOTTLED CLAY 47.24m-82.29m BASALT	0.00m-50.29m INNER LINING - CASING = Steel 71.62m-82.29m INNER LINING - SCREEN = Steel		71.62m-82.29m	21/08/1975	103m	North East
98527	Domestic					31/12/1970	110m	North East
104877	Domestic	0.00m-18.29m MOTTLED CLAY 18.29m-103.63m BASALT	0.00m-21.34m INNER LINING - CASING = Pvc 21.34m-103.63m INNER LINING - SCREEN = Pvc		21.34m-103.63m Basalt	12/11/1979	113m	North East

Bore Id	Use Type	Drillers Log	Construction	Latest Water Levels	Geology	Completed Date	Dist (m)	Dir
98515	Domestic, Stock					31/12/1970	119m	South East
98564	Domestic					31/12/1969	166m	South East
WRK048553	Domestic	0.00m-0.20m TOP SOIL 0.20m-1.50m VERY FIRM RED CLAY 1.50m-9.00m VERY FIRM PINK CLAY 9.00m-15.50m MEDIUM FIRM MOTTLED CLAY 15.50m-25.00m MEDIUM FIRM MOTTLED CLAY AND LIMESTONE 25.00m-27.20m MEDIUM HARD BASALT 27.20m-61.00m HARD BASALT 61.00m-62.30m MEDIUM HARD BASALT 62.30m-63.50m HARD BASALT 63.50m-70.00m MEDIUM HARD MUDSTONE 70.00m-109.50m HARD BLUE SHALE	0.00m-61.00m INNER LINING - CASING = Not Known 25.00m-109.00m INNER LINING - SCREEN = Not Known		25.00m-109.00m	26/04/1977	172m	North East
WRK042926	Domestic & Stock, Irrigation, Not Known	0.00m-1.00m TOP SOIL & CLAY 1.00m-6.00m SUBSOIL 6.00m-18.00m CLAY 18.00m-105.00m SANDSTONE	-0.30m-55.00m INNER LINING - CASING = Pvc 55.00m-105.00m INNER LINING - SCREEN = Pvc			01/05/1992	177m	South
98520	Domestic, Stock					31/12/1965	187m	North East
98611	Domestic, Stock	0.00m-0.91m SURFACE SOIL 0.91m-45.72m MOTTLED CLAYS 45.72m-85.34m HARD BASALT WITH SEAMS OF WEATHERED BASALT THROUGHOUT	0.00m-47.85m INNER LINING - CASING = Not Known 45.72m-85.34m INNER LINING - SCREEN = Not Known		45.72m-85.34m	15/11/1972	200m	North
98581	Domestic, Stock	44.50m-57.91m HARD BASALT 57.91m-60.96m SOFT SILURION	0.00m-54.86m INNER LINING - CASING = Not Known 54.86m-57.91m INNER LINING - SCREEN = Not Known		54.86m-57.91m	11/03/1971	214m	East
WRK048550	Domestic, Irrigation, Stock	0.00m-0.50m TOP SOIL 0.50m-2.20m VERY FIRM RED CLAY 2.20m-8.00m MEDIUM HARD PARTLY DECOMPOSED BASALT 8.00m-36.00m FIRM MOTTLED CLAY 36.00m-42.00m SOFT MUDSTONE 42.00m-50.00m MEDIUM HARD SANDSTONE 50.00m-60.00m SOFT BLUE SHALE 60.00m-66.50m MEDIUM HARD BLUE SHALE 66.50m-91.40m HARD SANDSTONE	0.00m-68.60m INNER LINING - CASING = Steel			25/10/1976	223m	North East
WRK048537	Irrigation	0.00m-0.30m SOIL 0.30m-7.92m VERY FIRM RED CLAY 7.92m-23.77m MEDIUM FIRM MOTTLED RED CLAY 23.77m-30.48m MEDIUM HARD BASALT 30.48m-32.31m SOFT DECOMPOSED BASALT 32.31m-42.67m HARD BASALT 42.67m-45.72m MEDIUM HARD BASALT WITH FAULTS AND COARSE SAND 45.72m-52.73m HARD BASALT WITH FAULTS	0.00m-32.31m INNER LINING - CASING = Not Known 45.72m-51.81m INNER LINING - SCREEN = Not Known		45.72m-51.81m	27/05/1974	240m	South East
98650	Domestic, Stock		0.00m-79.24m INNER LINING - CASING = Not Known 79.24m-85.34m INNER LINING - SCREEN = Not Known		79.24m-85.34m	01/12/1973	245m	South East
98630	Domestic, Stock	0.00m-0.60m TOP SOIL 0.60m-36.00m FIRM MOTTLED RED CLAY 36.00m-42.00m MEDIUM HARD BASALT 42.00m-61.00m HARD BASALT WITH SOME FAULTS	0.00m-37.00m INNER LINING - CASING = Steel 48.46m-54.86m INNER LINING - SCREEN = Steel		48.46m-54.86m	09/06/1975	291m	South East
WRK048493	Irrigation						298m	North East
98531	Domestic					31/12/1970	301m	North

Bore Id	Use Type	Drillers Log	Construction	Latest Water Levels	Geology	Completed Date	Dist (m)	Dir
98408	Observation, State Observation Network	0.00m-1.00m TOP SOIL 1.00m-38.00m WEATHERED BASALT CLAY VARIOUS COLOURS 38.00m-38.10m STONE BAR 38.10m-44.00m STONE AND CLAY 44.00m-47.00m BASALT (WATER) 47.00m-51.00m BASALT 51.00m-61.00m VERY HARD BLUE BASALT 61.00m-65.00m VERY HARD BASALT 65.00m-72.00m HARD BLUE BASALT 72.00m-75.00m BASALT SOME CRYSTALS NOT AS HARD 75.00m-77.00m BLUE BASALT 77.00m-80.00m BASALT BLUE 80.00m-86.00m BASALT CRACKED 86.00m-87.00m MUDSTONE	0.00m-71.00m INNER LINING - CASING = Pvc 71.00m-83.00m INNER LINING - SCREEN = Pvc 0.00m-3.00m OUTER LINING - GRAVEL = Cement 3.00m-83.00m OUTER LINING - GRAVEL = Gravel	Date/time: 2022-08-02 1104 Quality: 43 WLMP: 37.41m DBNS: 36.51m RWL: 243.38 mAHd	71.00m-83.00m Basalt	15/11/1976	304m	North
98550	Domestic					31/12/1964	314m	North East
WRK048573	Domestic, Irrigation, Stock	0.00m-39.62m EXISTING BORE 39.62m-85.30m BASALT				01/11/1979	319m	North East
127736	Groundwater Investigation	0.00m-10.50m CLAY RED/BROWN 10.50m-16.00m CLAY RED 16.00m-26.60m CLAY LIGHT BROWN (DAMP)	0.00m-23.60m INNER LINING - CASING = Pvc 23.60m-24.60m INNER LINING - SCREEN = Pvc 24.60m-26.60m INNER LINING - CASING = Pvc 0.00m-22.00m OUTER LINING - GRAVEL = Cement 22.00m-23.00m OUTER LINING - GRAVEL = Bentonite 23.00m-26.60m OUTER LINING - GRAVEL = Gravel			11/12/1995	328m	North East
WRK048506	Irrigation					31/12/1970	343m	South East
WRK048562	Irrigation	0.00m-0.30m TOP SOIL 0.30m-18.00m FIRM MOTTLED CLAY 18.00m-21.00m SOFT MOTTLED GREY CLAY 21.00m-25.00m FIRM CLAYEY WEATHERED BASALT 25.00m-54.00m HARD BASALT 54.00m-57.00m MEDIUM HARD BLUE SHALE 57.00m-76.50m HARD SANDSTONE 76.50m-93.50m HARD BLUE SANDSTONE 93.50m-143.50m VERY HARD BLUE SHALE AND SANDSTONE	0.00m-37.50m INNER LINING - CASING = Mild Steel 37.50m-143.50m INNER LINING - SCREEN = Mild Steel		37.50m-143.50m	08/03/1985	362m	North East
WRK048599	Irrigation	0.00m-0.60m RED TOP SOIL 0.60m-3.60m RED CLAY 3.60m-24.40m GREY/BROWN BASALT CLAY 24.40m-25.20m DECOMPOSED BASALT 25.20m-41.00m MEDIUM HARD BLUE BASALT 41.00m-62.40m HARD BLUE BASALT WITH SOME FRACTURES 62.40m-67.00m VERY STIFF BASALTIC WHITE CLAY 67.00m-79.20m FIRM GREEN BAKED CLAY 79.20m-81.00m MEDIUM HARD BLUE SHALE	0.00m-25.50m INNER LINING - CASING = Mild Steel 25.50m-81.00m INNER LINING - SCREEN = Mild Steel		25.50m-81.00m Basalt	04/04/1985	373m	East
WRK967939	Commercial	0.00m-1.00m SOIL 1.00m-33.00m MOTTLED SANDY CLAY 33.00m-150.00m HORNFELS	0.00m-36.00m INNER LINING - CASING = Pvc 0.00m-36.00m OUTER LINING - GRAVEL = Cement		0.00m-36.00m Clay 36.00m-150.00m Hornfels	30/06/2006	396m	South
WRK092983	Domestic & Stock	0.00m-7.00m Topsoil 7.00m-15.00m CLAY 15.00m-52.00m BASALT 52.00m-54.00m CLAY 54.00m-61.00m SILTSTONE	0.00m-35.50m INNER LINING - CASING = UPVC class 12 35.50m-55.50m INNER LINING - CASING = UPVC class 12 55.50m-58.50m INNER LINING - SCREEN = UPVC class 12 58.50m-61.00m INNER LINING - CASING = UPVC class 12 0.00m-19.00m OUTER LINING - GRAVEL = Cement 19.00m-20.00m OUTER LINING - GRAVEL = Bentonite 20.00m-61.00m OUTER LINING - GRAVEL = Gravel		55.50m-58.50m Siltstone	10/05/2016	398m	East

Bore Id	Use Type	Drillers Log	Construction	Latest Water Levels	Geology	Completed Date	Dist (m)	Dir
WRK048624	Irrigation	0.00m-0.60m RED TOPSOIL 0.60m-9.10m RED CLAY 9.10m-30.00m ORANGE/YELLOW CLAY 30.00m-32.90m YELLOW/GREY MUDSTONE 32.90m-39.60m MEDIUM HARD BLUE MUDSTONE 39.60m-76.00m HARD BLUE MUDSTONE	0.00m-33.50m INNER LINING - CASING = Mild Steel 38.00m-76.00m INNER LINING - SCREEN = Mild Steel		38.00m-76.00m	22/08/1988	405m	East
WRK052783	Irrigation	0.00m-2.00m SOIL 2.00m-6.00m RED CLAY 6.00m-27.00m SANDSTONE 27.00m-50.00m GREY SILTSTONE AND SANDSTONE FRACTURES 50.00m-99.50m GREY SILTSTONE	0.00m-15.00m OUTER LINING - GRAVEL = Cement 15.00m-34.00m OUTER LINING - GRAVEL = Gravel			29/10/2009	405m	South
WRK988918							405m	South
WRK048509	Domestic, Irrigation, Stock					31/12/1964	408m	North East
98439	Domestic					31/12/1970	415m	North East
98492	Domestic, Domestic & Stock, Stock					31/12/1970	427m	East
98396	Observation, State Observation Network	0.00m-1.00m TOP SOIL 1.00m-23.00m CLAY 23.00m-26.00m HARDER CLAY STONE 26.00m-32.00m CLAY STONE 32.00m-36.00m BASALT BROKEN 36.00m-53.00m SOLID BLUE BASALT 53.00m-54.00m DECOM BASALT & CLAY 54.00m-56.00m CLAY MUDSTONE (BEDROCK)	0.00m-37.60m INNER LINING - CASING = Pvc 37.60m-50.00m INNER LINING - SCREEN = Pvc 50.00m-56.00m INNER LINING - CASING = Pvc 0.00m-1.00m OUTER LINING - GRAVEL = Cement 31.00m-32.00m OUTER LINING - GRAVEL = Bentonite	Date/time: 2001-03-30 0000 Quality: 43 WLMP: m DBNS: m RWL: mAHD	37.60m-50.00m Basalt	20/11/1974	432m	East
WRK048547	Irrigation	0.00m-58.00m DEEPENED EXISTING BORE 58.00m-67.00m VERY HARD BASALT 67.00m-70.00m MEDIUM HARD SANDSTONE	0.00m-32.00m INNER LINING - CASING = Galvanised Iron 63.00m-67.00m INNER LINING - SCREEN = Galvanised Iron		63.00m-67.00m	16/03/1976	438m	South East
WRK048615	Irrigation	0.00m-83.82m NO DETAILS AVAILABLE 83.82m-123.44m GREY SANDSTONE - ALTERATION N/P/R	0.00m-123.44m INNER LINING - CASESCRN = Not Known		0.00m-123.44m	31/12/1986	452m	North East
WRK089574	Irrigation	0.00m-6.00m RED CLAY 6.00m-20.00m GREYCLAY 20.00m-23.00m BASALT 23.00m-48.00m HIGHLY FRACTURED BASALT 48.00m-79.00m SANDSTONE	0.00m-70.00m INNER LINING - CASING = Pvc 70.00m-76.00m INNER LINING - SCREEN = Pvc 76.00m-79.00m INNER LINING - CASING = Pvc 0.00m-20.00m OUTER LINING - GRAVEL = Cement 20.00m-24.00m OUTER LINING - GRAVEL = Bentonite		70.00m-76.00m Sandstone	11/10/2016	453m	East
WRK098485	Irrigation	0.00m-7.00m Red Clay 7.00m-24.00m BASALTic Clay 24.00m-42.00m Fractured Basalt	0.00m-33.00m INNER LINING - CASING = UPVC class 12 33.00m-39.00m INNER LINING - SCREEN = UPVC class 12 15.00m-22.00m OUTER LINING - GRAVEL = Cement 22.00m-24.00m OUTER LINING - GRAVEL = Bentonite 24.00m-26.00m OUTER LINING - GRAVEL = Seal		33.00m-39.00m Basalt	23/02/2018	457m	North East
98463	Commercial, Irrigation					14/04/2009	469m	North East
WRK990323	Irrigation	0.00m-10.00m red dry firm clay 10.00m-18.00m red brown moist clay 18.00m-21.00m grey clay some coal 21.00m-28.00m orange very weathered mudstone 28.00m-39.00m sand shale 39.00m-59.00m shale 59.00m-100.00m shale	0.00m-30.00m INNER LINING - CASING = Pvc 30.00m-42.00m INNER LINING - SCREEN = Pvc 42.00m-88.00m INNER LINING - CASING = Pvc 88.00m-100.00m INNER LINING - SCREEN = Pvc 27.00m-30.00m OUTER LINING - GRAVEL = Bentonite 30.00m-50.00m OUTER LINING - GRAVEL = Gravel 50.00m-53.00m OUTER LINING - GRAVEL = Seal			14/04/2009	469m	North East



Bore Id	Use Type	Drillers Log	Construction	Latest Water Levels	Geology	Completed Date	Dist (m)	Dir
WRK039552	Irrigation	0.00m-0.30m TOP SOIL 0.30m-15.55m VERY FIRM RED MOTTLED CLAY 15.55m-39.93m SOFT RED CLAY 39.93m-42.06m VERY FIRM PARTLY DECOMPOSED BASALT 42.06m-47.24m VERY HARD BASALT 47.24m-48.16m COARSE SAND AND REAT 48.16m-50.29m MEDIUM HARD SANDSTONE 50.29m-78.00m HARD SANDSTONE 78.00m-125.00m BASALT	0.00m-51.82m INNER LINING - CASING = Galvanised Iron 51.82m-125.00m INNER LINING - SCREEN = Galvanised Iron		51.82m-125.00m	07/02/1985	474m	North East
WRK048514	Domestic, Irrigation, Stock					31/12/1953	476m	North East
WRK048456	Irrigation	0.00m-1.00m TOP SOIL 1.00m-9.00m RED SOFT CLAY 9.00m-21.00m BROWN MED CLAY 21.00m-37.00m LIGHT BROWN MED CLAY 37.00m-39.00m BOULDERS & CLAY 39.00m-54.00m HARD BLUE BASALT 54.00m-59.00m GREY BAKED CLAY 59.00m-122.00m HARD BLUE MUDSTONE WITH FRACTURES	0.00m-9.50m INNER LINING - CASING = Steel		39.50m-122.00m Mudstone	09/07/1999	478m	East
WRK048549	Stock	0.00m-2.74m SUB SOIL 2.74m-38.10m MOTTLED CLAY 38.10m-83.82m BASALT	0.00m-42.67m INNER LINING - CASING = Steel			25/07/1976	487m	North East
WRK048570	Domestic, Irrigation, Stock	0.00m-0.20m SURFACE SOIL 0.20m-9.00m VERY FIRM RED CLAY 9.00m-31.00m MEDIUM FIRM MOTTLED RED CLAY 31.00m-32.20m VERY FIRM BASALTIC CLAY AND BOULDERS 32.20m-34.00m MEDIUM HARD BASALT 34.00m-48.00m HARD BASALT 48.00m-58.00m MEDIUM HARD HONEYCOMB BASALT 58.00m-64.00m VERY HARD BASALT 64.00m-65.50m PARTLY DECOMPOSED BASALT 65.50m-67.00m GREY CLAY	0.00m-32.60m INNER LINING - CASING = Galvanised Iron 32.60m-110.00m INNER LINING - SCREEN = Galvanised Iron		32.60m-110.00m Basalt	18/01/1983	488m	East
WRK047192	Irrigation						504m	North East
WRK032723	Irrigation	0.00m-1.00m TOP SOIL 1.00m-3.00m RED CLAY 3.00m-6.00m PURPLE CLAY 6.00m-9.00m BROWN CLAY 9.00m-12.00m TAN CLAY 12.00m-15.00m LIGHT BROWN CLAY 15.00m-25.00m LIGHT TAN CLAY 25.00m-43.00m CREAMY BROWN CLAY 43.00m-69.00m ULTRA HARD BLUE BASALT 69.00m-86.00m HARD BLUE BASALT 86.00m-88.00m LIGHT BLUE MED CLAY 90.00m-90.00m QUARTZE SAND RIVER GRAVEL & WOOD	0.00m-43.00m INNER LINING - CASING = Steel 43.00m-90.00m INNER LINING - SCREEN = Steel			30/04/1999	517m	East
98580	Domestic, Irrigation, Stock		0.00m-25.91m INNER LINING - CASING = Mild Steel 36.58m-39.62m INNER LINING - SCREEN = Mild Steel		36.58m-39.62m	12/02/1971	522m	East
WRK048576	Domestic, Irrigation, Stock	0.00m-0.20m TOP SOIL 0.20m-40.00m FIRM RED CLAY 40.00m-41.20m MEDIUM HARD CLAYEY DECOMPOSED BASALT 41.20m-70.50m HARD BASALT 70.50m-76.50m MEDIUM HARD BLUE SHALE	0.00m-41.60m INNER LINING - CASING = Pvc 41.60m-76.50m INNER LINING - SCREEN = Pvc		41.60m-76.50m Basalt	12/03/1981	536m	North East
WRK048494	Irrigation					31/12/1968	538m	North
WRK048477	Irrigation	0.00m-0.30m TOP SOIL 0.30m-3.40m FIRM MOTTLED RED CLAY 3.40m-19.00m MEDIUM HARD MUDSTONE (GREY) 19.00m-37.00m MEDIUM HARD BLUE SHALE 37.00m-60.00m HARD BLUE SHALE 60.00m-82.30m VERY HARD SANDSTONE SHALE	0.00m-6.00m INNER LINING - CASING = Mild Steel			05/12/1977	543m	South East
98501	Domestic					31/12/1968	546m	South East

Bore Id	Use Type	Drillers Log	Construction	Latest Water Levels	Geology	Completed Date	Dist (m)	Dir
WRK048455	Domestic, Irrigation	0.00m-1.00m TOP SOIL 1.00m-9.00m RED CLAY 9.00m-15.00m GREY CLAY 15.00m-21.00m BASALTIC CLAY 21.00m-22.00m BROKEN BASALT BLUE 22.00m-46.00m HARD BLUE BASALT 46.00m-48.00m FIRM BAKED GREY CLAY 48.00m-88.00m MED HARD GREY SANDY - STONE 88.00m-99.00m HARD DARK GREY SANDSTONE WITH O/AUEN COLOUR & LARGE FRACTURE	0.00m-22.50m INNER LINING - CASING = Steel 22.50m-99.00m INNER LINING - SCREEN = Steel			15/02/2005	546m	East
98464	Irrigation					31/12/1970	553m	North East
WRK048510	Domestic, Irrigation, Stock					31/12/1967	555m	North East
WRK048437	Irrigation					01/01/1800	579m	East
98698	Stock	0.00m-0.20m SURFACE SOIL 0.20m-15.00m FIRM RED MOTTLED CLAY 15.00m-27.50m FIRM MOTTLED CLAY WITH SOME HARD LAYERS 27.50m-30.50m MEDIUM HARD BASALT 30.50m-45.00m MEDIUM HARD GREY MUDSTONE 45.00m-70.00m SOFT GREY CLAY	0.00m-25.00m INNER LINING - CASING = Pvc 25.00m-30.00m INNER LINING - SCREEN = Pvc 27.00m-30.00m OUTER LINING - GRAVEL = Gravel		25.00m-30.00m Basalt	17/04/1980	590m	North East
133920	Domestic	0.00m-0.50m TOP SOIL 0.50m-1.00m BACK FILL 1.00m-6.00m TAN MED CLAY 6.00m-18.00m HARD MED CLAY 18.00m-30.00m MED HARD MUDSTONE 30.00m-36.00m MED HARD GREY MUDSTONE 36.00m-45.00m MED HARD BLUE MUDSTONE 45.00m-61.50m EXTREMELY HARD BLUE SHALE WITH FRACTURES	0.00m-1.50m INNER LINING - CASING = Pvc 0.00m-18.00m INNER LINING - CASING = Pvc 37.50m-61.50m INNER LINING - SCREEN = Pvc		37.50m-61.50m Shale	01/12/1996	598m	South
79931	Not Known		0.00m-30.00m INNER LINING - CASING = Not Known 30.00m-33.00m INNER LINING - SCREEN = Not Known		30.00m-33.00m	31/03/1977	600m	North West
142160	Domestic	0.00m-1.00m TOPSOIL 1.00m-6.00m BROWN CLAY 6.00m-9.00m TAN CLAY 9.00m-21.00m LIGHT BROWN CLAY 21.00m-31.00m DARK BROWN CLAY 31.00m-44.00m HARD BLUE BASALT 44.00m-45.00m MEDIUM BLUE SOAP STONE 45.00m-68.00m HARD BLUE BASALT 68.00m-70.00m WHITE BAKED CLAY 70.00m-79.00m BROWN SOFT CLAY 79.00m-85.00m MEDIUM GREY MUDSTONE	0.00m-31.40m INNER LINING - CASING = Steel 31.40m-85.00m INNER LINING - SCREEN = Steel			27/09/1999	602m	East
98467	Domestic					31/12/1970	621m	North
WRK048500	Irrigation						658m	North
WRK098125	Irrigation	0.00m-4.00m CLAY 4.00m-23.00m Weathered-siltstone 23.00m-68.00m GREY-siltstone 68.00m-69.00m SAND 69.00m-74.00m Fractured-siltstone 74.00m-130.00m GREY-siltstone	1.00m-121.00m INNER LINING - CASING = UPVC class 12 121.00m-127.00m INNER LINING - SLOT = UPVC class 12 0.00m-23.00m OUTER LINING - GRAVEL = Cement 23.00m-25.00m OUTER LINING - GRAVEL = Bentonite 25.00m-130.00m OUTER LINING - GRAVEL = Gravel		121.00m-127.00m Siltstone	28/03/2017	668m	South
79979	Domestic, Miscellaneous, Stock	0.00m-0.30m TOP SOIL 0.30m-3.00m RED CLAY 3.00m-18.00m MEDIUM HARD MUDSTONE 18.00m-33.50m MEDIUM HARD FRACTURED MUDSTONE	0.00m-21.40m INNER LINING - CASING = Pvc Class 9 21.40m-33.50m INNER LINING - SCREEN = Pvc Class 9		21.40m-33.50m Mudstone	21/02/1985	684m	South East

Bore Id	Use Type	Drillers Log	Construction	Latest Water Levels	Geology	Completed Date	Dist (m)	Dir
98731	Domestic	0.00m-0.60m TOP SOIL 0.60m-33.50m RED AND ORANGE 33.50m-68.60m BASALT WITH HONEYCOMBS 68.60m-71.60m FRACTURED BASALT 71.60m-74.50m BLUE BASALT 74.50m-76.00m WHITE CLAY (HARD) 76.00m-91.50m HARD BASALT 91.50m-101.50m MUDSTONE - LIGHT GREEN 101.50m-113.00m SLATE - BLUE	0.00m-34.50m INNER LINING - CASING = Steel 34.50m-113.00m INNER LINING - SCREEN = Steel		34.50m-113.00m	21/04/1983	698m	North East
WRK048432	Domestic & Stock	0.00m-3.00m RED CLAY/SOIL 3.00m-6.00m YELLOW CLAY HIGHLY WEATHERED 6.00m-15.00m BASALTIC CLAY WEATHERED MUDSTONE 15.00m-20.00m SANDSTONE HIGHLY FRACTURED/WEATHERED MUDSTONE 20.00m-36.00m SANDSTONE 36.00m-75.50m GREY SANDSTONE WITH SILTSTONE	0.00m-5.00m OUTER LINING - GRAVEL = Cement 5.00m-39.00m OUTER LINING - GRAVEL = Gravel 39.00m-39.50m OUTER LINING - GRAVEL = Seal			25/09/2008	699m	South East
WRK987669							699m	South East
WRK048586	Domestic, Irrigation, Stock	0.00m-15.00m BROWN CLAY 15.00m-36.00m YELLOW CLAY 36.00m-54.00m GREY SHALE 54.00m-69.00m GREY SHALE 69.00m-108.00m GREY MUDSTONE 108.00m-138.00m BASALT	0.00m-42.00m INNER LINING - CASING = Pvc 42.00m-138.00m INNER LINING - SCREEN = Pvc		42.00m-138.00m	05/03/1983	706m	North East
WRK048639	Irrigation					31/07/2007	714m	East
WRK971883	Domestic & Stock		0.00m-25.00m INNER LINING - CASING = Steel 25.00m-129.00m INNER LINING - CASING = Pvc 0.00m-6.00m OUTER LINING - GRAVEL = Cement			31/07/2007	716m	East
79981	Domestic	0.00m-1.00m TOPSOIL 1.00m-20.00m REDDISH CLAY 20.00m-42.00m YELLOW CLAY AND WEATHERED BASALT 42.00m-45.00m BASALT 45.00m-52.00m WEATHERED BASALT AND SILT 52.00m-85.00m SANDSTONE	0.00m-52.00m INNER LINING - CASING = Pvc Class 9 52.00m-85.00m INNER LINING - SCREEN = Pvc Class 9		52.00m-85.00m Sandstone	28/10/1985	721m	South
WRK048580	Irrigation	0.00m-0.20m TOP SOIL 0.20m-9.00m VERY FIRM RED MOTTLED CLAY 9.00m-33.00m MEDIUM FIRM GREY BASALTIC CLAY 33.00m-36.50m VERY FIRM DECOMPOSED BASALT (CLAYEY) 36.50m-83.00m HARD BASALT 83.00m-95.00m MEDIUM HARD GREY MUDSTONE 95.00m-107.00m MEDIUM HARD BLUE SHALE 107.00m-122.00m HARD AS ABOVE	0.00m-39.00m INNER LINING - CASING = Not Known 39.00m-122.00m INNER LINING - SCREEN = Not Known		39.00m-122.00m	31/03/1982	735m	North East
WRK048463	Irrigation	0.00m-37.00m RED TOPSOIL, STIFF CLAYS, RED, GREEN MOTTLED 37.00m-44.00m MEDIUM WEATHERED MUDSTONE 44.00m-84.00m HARD BLUE SILTSTONE 84.00m-88.00m HARD SOLID BLU SILTSTONE	-0.50m-47.00m INNER LINING - CASING = Steel			06/02/2001	736m	North East
WRK048504	Domestic, Irrigation					31/12/1970	737m	North East
WRK056002	Irrigation	0.00m-0.50m SOIL 0.50m-27.00m BASALTIC CLAY 27.00m-35.00m WEATHERED BASALT 35.00m-61.00m BASALT 61.00m-123.00m GREY SILTSTONE	0.00m-35.00m INNER LINING - CASING = Steel 35.00m-51.00m INNER LINING - CASING = Steel 51.00m-123.00m INNER LINING - SLOT = Not Known 0.00m-35.00m OUTER LINING - GRAVEL = Cement 35.00m-123.00m OUTER LINING - GRAVEL = Gravel			23/10/2009	743m	North
WRK991524							743m	North
98482	Irrigation					31/12/1970	751m	North
WRK048572	Irrigation	76.20m-113.00m HARD SANDSTONE (SHALE)	0.00m-42.67m INNER LINING - CASING = Galvanised Iron 42.67m-113.00m INNER LINING - SCREEN = Galvanised Iron		42.67m-113.00m Sandstone	15/05/1980	789m	North East

Bore Id	Use Type	Drillers Log	Construction	Latest Water Levels	Geology	Completed Date	Dist (m)	Dir
WRK048583	Irrigation	0.00m-0.30m TOP SOIL 0.30m-24.00m MOTTLED RED CLAY 24.00m-25.00m PARTLY DECOMPOSED BASALT 25.00m-33.50m HARD BASALT SEVERELY FRACTURED ZONES	0.00m-24.00m INNER LINING - CASING = Steel 24.00m-33.50m INNER LINING - SCREEN = Steel		24.00m-33.50m Basalt	08/09/1998	804m	East
79929	Observation, State Observation Network		0.00m-18.00m INNER LINING - CASING = Pvc 18.00m-34.00m INNER LINING - SCREEN = Pvc 34.00m-64.00m INNER LINING - CASING = Pvc 61.00m-62.00m INNER LINING - SCREEN = Pvc	Date/time: 1991-04-23 0000 Quality: 43 WLMP: 44.11m DBNS: 43.56m RWL: 201.36 mAHD	18.00m-34.00m Mudstone 61.00m-62.00m Mudstone	12/05/1977	811m	South East
WRK992472							817m	South East
79930	Observation, State Observation Network		0.00m-26.50m INNER LINING - CASING = Pvc 25.00m-30.00m INNER LINING - SCREEN = Pvc	Date/time: 2016-05-23 1155 Quality: 43 WLMP: 4.26m DBNS: 3.72m RWL: 224.33 mAHD	25.00m-30.00m	28/02/1977	840m	North West
79972	Domestic	0.00m-0.20m TOP SOIL 0.20m-3.50m FIRM RED CLAY 3.50m-33.00m MEDIUM HARD GREY MUDSTONE 33.00m-62.00m MEDIUM HARD BLUE SHALE 62.00m-79.50m HARD AS ABOVE LAYERS OF SANDSTONE	0.00m-5.50m INNER LINING - CASING = Pvc 48.50m-75.00m INNER LINING - SCREEN = Pvc		48.50m-75.00m	09/04/1981	845m	South East
98456	Irrigation					01/01/1970	873m	East
WRK048453	Commercial, Domestic, Irrigation	0.00m-1.00m TOP SOIL 1.00m-6.00m RED CLAY 6.00m-24.00m HARD TAN CLAY 24.00m-25.00m MEDIUM, TO HARD MUDSTONE 25.00m-40.00m HARD TAN MUDSTONE 40.00m-75.00m EXTRA HARD BLUE MUDSTONE 75.00m-87.00m ULTRA HARD BLUE MUDSTONE WITH LAYERS OF QUARTZ PIRITE	0.00m-25.00m INNER LINING - CASING = Steel 25.00m-87.00m INNER LINING - SCREEN = Steel			03/12/1998	884m	East
116243	Irrigation	0.00m-0.70m TOP SOIL 0.70m-7.50m RED SOIL 7.50m-27.00m MOTTLED CLAY 27.00m-46.00m MUDSTONE YELLOW 46.00m-201.00m BASALT	-0.10m-49.00m INNER LINING - CASING = Steel 49.00m-201.00m INNER LINING - SCREEN = Steel			09/01/1991	887m	North East
WRK048436	Irrigation	0.00m-0.30m RED TOPSOIL 0.30m-9.10m CLAY AND SUBSOIL 9.10m-18.20m BASALTIC CLAY (TAN) 18.20m-27.10m SEDEMENTARY MUDSTONE 27.10m-35.90m HARD ORANGE MUDSTONE 35.90m-116.00m HARD GREY MUDSTONE	-0.20m-28.60m INNER LINING - CASING = Steel 28.60m-116.00m INNER LINING - SCREEN = Steel			24/01/1995	900m	North East
WRK048457	Irrigation	0.00m-1.00m TOP SOIL 1.00m-16.00m RED CLAY 16.00m-33.00m BROWN CLAY 33.00m-39.00m TAN CLAY 39.00m-48.00m BROWN CLAY 48.00m-66.00m TAN CLAY SOFT 66.00m-86.00m HARD BLUE BASALT 86.00m-87.00m MEDIUM BLUE BASALT 87.00m-91.00m BAKED CLAY GREY 91.00m-139.00m MEDIUM HARD MUDSTONE 139.00m-159.00m HARD BLUE MUDSTONE WITH A FRACTURE	0.00m-66.00m INNER LINING - CASING = Steel 66.00m-159.00m INNER LINING - SCREEN = Steel		66.00m-159.00m Mudstone	05/01/2000	905m	North East
98462	Domestic, Stock					31/12/1970	907m	North East
126863	Not Used - Capped	0.00m-1.50m TOP SOIL 1.50m-45.00m MOTTLE CLAY 45.00m-77.72m MUDSTONE 77.72m-182.88m BASALT	0.00m-77.72m INNER LINING - CASING = Steel 77.72m-182.88m INNER LINING - SCREEN = Steel		77.72m-182.88m Basalt	12/05/1992	914m	North East
98585	Domestic	0.00m-88.39m OLD BORE 88.39m-99.06m GRANITE				02/12/1971	915m	East

Bore Id	Use Type	Drillers Log	Construction	Latest Water Levels	Geology	Completed Date	Dist (m)	Dir
WRK048604	Irrigation	0.00m-0.50m TOP SOIL 0.50m-3.00m RED CLAY 3.00m-12.00m SOFT YELLOW MUDSTONE 12.00m-24.00m SOFT AND FIRM BLUE MUDSTONE 24.00m-25.50m SOFT TAN CLAY 25.50m-30.00m FIRM BLUE MUDSTONE 30.00m-45.00m MED HARD BLUE MUDSTONE 45.00m-70.00m HARD BLUE MUDSTONE	0.00m-30.00m INNER LINING - CASING = Mild Steel 30.00m-70.00m INNER LINING - SCREEN = Mild Steel		30.00m-70.00m Mudstone	02/05/1985	915m	South East
WRK048612	Irrigation	0.00m-3.00m RED TOP SOIL 3.00m-20.00m YELLO WCLAY 20.00m-25.00m CLAY & SAND 25.00m-30.00m REDDISH BASALT 30.00m-35.00m HARD BASALT 35.00m-40.00m DECOMPOSED BASALT 40.00m-60.00m BASALT 60.00m-91.50m GREY SANDSTONE	0.00m-44.00m INNER LINING - CASING = Pvc Class 9 44.00m-91.50m INNER LINING - SCREEN = Pvc Class 9		44.00m-91.50m	19/01/1987	919m	East
98819	Domestic, Stock	0.00m-0.30m RED TOP SOIL 0.30m-6.00m RED CLAY AND BOULDERS 6.00m-18.20m PINK/PURPLE BASALTIC CLAY 18.20m-53.00m BROWN BASALTIC CLAY 53.00m-65.00m BLUE HARD BASALT 65.00m-79.00m GREY/BLUE BASALT 79.00m-85.30m VERY HARD BASALT 85.30m-103.60m MEDIUM HARD BLUE BASALT 103.60m-125.80m GREY MUDSTONE	0.00m-53.30m INNER LINING - CASING = Steel 53.30m-125.80m INNER LINING - SCREEN = Steel			22/03/1990	930m	North East
WRK048560	Irrigation	0.00m-0.20m TOP SOIL 0.20m-9.50m FIRM RED MOTTLED CLAY 9.50m-29.00m FIRM MOTTLED GREY CLAY 29.00m-31.50m MEDIUM HARD BASALT 31.50m-39.00m HARD BASALT 39.00m-45.00m MEDIUM HARD BASALT 45.00m-67.00m HARD BASALT 67.00m-73.00m MEIUM HARD BLUE SLATE 73.00m-84.50m HARD BLUE SLATE 84.50m-91.50m VERY HARD SANDSTONE	0.00m-32.00m INNER LINING - CASING = Not Known 32.00m-91.50m INNER LINING - SCREEN = Not Known		32.00m-91.50m	23/02/1978	937m	North East
124852	Irrigation	0.00m-0.30m RED TOP SOIL 0.30m-6.00m RED CLAY & BOLDERS 6.00m-18.20m PINK/PURPLE BASALTIC CLAY 18.20m-53.00m BROWN BASALTIC CLAY 53.00m-65.00m BLUE HARD BASALT 65.00m-79.00m GREY/BLUE BASALT 79.00m-85.00m VERY HARD BASALT 85.00m-103.00m MEDIUM HARD BLUE BASALT 103.00m-125.80m GREY MUDSTONE	-0.30m-53.30m INNER LINING - CASING = Mild Steel 53.30m-125.80m INNER LINING - SCREEN = Mild Steel			22/03/1990	944m	North East
79975	Domestic	0.00m-3.00m SANDY CLAY 3.00m-106.00m GRANITE	0.00m-2.43m INNER LINING - CASING = Pvc Class 6 2.43m-106.00m INNER LINING - SCREEN = Pvc Class 6		2.43m-106.00m Granite	24/01/1983	944m	South West
WRK076601	Irrigation	0.00m-29.00m Red clay 29.00m-45.00m Highly fractured basalt 45.00m-65.00m LIGHTgrey silty clay 65.00m-103.00m DArk grey silt stone	0.00m-94.00m INNER LINING - CASING = Pvc 94.00m-103.00m INNER LINING - SCREEN = Pvc 50.00m-60.00m OUTER LINING - GRAVEL = Cement 60.00m-65.00m OUTER LINING - GRAVEL = Bentonite 65.00m-67.00m OUTER LINING - GRAVEL = Seal			31/10/2011	967m	East
WRK048602	Commercial, Domestic, Irrigation, Stock	0.00m-61.00m EXISTING BORE 61.00m-99.00m HARD BLUE SHALE WITH SOME FRACTURES			61.00m-99.00m Shale	20/09/1985	970m	East

Bore Id	Use Type	Drillers Log	Construction	Latest Water Levels	Geology	Completed Date	Dist (m)	Dir
WRK048538	Domestic, Irrigation	0.00m-0.30m SOIL 0.30m-7.92m FIRM MOTTLED RED CLAY 7.92m-10.97m VERY FIRM YELLOW CLAY 10.97m-27.43m FIRM BASALTIC CLAY 27.43m-29.56m SOFT DECOMPOSED BASALT 29.56m-31.09m MEDIUM HARD PARTLY DECOMPOSED BASALT 31.09m-65.53m HARD BASALT 65.53m-70.10m MEDIUM HARD BASALT 70.10m-79.86m MEDIUM HARD SANDSTONE 79.86m-95.10m MEDIUM HARD BLUE SHALE 95.10m-115.82m VERY HARD BLUE SHALE	0.00m-32.31m INNER LINING - CASING = Not Known 42.67m-109.72m INNER LINING - SCREEN = Not Known		42.67m-109.72m	14/05/1974	972m	North East
98778	Domestic, Stock	0.00m-0.30m TOP SOIL 0.30m-6.00m RED CLAY 6.00m-33.50m LIGHT BROWN BASALTIC CLAY 33.50m-35.50m DECOMPOSED BASALT 35.50m-45.70m BLUE/GREY BASALT 45.70m-48.10m COARSE WHITE SAND AND SOME CLAY 48.10m-61.00m MEDIUM HARD BLUE MUDSTONE	0.00m-35.50m INNER LINING - CASING = Mild Steel 35.50m-61.00m INNER LINING - SCREEN = Mild Steel		35.50m-61.00m	07/01/1986	974m	North East
WRK048566	Irrigation	0.00m-0.20m TOP SOIL 0.20m-64.00m FIRM RED MATTLED CLAY 64.00m-66.50m MEDIUM HARD BASALT 66.50m-91.50m HARD BASALT 91.50m-112.00m MEDIUM HARD AS ABOVE 112.00m-117.50m SOFT HONEYCOMB BASALT 117.50m-153.00m HARD BLUE SHALE	0.00m-67.00m INNER LINING - CASING = Mild Steel 67.00m-153.00m INNER LINING - SCREEN = Mild Steel		67.00m-153.00m Basalt	25/11/1978	982m	North East
98468	Domestic					31/12/1967	985m	North East
WRK048483	Domestic, Stock		0.00m-11.50m INNER LINING - CASING = Mild Steel 31.00m-116.00m INNER LINING - SCREEN = Mild Steel		31.00m-116.00m	13/01/1988	986m	South East
79956	Not Known	0.00m-1.22m SURFACE SOIL 1.22m-18.29m MOTTLED CLAYS 18.29m-24.38m GREY MUDSTONE 24.38m-73.15m BASALT WITH BANDS OF WEATHERED AND FRACTURED BASALT THROUGH 73.15m-85.34m GRANITE	0.00m-24.38m INNER LINING - CASING = Not Known 24.38m-73.15m INNER LINING - SCREEN = Not Known		24.38m-73.15m	09/11/1973	997m	South East
WRK048555	Domestic, Stock	0.00m-0.30m TOP SOIL 0.30m-17.00m FIRM RED MOTTLED CLAY WITH SOME BOULDERS 17.00m-25.00m FIRM GREY MOTTLED CLAY AND LIMESTONE 25.00m-49.50m FIRM BASALTIC CLAY 49.50m-51.00m MEDIUM HARD BASALT 51.00m-53.00m HARD BASALT	0.00m-53.00m INNER LINING - CASING = Pvc 18.00m-53.00m INNER LINING - SCREEN = Pvc 18.00m-53.00m OUTER LINING - GRAVEL = Gravel		18.00m-53.00m	23/11/1977	1000m	North East
98680	Domestic, Stock	0.00m-7.00m FIRM RED MATTLED CLAY 7.00m-43.00m FIRM MATTLED GREY CLAY 43.00m-44.50m MEDIUM HARD PARTLY DECOMPOSED BASALT 44.50m-114.50m HARD BASALT 114.50m-116.00m MEDIUM HARD GREY MUDSTONE 116.00m-132.00m MEDIUM HARD BLUE SHALE 132.00m-169.00m HARD AS ABOVE	0.00m-45.00m INNER LINING - CASING = Steel 45.00m-169.00m INNER LINING - SCREEN = Steel		45.00m-169.00m Basalt	19/10/1978	1012m	North East
WRK048513	Domestic					31/12/1970	1025m	North East
79958	Irrigation	0.00m-0.30m TOP SOIL 0.30m-18.29m FIRM MATTLED RED CLAY 18.29m-21.34m FIRM SILARIAN 21.34m-24.99m HARD SANDSTONE 24.99m-54.86m HARD BLUE SHALE 54.86m-90.00m HARD BLUE M/S WITH QUARTZ & OPEN FRACTURES	0.00m-26.97m INNER LINING - CASING = Not Known 12.19m-54.86m INNER LINING - SCREEN = Not Known 0.00m-26.82m OUTER LINING - GRAVEL = Gravel		12.19m-54.86m	11/11/1973	1043m	South East
145061	Irrigation					01/01/1972	1058m	South East

Bore Id	Use Type	Drillers Log	Construction	Latest Water Levels	Geology	Completed Date	Dist (m)	Dir
WRK048471	Domestic, Stock	0.00m-0.30m TOP SOIL 0.30m-3.35m FIRM MATTLED RED CLAY 3.35m-10.36m FIRM SILURIAN CLAY 10.36m-13.72m MEDIUM HARD MUDSTONE 13.72m-50.29m HARD SILURIAN SANDSTONE 50.29m-60.90m HARD BLUE SHALE	0.00m-14.02m INNER LINING - CASING = Not Known 14.02m-21.33m INNER LINING - SCREEN = Not Known		14.02m-21.33m	15/04/1972	1061 m	South East
WRK048490	Irrigation		0.00m-51.82m INNER LINING - CASING = Not Known 51.82m-67.06m INNER LINING - SCREEN = Not Known		51.82m-67.06m	31/12/1967	1082 m	South East
98774	Not Known	0.00m-12.00m RED BASALTIC CLAY 12.00m-36.00m YELLOW/BROWN CLAY 36.00m-100.00m BASALT	0.00m-36.00m INNER LINING - CASING = Mild Steel 36.00m-100.00m INNER LINING - SCREEN = Mild Steel		36.00m-100.00m Basalt	05/02/1985	1087 m	North East
WRK048516	Domestic, Irrigation, Stock					31/12/1970	1087 m	East
WRK077985	Domestic & Stock	0.00m-21.50m CLAY 21.50m-56.00m BASALT 56.00m-130.00m SILTSTONE	0.00m-28.00m OUTER LINING - GRAVEL = Cement 28.00m-30.00m OUTER LINING - GRAVEL = Bentonite 30.00m-33.00m OUTER LINING - GRAVEL = Seal		121.00m-127.00m Siltstone	14/02/2014	1105 m	North
WRK094829	Irrigation	0.00m-9.00m RED TOPSOIL 9.00m-25.00m BASALTIC CLAY 25.00m-39.00m BASALT COMPLETED WEATHERED 39.00m-98.00m BASALTMEDIUM HARD 98.00m-106.00m SILTSTONEMEDIUM GREY 106.00m-136.00m SILSTONE HARD GREY	0.00m-40.00m INNER LINING - CASING = Pvc 40.00m-128.00m INNER LINING - CASING = Pvc 128.00m-134.00m INNER LINING - SCREEN = Pvc 134.00m-136.00m INNER LINING - CASING = Pvc 0.00m-41.00m OUTER LINING - GRAVEL = Cement 41.00m-42.00m OUTER LINING - GRAVEL = Bentonite 42.00m-43.00m OUTER LINING - GRAVEL = Seal			06/07/2016	1115 m	North East
98491	Domestic					31/12/1955	1117 m	North East
WRK048605	Irrigation	0.00m-12.00m RED BASALTIC CLAY 12.00m-40.00m CLAY (PORE RETURN) 40.00m-95.00m BASALT 95.00m-136.00m GREY MUDSTONE	0.00m-40.00m INNER LINING - CASING = Pvc 40.00m-136.00m INNER LINING - SCREEN = Pvc		40.00m-136.00m Basalt	14/02/1985	1125 m	North East
WRK091597	Domestic & Stock	0.00m-5.00m GREY CLAY 5.00m-40.00m WEATHERED SILTSTONE 40.00m-90.00m GREY SILTSTONE	0.00m-81.00m INNER LINING - CASING = UPVC class 12 81.00m-87.00m INNER LINING - SCREEN = UPVC class 12 87.00m-90.00m INNER LINING - CASING = UPVC class 12 0.00m-40.00m OUTER LINING - GRAVEL = Cement 40.00m-42.00m OUTER LINING - GRAVEL = Bentonite 42.00m-45.00m OUTER LINING - GRAVEL = Seal			20/04/2016	1133 m	South East
98808	Domestic	0.00m-2.00m TOPSOIL 2.00m-66.00m RED CLAY 66.00m-130.00m BASALT/FRACTURED	0.00m-78.00m INNER LINING - CASING = Not Known 78.00m-130.00m INNER LINING - SCREEN = Not Known		78.00m-130.00m Basalt	09/10/1989	1136 m	North East
WRK048458	Irrigation						1142 m	East
WRK987254							1145 m	South West
WRK039551	Irrigation	62.00m-107.50m HARD BLUE SHALE WITH SOME FRACTURES				10/09/1994	1150 m	East
WRK048503	Irrigation					31/12/1970	1165 m	North East
WRK048610	Domestic, Irrigation	97.00m-115.00m HARD BLUE SHALE WITH SOME FRACTURES 115.00m-129.50m HARD BLUE/GREY SANDSTONE WITH FRACTURES				13/02/1986	1173 m	North East

Bore Id	Use Type	Drillers Log	Construction	Latest Water Levels	Geology	Completed Date	Dist (m)	Dir
98407	Groundwater Investigation, Observation, State Observation Network	0.00m-1.00m TOP SOIL SILT 1.00m-32.00m CLAY 32.00m-34.00m TOUGH CLAY YELLOW 34.00m-38.00m CLAY STONE 38.00m-39.00m WEATHERED BASALT 39.00m-44.00m VERY HARD BASALT 44.00m-45.00m BASALT (EASY DRILLING) 45.00m-50.00m BLUE BASALT 50.00m-54.00m BLUE BASALT HARD 54.00m-57.00m BROWN BLUE BASALT 57.00m-59.00m BASALT BROWN CLAY 59.00m-65.00m BASALT 65.00m-66.00m BASALT VARIOUS COLOURS 66.00m-67.00m BLACK BASALT 67.00m-72.00m HARD CLAY BASALT 72.00m-75.00m BASALT CLAY BANDS 75.00m-76.00m GREY CLAY	0.00m-58.00m INNER LINING - CASING = Pvc 58.00m-70.00m INNER LINING - SCREEN = Pvc 70.00m-76.00m INNER LINING - CASING = Pvc 0.00m-1.00m OUTER LINING - GRAVEL = Cement 50.00m-76.00m OUTER LINING - GRAVEL = Gravel	Date/time: 2016-05-23 1358 Quality: 43 WLMP: 33.94m DBNS: 33.37m RWL: 225.11 mAHd	58.00m-70.00m Basalt	29/03/1976	1177 m	North East
98590	Irrigation	0.00m-2.13m SURFACE SOIL 2.13m-9.14m RED CLAYEY SOIL 9.14m-24.38m MOTTLED CLAY 24.38m-78.64m BASALT 78.64m-79.25m DARK GREY CLAY STIFF" 79.25m-121.00m GREY BASALT	0.00m-121.00m INNER LINING - CASESCRN = Not Known		0.00m-121.00m	25/02/1972	1178 m	North East
79971	Domestic, Stock	0.00m-31.50m RED MOTTLED CLAY 31.50m-33.50m HARD BASALT 33.50m-39.50m MEDIUM HARD BASALT 39.50m-48.70m HARD BASALT 48.70m-72.50m MEDIUM HARD BLUE SHALE 72.50m-89.50m HARD BLUE SHALE 89.50m-91.50m MEDIUM HARD AS ABOVE 91.50m-112.00m HARD SANDSTONE 112.00m-114.50m MEDIUM HARD SANDSTONE AND QUARTZ 114.50m-128.00m HARD SANDSTONE	0.00m-36.50m INNER LINING - CASING = Not Known 36.50m-125.00m INNER LINING - SCREEN = Not Known		36.50m-125.00m	15/04/1981	1180 m	South East
WRK048474	Irrigation						1182 m	South East
98548	Domestic					31/12/1970	1183 m	North
98577	Domestic, Stock	0.00m-0.00m DEEPENING OF EXISTING BORE 51.82m-67.06m HARD SANDSTONE HOLE WITH SOME FAULTS	0.00m-54.86m INNER LINING - CASING = Not Known 54.86m-60.96m INNER LINING - SCREEN = Not Known		54.86m-60.96m	20/11/1970	1202 m	East
WRK032772	Industrial						1204 m	East
140940	Irrigation	0.00m-1.00m TOP SOIL 1.00m-6.00m RED CLAY 6.00m-18.00m BROWN CLAY 18.00m-25.00m PURPLE CLAY 25.00m-32.00m TAN CLAY 32.00m-35.00m TAN CLAY SOFT 35.00m-63.00m HARD BLUE BASALT 63.00m-68.00m WHITE BAKED CLAY 68.00m-96.00m MEDIUM HARD BLUE MUDSTONE 96.00m-101.00m HARD BLUE MUDSTONE 101.00m-107.00m HARD BLUE MUDSTONE WITH BANDS OF FINE CLAY	0.00m-35.00m INNER LINING - CASING = Steel 35.00m-107.00m INNER LINING - SCREEN = Steel		35.00m-107.00m Basalt	12/12/1996	1206 m	East
WRK992061							1214 m	South
98679	Domestic, Stock	0.00m-18.20m FIRM MOTTLED RED CLAY 18.20m-38.00m SOFT AS ABOVE 38.00m-110.00m MEDIUM HARD BASALT	0.00m-40.50m INNER LINING - CASING = Steel 40.50m-110.00m INNER LINING - SCREEN = Steel		40.50m-110.00m Basalt	13/11/1978	1219 m	North East
98489	Domestic, Irrigation, Stock					31/12/1970	1226 m	North East
WRK048588	Irrigation	0.00m-0.91m RED TOPSOIL 0.91m-9.10m BROWN CLAY 9.10m-18.29m YELLOW CLAY 18.29m-24.38m BROWN CLAY 24.38m-27.43m DECOMPOSED MUDSTONE 27.43m-65.50m BLUE MUDSTONE 65.50m-67.06m GREY CLAY	0.00m-27.43m INNER LINING - CASING = Pvc Class 9 27.43m-67.06m INNER LINING - SCREEN = Pvc Class 9		27.43m-67.06m Mudstone	19/09/1983	1226 m	East
WRK984848							1230 m	North



Bore Id	Use Type	Drillers Log	Construction	Latest Water Levels	Geology	Completed Date	Dist (m)	Dir
WRK054947	Domestic & Stock	0.00m-3.00m soil 3.00m-12.00m basaltic clay 12.00m-25.00m decomposed basalt 25.00m-32.00m weathered basalt 32.00m-45.00m basalt 45.00m-54.00m vesicular basalt 54.00m-55.00m baked clay 60.00m-73.00m mudstone 73.00m-187.00m dark grey siltstone	0.00m-63.00m INNER LINING - CASING = Pvc 0.00m-63.00m OUTER LINING - GRAVEL = Cement		0.00m-63.00m Basalt 63.00m-187.00m Siltstone	03/02/2010	1231 m	North
WRK048528	Domestic, Irrigation, Stock	41.15m-62.48m HARD SANDSTONE SHALE WITH FAULTS 62.48m-66.00m VERY HARD BORNFELS	0.00m-48.76m INNER LINING - CASING = Not Known 48.76m-60.96m INNER LINING - SCREEN = Not Known		48.76m-60.96m	12/01/1971	1242 m	East
WRK048633	Irrigation						1245 m	North East
138442	Irrigation		0.00m-33.00m INNER LINING - CASING = Steel 33.00m-140.00m INNER LINING - SCREEN = Steel			10/05/1999	1246 m	North East
WRK048428	Irrigation	0.00m-2.00m TOP SOIL 2.00m-99.00m CLAY MOTTLED 99.00m-127.00m BASALT 127.00m-135.00m MUDSTONE 135.00m-182.00m BASALT	-0.10m-97.00m INNER LINING - CASING = Steel 97.00m-182.00m INNER LINING - SCREEN = Steel		97.00m-182.00m Basalt	25/04/1992	1247 m	North East
WRK048476	Domestic, Irrigation, Stock	0.00m-0.30m TOP SOIL 0.30m-1.22m VERY FIRM RED CLAY 1.22m-19.51m FIRM MOTTLED RED CLAY 19.51m-22.86m SOFT MOTTLED RED CLAY 22.86m-23.77m HARD STONY PIECES 23.77m-44.20m SOFT SILTY SAND 44.20m-74.68m HARD BASALT 74.68m-92.96m VERY HARD BASALT	0.00m-44.19m INNER LINING - CASING = Not Known 48.76m-91.44m INNER LINING - SCREEN = Not Known		48.76m-91.44m	27/03/1974	1249 m	South East
WRK088523	Irrigation	0.00m-15.00m RED CLAY 15.00m-27.00m BROWN CLAY 27.00m-31.00m WEATHERED BASALT 31.00m-67.00m HARD BASALT 67.00m-120.00m SILTSTONE	0.00m-108.00m INNER LINING - CASING = Pvc 108.00m-114.00m INNER LINING - SCREEN = Pvc 0.00m-29.00m OUTER LINING - GRAVEL = Cement 29.00m-32.00m OUTER LINING - GRAVEL = Bentonite 32.00m-34.00m OUTER LINING - GRAVEL = Seal			10/02/2016	1249 m	North
98761	Stock	0.00m-0.20m TOP SOIL 0.20m-39.50m MOTTLED RED CLAY 39.50m-42.50m MEDIUM HARD PARTLY DECOMPOSED BASALT 42.50m-48.50m MEDIUM HARD BASALT 48.50m-50.00m HARD AS ABOVE 50.00m-62.30m MEDIUM HARD BASALT 62.30m-73.00m HARD BASALT 73.00m-75.50m MEDIUM HARD AS ABOVE 75.50m-90.00m MEDIUM HARD BLUE SHALE 90.00m-122.00m HARD AS ABOVE	0.00m-42.50m INNER LINING - CASING = Mild Steel 42.50m-122.00m INNER LINING - SCREEN = Mild Steel		42.50m-122.00m Basalt	01/12/1982	1252 m	North East
WRK990714							1259 m	North
WRK048636	Commercial	0.00m-3.00m SOIL, CLAY - HIGHLY WEATHERED 3.00m-23.00m BASALT 23.00m-26.00m GREY CLAY 26.00m-30.00m WEATHERED BASALT 30.00m-39.00m BASALT 39.00m-42.00m GREY CLAY 42.00m-56.00m MUDSTONE 56.00m-150.00m SILTSTONE / SANDSTONE	0.00m-33.00m INNER LINING - CASING = Stainless Steel 0.00m-33.00m OUTER LINING - GRAVEL = Cement			20/01/2005	1262 m	South East
WRK973201	Domestic & Stock	0.00m-0.50m SOIL 0.50m-3.00m RED/BROWN CLAY 3.00m-20.00m HIGHLY WEATHERED BASALT 20.00m-40.00m BASALT 40.00m-45.00m MUDSTONE/GREY 45.00m-60.00m LIGHT GREY-WHITE SANDSTONE 60.00m-96.00m DARK GREY SILTSTONE	0.00m-2.00m OUTER LINING - GRAVEL = Cement 2.00m-22.00m OUTER LINING - GRAVEL = Gravel			20/03/2008	1265 m	East
WRK047156	Irrigation						1270 m	North

Bore Id	Use Type	Drillers Log	Construction	Latest Water Levels	Geology	Completed Date	Dist (m)	Dir
98587	Domestic, Stock	0.00m-1.22m RED SOIL 1.22m-4.57m BROWN CLAY 4.57m-7.62m RED CLAY 7.62m-15.24m YELLOW BROWN CLAY 15.24m-27.43m YELLOW MUDSTONE 27.43m-45.72m GREY SLATE MUDSTONE? 45.72m-57.91m BASALT 57.91m-67.06m GREY SULURIAN MUDSTONE	0.00m-36.58m INNER LINING - CASING = Not Known			25/11/1971	1272 m	East
WRK048495	Not Known		0.00m-21.34m INNER LINING - CASING = Galvanised Iron 79.25m-85.34m INNER LINING - SCREEN = Galvanised Iron		79.25m-85.34m	31/12/1968	1272 m	North
WRK987964	Domestic, Irrigation	0.00m-0.50m soil 0.50m-22.00m basaltic clay 22.00m-46.00m basalt 46.00m-51.00m grey mudstone 51.00m-120.00m grey siltstone/sandstone	0.00m-22.00m INNER LINING - CASING = Steel 22.00m-63.00m INNER LINING - CASING = Pvc 63.00m-99.00m INNER LINING - SLOT = Pvc 0.00m-22.00m OUTER LINING - GRAVEL = Cement 22.00m-51.00m OUTER LINING - GRAVEL = Gravel			23/02/2009	1274 m	North
142252	Domestic	0.00m-1.00m TOPSOIL 1.00m-3.00m RED CLAY 3.00m-27.00m TAN CLAY & BOULDERS 27.00m-36.00m BLUE BASALT HARD 36.00m-51.00m BAKED CLAY & BASALT 51.00m-58.00m BLUE BASALT HARD 58.00m-84.00m SOFT GREY MUDSTONE 84.00m-131.00m MEDIUM BLUE MUDSTONE	0.00m-25.00m INNER LINING - CASING = Steel 25.00m-131.00m INNER LINING - SCREEN = Steel			12/04/2000	1277 m	South East
98552	Irrigation					01/01/1970	1308 m	East
WRK058810	Irrigation					01/01/1970	1308 m	East
WRK046660	Irrigation						1309 m	South East
98613	Irrigation	0.00m-48.77m VERY STIFF MOTTLED RED CLAY 48.77m-51.21m MEDIUM HARD BASALT 51.21m-68.58m HARD BASALT 68.58m-91.44m VERY HARD BASALT 91.44m-100.58m HARD BASALT	0.00m-52.42m INNER LINING - CASING = Not Known 64.00m-99.06m INNER LINING - SCREEN = Not Known		64.00m-99.06m	04/12/1973	1317 m	North East
WRK048462	Irrigation	0.00m-45.00m SOIL WEATHERED 45.00m-130.00m SILTSTONE	0.00m-40.00m INNER LINING - CASING = Steel 0.00m-130.00m INNER LINING - CASING = Pvc 112.00m-130.00m INNER LINING - SCREEN = Steel 0.00m-2.00m OUTER LINING - GRAVEL = Cement			10/02/2001	1335 m	North East
WRK982432	Domestic & Stock		15.00m-18.00m OUTER LINING - GRAVEL = Gravel			03/04/2008	1335 m	East
98786	Domestic	0.00m-0.30m TOP SOIL 0.30m-20.00m FIRM RED MOTTLED CLAY 20.00m-36.00m FIRM GREY CLAY 36.00m-40.00m CLAYEY BROKEN BASALT 40.00m-46.00m FIRM FRACTURED MUDSTONE	0.00m-39.00m INNER LINING - CASING = Mild Steel 39.00m-46.00m INNER LINING - SCREEN = Mild Steel		39.00m-46.00m Basalt	15/12/1986	1338 m	East
98771	Domestic	0.00m-1.00m TOP SOIL 1.00m-39.00m RED CLAY 39.00m-50.00m TAN CLAY 50.00m-54.00m PARTLY DECOMPOSED BASALT 54.00m-57.00m FRACTURED BASALT 57.00m-60.00m MED HARD SANDSTONE 60.00m-69.00m WEATHERED SANDSTONE 69.00m-80.00m MED HARD BLUE SHALE	0.00m-52.00m INNER LINING - CASING = Mild Steel 52.00m-80.00m INNER LINING - SCREEN = Mild Steel		52.00m-80.00m	26/04/1985	1349 m	East
WRK039561	Not Known	0.00m-0.30m RED TOPSOIL 0.30m-6.00m RED CLAY 6.00m-54.80m BASALTIC CLAY 54.80m-56.60m DECOMPOSED BASALT 56.60m-66.70m HARD BASALT 66.70m-67.90m FRACTURED BASALT 67.90m-91.00m GREY-GREEN BASTIC SANDSTONE 91.00m-108.20m GREY SANDSTONE	0.00m-56.90m INNER LINING - CASING = Mild Steel 68.50m-71.00m INNER LINING - SCREEN = Mild Steel		68.50m-71.00m	24/01/1990	1357 m	North East

Bore Id	Use Type	Drillers Log	Construction	Latest Water Levels	Geology	Completed Date	Dist (m)	Dir
WRK990229	Domestic					09/03/2009	1378 m	East
WRK048473	Irrigation	0.00m-0.30m TOP SOIL 0.30m-45.11m FIRM RED MOTTLED CLAY 45.11m-50.29m HARD BASALT 50.29m-54.86m MEDIUM HARD BASALT 54.86m-70.10m MEDIUM HARD MUDSTONE	0.00m-46.18m INNER LINING - CASING = Not Known 50.29m-54.86m INNER LINING - SCREEN = Not Known		50.29m-54.86m	04/02/1974	1379 m	South East
98497	Domestic					31/12/1956	1380 m	East
WRK032435	Commercial, Domestic					01/01/1800	1388 m	South West
WRK087398	Irrigation	0.00m-13.00m REDCLAY 13.00m-30.00m BROWNCLAY 30.00m-32.00m GREYCLAY 32.00m-40.00m BASALT 40.00m-45.00m CLAYFRACTURED BASALT 45.00m-120.00m SILTSTONE	0.00m-108.00m INNER LINING - CASING = UPVC class 12 108.00m-114.00m INNER LINING - SCREEN = UPVC class 12 114.00m-120.00m INNER LINING - CASING = UPVC class 12 0.00m-40.00m OUTER LINING - GRAVEL = Cement 48.00m-50.00m OUTER LINING - GRAVEL = Bentonite 50.00m-52.00m OUTER LINING - GRAVEL = Seal		108.00m-114.00m Siltstone	03/05/2016	1418 m	North East
98545	Domestic					31/12/1968	1423 m	North
98696	Domestic	0.00m-0.20m SURFACE SOIL 0.20m-6.00m FIRM RED CLAY 6.00m-24.50m FIRM MOTTLED RED CLAY 24.50m-30.50m FIRM SEVERELY DECOMPOSED BASALT 30.50m-33.50m FIRM TO SOFT SILURIAN CLAY	0.00m-25.00m INNER LINING - CASING = Pvc Class 9 25.00m-30.00m INNER LINING - SCREEN = Pvc Class 9 30.00m-33.50m INNER LINING - CASING = Pvc Class 9		25.00m-30.00m Basalt	14/04/1980	1426 m	East
79984	Domestic, Domestic & Stock, Stock	0.00m-97.00m EXISTING BORE 97.00m-137.00m MUDSTONE	0.00m-137.00m INNER LINING - CASESCRN = Not Known		0.00m-137.00m	30/04/1984	1429 m	South East
WRK069179	Domestic & Stock	0.00m-37.00m CLAY 37.00m-42.00m MUDSTONE 42.00m-130.00m SILTSTONE	40.00m-52.00m OUTER LINING - GRAVEL = Cement 52.00m-56.00m OUTER LINING - GRAVEL = Bentonite 56.00m-58.00m OUTER LINING - GRAVEL = Seal			09/05/2013	1432 m	North East
98693	Domestic	0.00m-0.10m TOP SOIL 0.10m-39.00m FIRM MOTTLED RED CLAY 39.00m-39.70m MEDIUM HARD BASALT 39.70m-90.00m HARD BASALT 90.00m-91.00m SOFT MUDSTONE	0.00m-40.00m INNER LINING - CASING = Galvanised Iron 40.00m-91.00m INNER LINING - SCREEN = Galvanised Iron		40.00m-91.00m Basalt	08/05/1980	1440 m	North East
98401	Observation, State Observation Network		0.00m-9.63m INNER LINING - CASING = Mild Steel	Date/time: 1988-03-30 0000 Quality: 43 WLMP: m DBNS: m RWL: 180.87 mAHD	9.63m-46.00m Sandstone	15/09/1975	1454 m	East
98813	Not Known	0.00m-1.52m TOPSOIL 1.52m-25.90m RED CLAY 25.90m-29.87m MUDSTONE 29.87m-32.00m DECOMPOSED ROCK 32.00m-189.00m BASALT	0.00m-189.00m INNER LINING - CASESCRN = Not Known		0.00m-189.00m	25/11/1989	1458 m	North East
WRK048430	Commercial	110.00m-114.00m BASALT WEATHERED 114.00m-120.00m CLAY & WEATHERED BASALT 120.00m-140.00m BASALT WEATHERED	-0.20m-140.00m INNER LINING - CASING = Not Known 0.00m-140.00m INNER LINING - CASESCRN = Not Known		0.00m-140.00m	15/11/1990	1461 m	North East

Bore Id	Use Type	Drillers Log	Construction	Latest Water Levels	Geology	Completed Date	Dist (m)	Dir
98717	Irrigation	0.00m-0.20m TOP SOIL 0.20m-7.50m FIRM RED CLAY 7.50m-34.00m FIRM MOTTLED GREY BASALTIC CLAY 34.00m-37.50m VERY FIRM PARTLY DECOMPOSED BASALT 37.50m-44.50m MEDIUM HARD BASALT 44.50m-80.20m HARD BASALT 80.20m-81.30m MEDIUM HARD MUD FRACTURED BASALT 81.30m-88.50m MEDIUM HARD GREY MUDSTONE 88.50m-97.50m MEDIUM HARD BLUE SHALE (SANDSTONE) 97.50m-107.00m HARD LIGHT GREY SANDSTONE	0.00m-38.20m INNER LINING - CASING = Pvc 38.20m-107.00m INNER LINING - SCREEN = Pvc		38.20m-107.00m Sandstone	01/12/1980	1465 m	North East
WRK048518	Irrigation	60.00m-125.00m BASALT	0.00m-60.00m INNER LINING - CASING = Not Known 60.00m-125.00m INNER LINING - SCREEN = Not Known			07/03/1991	1471 m	North East
WRK973237							1482 m	South East
WRK048451	Irrigation	0.00m-1.00m TOP SOIL 1.00m-6.00m RED CLAY 6.00m-15.00m TAN CLAY 15.00m-28.00m YELLOW CLAY 28.00m-43.00m HARD BLUE BASALT 43.00m-45.00m BAKED CLAY 45.00m-90.00m HARD BLUE MUDSTONE WITH QUARTZ	0.00m-28.00m INNER LINING - CASING = Steel		28.00m-90.00m Mudstone	28/09/1998	1497 m	South East
WRK987887							1511 m	West
WRK987888							1511 m	West
WRK048470	Irrigation	0.00m-0.30m TOP SOIL 0.30m-12.80m FIRM RED MOTTLED CLAY 12.80m-21.95m MEDIUM HARD PARTLY DECOMPOSED BASALT 21.95m-44.20m VERY HARD BASALT 44.20m-56.39m MEDIUM HARD BASALT 56.39m-60.35m VERY HARD BASALT 60.35m-60.66m SOFT BASALT 60.66m-61.56m SOFT MUDSTONE	0.00m-25.60m INNER LINING - CASING = Not Known 12.80m-59.43m INNER LINING - SCREEN = Not Known		12.80m-59.43m	21/04/1972	1514 m	South East
98651	Irrigation	0.00m-2.44m SUB SOIL 2.44m-25.90m MOTTLED CLAY 25.90m-96.01m BASALT	0.00m-28.96m INNER LINING - CASING = Mild Steel 60.96m-96.01m INNER LINING - SCREEN = Mild Steel		60.96m-96.01m	20/09/1976	1515 m	East
WRK048637	Irrigation	0.00m-3.00m SOIL & CLAY, HIGHLY WEATHERED 3.00m-19.00m BASALT 19.00m-27.00m BASALT 27.00m-31.00m BAKED SANDY CLAY 31.00m-50.00m GREY SILTSTONE 50.00m-105.00m HARD GREY SILTSTONE & SANDSTON	0.00m-33.00m INNER LINING - CASING = Pvc 0.00m-33.00m OUTER LINING - GRAVEL = Cement			03/02/2005	1521 m	North
98668	Domestic	0.00m-1.22m TOP SOIL 1.22m-32.00m MOTTLED CLAY 32.00m-97.53m BASALT	0.00m-33.53m INNER LINING - CASING = Mild Steel 36.57m-97.53m INNER LINING - SCREEN = Mild Steel		36.57m-97.53m	22/10/1977	1524 m	North
98445	Domestic					31/12/1970	1526 m	North East
98618	Not Known	0.00m-0.91m TOP SOIL 0.91m-5.49m SOFT RED CLAY 5.49m-12.80m SOFT MOLDED SILTY CLAY 12.80m-27.74m FIRM GREY CLAY 27.74m-39.32m SOFT BASALTIC CLAY 39.32m-41.15m MEDIUM HARD PARTLY DECOMPOSED BASALT 41.15m-47.24m HARD BASALT 47.24m-55.47m MEDIUM HARD BASALT 55.47m-67.05m HARD BASALT 67.05m-76.20m MEDIUM HARD BLUE SHALE 76.20m-103.63m HARD BLUE SHALE SANDSTONE	0.00m-41.76m INNER LINING - CASING = Steel			08/11/1974	1533 m	North East
WRK048508	Irrigation					31/12/1962	1534 m	East
WRK048631	Irrigation	0.00m-1.20m TOP SOIL 1.20m-5.00m RED CLAY/SOIL 5.00m-52.00m MOTTLED CLAYS 52.00m-114.00m BASALT 114.00m-116.00m GREY CLAY 116.00m-139.00m BASALT	0.20m-52.00m INNER LINING - CASING = Mild Steel 114.00m-139.00m INNER LINING - SCREEN = Mild Steel		114.00m-139.00m	07/11/1990	1534 m	North East

Bore Id	Use Type	Drillers Log	Construction	Latest Water Levels	Geology	Completed Date	Dist (m)	Dir
WRK990897	Groundwater Investigation	0.00m-2.00m top soil 2.00m-3.00m brown clay 3.00m-33.00m brown sandy clay 33.00m-63.00m moist sandy clay 63.00m-78.00m weathered ryadacite 78.00m-107.00m harder ryadacite 107.00m-115.00m granite	0.30m-63.00m INNER LINING - CASING = Steel 63.00m-91.00m INNER LINING - CASING = Pvc 91.00m-109.00m INNER LINING - SCREEN = Pvc 109.00m-115.00m INNER LINING - CASING = Pvc 0.00m-80.00m OUTER LINING - GRAVEL = Cement 80.00m-81.00m OUTER LINING - GRAVEL = Bentonite			21/05/2009	1534 m	South
98560	Not Known					01/01/1970	1542 m	East
WRK991934							1543 m	South
98553	Domestic					31/12/1970	1544 m	East
WRK048475	Domestic, Irrigation	0.00m-0.50m TOP SOIL 0.50m-29.00m FIRM MOTTLED CLAY SOME BOULDERS 29.00m-32.30m HARD BASALT 32.30m-40.00m MEDIUM HARD BASALT 40.00m-47.50m HARD BASALT 47.50m-48.50m MEDIUM HARD PART DECOMPOSED BASALT 48.50m-65.50m HARD BASALT 65.50m-67.00m MEDIUM HARD BLUE SHALE 67.00m-97.50m GREY/BLUE SHALE 97.50m-112.80m GREY/BUE SHALE & QUARTZ	0.00m-31.50m INNER LINING - CASING = Steel 30.48m-60.96m INNER LINING - SCREEN = Steel 60.96m-112.80m INNER LINING - SCREEN = Slotted Steel		30.48m-60.96m 60.96m-112.80m Shale	19/05/1992	1546 m	South East
WRK048466	Irrigation					31/12/1970	1551 m	South East
WRK091349	Irrigation	0.00m-23.00m RED CLAY 23.00m-42.00m BROWN CLAY 42.00m-49.00m GREYCLAY 49.00m-70.00m BASALT 70.00m-139.00m SILTSTONEGREY	0.00m-127.00m INNER LINING - CASING = UPVC class 12 127.00m-133.00m INNER LINING - SCREEN = UPVC class 12 133.00m-139.00m INNER LINING - CASING = UPVC class 12 0.00m-48.00m OUTER LINING - GRAVEL = Cement 48.00m-50.00m OUTER LINING - GRAVEL = Bentonite 50.00m-52.00m OUTER LINING - GRAVEL = Seal		127.00m-133.00m Siltstone	02/05/2016	1556 m	North East
98589	Domestic, Stock	0.00m-1.52m SURFACE SOIL 1.52m-45.72m MOTTLED CLAYS 45.72m-137.16m MUDSTONE	0.00m-60.96m INNER LINING - CASING = Not Known 60.96m-137.16m INNER LINING - SCREEN = Not Known		60.96m-137.16m	11/02/1971	1564 m	East
WRK048468	Irrigation					01/01/1970	1568 m	South East
98757	Irrigation	0.00m-0.60m TOP SOIL 0.60m-42.60m RED/BROWN BASALT CLAY 42.60m-42.90m DECOMPOSED BASALT 42.90m-61.50m HARD BLUE BASALT 61.50m-91.40m MEDIUM HARD BLUE SHALE 91.40m-126.50m HARD BLUE SHALE WITH SOME FRACTURES	0.00m-43.30m INNER LINING - CASING = Mild Steel 43.30m-126.50m INNER LINING - SCREEN = Mild Steel		43.30m-126.50m Shale	25/08/1984	1575 m	North East
WRK054609	Irrigation	0.00m-3.00m SOIL & RED CLAY 3.00m-25.00m DECOMPOSED BASALTIC CLAY 25.00m-30.00m WEATHERED BASALT 30.00m-38.00m BASALT 38.00m-47.00m FRACTURED BASALT 47.00m-48.00m CHARCOAL / GREY CLAY 48.00m-66.00m VESICULAR BASALT 66.00m-69.00m COMPACTED GRAVELLEY CLAY 69.00m-75.00m SANDSTONE / QUARTZ 75.00m-147.00m SILTSTONE	0.00m-32.00m INNER LINING - CASING = Stainless Steel 32.00m-57.00m INNER LINING - CASING = Pvc 0.00m-32.00m OUTER LINING - GRAVEL = Cement			26/01/2010	1575 m	South East
98496	Domestic					31/12/1969	1590 m	East
98809	Domestic, Stock	0.00m-0.60m RED TOP SOIL 0.60m-3.60m RED CLAY 3.60m-33.50m RED BASALTIC CLAY 33.50m-45.40m GREY/BROWN DECOMPOSING BASALT 45.40m-104.20m VERY HARD GREY/BLUE BASALT 104.20m-115.80m BROWN MUDSTONE 115.80m-148.70m BLUE MUDSTONE	0.00m-45.80m INNER LINING - CASING = Mild Steel 80.00m-146.00m INNER LINING - SCREEN = Mild Steel		80.00m-146.00m	30/06/1989	1597 m	North East

Bore Id	Use Type	Drillers Log	Construction	Latest Water Levels	Geology	Completed Date	Dist (m)	Dir
98625	Domestic, Irrigation	0.00m-0.50m TOP SOIL 0.50m-7.50m MOTTLED RED CLAY 7.50m-25.00m SOFT MOTTLED RED CLAY 25.00m-26.00m MEDIUM HARD PART DECOMPOSED BASALT AND BOULDER 26.00m-38.00m HARD BASALT 38.00m-43.50m MEDIUM HARD BLUE SHALE 43.50m-68.00m HARD BLUE SHALE WITH FAULTS	0.00m-27.50m INNER LINING - CASING = Steel			25/11/1974	1599 m	East
WRK048517	Domestic, Irrigation, Stock		0.00m-24.38m INNER LINING - CASING = Galvanised Iron 24.38m-30.48m INNER LINING - SCREEN = Galvanised Iron		24.38m-30.48m Sedimentary	31/12/1964	1599 m	East
WRK048496	Domestic					31/12/1970	1603 m	North East
98508	Domestic					31/12/1965	1606 m	East
WRK048539	Irrigation	0.00m-0.61m TOP SOIL 0.61m-15.54m FIRM RED CLAY 15.54m-39.93m MEDIUM SOFT MOTTLED RED CLAY 39.93m-58.22m SOFT PARTLY DECOMPOSED BASALT 58.22m-60.65m SOFT SILURIAN CLAY 60.65m-64.31m SOFT BLUE SHALE 64.31m-67.36m MEDIUM HARD BLUE SHALE 67.36m-91.44m HARD BLUE SHALE 91.44m-96.01m VERY HARD SANDSTONE	0.00m-69.49m INNER LINING - CASING = Not Known 73.15m-92.96m INNER LINING - SCREEN = Not Known		73.15m-92.96m	09/05/1974	1617 m	North East
79946	Domestic, Stock					01/01/1970	1635 m	South East
98753	Domestic	25.00m-30.00m MED HARD BLUE BASALT 30.00m-35.00m HARD BLUE BASALT 35.00m-55.00m MED HARD AND HARD BLUE BASALT			24.38m-55.00m Basalt	08/03/1984	1637 m	East
98405	Observation, State Observation Network	0.00m-1.00m TOP SOIL 1.00m-30.00m CLAY 30.00m-36.00m STONE CLAY 36.00m-38.00m SILTY STONE 38.00m-41.50m STONE CLAY 41.50m-63.00m BASALT 63.00m-74.00m BASALT SOME CLAY CRYSTALLS 74.00m-76.00m BASALT 76.00m-79.00m BROKEN BASALT 79.00m-87.00m BLUE BASALT	0.00m-73.00m INNER LINING - CASING = Pvc 73.00m-79.00m INNER LINING - SCREEN = Pvc 72.00m-87.00m OUTER LINING - GRAVEL = Gravel	Date/time: 2016-05-23 1337 Quality: 43 WLMP: 72.44m DBNS: 72.19m RWL: 212.89 mAHD	73.00m-79.00m Basalt	11/12/1975	1642 m	North East
98555	Not Known					01/01/1970	1645 m	East
WRK048521	Irrigation					31/12/1963	1650 m	East
WRK048585	Domestic, Irrigation, Stock	0.00m-3.00m RED TOP SOIL 3.00m-21.30m RED CLAY 21.30m-33.80m LIGHT BROWN CLAY 33.80m-35.60m CLAY AND COARSE SAND 35.60m-82.30m BLUE MUDSTONE	0.00m-40.20m INNER LINING - CASING = Mild Steel 40.20m-82.30m INNER LINING - SCREEN = Mild Steel		40.20m-82.30m Mudstone	21/07/1983	1658 m	North East
98588	Domestic, Stock	0.00m-38.10m CLAY 38.10m-73.15m BLUESTONE 73.15m-106.68m GRANITE				11/02/1971	1659 m	East
79977	Domestic, Stock	0.00m-3.00m RED TOPSOIL 3.00m-10.00m REDDISH CLAY 10.00m-46.00m YELLOW CLAY 46.00m-60.00m IRONSTONE/SANDSTONE YELLOW CLAY BANDS 60.00m-85.00m FRACTURED IRONSTONE/SANDSTONE 85.00m-86.50m GREY CLAY 86.50m-97.50m FRACTURED IRONSTONE/SANDSTONE	0.00m-60.96m INNER LINING - CASING = Pvc Class 9 55.00m-73.15m INNER LINING - CASING = Pvc Class 12 73.15m-79.24m INNER LINING - SCREEN = Pvc Class 12 79.24m-88.40m INNER LINING - CASING = Pvc Class 12 88.40m-91.44m INNER LINING - SCREEN = Pvc Class 12 91.44m-97.50m INNER LINING - CASING = Pvc Class 12		73.15m-79.24m Ironstone 88.40m-91.44m Clay	29/01/1984	1668 m	South East
WRK964523	Domestic & Stock	0.00m-0.50m TOP SOIL 0.50m-20.00m CLAY WITH GRANITE BOULDERS 20.00m-88.00m HARD GRANITE	0.00m-64.00m INNER LINING - CASING = Pvc 64.00m-86.00m INNER LINING - SLOT = Pvc 86.00m-88.00m INNER LINING - CASING = Pvc 58.00m-58.50m OUTER LINING - GRAVEL = Seal			26/04/2004	1679 m	South West

Bore Id	Use Type	Drillers Log	Construction	Latest Water Levels	Geology	Completed Date	Dist (m)	Dir
79989	Not Known	0.00m-0.30m TOPSOIL 0.30m-3.30m RED CLAY 3.30m-6.40m PINK CLAY 6.40m-24.30m BROWN BASALTIC CLAY 24.30m-33.80m DECOMPOSED BASALT & BASALTIC CLAY 33.80m-48.70m HARD BLUE BASALT WITH SOME FRACTURES	0.00m-34.10m INNER LINING - CASING = Mild Steel 36.50m-48.70m INNER LINING - SCREEN = Mild Steel		36.50m-48.70m	08/12/1988	1687 m	South East
98506	Domestic					31/12/1967	1687 m	East
79967	Irrigation	0.00m-0.50m TOP SOIL 0.50m-32.31m CLAY 32.31m-35.00m MEDIUM HARD BASALT 35.00m-42.67m VERY HARD BASALT 42.67m-48.77m MEDIUM HARD PARTLY DECOMPOSED BASALT 48.77m-67.06m MEDIUM HARD HONEYCOMBED BASALT 67.06m-109.73m SAND STONE AND BLUE SHALE	0.00m-30.00m INNER LINING - CASING = Pvc 30.00m-50.90m INNER LINING - SCREEN = Pvc 50.90m-109.73m INNER LINING - SCREEN = Slotd Mild Stl		30.00m-50.90m Basalt 50.90m-109.73 m Basalt	05/09/1980	1688 m	South East
98592	Domestic	0.00m-48.46m EXISTING BORE 48.46m-59.44m VERY HARD BASALT 59.44m-64.00m MEDIUM HARD SHALE SANDSTONE 64.00m-82.29m HARD SANDSTONE 82.29m-120.00m BASALT	0.00m-120.00m INNER LINING - CASESCRN = Not Known		0.00m-120.00m	30/03/1972	1692 m	North East
98504	Stock					31/12/1970	1716 m	East
WRK048569	Irrigation	0.00m-0.10m TOP SOIL 0.10m-24.30m FIRM MOTTLED RED CLAY 24.30m-25.00m MEDIUM HARD PARTLY DECOMPOSED BASALT 25.00m-56.00m HARD BASALT 56.00m-61.50m MEDIUM HARD GREY MUDSTONE 61.50m-76.00m MEDIUM HARD BLUE SHALE 76.00m-112.50m HARD BLUE SHALE 112.50m-119.00m HARD SANDSTONE	0.00m-25.30m INNER LINING - CASING = Pvc 25.30m-119.00m INNER LINING - SCREEN = Pvc		25.30m-119.00m Sandstone	31/01/1980	1718 m	North East
98814	Domestic, Miscellaneous, Stock	0.00m-1.52m TOPSOIL 1.52m-27.00m CLAY 27.00m-40.00m MUDSTONE 40.00m-139.00m BASALT	0.00m-54.80m INNER LINING - CASING = Mild Steel 67.00m-139.00m INNER LINING - SCREEN = Mild Steel		67.00m-139.00m	17/12/1989	1722 m	North East
79982	Domestic, Stock	0.00m-18.00m RED BASALTIC CLAY WITH BOULDERS 18.00m-22.00m YELLOW SANDY CLAY 22.00m-36.00m GRANITE CONGLOMERATE	0.00m-22.00m INNER LINING - CASING = Mild Steel 22.00m-28.60m INNER LINING - SCREEN = Mild Steel		22.00m-28.60m Granite	18/03/1985	1735 m	South
WRK048484	Not Known	0.00m-0.30m TOP SOIL 0.30m-2.80m RED CLAY 2.80m-28.30m YELLOW BROWN CLAY, BASALTIC 28.30m-67.00m HARD BLUE BASALT 67.00m-76.00m GREY MUDSTONE	0.00m-28.80m INNER LINING - CASING = Mild Steel 0.00m-76.00m INNER LINING - SCREEN = Not Known		0.00m-76.00m	09/12/1988	1754 m	South East
98760	Domestic, Stock	0.00m-1.00m RED TOP SOIL 1.00m-24.00m RED CLAY 24.00m-45.10m BASALTIC CLAY 45.10m-61.50m BLUE BASALT 61.50m-63.30m PARTLY DECOMPOSED RED BASALT 63.30m-89.90m BLUE BASALT 89.90m-134.10m GREY/BLUE SANDSTONE	0.00m-45.30m INNER LINING - CASING = Mild Steel 45.30m-134.10m INNER LINING - SCREEN = Mild Steel		45.30m-134.10m Basalt	22/01/1985	1756 m	North East
79947	Irrigation					31/12/1970	1759 m	South East
WRK048641	Irrigation	0.00m-0.50m SOIL 0.50m-20.00m BASALTIC CLAY 20.00m-32.00m WEATHERED BASALT 32.00m-52.00m FRACTURED BASALT 52.00m-63.00m FRACTURED SANDSTONE 63.00m-117.00m SILTSTONE/SANDSTONE	0.00m-3.00m OUTER LINING - GRAVEL = Cement			08/09/2008	1759 m	South East
WRK048467	Irrigation					01/01/1970	1764 m	South East
98551	Domestic					01/01/1970	1776 m	North East
98498	Domestic					31/12/1963	1779 m	East

Bore Id	Use Type	Drillers Log	Construction	Latest Water Levels	Geology	Completed Date	Dist (m)	Dir
WRK048543	Irrigation	0.00m-1.52m RED SURFACE SOIL 1.52m-27.43m MOTTLED CLAYS 27.43m-32.00m WEATHERED HONEYCOMB BASALT 32.00m-44.20m GREY BASALT 44.20m-57.91m GRANITE 57.91m-60.04m BROWN COAL AND WEATHERED BASALT 60.04m-67.05m COARSE TO MEDIUM SAND	0.00m-32.31m INNER LINING - CASING = Not Known			03/07/1973	1790 m	North East
WRK048591	Irrigation	0.00m-0.30m TOP SOIL 0.30m-30.00m VERY FIRM RED MOTTLED CLAY 30.00m-39.00m FIRM MOTTLED GREY CLAY 39.00m-42.00m MEDIUM HARD CLAYEY DECOMPOSED BASALT (HARD LAYERS) 42.00m-46.00m HARD BLUE BASALT 46.00m-48.00m FIRM GREY MUDSTONE 48.00m-87.00m HARD BLUE SHALE 87.00m-121.00m VERY HARD AS ABOVE	0.00m-48.30m INNER LINING - CASING = Steel 48.30m-121.00m INNER LINING - SCREEN = Steel		48.30m-121.00m Shale	20/02/1984	1795 m	North East
WRK039550	Domestic, Irrigation, Stock					31/12/1966	1797 m	North East
98466	Domestic					31/12/1961	1812 m	North East
98624	Domestic, Stock	0.00m-1.52m TOP SOIL 1.52m-9.18m RED SOIL (CLAY) 9.18m-24.42m MOTTLED CLAY 24.42m-28.73m DECOMPOSED BASALT 28.73m-43.10m BASALT 43.10m-85.34m GREY ROCK	0.00m-33.52m INNER LINING - CASING = Mild Steel 45.72m-76.20m INNER LINING - SCREEN = Mild Steel		45.72m-76.20m	01/12/1974	1813 m	East
98720	Irrigation	0.00m-0.50m TOP SOIL 0.50m-3.00m RED CLAY 3.00m-10.00m BROWN CLAY (SOFT) 10.00m-27.00m AS ABOVE WITH BOULDERS 27.00m-29.00m DECOMPOSED BASALT 29.00m-33.00m VERY HARD BASALT 33.00m-43.00m MEDIUM HARD BASALT	0.00m-30.00m INNER LINING - CASING = Steel 30.00m-43.00m INNER LINING - SCREEN = Steel		30.00m-43.00m Basalt	10/06/1982	1821 m	East
WRK990683	Domestic & Stock	0.00m-1.00m soil 1.00m-5.00m clay 5.00m-30.00m mudstone 30.00m-63.00m grey mudstone 63.00m-105.00m sandstone 105.00m-114.00m grey sandstone 114.00m-135.00m sandstone & quartz	0.00m-105.00m INNER LINING - CASING = Pvc 105.00m-135.00m INNER LINING - SLOT = Pvc Class 12 0.00m-5.00m OUTER LINING - GRAVEL = Cement		0.00m-105.00m Mudstone 105.00m-135.00m Sandstone	16/12/2009	1827 m	South
WRK964384	Domestic & Stock	0.00m-3.00m SOIL & CLAY HIGHLY WEATHERED 3.00m-29.00m BASALT 29.00m-40.00m GREY - WHITE CLAY 40.00m-45.00m WHITE SANDSTONE 45.00m-75.40m GREY SANDSTONE	0.00m-20.00m INNER LINING - CASING = Pvc 0.00m-18.00m OUTER LINING - GRAVEL = Cement 18.00m-45.00m OUTER LINING - GRAVEL = Seal 45.00m-57.00m OUTER LINING - GRAVEL = Seal			27/01/2005	1831 m	East
WRK048446	Irrigation	0.00m-1.50m TOP SOIL 1.50m-5.00m RED CLAY 5.00m-38.00m MOTTLED CLAY 38.00m-43.00m SLATE 43.00m-109.00m BASALT	0.00m-38.00m INNER LINING - CASING = Steel 38.00m-50.00m INNER LINING - SCREEN = Steel 50.00m-109.00m INNER LINING - SCREEN = Slotted Steel			09/10/1997	1837 m	North East
WRK089445	Domestic & Stock	0.00m-14.00m RED CLAY 14.00m-42.00m BROWN CLAY 42.00m-58.00m BASALT 58.00m-61.00m WEATHERED SILTSTONE 61.00m-120.00m GREY SILTSTONE	0.00m-108.00m INNER LINING - CASING = Pvc 108.00m-114.00m INNER LINING - SCREEN = Pvc 114.00m-120.00m INNER LINING - CASING = Pvc 0.00m-58.00m OUTER LINING - GRAVEL = Cement 58.00m-60.00m OUTER LINING - GRAVEL = Bentonite 60.00m-62.00m OUTER LINING - GRAVEL = Seal		108.00m-114.00m Siltstone	08/10/2015	1839 m	East
WRK983675							1839 m	North East



Bore Id	Use Type	Drillers Log	Construction	Latest Water Levels	Geology	Completed Date	Dist (m)	Dir
98400	Groundwater Investigation	0.00m-1.00m TOP SOIL 1.00m-39.00m CLAY 39.00m-44.00m BROKEN BASALT 44.00m-50.00m BLUE BASALT 50.00m-53.00m HARD BLUE BASALT 53.00m-59.00m BROKEN BASALT 59.00m-63.00m BLUE BASALT 63.00m-69.00m GREY STONE 69.00m-71.50m SAND AND PEBBLES 71.50m-72.50m SAND AND GREY CLAY 72.50m-76.00m HARD STONE POSSIBLE BEDROCK 76.00m-76.50m MUDSTONE CLAY	0.00m-39.00m INNER LINING - CASING = Mild Steel 39.00m-61.00m INNER LINING - SCREEN = Mild Steel		39.00m-61.00m Basalt	29/08/1975	1849 m	North East
WRK048544	Irrigation						1849 m	East
WRK048536	Irrigation	0.00m-2.44m SURFACE SOIL 2.44m-36.58m YELLOW WHITE CLAY 36.58m-73.15m BASALT WITH BANDS OF WEATHERED BASALT THROUGHOUT	0.00m-39.62m INNER LINING - CASING = Not Known 12.19m-73.15m INNER LINING - SCREEN = Not Known		12.19m-73.15m	27/02/1973	1859 m	North East
98500	Domestic					31/12/1970	1861 m	East
WRK048606	Irrigation	0.00m-1.00m TOP SOIL 1.00m-22.50m YELLOW CLAY 22.50m-38.00m WEATHERED MUDSTONE (BANDS CLAY) 38.00m-61.00m BLUE MUDSTONE 61.00m-94.50m HARD BLUE MUDSTONE WITH SOME FRACTURES	0.00m-38.00m INNER LINING - CASING = Steel 54.86m-56.38m INNER LINING - SCREEN = Steel 56.38m-94.50m INNER LINING - SCREEN = Slotted Steel		54.86m-56.38m Mudstone 56.38m-94.50m Mudstone	12/10/1993	1876 m	North
WRK048568	Irrigation	0.00m-18.29m MOTTLED CLAY 18.29m-71.62m BASALT	0.00m-24.38m INNER LINING - CASING = Pvc 24.38m-71.62m INNER LINING - SCREEN = Pvc		24.38m-71.62m Basalt	01/02/1980	1879 m	North
WRK048581	Irrigation	0.00m-0.61m TOP SOIL 0.61m-28.60m RED CLAY 28.60m-29.80m BROKEN ROCK 29.80m-46.00m BASALT 46.00m-50.20m BROKEN BASALT 50.20m-65.50m GREY MUDSTONE 65.50m-117.00m GREY/BLUE MUDSTONE	0.00m-32.30m INNER LINING - CASING = Mild Steel 32.30m-117.00m INNER LINING - SCREEN = Mild Steel		32.30m-117.00m Mudstone	14/01/1983	1883 m	East
98571	Domestic					01/01/1970	1899 m	North East
WRK048469	Domestic, Irrigation, Stock					01/01/1970	1899 m	South East
330576	Non Groundwater					31/12/1928	1906 m	North
330577	Non Groundwater					31/12/1928	1906 m	North
330578	Non Groundwater					31/12/1928	1906 m	North
330579	Non Groundwater					31/12/1928	1906 m	North
330580	Non Groundwater					31/12/1928	1906 m	North
330581	Non Groundwater					31/12/1928	1906 m	North
330582	Non Groundwater					31/12/1928	1906 m	North
330583	Domestic, Irrigation, Stock					31/12/1928	1906 m	North
330584	Non Groundwater					31/12/1928	1906 m	North
330585	Non Groundwater					31/12/1928	1906 m	North
330586	Non Groundwater					31/12/1928	1906 m	North
330587	Non Groundwater					31/12/1928	1906 m	North
330588	Non Groundwater					31/12/1928	1906 m	North
330589	Non Groundwater					31/12/1928	1906 m	North
330590	Non Groundwater					31/12/1928	1906 m	North

Bore Id	Use Type	Drillers Log	Construction	Latest Water Levels	Geology	Completed Date	Dist (m)	Dir
330591	Non Groundwater					31/12/1928	1906 m	North
330592	Non Groundwater					31/12/1928	1906 m	North
330593	Non Groundwater					31/12/1928	1906 m	North
330594	Non Groundwater					31/12/1928	1906 m	North
98410	Observation, State Observation Network	0.00m-1.00m TOP SOIL 1.00m-18.00m WEATHERED BASALT CLAY	0.00m-49.00m INNER LINING - CASING = Pvc 49.00m-61.00m INNER LINING - SCREEN = Pvc 61.00m-67.00m INNER LINING - CASING = Pvc 46.00m-67.00m OUTER LINING - GRAVEL = Gravel	Date/time: 2016-05-23 1231 Quality: 43 WLMP: 19.71m DBNS: 19.08m RWL: 210.65 mAHd	49.00m-61.00m Mudstone	12/02/1977	1913 m	North
98399	Observation, State Observation Network		0.00m-68.00m INNER LINING - CASING = Pvc 68.00m-74.00m INNER LINING - SCREEN = Pvc 0.00m-1.00m OUTER LINING - GRAVEL = Cement 53.00m-56.00m OUTER LINING - GRAVEL = Cement 56.00m-74.00m OUTER LINING - GRAVEL = Gravel	Date/time: 2016-05-23 1027 Quality: 43 WLMP: 28.36m DBNS: 27.46m RWL: 219.83 mAHd	68.00m-74.00m Basalt	09/07/1975	1915 m	North East
79993	Domestic					01/01/1988	1917 m	South East
98397	Observation, State Observation Network	0.00m-1.00m TOP SOIL 1.00m-16.00m CLAY 16.00m-21.00m CLAY HARD BARS 21.00m-29.00m BASALT BOULDERS AND CLAY 29.00m-33.00m BASALT 33.00m-38.00m BROKEN BASALT 38.00m-48.00m BASALT 48.00m-49.00m BROKEN BASALT 49.00m-55.00m BEDROCK ?? VERY HARD	0.00m-55.00m INNER LINING - CASING = Pvc 0.00m-1.00m OUTER LINING - GRAVEL = Cement	Date/time: 2023-05-03 0930 Quality: 43 WLMP: 17.57m DBNS: 16.59m RWL: 231.72 mAHd		15/12/1974	1927 m	East
WRK052102	Irrigation	0.00m-1.00m TOP SOIL 1.00m-6.00m RED STIFF CLAY 6.00m-9.00m BROWN CLAY 9.00m-15.00m TAN CLAY 15.00m-17.00m BOULDERS & BASALT 17.00m-39.00m HARD BLUE BASALT 39.00m-51.00m HARD BLUE MUDSTONE 51.00m-66.00m HARD BLUE M/S & SANDSTONE LAYERS	0.00m-17.00m INNER LINING - CASING = Steel 17.00m-42.00m INNER LINING - CASING = Pvc		0.00m-17.00m Clay 42.00m-66.00m Sandstone	24/06/2009	1935 m	South East
WRK052104	Irrigation	0.00m-1.00m TOP SOIL 1.00m-6.00m RED STIFF CLAY 6.00m-9.00m BROWN CLAY 9.00m-15.00m TAN CLAY 15.00m-17.00m BOULDERS BASALT 17.00m-39.00m HARD BLUE BASALT 39.00m-51.00m HARD BLUE M/S 51.00m-66.00m HARD BLUE M/S & SANDSTONE LAYERS	0.00m-17.00m INNER LINING - CASING = Stainless Steel 17.00m-42.00m INNER LINING - CASING = Pvc 42.00m-66.00m INNER LINING - SLOT = Steel			24/10/2009	1939 m	South East
WRK989563							1939 m	South East
WRK084606	Investigation Only	0.00m-0.20m Top soil 0.20m-24.00m Red clay 24.00m-30.00m C/W Siltstone 30.00m-115.00m Gers siltstone	0.00m-97.00m INNER LINING - CASING = Pvc 97.00m-109.00m INNER LINING - SCREEN = Pvc 109.00m-115.00m INNER LINING - CASING = Pvc 0.00m-33.00m OUTER LINING - GRAVEL = Cement 33.00m-36.00m OUTER LINING - GRAVEL = Bentonite 36.00m-38.00m OUTER LINING - GRAVEL = Seal			15/04/2015	1943 m	South
WRK032022	Domestic, Stock	0.00m-0.30m TOP SOIL 0.30m-1.52m CLAY 1.52m-3.00m FIRM CLAY 3.00m-6.20m ORANGE MUDSTONE 6.20m-20.00m YELLOW MUDSTONE BROKEN 20.00m-30.00m BLUE MUDSTONE	-0.30m-4.22m INNER LINING - CASING = Steel -0.30m-14.63m INNER LINING - CASING = Pvc 4.22m-30.00m INNER LINING - SCREEN = Steel		4.22m-30.00m Mudstone	02/03/1993	1946 m	South

Bore Id	Use Type	Drillers Log	Construction	Latest Water Levels	Geology	Completed Date	Dist (m)	Dir
98495	Domestic					31/12/1965	1950 m	East
WRK048505	Domestic, Irrigation, Stock					31/12/1964	1950 m	East
98826	Domestic & Stock, Irrigation	0.00m-2.44m TOP SOIL 2.44m-14.00m RED SOIL 14.00m-39.50m MOTTLED CLAY 39.50m-110.00m BASALT 110.00m-145.00m BASALT	-0.20m-40.60m INNER LINING - CASING = Mild Steel 40.00m-110.00m INNER LINING - SCREEN = Mild Steel 110.00m-145.00m INNER LINING - SCREEN = Not Known		40.00m-110.00m	18/11/1992	1959 m	North East
WRK048459	Irrigation	0.00m-2.00m SOIL 2.00m-42.00m MOTTLED CLAY 42.00m-93.00m BASALT	0.00m-46.00m INNER LINING - CASING = Steel 46.00m-93.00m INNER LINING - SCREEN = Steel 0.00m-2.00m OUTER LINING - GRAVEL = Cement			14/02/2000	1971 m	North East
115249	Irrigation	0.00m-0.30m TOP SOIL 0.30m-9.10m RED CLAY 9.10m-15.70m ORANGE CLAY 15.70m-17.30m YELLOW CLAY 17.30m-33.50m ORANGE/YELLOW MUDSTONE 33.50m-98.40m GREY MUDSTONE	-0.30m-17.90m INNER LINING - CASING = Steel 17.90m-98.40m INNER LINING - SCREEN = Steel			05/04/1993	1972 m	South East
WRK081529	Observation	0.00m-19.50m CLAY 19.50m-24.00m BASALT 24.00m-100.00m SILTSTONE	13.00m-23.00m OUTER LINING - GRAVEL = Cement 23.00m-25.00m OUTER LINING - GRAVEL = Bentonite 25.00m-26.00m OUTER LINING - GRAVEL = Seal			25/10/2014	1973 m	East
WRK048512	Irrigation					31/12/1970	1977 m	East
WRK039554	Irrigation						1982 m	East
98629	Domestic, Stock	0.00m-0.30m TOP SOIL 0.30m-15.50m FIRM MOTTLED RED CLAY 15.50m-24.50m FIRM MOTTLED BROWN CLAY 24.50m-27.50m MEDIUM HARD PARTLY DECOMPOSED BASALT 27.50m-30.50m MEDIUM HARD BASALT 30.50m-67.00m VERY HARD BASALT 67.00m-70.00m MEDIUM HARD BASALT 70.00m-74.00m MEDIUM HARD SANDSTONE 74.00m-79.00m HARD SANDSTONE	0.00m-25.50m INNER LINING - CASING = Steel 22.00m-25.50m INNER LINING - SCREEN = Steel		22.00m-25.50m	17/06/1975	1988 m	East
WRK032012	Irrigation	0.00m-0.30m TOP SOIL 0.30m-1.50m CLAY 1.50m-15.00m YELLOW/ORANGE MUDSTONE 15.00m-30.00m GREY/YELLOW MUDSTONE 30.00m-61.00m GREY/BLUE MUDSTONE	-0.30m-2.44m INNER LINING - CASING = Steel -0.30m-30.50m INNER LINING - CASING = Pvc 30.50m-61.00m INNER LINING - SCREEN = Steel			22/03/1993	1988 m	South
WRK983190	Domestic & Stock	0.00m-1.50m TOP SOIL 1.50m-36.00m CLAY 36.00m-56.00m SANDSTONE 56.00m-75.00m BASALT 75.00m-90.00m BASALT 90.00m-128.00m BASALT			72.00m-128.00m Basalt	24/04/2008	1994 m	North East
98816	Domestic, Stock	0.00m-2.00m TOPSOIL 2.00m-27.40m MOTTLED CLAY 27.40m-119.00m BASALT	0.00m-66.00m INNER LINING - CASING = Not Known 66.00m-78.00m INNER LINING - SCREEN = Not Known		66.00m-78.00m Basalt	07/11/1989	1996 m	North
WRK048480	Domestic, Irrigation, Stock	0.00m-0.10m TOP SOIL 0.10m-17.30m FIRM RED CLAY 17.30m-25.50m FIRM BASALTIC CLAY AND BOULDERS 25.50m-28.00m CLAYEY GRAVEL AND LOOSE SAND 28.00m-40.50m HARD BASALT 40.50m-42.00m PARTLY DECOMPOSED BASALT AND PEAT ON TO SALT 42.00m-42.70m SILURIAN CLAY	0.00m-25.00m INNER LINING - CASING = Pvc 25.00m-37.00m INNER LINING - SCREEN = Pvc 37.00m-38.00m INNER LINING - CASING = Pvc		25.00m-37.00m Basalt	11/11/1980	1998 m	South East

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

Silvan Reservoir, Monbulk Rd, Monbulk, VIC 3793

## 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
98393		Department of Manufacturing & Industry Development	Groundwater Observation	Percussion (cable)		02/08/1974	78.00		100	5m	North East
98395		Department of Manufacturing & Industry Development	Groundwater Observation	Percussion (cable)		22/10/1974	83.00	275.07	100	5m	South East
98620		Private Individual/Corporation	Irrigation	Air Percussion/Air Rotary		31/01/1985	94.49		100	8m	East
98394		Department of Manufacturing & Industry Development	Groundwater Observation	Percussion (cable)		07/09/1974	87.00	278.47	100	10m	North East
79928		Department of Manufacturing & Industry Development	Groundwater Observation	Percussion (cable)		25/02/1975	58.00	243.96	100	41m	South
98509		Private Individual/Corporation	Domestic water supply	Shaft/Well		31/12/1970	24.38		100	61m	North East
98527		Private Individual/Corporation	Domestic water supply			31/12/1970	79.25		100	76m	North East
98766		Private Individual/Corporation	Irrigation	Air Percussion/Air Rotary		14/01/1985	95.00		100	111m	East
98780		Private Individual/Corporation	Irrigation	Air Percussion/Air Rotary		14/12/1985	122.00		100	150m	North East
98593		Private Individual/Corporation	Irrigation	Air Percussion/Air Rotary		07/02/1985	125.00		100	202m	North East
98531		Private Individual/Corporation	Domestic water supply			31/12/1970	128.02		100	302m	North
98408		Department of Manufacturing & Industry Development	Groundwater Observation	Percussion (cable)		15/11/1976	87.00	279.99	100	328m	North
98502		Private Individual/Corporation	Irrigation			31/12/1970			100	349m	South East
98672		Private Individual/Corporation	Irrigation	Air Percussion/Air Rotary		08/03/1985	143.50		100	349m	North East
98765		Private Individual/Corporation	Irrigation	Air Percussion/Air Rotary		04/04/1985	81.00		100	398m	East
98725		Private Individual/Corporation	Irrigation	Air Percussion/Air Rotary		29/10/1982	33.50		100	402m	East
98492		Private Individual/Corporation	Domestic water supply			31/12/1970	50.29		100	406m	South East
98492		Private Individual/Corporation	Irrigation			31/12/1970	50.29		100	406m	South East

Bore Id	Bore Type	Company	Usage	Method	Status	Drill Date	Depth	Elevation	Accuracy (m)	Dist (m)	Dir
98511		Private Individual/Corporation	Domestic water supply			31/12/1964	68.58		100	413m	North East
98511		Private Individual/Corporation	Irrigation			31/12/1964	68.58		100	413m	North East
98396		Department of Manufacturing & Industry Development	Groundwater Observation	Percussion (cable)		20/11/1974	56.00	252.79	100	430m	East
98637		Private Individual/Corporation	Irrigation	Air Percussion/Air Rotary		16/03/1976	70.00		100	466m	South East
98526		Private Individual/Corporation	Irrigation			31/12/1953	32.00		100	478m	North East
98526		Private Individual/Corporation	Domestic water supply			31/12/1953	32.00		100	478m	North East
330595		Private Individual/Corporation	Irrigation			31/12/1967	91.44		100	494m	North East
98463		Private Individual/Corporation	Irrigation	Percussion (cable)		31/12/1960	33.53		100	497m	North East
98465		Private Individual/Corporation	Irrigation			31/12/1968			100	498m	North
98464		Private Individual/Corporation	Irrigation	Percussion (cable)		31/12/1970	30.49		100	506m	North East
98501		Private Individual/Corporation	Domestic water supply			31/12/1968	64.01		100	551m	South East
98512		Private Individual/Corporation	Domestic water supply			31/12/1967	56.39		100	567m	North East
98512		Private Individual/Corporation	Irrigation			31/12/1967	56.39		100	567m	North East
98719		Private Individual/Corporation	Irrigation	Air Percussion/Air Rotary		31/03/1982	122.00		100	577m	North East
98735		Private Individual/Corporation	Irrigation	Air Percussion/Air Rotary		05/03/1983	138.00		100	598m	North East
79930		Department of Manufacturing & Industry Development	Groundwater Observation	Percussion (cable)		28/02/1977	31.00	228.05	100	600m	North West
79931		Department of Manufacturing & Industry Development		Percussion (cable)		31/03/1977	51.60	230.10	100	601m	North West
98724		Private Individual/Corporation	Irrigation	Air Percussion/Air Rotary		02/03/1983	70.00		100	608m	South East
98580		Private Individual/Corporation	Domestic water supply	Air Percussion/Air Rotary		12/02/1971	42.67		100	647m	East
98580		Private Individual/Corporation	Irrigation	Air Percussion/Air Rotary		12/02/1971	42.67		100	647m	East
79979		Private Individual/Corporation	Fire fighting/Sports/general	Air Percussion/Air Rotary		21/02/1985	33.50		100	682m	South East
79979		Private Individual/Corporation	Domestic & Stock water supply	Air Percussion/Air Rotary		21/02/1985	33.50		100	682m	South East
98467		Private Individual/Corporation	Domestic water supply	Shaft/Well		31/12/1970	12.19		100	691m	North

Bore Id	Bore Type	Company	Usage	Method	Status	Drill Date	Depth	Elevation	Accuracy (m)	Dist (m)	Dir
98731		Private Individual/Corporation	Domestic water supply	Air Percussion/Air Rotary		21/04/1983	113.00		100	698m	North East
79981		Private Individual/Corporation	Domestic water supply	Rotary (diamond/drag bit)		28/10/1985	85.00		100	721m	South
98490		Private Individual/Corporation	Irrigation			31/12/1970	121.92		100	746m	North East
98468		Private Individual/Corporation	Domestic water supply			31/12/1967	60.96		100	782m	North East
79929		Department of Manufacturing & Industry Development	Groundwater Observation	Percussion (cable)		12/05/1977	64.00	244.92	100	809m	South East
98778		Private Individual/Corporation	Domestic & Stock water supply	Rotary (diamond/drag bit)		07/01/1986	61.00		100	875m	North East
98462		Private Individual/Corporation	Irrigation	Air Percussion/Air Rotary		31/12/1970	85.34		100	916m	North East
79975		Private Individual/Corporation	Domestic water supply	Air Percussion/Air Rotary		24/01/1983	106.00		100	945m	South West
98522		Private Individual/Corporation	Domestic water supply			31/12/1970	91.44		100	1025 m	North East
98522		Private Individual/Corporation	Irrigation			31/12/1970	91.44		100	1025 m	North East
98768		Private Individual/Corporation	Domestic water supply	Air Percussion/Air Rotary		20/09/1985	99.00		100	1033 m	East
98768		Private Individual/Corporation	Irrigation	Air Percussion/Air Rotary		20/09/1985	99.00		100	1033 m	East
98737		Private Individual/Corporation	Irrigation	Air Percussion/Air Rotary		19/09/1983	67.06		100	1045 m	East
98773		Private Individual/Corporation	Irrigation	Air Percussion/Air Rotary		14/02/1985	136.00		100	1086 m	North East
98774		Private Individual/Corporation		Air Percussion/Air Rotary	Abandoned	05/02/1985	100.00		100	1086 m	North East
98407		Department of Manufacturing & Industry Development	Groundwater Investigation	Percussion (cable)		29/03/1976	76.00	258.48	100	1090 m	North East
98407		Department of Manufacturing & Industry Development	Groundwater Observation	Percussion (cable)		29/03/1976	76.00	258.48	100	1090 m	North East
98533		Private Individual/Corporation	Domestic water supply	Shaft/Well		31/12/1970	5.00		100	1096 m	East
98533		Private Individual/Corporation	Irrigation	Shaft/Well		31/12/1970	5.00		100	1096 m	East
98488		Private Individual/Corporation	Irrigation			31/12/1970	78.03		100	1155 m	North East
98782		Private Individual/Corporation	Irrigation	Air Percussion/Air Rotary		13/02/1986	129.50		100	1176 m	North East
98469		Private Individual/Corporation	Irrigation	Air Percussion/Air Rotary		31/12/1968	85.34		100	1188 m	North
98491		Private Individual/Corporation	Domestic water supply			31/12/1955	42.67		100	1217 m	North East

Bore Id	Bore Type	Company	Usage	Method	Status	Drill Date	Depth	Elevation	Accuracy (m)	Dist (m)	Dir
98489		Private Individual/Corporation	Domestic water supply			31/12/1970	128.02		100	1219 m	East
98489		Private Individual/Corporation	Irrigation			31/12/1970	128.02		100	1219 m	East
98761		Private Individual/Corporation	Irrigation	Air Percussion/Air Rotary		01/12/1982	122.00		100	1336 m	North East
98771		Private Individual/Corporation	Domestic water supply	Rotary (diamond/drag bit)		26/04/1985	80.00		100	1348 m	East
98497		Private Individual/Corporation	Domestic water supply			31/12/1956			100	1408 m	East
79984		Private Individual/Corporation	Irrigation	Air Percussion/Air Rotary		30/04/1984	137.00		100	1428 m	South East
98401		Department of Manufacturing & Industry Development	Groundwater Observation	Percussion (cable)		15/09/1975	46.00	182.31	100	1453 m	East
98717		Private Individual/Corporation	Irrigation	Air Percussion/Air Rotary		01/12/1980	107.00		100	1464 m	North East
98471		Private Individual/Corporation	Domestic water supply			31/12/1970			100	1475 m	North East
98505		Private Individual/Corporation	Irrigation			31/12/1962	60.96		100	1532 m	East
98757		Private Individual/Corporation	Irrigation	Air Percussion/Air Rotary		25/08/1984	126.50		100	1574 m	North East
98733		Private Individual/Corporation	Irrigation	Air Percussion/Air Rotary		21/07/1983	82.30		100	1624 m	North East
98504		Private Individual/Corporation	Irrigation			31/12/1970			100	1634 m	East
98753		Private Individual/Corporation	Domestic water supply	Air Percussion/Air Rotary		08/03/1984	55.00		100	1636 m	East
98405		Department of Manufacturing & Industry Development	Groundwater Observation	Percussion (cable)		11/12/1975	87.00	285.08	100	1652 m	North East
98508		Private Individual/Corporation	Domestic water supply			31/12/1965	35.05		100	1662 m	East
79977		Private Individual/Corporation	Domestic & Stock water supply	Air Percussion/Air Rotary		29/01/1984	97.50		100	1666 m	South East
98592		Private Individual/Corporation	Domestic water supply	Air Percussion/Air Rotary		11/03/1985	120.00		100	1668 m	North East
98506		Private Individual/Corporation	Domestic water supply			31/12/1967	39.62		100	1732 m	East
79982		Private Individual/Corporation	Domestic & Stock water supply	Air Percussion/Air Rotary		18/03/1985	36.00		100	1736 m	South
98760		Private Individual/Corporation	Domestic & Stock water supply	Air Percussion/Air Rotary		22/01/1985	134.10		100	1755 m	North East
98496		Private Individual/Corporation	Domestic water supply			31/12/1969	103.63		100	1779 m	East
98496		Private Individual/Corporation	Irrigation			31/12/1969	103.63		100	1779 m	East
98723		Private Individual/Corporation	Irrigation	Air Percussion/Air Rotary		14/01/1983	117.00		100	1782 m	East

Bore Id	Bore Type	Company	Usage	Method	Status	Drill Date	Depth	Elevation	Accuracy (m)	Dist (m)	Dir
79965		Private Individual/Corporation	Irrigation	Air Percussion/Air Rotary		14/11/1978	82.30		100	1794 m	South East
98466		Private Individual/Corporation	Domestic water supply			31/12/1961	35.97		100	1795 m	North East
98745		Private Individual/Corporation	Irrigation	Rotary (diamond/drag bit)		20/02/1984	121.00		100	1798 m	North East
98498		Private Individual/Corporation	Domestic water supply			31/12/1963	70.10		100	1800 m	East
98667		Private Individual/Corporation	Irrigation	Rotary (diamond/drag bit)		25/10/1982	79.50		100	1819 m	East
98494		Private Individual/Corporation	Irrigation			31/12/1966	92.96		100	1830 m	North East
98399		Department of Manufacturing & Industry Development	Groundwater Observation	Percussion (cable)		09/07/1975	74.00	247.29	100	1848 m	North East
98775		Private Individual/Corporation	Irrigation	Air Percussion/Air Rotary		13/11/1985	61.00		100	1871 m	North
98720		Private Individual/Corporation	Domestic & Stock water supply	Air Percussion/Air Rotary		10/06/1982	43.00		100	1897 m	East
98397		Department of Manufacturing & Industry Development	Groundwater Observation	Percussion (cable)		15/12/1974	55.00	248.26	100	1898 m	East
98500		Private Individual/Corporation	Domestic water supply			31/12/1970	29.57		100	1907 m	East
98579		Private Individual/Corporation	Domestic & Stock water supply	Percussion (cable)		12/01/1971	66.45		300	1907 m	North
98712		Private Individual/Corporation	Domestic water supply	Air Percussion/Air Rotary		01/02/1980	100.00		300	1907 m	North
98759		Private Individual/Corporation	Irrigation	Air Percussion/Air Rotary		01/03/1985	76.20		100	1914 m	North
79955		Private Individual/Corporation	Irrigation	Rotary (diamond/drag bit)		03/11/1976	102.72		100	1915 m	South East
98410		Department of Manufacturing & Industry Development	Groundwater Observation	Percussion (cable)		12/02/1977	70.00	229.73	100	1930 m	North
98499		Private Individual/Corporation	Domestic water supply			31/12/1964	64.01		100	1942 m	East
98499		Private Individual/Corporation	Irrigation			31/12/1964	64.01		100	1942 m	East
98495		Private Individual/Corporation	Domestic water supply			31/12/1965	28.96		100	1948 m	East
98718		Private Individual/Corporation	Irrigation	Air Percussion/Air Rotary		06/03/1981	66.00		100	1962 m	East

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
N/A	No records in buffer						

Boreholes FedUni Data Source: © Federation University Australia

## Historical Mining Activity - Shafts

Silvan Reservoir, Monbulk Rd, Monbulk, VIC 3793

### 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:

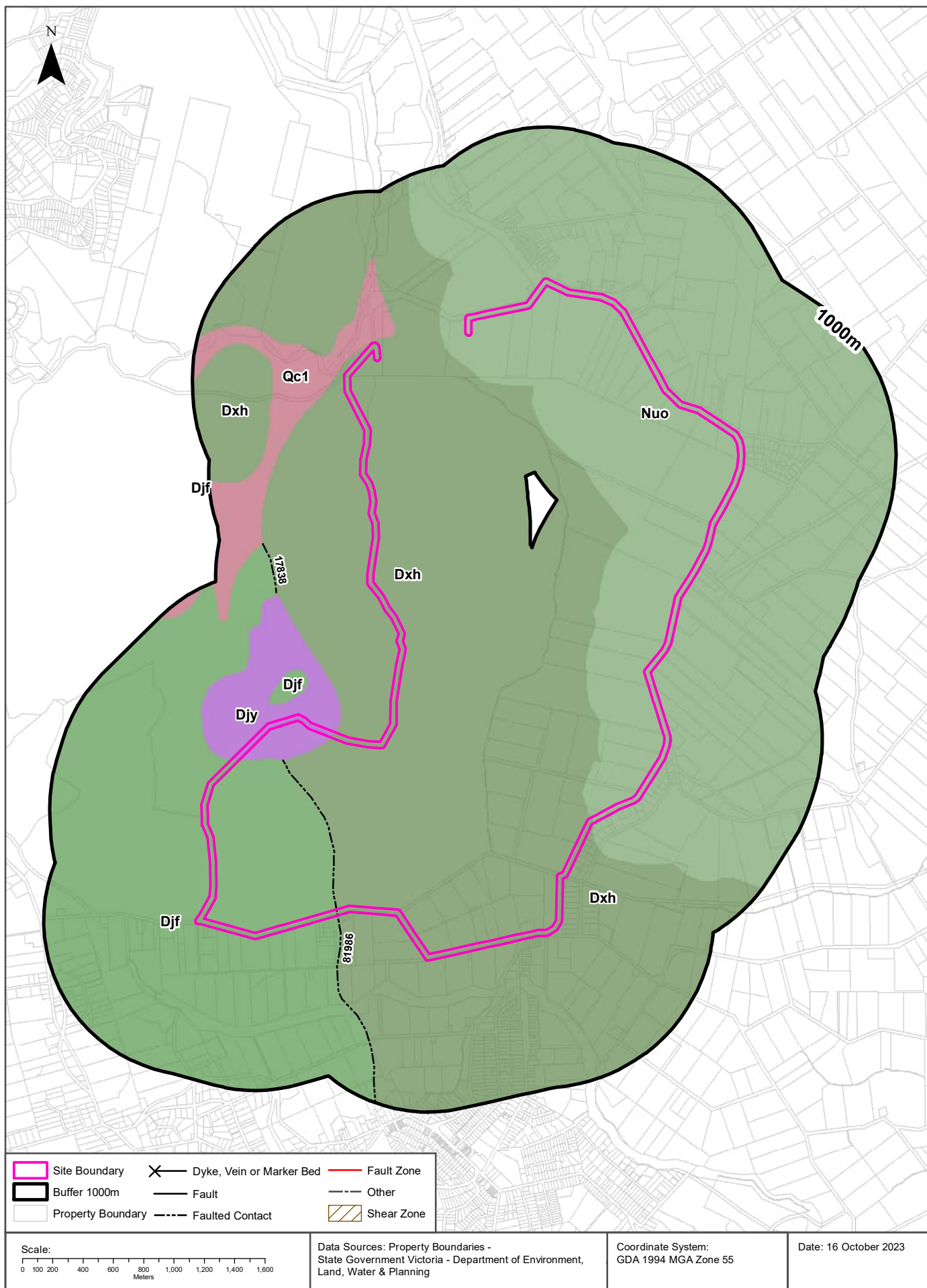
Map Id	Name	Source	Depth (m)	Collar (ft)	Fill/Cap Method	Location Desc	Location Accuracy	Distance	Direction
N/A	No records in buffer								

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

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# Geology

Silvan Reservoir, Monbulk Rd, Monbulk, VIC 3793



## Geology

Silvan Reservoir, Monbulk Rd, Monbulk, VIC 3793

### Geological Units 1:50,000

What are the Geological Units within the dataset buffer?

Symbol	Name	Description	Geological Age	Lithology	Distance	Direction
Nuo	Monbulk Volcanic Group (Nuo): generic	Basaltic lava flows: basanite, olivine tholeiite, hawaiiite	Miocene to Miocene	tholeiitic basalt (significant); basanite (significant); hawaiiite (significant)	0m	On-site
Dxh	Humevale Siltstone (Dxh): hornfels	hornfels	Llandovery to Early Devonian; Late Devonian to Late Devonian	hornfels (all)	0m	On-site
Djf	Ferny Creek Rhyodacite( Djf): generic	Biotite-hypersthene rhyodacite ignimbrite: recrystallized; chilled glassy base shows traces of eutaxitic foliation parallel to the sediment band below; becomes increasingly crystalline and phenocryst-rich upwards.	Late Devonian to Late Devonian	rhyodacite (all)	0m	On-site
Dxh	Humevale Siltstone (Dxh): generic	Siltstone: brown, laminated; minor very fine- to fine-grained sandstone laminae and thin beds towards the top of the formation; distal shelf and hemipelagic deposits.	Llandovery to Early Devonian	siltstone (major proportion); sandstone (minor proportion)	0m	On-site
Djy	Yellingbo Porphyry (Djy): Generic	Quartz-feldspar porphyry: mid- to dark grey; large quartz and smaller feldspar phenocrysts, minor biotite in fine-grained groundmass	Late Devonian to Late Devonian	granodiorite (all)	0m	On-site
Qc1	colluvium( Qc1): generic	Diamictite, gravel, sand, silt, clay, rubble: sorting variable, usually poor; generally poorly rounded; clasts locally sourced; includes channel deposits with better rounding and sorting	Pliocene to Holocene	diamictite (dominant); gravel material (significant); sand (significant); silt material (significant)	9m	North West

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

Silvan Reservoir, Monbulk Rd, Monbulk, VIC 3793

### 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
81986	faulted contact	Evelyn fault	sharp	indefinite	0m	On-site
17838	faulted contact	Evelyn fault	sharp	indefinite	604m	North West

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

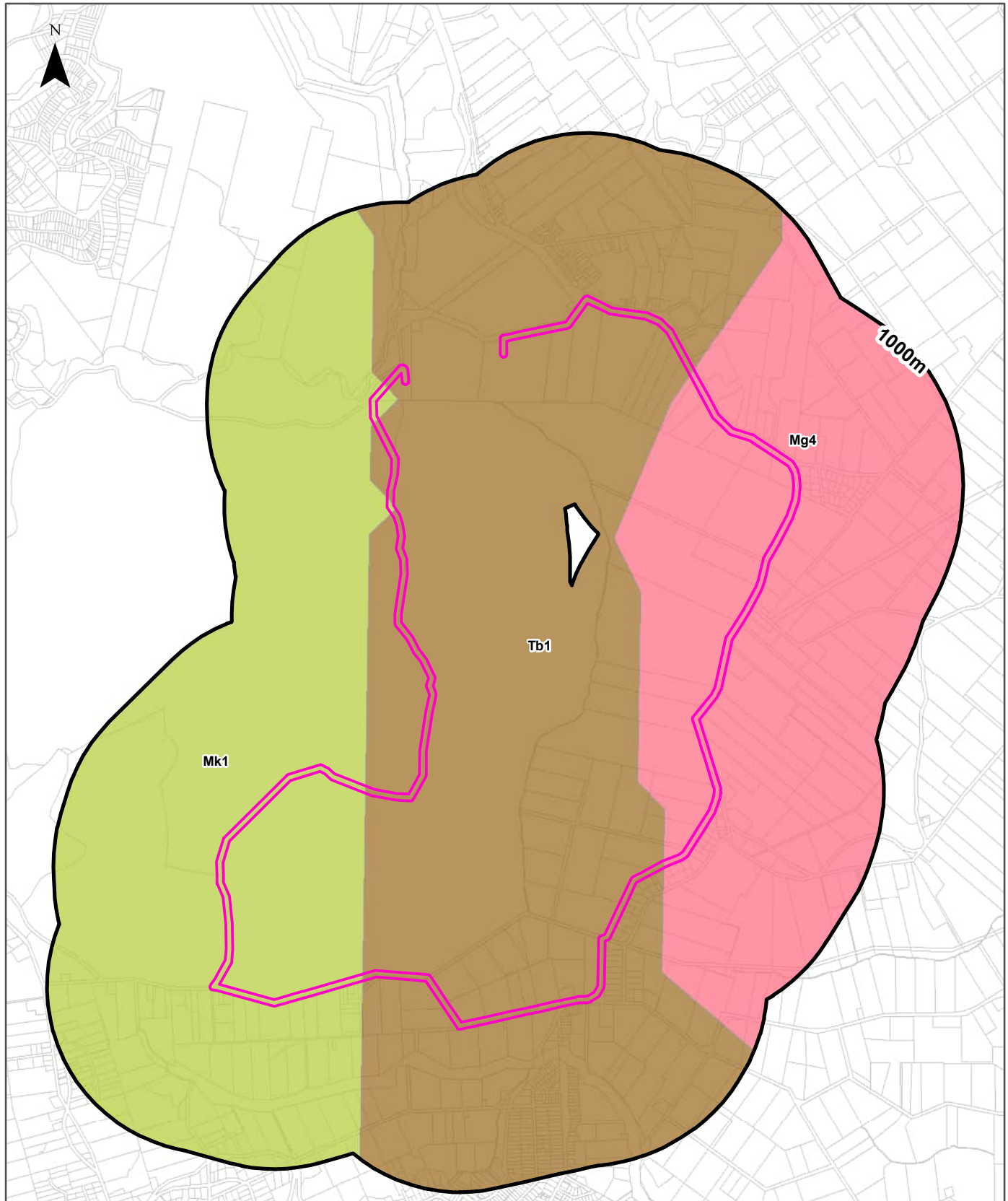
What are the Shear Zones within the dataset buffer?

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

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# Atlas of Australian Soils

Silvan Reservoir, Monbulk Rd, Monbulk, VIC 3793



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		

<p>Scale:</p>	<p>Data Sources: Property Boundaries - State Government Victoria - Department of Environment, Land, Water &amp; Planning</p>	<p>Coordinate System: GDA 1994 MGA Zone 55</p>	<p>Date: 16 October 2023</p>
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## Soils

Silvan Reservoir, Monbulk Rd, Monbulk, VIC 3793

### Atlas of Australian Soils

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

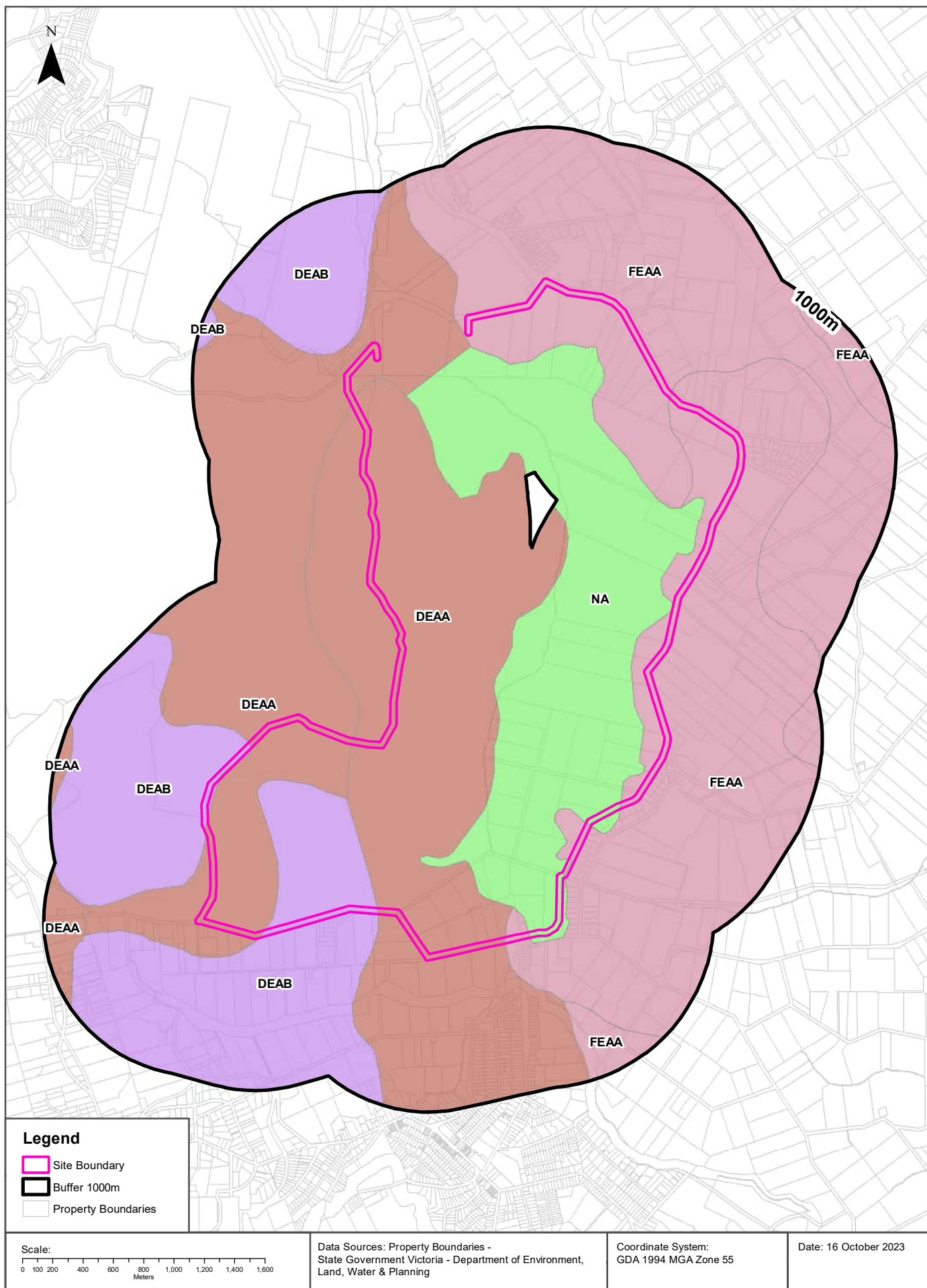
Map Unit Code	Soil Order	Map Unit Description	Distance	Direction
Tb1	Sodosol	Hills and valley plains: hills and hill slopes of hard acidic yellow mottled soils (Dy3.41 and Dy3.42) in association with hard neutral red soils (Dr2.22 and Dr2.32), shallow grey-brown sandy soils (Uc6.11), and rock outcrops; smaller localized areas of (Dy3.61), (Dy3.81), (Dy3.21), (Dy4.21), (Dr2.11), (Dr2.41), also (Gn2.74) on hills and slopes; valley plains of hard neutral or alkaline yellow mottled soils (Dy3.42 and Dy3.43) with red mottled soils (Dr3.33) and others not described but including cracking clays (Ug5.1) and (Um) soils. Soils of low-lying wet situations generally not studied but (Uf6.41) has been recorded therein. Note in the smaller areas of this unit only the dominant soils of the unit may occur therein.	0m	On-site
Mg4	Ferrosol	Rounded hills with moderate to steep slopes of red friable porous earths (Gn4.11) and other un- described soils.	0m	On-site
Mk1	Dermosol	Montane region at low to moderate elevation: moderate to steep hill slopes of red friable porous earths (Gn4.14), possibly with (Gn4.11) also; narrow stream valleys of undescribed soils; and also small areas of soils from adjoining units.	0m	On-site

Atlas of Australian Soils Data Source: CSIRO

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# Victorian Soil Type Mapping

Silvan Reservoir, Monbulk Rd, Monbulk, VIC 3793





## Soils

Silvan Reservoir, Monbulk Rd, Monbulk, VIC 3793

### Victorian Soil Type Mapping

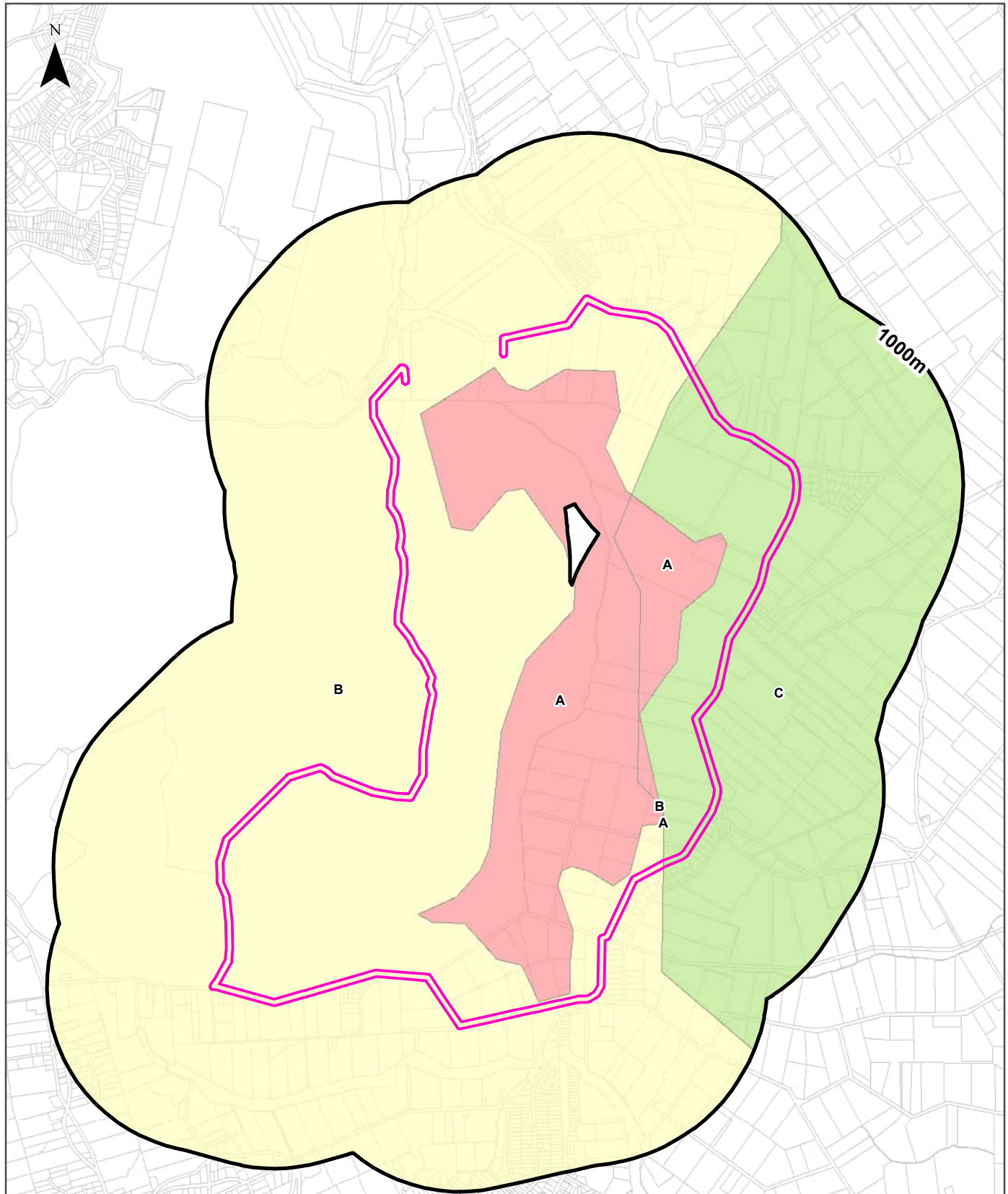
Victorian Soil Types within the dataset buffer:

Symbol	Description	Distance	Direction
FEAA	Red Ferrosols	0m	On-site
DEAA	Red Dermosols	0m	On-site
DEAB	Brown Dermosols	0m	On-site
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

Silvan Reservoir, Monbulk Rd, Monbulk, VIC 3793



<b>Legend</b>	
Site Boundary	<b>Probability of occurrence of Acid Sulfate Soils</b>
Buffer 1000m	A. High (>70%)
Property Boundary	B. Low (6-70%)
	C. Extremely Low (1-5%)
	No Data
	D. No Chance (0%)
<b>Scale:</b> 0 100 200 400 600 800 1,000 1,200 1,400 1,600 Meters	Data Sources: Property Boundaries & Topographic Data: State of Victoria - Department of Environment and Primary Industries
	Coordinate System: GDA 1994 MGA Zone 55
	Date: 16 October 2023

## Acid Sulfate Soils

Silvan Reservoir, Monbulk Rd, Monbulk, VIC 3793

### Atlas of Australian Acid Sulfate Soils

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

Class	Description	Distance	Direction
B	Low Probability of occurrence. 6-70% chance of occurrence.	0m	On-site
C	Extremely low probability of occurrence. 1-5% chance of occurrence with occurrences in small localised areas.	0m	On-site
A	High Probability of occurrence. >70% chance of occurrence.	23m	East

Atlas of Australian Acid Sulfate Soils Data Source: CSIRO

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## Acid Sulfate Soils

Silvan Reservoir, Monbulk Rd, Monbulk, VIC 3793

## Coastal Acid Sulfate Soils

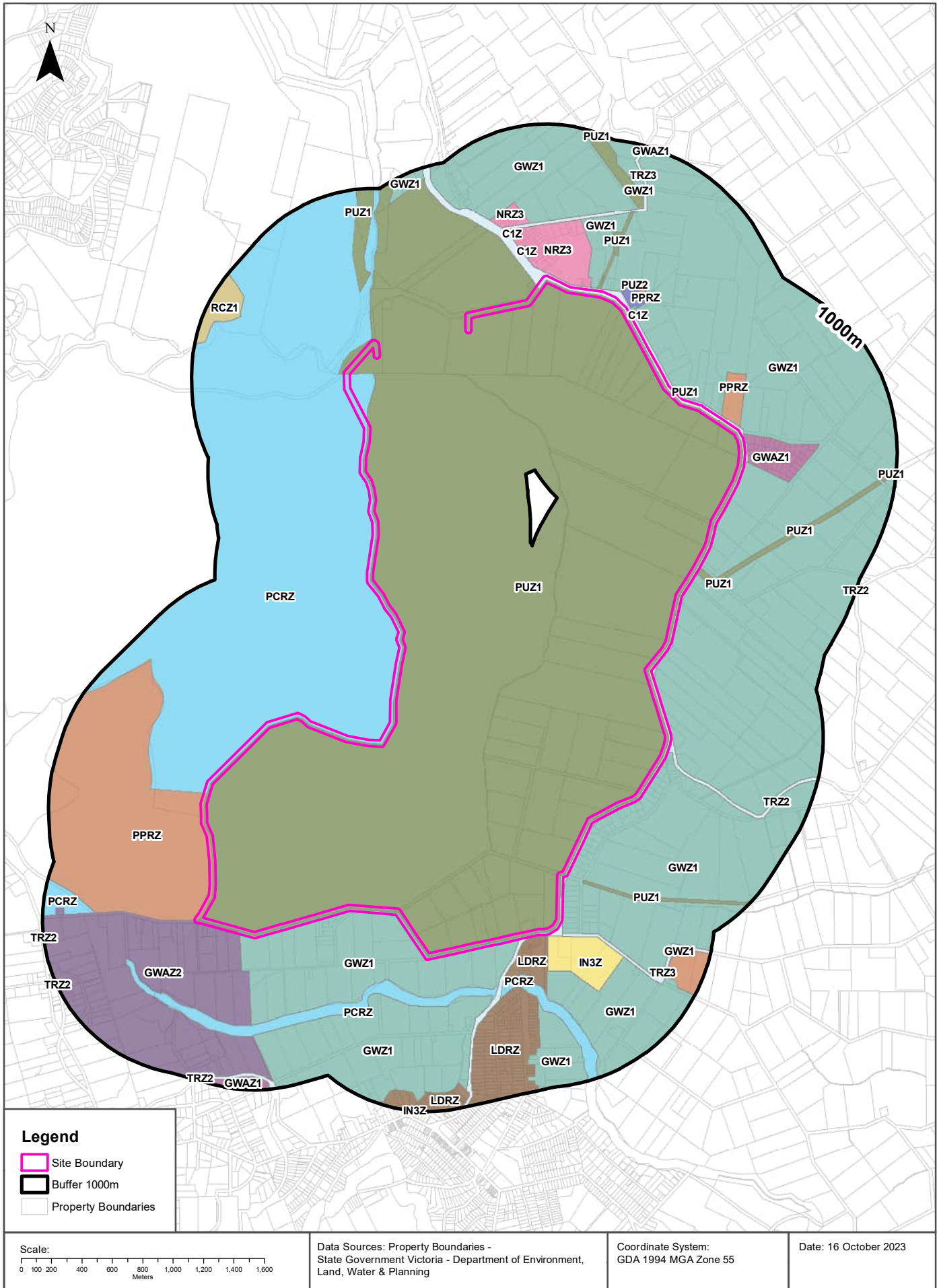
Coastal Acid Sulfate Soil types within the dataset buffer:

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

Silvan Reservoir, Monbulk Rd, Monbulk, VIC 3793



# Planning

Silvan Reservoir, Monbulk Rd, Monbulk, VIC 3793

## Planning Zones

Planning zones within the dataset buffer:

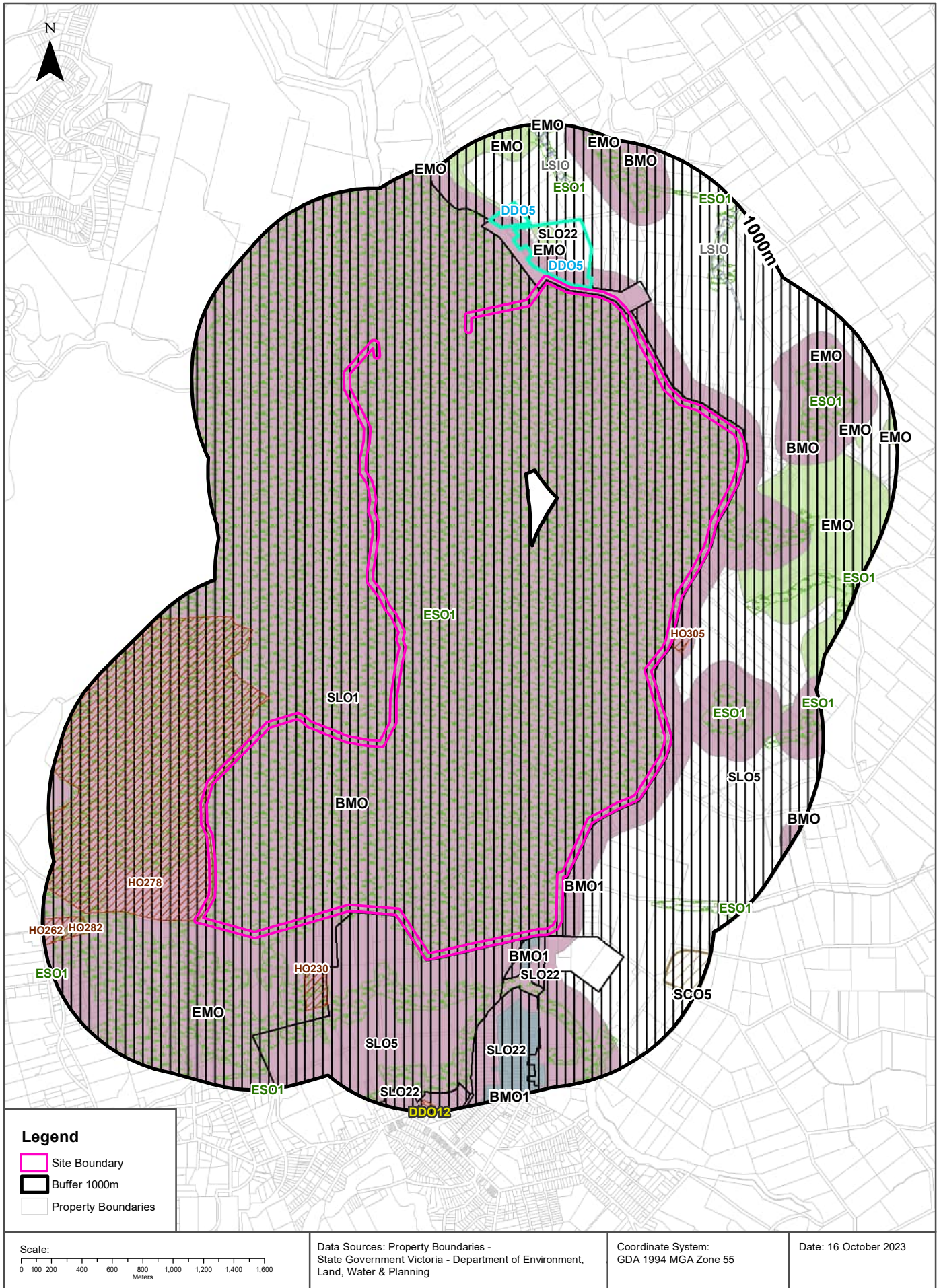
Zone Code	Description	Distance	Direction
PUZ1	PUBLIC USE ZONE - SERVICE AND UTILITY	0m	On-site
TRZ2	TRANSPORT ZONE 2 - PRINCIPAL ROAD NETWORK	0m	On-site
PCRZ	PUBLIC CONSERVATION AND RESOURCE ZONE	0m	On-site
GWZ1	GREEN WEDGE ZONE - SCHEDULE 1	0m	On-site
PPRZ	PUBLIC PARK AND RECREATION ZONE	0m	On-site
GWAZ2	GREEN WEDGE A ZONE - SCHEDULE 2	0m	On-site
GWZ1	GREEN WEDGE ZONE - SCHEDULE 1	0m	North East
GWZ1	GREEN WEDGE ZONE - SCHEDULE 1	0m	South East
PUZ1	PUBLIC USE ZONE - SERVICE AND UTILITY	0m	East
LDRZ	LOW DENSITY RESIDENTIAL ZONE	0m	South
GWAZ1	GREEN WEDGE A ZONE - SCHEDULE 1	1m	North East
IN3Z	INDUSTRIAL 3 ZONE	4m	South East
NRZ3	NEIGHBOURHOOD RESIDENTIAL ZONE - SCHEDULE 3	19m	North
C1Z	COMMERCIAL 1 ZONE	20m	North East
GWZ1	GREEN WEDGE ZONE - SCHEDULE 1	20m	North East
PPRZ	PUBLIC PARK AND RECREATION ZONE	20m	North East
PUZ1	PUBLIC USE ZONE - SERVICE AND UTILITY	20m	North East
PUZ1	PUBLIC USE ZONE - SERVICE AND UTILITY	21m	North East
PUZ2	PUBLIC USE ZONE - EDUCATION	21m	North East
PUZ6	PUBLIC USE ZONE - LOCAL GOVERNMENT	21m	North East
TRZ3	TRANSPORT ZONE 3 - SIGNIFICANT MUNICIPAL ROAD	40m	South East
PUZ1	PUBLIC USE ZONE - SERVICE AND UTILITY	101m	South East
PUZ1	PUBLIC USE ZONE - SERVICE AND UTILITY	126m	East
PPRZ	PUBLIC PARK AND RECREATION ZONE	129m	North East
C1Z	COMMERCIAL 1 ZONE	162m	North
PCRZ	PUBLIC CONSERVATION AND RESOURCE ZONE	221m	South East
PCRZ	PUBLIC CONSERVATION AND RESOURCE ZONE	221m	South
GWZ1	GREEN WEDGE ZONE - SCHEDULE 1	232m	South East
GWZ1	GREEN WEDGE ZONE - SCHEDULE 1	277m	South
LDRZ	LOW DENSITY RESIDENTIAL ZONE	295m	South
C1Z	COMMERCIAL 1 ZONE	319m	North
PUZ1	PUBLIC USE ZONE - SERVICE AND UTILITY	334m	North

Zone Code	Description	Distance	Direction
TRZ3	TRANSPORT ZONE 3 - SIGNIFICANT MUNICIPAL ROAD	338m	North East
GWZ1	GREEN WEDGE ZONE - SCHEDULE 1	358m	North
NRZ3	NEIGHBOURHOOD RESIDENTIAL ZONE - SCHEDULE 3	362m	North
GWZ1	GREEN WEDGE ZONE - SCHEDULE 1	412m	South
PUZ1	PUBLIC USE ZONE - SERVICE AND UTILITY	601m	North East
PCRZ	PUBLIC CONSERVATION AND RESOURCE ZONE	655m	South West
GWZ1	GREEN WEDGE ZONE - SCHEDULE 1	748m	South East
PPRZ	PUBLIC PARK AND RECREATION ZONE	753m	South East
RCZ1	RURAL CONSERVATION ZONE - SCHEDULE 1	775m	North West
LDRZ	LOW DENSITY RESIDENTIAL ZONE	829m	South
GWZ1	GREEN WEDGE ZONE - SCHEDULE 1	885m	North
PUZ1	PUBLIC USE ZONE - SERVICE AND UTILITY	895m	East
GWAZ1	GREEN WEDGE A ZONE - SCHEDULE 1	908m	South
GWAZ1	GREEN WEDGE A ZONE - SCHEDULE 1	955m	North East
IN3Z	INDUSTRIAL 3 ZONE	961m	South
PCRZ	PUBLIC CONSERVATION AND RESOURCE ZONE	974m	South
C2Z	COMMERCIAL 2 ZONE	994m	South

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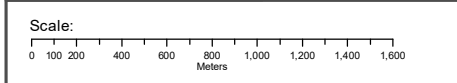
# Planning Overlays

Silvan Reservoir, Monbulk Rd, Monbulk, VIC 3793



**Legend**

- Site Boundary
- Buffer 1000m
- Property Boundaries



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

Coordinate System: GDA 1994 MGA Zone 55

Date: 16 October 2023



# Planning

Silvan Reservoir, Monbulk Rd, Monbulk, VIC 3793

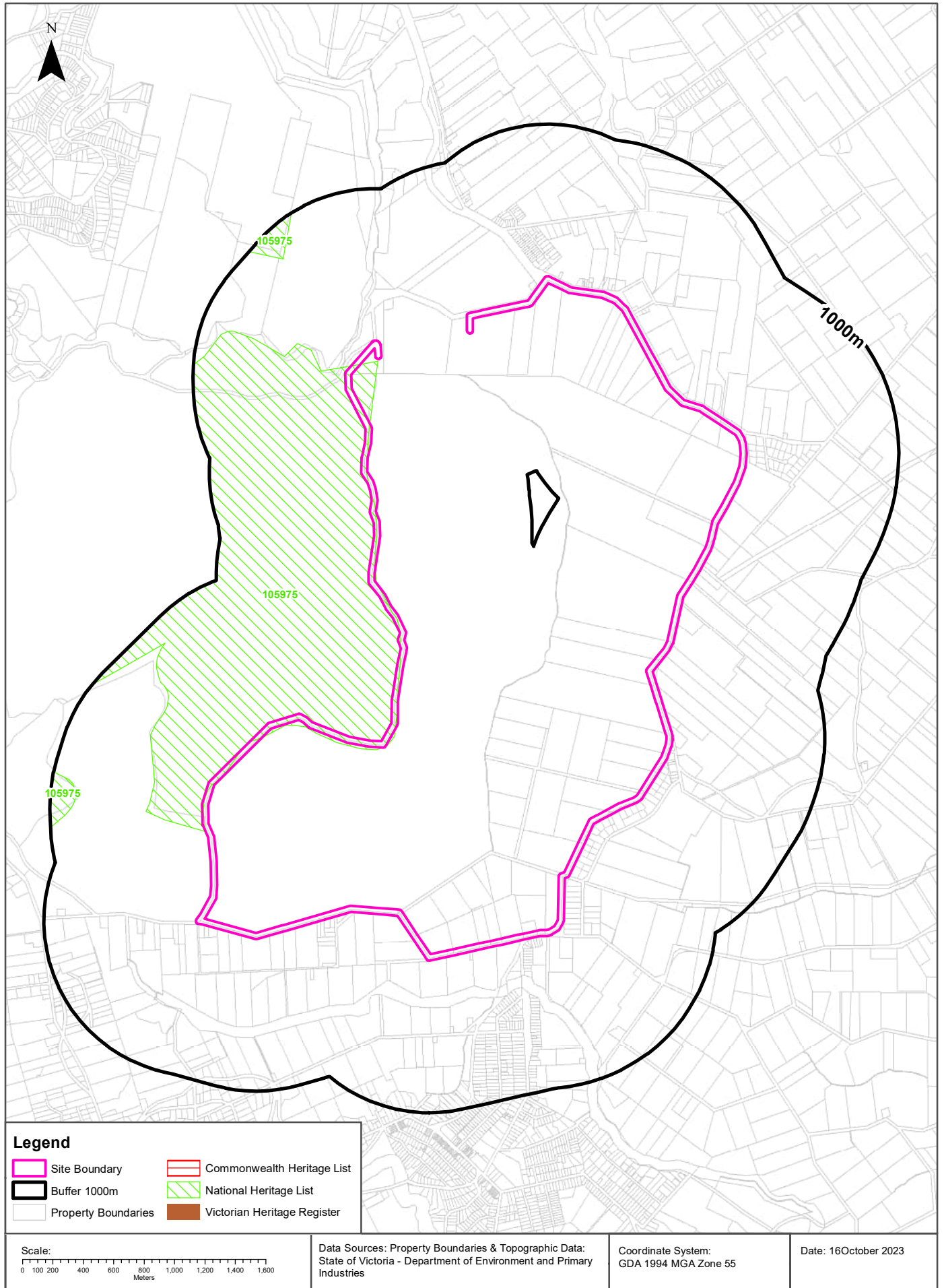
## Planning Overlays

Planning overlays within the dataset buffer:

Zone Code	Description	Distance	Direction
BMO	BUSHFIRE MANAGEMENT OVERLAY	0m	On-site
SLO1	SIGNIFICANT LANDSCAPE OVERLAY - SCHEDULE 1	0m	On-site
ESO1	ENVIRONMENTAL SIGNIFICANCE OVERLAY - SCHEDULE 1	0m	On-site
HO278	HERITAGE OVERLAY (HO278)	0m	On-site
EMO	EROSION MANAGEMENT OVERLAY	0m	On-site
SLO5	SIGNIFICANT LANDSCAPE OVERLAY - SCHEDULE 5	0m	On-site
SLO5	SIGNIFICANT LANDSCAPE OVERLAY - SCHEDULE 5	0m	South
HO305	HERITAGE OVERLAY (HO305)	0m	East
SLO22	SIGNIFICANT LANDSCAPE OVERLAY - SCHEDULE 22	0m	South
BMO1	BUSHFIRE MANAGEMENT OVERLAY - SCHEDULE 1	1m	South
DDO5	DESIGN AND DEVELOPMENT OVERLAY - SCHEDULE 5	19m	North
SLO22	SIGNIFICANT LANDSCAPE OVERLAY - SCHEDULE 22	19m	North
EMO	EROSION MANAGEMENT OVERLAY	45m	East
BMO1	BUSHFIRE MANAGEMENT OVERLAY - SCHEDULE 1	110m	South East
EMO	EROSION MANAGEMENT OVERLAY	153m	North
BMO	BUSHFIRE MANAGEMENT OVERLAY	200m	North East
ESO1	ENVIRONMENTAL SIGNIFICANCE OVERLAY - SCHEDULE 1	227m	East
HO230	HERITAGE OVERLAY (HO230)	276m	South
SLO22	SIGNIFICANT LANDSCAPE OVERLAY - SCHEDULE 22	295m	South
ESO1	ENVIRONMENTAL SIGNIFICANCE OVERLAY - SCHEDULE 1	354m	North East
DDO5	DESIGN AND DEVELOPMENT OVERLAY - SCHEDULE 5	362m	North
SLO22	SIGNIFICANT LANDSCAPE OVERLAY - SCHEDULE 22	362m	North
SLO23	SIGNIFICANT LANDSCAPE OVERLAY - SCHEDULE 23	362m	North
BMO1	BUSHFIRE MANAGEMENT OVERLAY - SCHEDULE 1	370m	South
BMO	BUSHFIRE MANAGEMENT OVERLAY	490m	North East
EMO	EROSION MANAGEMENT OVERLAY	528m	North
ESO1	ENVIRONMENTAL SIGNIFICANCE OVERLAY - SCHEDULE 1	548m	North East
LSIO	LAND SUBJECT TO INUNDATION OVERLAY	604m	North East
EMO	EROSION MANAGEMENT OVERLAY	610m	North East
LSIO	LAND SUBJECT TO INUNDATION OVERLAY	622m	North
HO282	HERITAGE OVERLAY (HO282)	707m	South West

Zone Code	Description	Distance	Direction
EMO	EROSION MANAGEMENT OVERLAY	720m	North East
SCO5	SPECIFIC CONTROLS OVERLAY - PS MAP REF SCO5	753m	South East
EMO	EROSION MANAGEMENT OVERLAY	762m	North
SLO22	SIGNIFICANT LANDSCAPE OVERLAY - SCHEDULE 22	835m	South
EMO	EROSION MANAGEMENT OVERLAY	869m	North East
HO262	HERITAGE OVERLAY (HO262)	870m	South West
BMO	BUSHFIRE MANAGEMENT OVERLAY	892m	South East
HO231	HERITAGE OVERLAY (HO231)	922m	South
ESO1	ENVIRONMENTAL SIGNIFICANCE OVERLAY - SCHEDULE 1	974m	South
EMO	EROSION MANAGEMENT OVERLAY	975m	North
DDO12	DESIGN AND DEVELOPMENT OVERLAY - SCHEDULE 12	994m	South

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

Silvan Reservoir, Monbulk Rd, Monbulk, VIC 3793

### 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
<a href="#">105975</a>	Dandenong Ranges National Park and Puffing Billy Railway	Belgrave-Gembrook Rd, Belgrave VIC	2/16/048/0007	Historic	Nomination now ineligible for PPAL		0m	On-site

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

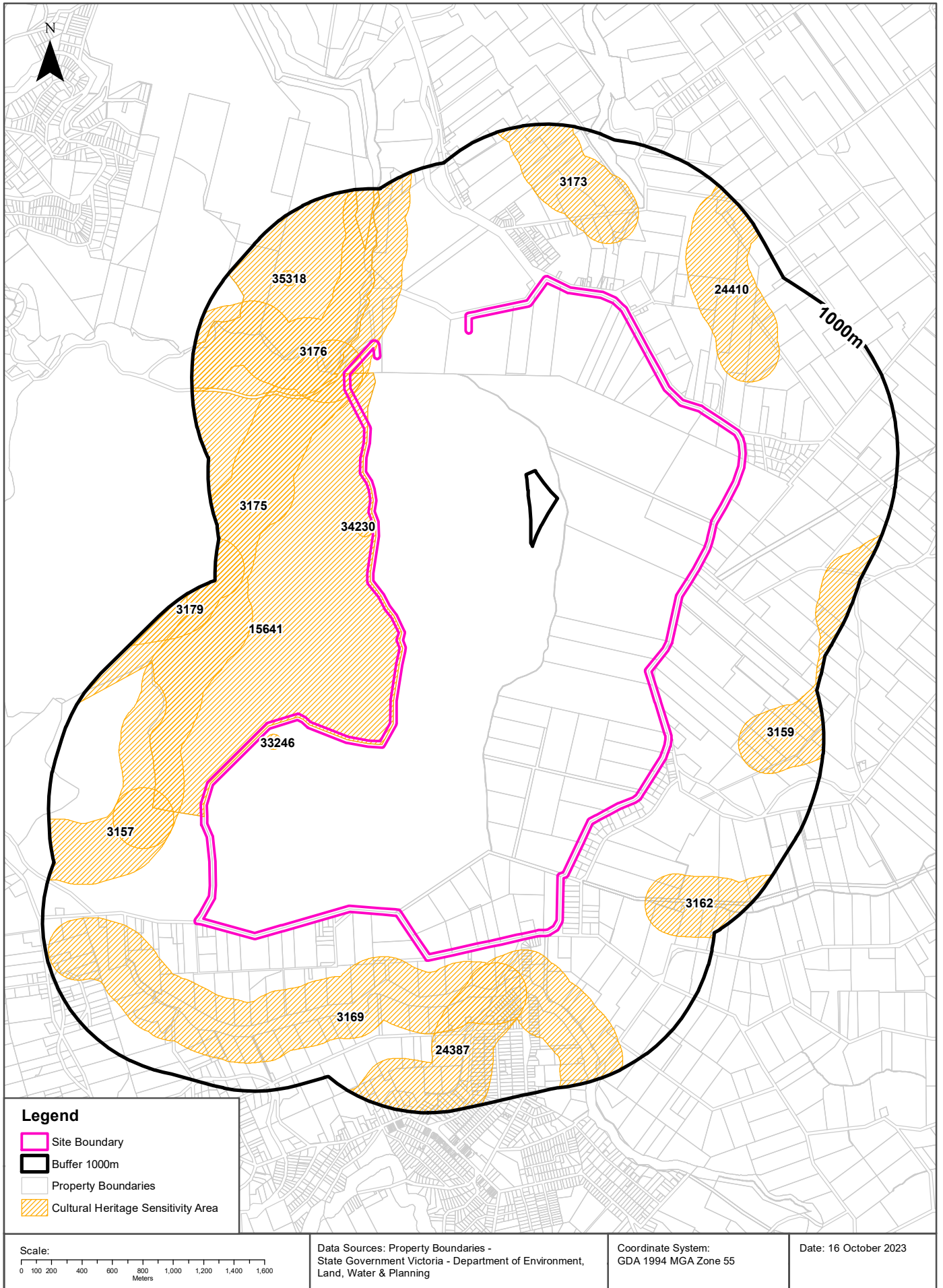
What are the Victorian Heritage Register items located within the dataset buffer?:

VHR Number	Description	Distance	Direction
N/A	No records in buffer		

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

Silvan Reservoir, Monbulk Rd, Monbulk, VIC 3793



## Heritage

Silvan Reservoir, Monbulk Rd, Monbulk, VIC 3793

### Cultural Heritage Sensitivity

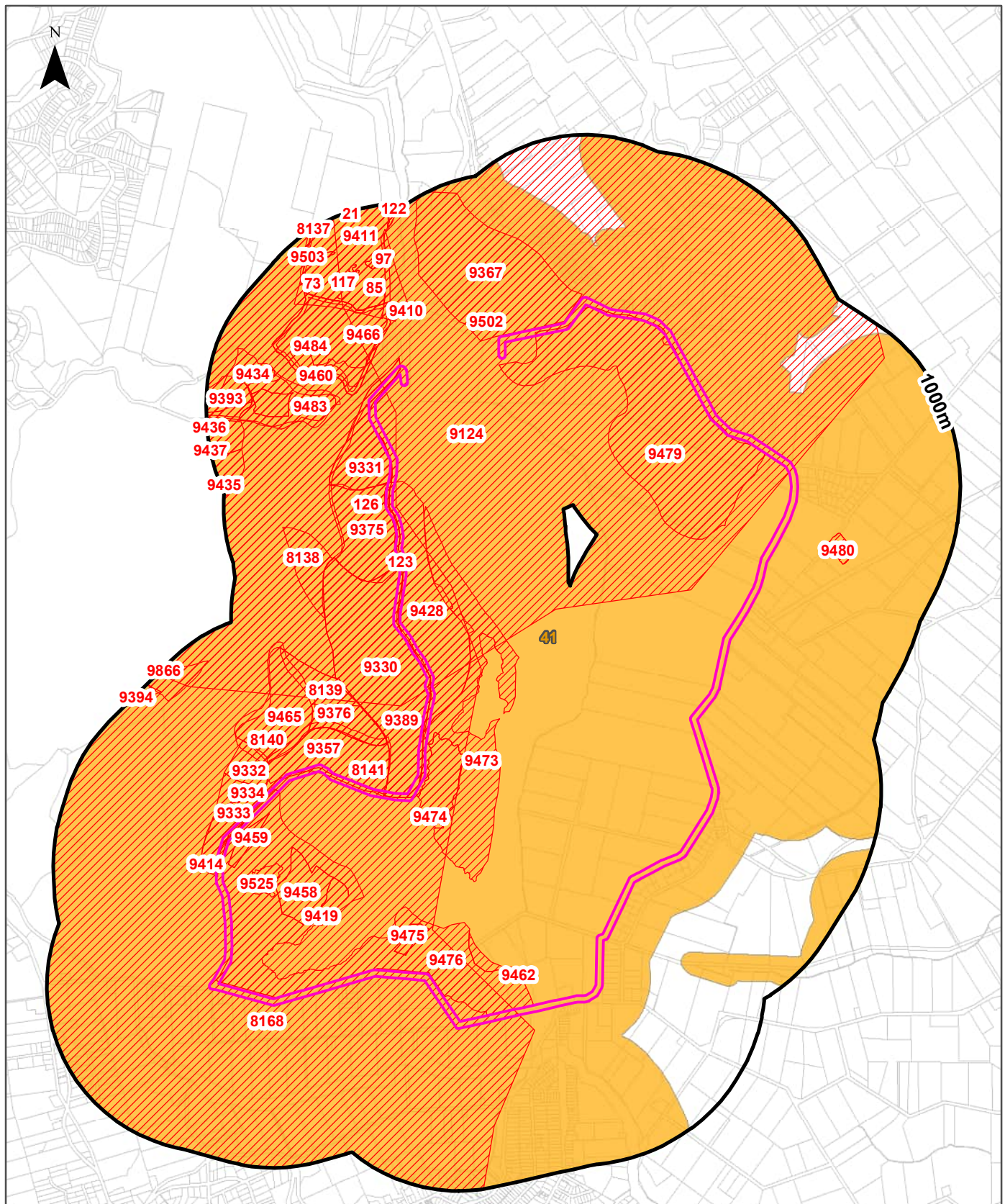
Areas of Cultural Heritage Sensitivity as specified in Division 3 of Part 2 in the Victorian Aboriginal Heritage Regulations 2018, within the dataset buffer:

Map Id	Distance	Direction
15641	0m	On-site
3176	0m	On-site
3175	0m	On-site
34230	2m	North
33246	28m	South West
3169	53m	South
24387	106m	South
3157	179m	South West
24410	269m	North East
3173	318m	North
3159	440m	East
3162	517m	South East
35318	633m	North
3179	770m	West

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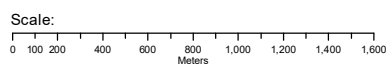
# Natural Hazards

Silvan Reservoir, Monbulk Rd, Monbulk, VIC 3793



## Legend

- |                     |                                |                                 |                                 |
|---------------------|--------------------------------|---------------------------------|---------------------------------|
| Site Boundary       | Flood 1 in 100 Year Extent     | Sea Level 0cm (2009)            | Sea Level 47cm (2070)           |
| Buffer 1000m        | Fire History Records           | 1 in 100 Year Storm Tide (2009) | 1 in 100 Year Storm Tide (2070) |
| Property Boundaries | Designated Bushfire Prone Area | 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: 16 October 2023

## Natural Hazards

Silvan Reservoir, Monbulk Rd, Monbulk, VIC 3793

### Bushfire Prone Areas

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

Map ID	Feature	Plan No	LGA	Gazetted Date	Distance	Direction
41	Designated Bushfire Prone Area	LEGL./20-304	YARRA RANGES	07/09/2020	0m	On-site

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
8168	BUSHFIRE	W196203999	1962	999		FIRE	0-9		0m	On-site
9124	BUSHFIRE	W193903999	1939	999		FIRE			0m	On-site
9389	BURN		2002	D12		FUEL REDUCTION	90-100	14/03/2002	0m	On-site
9330	BURN		1990	999		FUEL REDUCTION	0-9		0m	On-site
9428	BURN		2013		MW SILV-PB01	FUEL REDUCTION	70-89	09/04/2013	0m	On-site
9476	BURN		2016	MWSL02	MELBOURNE WATER SILVAN - PB02	FUEL REDUCTION	90-100	19/04/2016	0m	On-site
8141	BURN		1988	999		FUEL REDUCTION			0m	On-site
9479	BURN		2017	MWSL03	MELBOURNE WATER SILVAN - PB03	FUEL REDUCTION	90-100	20/04/2017	0m	On-site
9331	BURN		1991	999		FUEL REDUCTION			0m	On-site
9396	BURN		2005	D48		FUEL REDUCTION	90-100	25/11/2004	0m	On-site
123	BURN	B2021PP-MET-DRP-0026	2021	PP-MET-DRP-0026	OLINDA - ROAD 16	FUEL REDUCTION	70-89	02/11/2020	0m	On-site
9333	BURN		1992	999		FUEL REDUCTION			0m	On-site
9414	BURN		2010	D97	Board Trk	FUEL REDUCTION	90-100	07/11/2009	0m	On-site
9357	BURN		2007	999		FUEL REDUCTION	70-89		0m	On-site
9375	BURN		1996	999		FUEL REDUCTION			0m	On-site
126	BURN	B2021PP-MET-DRP-0026	2021	PP-MET-DRP-0026	OLINDA - ROAD 16	FUEL REDUCTION	90-100	02/11/2020	0m	On-site
9473	BURN		2016	MWSL01	MELBOURNE WATER SILVAN - PB01	FUEL REDUCTION	90-100	18/04/2016	0m	On-site
9367	BURN		2010	MWD01	Stonyford Rd	FUEL REDUCTION	50-69	04/04/2010	6m	North



Map Id	Fire Type	Fire Key	Season	Fire No	Fire Name	Treatment	Fire Cover	Start Date	Dist (m)	Direction
9474	BURN		2016	MWSL01	MELBOURNE WATER SILVAN - PB01	FUEL REDUCTION	90-100	18/04/2016	15m	South
9459	BURN		2016	MWSL02	MELBOURNE WATER SILVAN - PB02	FUEL REDUCTION	90-100	19/04/2016	23m	South West
9334	BURN		1994	999		FUEL REDUCTION			28m	South West
9332	BURN		1992	999		FUEL REDUCTION			38m	West
9460	BURN		2015	EDR0062	SILVAN - TRACK 18	FUEL REDUCTION	50-69	25/05/2015	88m	North
9466	BURN		2016	EDR0062	SILVAN - TRACK 18	FUEL REDUCTION	90-100	20/04/2016	88m	North
9484	BURN		2017	EDR0062	SILVAN - TRACK 18	FUEL REDUCTION	70-89	11/03/2017	88m	North
9475	BURN		2016	MWSL02	MELBOURNE WATER SILVAN - PB02	FUEL REDUCTION	90-100	19/04/2016	105m	South
9465	BURN		2016	EC000173	OLINDA - BULLDOG AVE	FUEL REDUCTION	90-100	19/04/2016	119m	West
9502	BURN		2019	PP-MET-DRP-9997	SILVAN - STONEYFORD RD	WINDROW - MIXED	90-100	06/08/2018	123m	North
9525	BUSHFIRE	W202052009	2020	9	METROPOLITAN 9 - SILVAN - TRACK 6	FIRE		22/11/2019	141m	South West
8140	BURN		1987	999		FUEL REDUCTION			150m	West
9483	BURN		2017	EDR0062	SILVAN - TRACK 18	FUEL REDUCTION	70-89	11/03/2017	175m	North West
9462	BURN		2016	MWSL02	MELBOURNE WATER SILVAN - PB02	FUEL REDUCTION	90-100	19/04/2016	197m	South
9376	BURN		1996	999		FUEL REDUCTION			199m	West
8139	BURN		1985	999		FUEL REDUCTION	0-9		202m	West
9863	BURN		1999	999		FUEL REDUCTION		12/03/1999	205m	North West
9480	BUSHFIRE		2017		WYLIE RD	FIRE		15/12/2016	265m	East
9410	BURN		2007	999		FUEL REDUCTION	70-89	25/04/2007	278m	North
9458	BURN		2016	MWSL02	MELBOURNE WATER SILVAN - PB02	FUEL REDUCTION	90-100	19/04/2016	294m	South West
9411	BURN		2008	D86		FUEL REDUCTION		17/04/2008	312m	North
8138	BURN		1984	999		FUEL REDUCTION	0-9		381m	North West
117	BURN	B2021PP-MET-DRP-0030	2021	PP-MET-DRP-0030	SILVAN - MELBA TRACK	FUEL REDUCTION	90-100	24/02/2021	396m	North
9419	BURN		2016	MWSL02	MELBOURNE WATER SILVAN - PB02	FUEL REDUCTION	90-100	19/04/2016	406m	South West
9433	BURN		2017	EDR0062	SILVAN - TRACK 18	FUEL REDUCTION	70-89	11/03/2017	469m	North West
85	BURN	B2021PP-MET-DRP-0030	2021	PP-MET-DRP-0030	SILVAN - MELBA TRACK	FUEL REDUCTION	90-100	24/02/2021	507m	North
81	BURN	B2021PP-MET-DRP-0030	2021	PP-MET-DRP-0030	SILVAN - MELBA TRACK	FUEL REDUCTION	90-100	24/02/2021	535m	North

Map Id	Fire Type	Fire Key	Season	Fire No	Fire Name	Treatment	Fire Cover	Start Date	Dist (m)	Direction
80	BURN	B2021PP-MET-DRP-0030	2021	PP-MET-DRP-0030	SILVAN - MELBA TRACK	FUEL REDUCTION	90-100	24/02/2021	541m	North
9434	BURN		2017	EDR0062	SILVAN - TRACK 18	FUEL REDUCTION	70-89	11/03/2017	564m	North West
9443	BURN		2015	EDR0062	Silvan - TRACK 18	FUEL REDUCTION	70-89	25/05/2015	603m	North West
97	BURN	B2021PP-MET-DRP-0030	2021	PP-MET-DRP-0030	SILVAN - MELBA TRACK	FUEL REDUCTION	90-100	24/02/2021	621m	North
86	BURN	B2021PP-MET-DRP-0030	2021	PP-MET-DRP-0030	SILVAN - MELBA TRACK	FUEL REDUCTION	90-100	24/02/2021	628m	North
96	BURN	B2021PP-MET-DRP-0030	2021	PP-MET-DRP-0030	SILVAN - MELBA TRACK	FUEL REDUCTION	90-100	24/02/2021	629m	North
87	BURN	B2021PP-MET-DRP-0030	2021	PP-MET-DRP-0030	SILVAN - MELBA TRACK	FUEL REDUCTION	90-100	24/02/2021	647m	North
74	BURN	B2021PP-MET-DRP-0030	2021	PP-MET-DRP-0030	SILVAN - MELBA TRACK	FUEL REDUCTION	90-100	24/02/2021	683m	North
9393	BURN		2004	D35		FUEL REDUCTION	90-100	13/03/2004	720m	North West
73	BURN	B2021PP-MET-DRP-0030	2021	PP-MET-DRP-0030	SILVAN - MELBA TRACK	FUEL REDUCTION	90-100	24/02/2021	725m	North
9503	BURN	B201952PP-MET-DRP-9999	2019	PP-MET-DRP-9999	DANDENON G RANGES N.P. - CANDLING	CANDLING	90-100	16/08/2018	758m	North
9436	BURN		2018	PP-MET-DRP-0025	Olinda - Barges Tk	FUEL REDUCTION	90-100	27/04/2018	775m	North West
45	BURN	B2021PP-MET-DRP-0030	2021	PP-MET-DRP-0030	SILVAN - MELBA TRACK	FUEL REDUCTION	90-100	24/02/2021	798m	North
24	BURN	B2021PP-MET-DRP-0030	2021	PP-MET-DRP-0030	SILVAN - MELBA TRACK	FUEL REDUCTION	90-100	24/02/2021	800m	North
9435	BURN		2018	PP-MET-DRP-0025	Olinda - Barges Tk	FUEL REDUCTION	90-100	27/04/2018	807m	North West
9866	BURN		2001	D03		FUEL REDUCTION		07/12/2000	818m	West
122	BURN	B2021PP-MET-DRP-0030	2021	PP-MET-DRP-0030	SILVAN - MELBA TRACK	FUEL REDUCTION	70-89	20/03/2021	860m	North
9504	BURN	B202052PP-MET-DRP-0030	2020	PP-MET-DRP-0030	SILVAN - MELBA TRACK	FUEL REDUCTION		28/03/2020	863m	North
9394	BURN		2004	D34		FUEL REDUCTION	0-9	14/03/2004	906m	West
9437	BURN		2018	PP-MET-DRP-0025	Olinda - Barges Tk	FUEL REDUCTION	90-100	27/04/2018	920m	North West
21	BURN	B2021PP-MET-DRP-0030	2021	PP-MET-DRP-0030	SILVAN - MELBA TRACK	FUEL REDUCTION	90-100	24/02/2021	947m	North
9506	BURN	B202052PP-MET-DRP-0030	2020	PP-MET-DRP-0030	SILVAN - MELBA TRACK	FUEL REDUCTION		28/03/2020	973m	North
20	BURN	B2021PP-MET-DRP-0030	2021	PP-MET-DRP-0030	SILVAN - MELBA TRACK	FUEL REDUCTION	90-100	24/02/2021	977m	North
19	BURN	B2021PP-MET-DRP-0030	2021	PP-MET-DRP-0030	SILVAN - MELBA TRACK	FUEL REDUCTION	90-100	24/02/2021	990m	North
23	BURN	B2021PP-MET-DRP-0030	2021	PP-MET-DRP-0030	SILVAN - MELBA TRACK	FUEL REDUCTION	90-100	24/02/2021	990m	North
22	BURN	B2021PP-MET-DRP-0030	2021	PP-MET-DRP-0030	SILVAN - MELBA TRACK	FUEL REDUCTION	90-100	24/02/2021	995m	North

Map Id	Fire Type	Fire Key	Season	Fire No	Fire Name	Treatment	Fire Cover	Start Date	Dist (m)	Direction
8137	BURN		1984	999		FUEL REDUCTION	0-9		998m	North

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
N/A	No records in buffer					

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

Silvan Reservoir, Monbulk Rd, Monbulk, VIC 3793

### Victorian Coastal Inundation Sea Level Rise

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

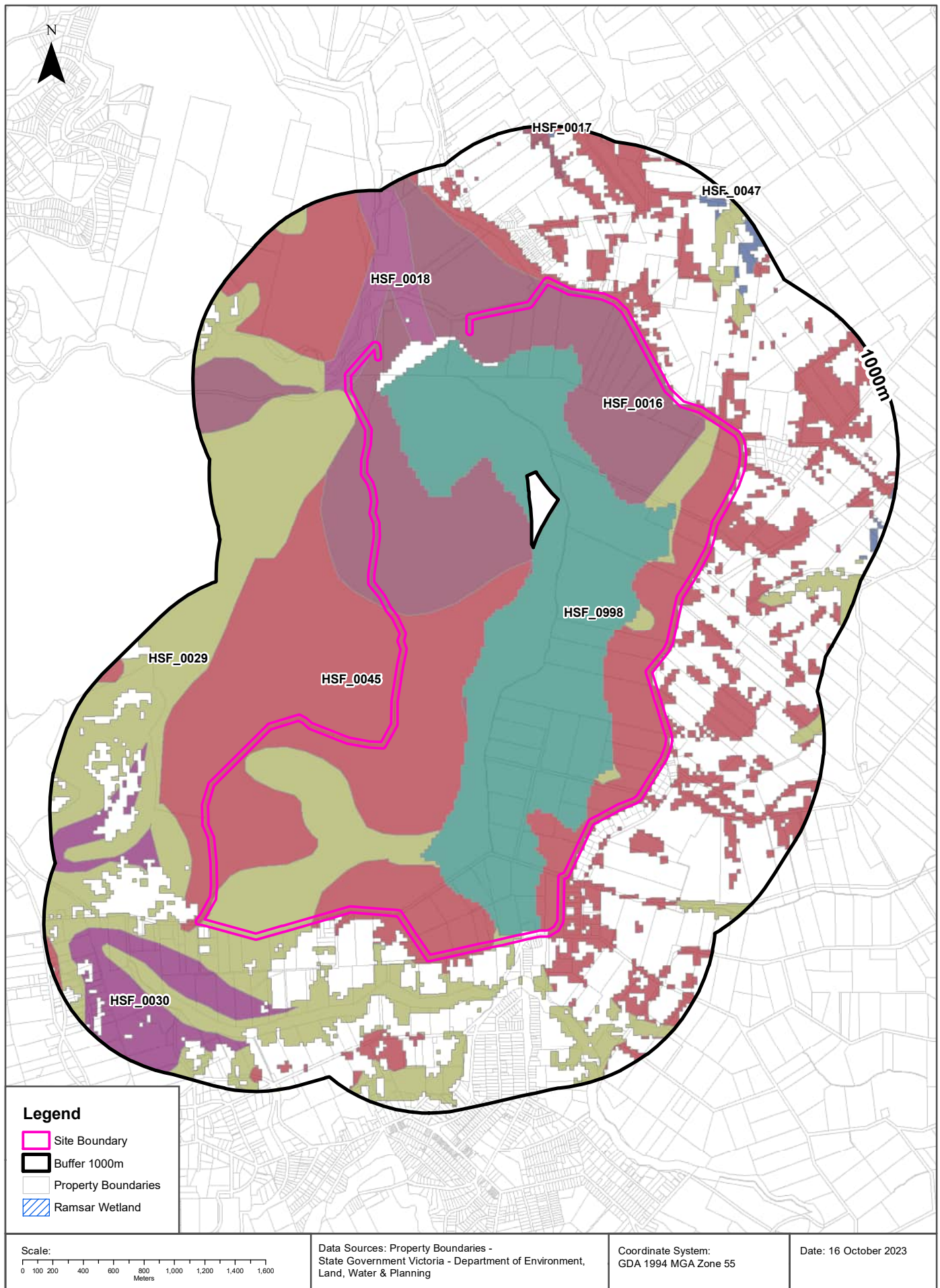
Description	Distance	Direction
No records in buffer		

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

Silvan Reservoir, Monbulk Rd, Monbulk, VIC 3793



## Ecological Constraints

Silvan Reservoir, Monbulk Rd, Monbulk, VIC 3793

### 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
HSF_0045	Shrubby Foothill Forest	0045	Dry Forests	Sheltered and/or higher altitude	Highlands - Southern Fall	Least Concern	Common	0m	On-site
HSF_0016	Lowland Forest	0016	Lowland Forests		Highlands - Southern Fall	Least Concern	Common	0m	On-site
HSF_0018	Riparian Forest	0018	Riparian Scrubs or Swampy Scrubs and Woodlands		Highlands - Southern Fall	Least Concern	Common	0m	On-site
HSF_0029	Damp Forest	0029	Wet or Damp Forests	Damp	Highlands - Southern Fall	Least Concern	Common	0m	On-site
HSF_0998	Water Body - man-made	0998	No native vegetation recorded		Highlands - Southern Fall	Not Applicable	not applicable	1m	East
HSF_0030	Wet Forest	0030	Wet or Damp Forests	Wet	Highlands - Southern Fall	Least Concern	Common	216m	South West
HSF_0017	Riparian Scrub/Swampy Riparian Woodland Complex	0017	Riparian Scrubs or Swampy Scrubs and Woodlands		Highlands - Southern Fall	Vulnerable	not applicable	656m	North
HSF_0047	Valley Grassy Forest	0047	Dry Forests	Sheltered and/or higher altitude	Highlands - Southern Fall	Vulnerable	Common	699m	North East

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

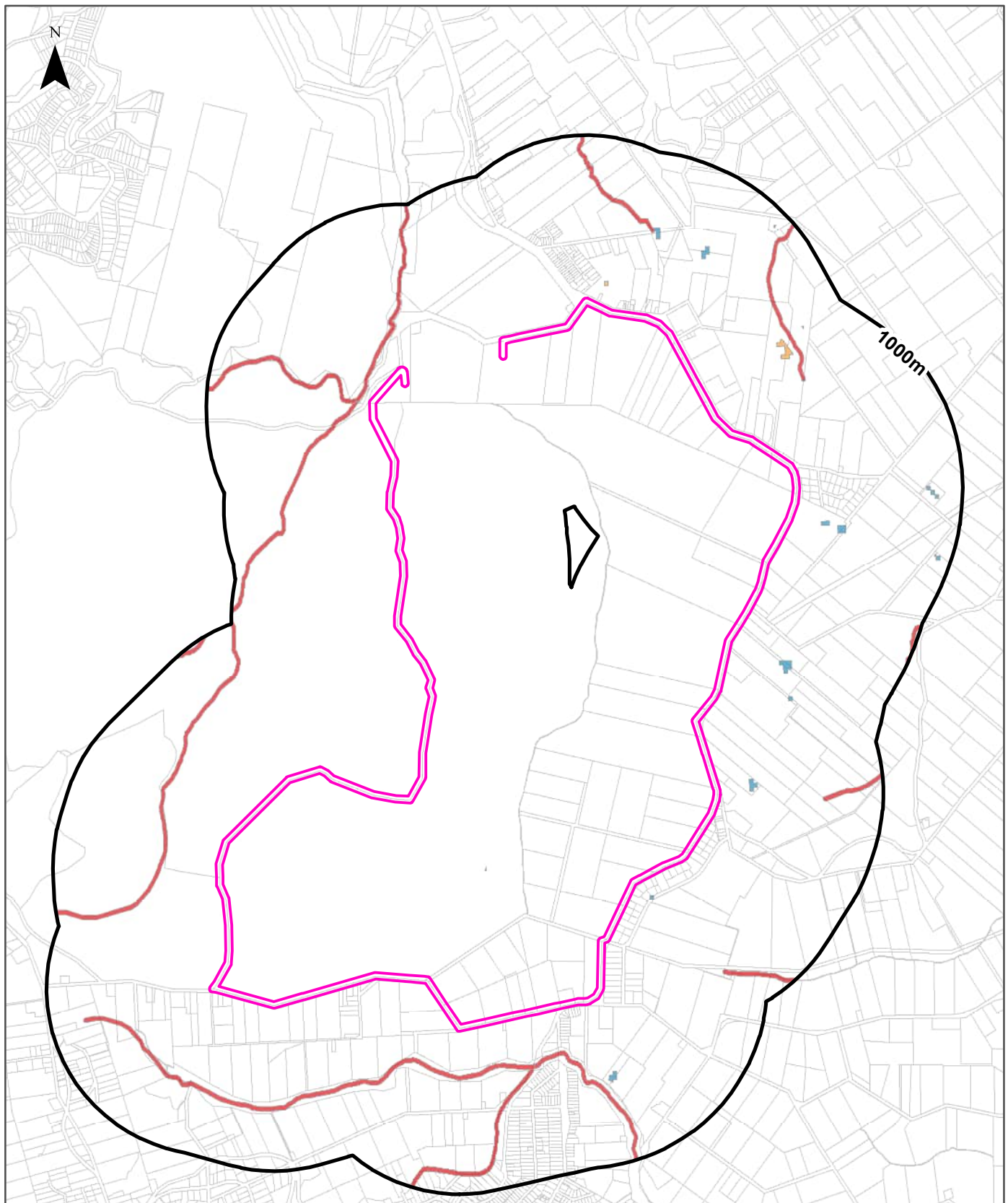
What Ramsar wetland areas exist within the dataset buffer?

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

Silvan Reservoir, Monbulk Rd, Monbulk, VIC 3793



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

<p>Scale:</p>	<p>Data Sources: Property Boundaries - State Government Victoria - Department of Environment, Land, Water &amp; Planning</p>	<p>Coordinate System: GDA 1994 MGA Zone 55</p>	<p>Date: 16 October 2023</p>
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## Ecological Constraints

Silvan Reservoir, Monbulk Rd, Monbulk, VIC 3793

### Groundwater Dependent Ecosystems Atlas

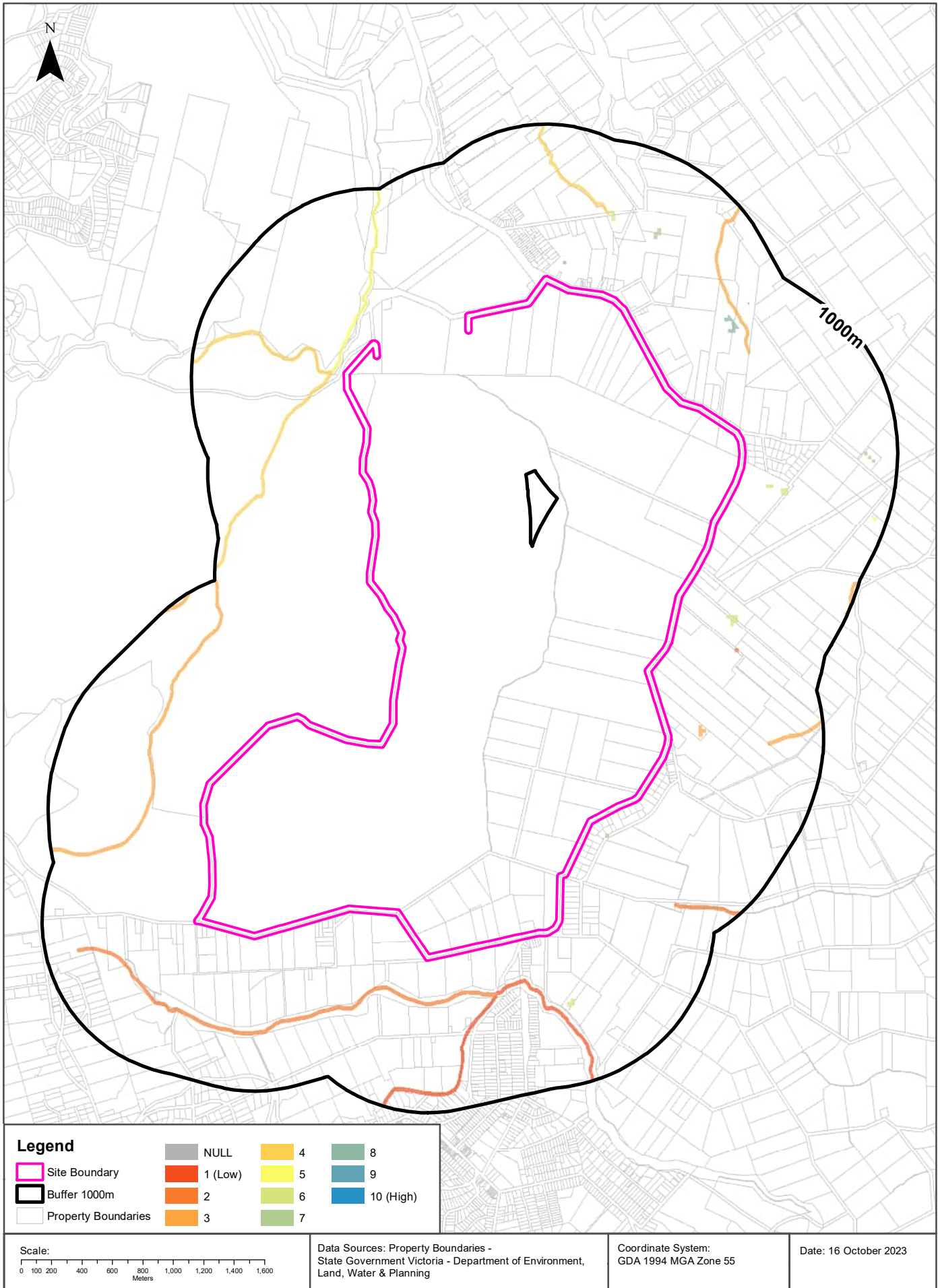
Type	Name	GDE Potential	Geomorphology	Ecosystem Type	Aquifer Geology	Distance	Direction
Aquatic		High potential GDE - from national assessment	Dissected high plateaus on various resistant rocks, with isolated high plains.	River	Fractured rock	56m	North
Aquatic		High potential GDE - from national assessment	Dissected high plateaus on various resistant rocks, with isolated high plains.	River	Unconsolidated sedimentary	66m	North West
Terrestrial		Low potential GDE - from national assessment	Dissected high plateaus on various resistant rocks, with isolated high plains.	Vegetation	Fractured rock	95m	South East
Terrestrial		Moderate potential GDE - from national assessment	Dissected high plateaus on various resistant rocks, with isolated high plains.	Vegetation	Fractured rock	117m	North
Aquatic		High potential GDE - from national assessment	Dissected high plateaus on various resistant rocks, with isolated high plains.	River	Consolidated sedimentary	248m	South East
Terrestrial		Moderate potential GDE - from national assessment	Dissected high plateaus on various resistant rocks, with isolated high plains.	Vegetation		601m	South

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

Silvan Reservoir, Monbulk Rd, Monbulk, VIC 3793



# Ecological Constraints

Silvan Reservoir, Monbulk Rd, Monbulk, VIC 3793

## Inflow Dependent Ecosystems Likelihood

Type	Name	IDE Likelihood	Geomorphology	Ecosystem Type	Aquifer Geology	Distance	Direction
Aquatic		5	Dissected high plateaus on various resistant rocks, with isolated high plains.	River	Fractured rock	56m	North
Aquatic		4	Dissected high plateaus on various resistant rocks, with isolated high plains.	River	Unconsolidated sedimentary	66m	North West
Terrestrial		7	Dissected high plateaus on various resistant rocks, with isolated high plains.	Vegetation	Fractured rock	95m	South East
Terrestrial		8	Dissected high plateaus on various resistant rocks, with isolated high plains.	Vegetation	Fractured rock	117m	North
Terrestrial		6	Dissected high plateaus on various resistant rocks, with isolated high plains.	Vegetation	Fractured rock	167m	North East
Terrestrial		3	Dissected high plateaus on various resistant rocks, with isolated high plains.	Vegetation	Fractured rock	178m	East
Aquatic		2	Dissected high plateaus on various resistant rocks, with isolated high plains.	River	Fractured rock	239m	South
Aquatic		1	Dissected high plateaus on various resistant rocks, with isolated high plains.	River	Consolidated sedimentary	248m	South East
Aquatic		3	Dissected high plateaus on various resistant rocks, with isolated high plains.	River	Fractured rock	311m	West
Aquatic		1	Dissected high plateaus on various resistant rocks, with isolated high plains.	River	Fractured rock	319m	South
Terrestrial		2	Dissected high plateaus on various resistant rocks, with isolated high plains.	Vegetation	Fractured rock	409m	East
Terrestrial		2	Dissected high plateaus on various resistant rocks, with isolated high plains.	Vegetation		601m	South
Aquatic		2	Dissected high plateaus on various resistant rocks, with isolated high plains.	River	Consolidated sedimentary	703m	South East
Terrestrial		4	Dissected high plateaus on various resistant rocks, with isolated high plains.	Vegetation	Fractured rock	897m	North East
Terrestrial		5	Dissected high plateaus on various resistant rocks, with isolated high plains.	Vegetation	Fractured rock	901m	East

Inflow Dependent Ecosystems Likelihood Data Source: The Bureau of Meteorology  
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## Location Confidences

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

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

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