



Appendix D:

Preliminary Site Investigation – Contamination

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Preliminary Site Investigation – Contamination Assessment

Cobden Battery Energy Storage System (BESS)

Cobden BESS Pty Ltd

29 Ringara Street, Manly West Qld 4179

Prepared by:

SLR Consulting Australia

SLR Project No.: 620.041534.00001

16 January 2025

Revision: v0.2

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Revision Record

Revision	Date	Prepared By	Checked By	Authorised By
v0.1 – Draft	20 December 2024	Mike Haynes	Yung Kho	Mike Haynes
v0.2 – Final	16 January 2025	Mike Haynes	Yung Kho	Mike Haynes

Basis of Report

This report has been prepared by SLR Consulting Australia Pty Ltd (SLR) with all reasonable skill, care and diligence, and taking account of the timescale and resources allocated to it by agreement with Cobden BESS Pty Ltd (the Client). Information reported herein is based on the interpretation of data collected, which has been accepted in good faith as being accurate and valid.

This report is for the exclusive use of the Client. No warranties or guarantees are expressed or should be inferred by any third parties. This report may not be relied upon by other parties without written consent from SLR.

SLR disclaims any responsibility to the Client and others in respect of any matters outside the agreed scope of the work.

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Acronyms and Abbreviations

APEC	Areas of Potential Environmental Concern
BESS	Battery Energy Storage System
CEMP	Construction Environmental Management Plan
DELWP	Victorian Department of Environment, Land, Water and Planning
EPA	Environment Protection Authority Victoria
ERS	Environmental Reference Standard
FZ1	Farming Zone 1
ha	Hectare
MW	Megawatt
OHS	Occupational Health and Safety
PSI	Preliminary Site Investigation
SLR	SLR Consulting Pty Ltd
TDS	Total dissolved solid

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1.0 Introduction

1.1 Background

SLR Consulting Australia Pty Ltd (SLR) was engaged by Cobden BESS Pty Ltd (Cobden BESS) to undertake a desktop Preliminary Site Investigation (PSI) to assess the potential contamination at the proposed Battery Energy Storage System (BESS) development located at 89 Cobden-Port Campbell Road, Cobden, Victoria (the 'site'). The site is identified as Lot 1 and 2 of TP863659.

SLR understands that the site is in the process of due diligence review for the planned installation of a BESS with an approximate capacity of 60-megawatt (MW) at the point of connection. The areas of investigation and assessment discussed within this report, include:

- Site Area (Lot 1 and 2 of TP863659) – Approximately 49.3 ha.
- Developable Area – Approximately 8.0 ha
- Project Footprint (the proposed location of the BESS) – Approximately 1.2 ha.
- General locality –1 km radius of the Study Area.

The site location, and relevant site and surrounding area features identified during the PSI, are shown in attached **Figure 1 (Appendix A)**.

1.2 Aim and Objective

The overall preliminary works for the proposed Cobden BESS development program involves various investigations to assess potential elevated risk items identified as part of the pre-development due diligence; and this PSI forms one of the investigations. Findings from all the investigations will be used in determining suitability of the site for the proposed development, the project layout and will determine the requirements for further assessments, where relevant.

The objective of the PSI was to assess the environmental conditions with respect to historical and current land uses which may have resulted in land contamination at the site and any requirements for future management.

1.3 Scope of works

SLR was engaged by Cobden BESS to undertake the following works:

- Desktop review of the available current and historic site information, collated by Lotsearch Pty Ltd, pertaining to the site to identify any potentially contaminating land use and/or activities.
- Review of historical aerial photographs and publicly available site imagery (Google Maps and NearMap) to cross-reference the information collected during the desktop assessment and to identify areas of potential environmental concern (APEC).
- Preparation of this PSI report summarising the key findings of site history information, including site description, historical and current land uses, potential contaminating activities at and in vicinity of the site.

A site inspection did not form part of the scope for this PSI.

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2.0 Site Description

A summary of the site identification information is detailed below in **Table 1**. The site location details, and site layout and key site features are presented in attached **Figures 1** and **2 (Appendix A)**, respectively.

Table 1 Site Description

Site Information	Details
Site Address	89 Cobden-Port Campbell Road, Cobden VIC 3266
Title Reference	Lot 1 and 2 of TP863659
Local Government	Corangamite Shire
Current Zoning	Farming (FZ1)
Site Area	Approximately 49.3 ha
Developable Area	Approximately 8.0 ha
Project (BESS) Footprint	Approximately 1.2 ha
Current Occupier	Private owners
Current Land Use	Agriculture
Proposed Future Land Use	BESS operations on portion of the site, with ongoing agricultural use for surrounding lands
Site facilities and key features	The site is currently undeveloped, vacant agricultural grass lands
Summary of surrounding land uses	- North: Agricultural/pastoral lots. - South: Agricultural/pastoral lots. - East: Agricultural/pastoral lots. - West: Cobden-Port Campbell Road, then agricultural/pastoral lots

From the images available on Google Maps and Nearmap, the site and surrounding areas are currently used for agricultural purposes, with an electrical substation situated approximately 950m northwest and two animal feed industrial sites situated approximately 1 to 1.2km north. Further from the site is the Cobden Lime Quarry operation, located approximately 3km southeast of the site. The Cobden town centre is situated approximately 2.5km to the northeast of the site.

Based on topographical information provided within the Lotsearch report (**Appendix B**), the site is noted to be general flat over the western portion, towards Cobden-Port Campbell Road, with the eastern area of the site sloping down to the tributaries to Curdies Creek.

Based on the geological information related to the aquifers and aquitards in the vicinity of the site, provided in the Victorian Department of Environment, Land, Water and Planning



(DELWP) Groundwater Resource Report database (refer **Appendix C**), the site is underlain by Newer Volcanics soils, consisting of weathered basalt in the form of clays, sands and gravels. With the basalt noted to be underlain by Port Campbell Limestones, with Brighton Group sands, silts and gravels in the vicinity of the Curdies Creek tributaries. This is consistent with the geological summary provided in the Lotsearch summary (**Appendix B**). The site and the surrounding areas are classified as having a low probability of occurrence of acid sulfate soils (6-70%).

3.0 Site Use – Historical and Current

A detailed report of 'public domain' information corresponding to the site and surrounding area was obtained from Lotsearch Pty Ltd (provided in **Appendix B**) which includes planning information, historical information, topological maps, historical aerial images and other maps of interest.

Based on the provided aerial photographs, the site layout has been largely unchanged since at least 1946, with the 1946 aerial photograph detailing the site and surrounds to be pasture lands with structures present in the northern area of the wider site, outside of the proposed development footprint area.

Two registered groundwater bores are located within 1km of the site. The nearest bore is located 191m to the north and is used for domestic water supply. This bore, ID 93349, is noted to be 12m deep and completed in 1986. The second bore, ID 93332, is noted to be used for stock use drilled to approximately 27.6m depth and installed in 1974. There are no registered groundwater bores on the site. Total dissolved solid (TDS) concentration in the domestic groundwater bore is approximately 1,653 mg/L, which is within the range for Segment B Groundwater, as defined in the Environment Protection Authority Victoria Environmental Reference Standard (ERS), May 2021. With the applicable environmental values for Segment B groundwater, as per Table 5.3 of the ERS, being the following:

- Water dependent ecosystems and species
- Potable mineral water supply
- Agriculture and Irrigation (Stock Watering and Irrigation)
- Industrial and Commercial Use
- Water-based recreation (primary contact recreation)
- Traditional Owner cultural values
- Buildings and structures
- Geothermal properties

Segment B groundwater is noted to be the general groundwater conditions across the site and surrounding area, with the upper groundwater aquifer noted to be greater than 50m below ground level beneath the site according to the information provided in the Visualising Victoria's Groundwater database. With groundwater depth decreasing to the north and east with the fall of the ground surface and the proximity to the Curdies Creek tributaries.

No records of potentially contaminating land uses for the site or the immediate surrounding area were noted for activities such as:

- Mining
- Defence

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- Landfilling
- Gasworks
- Fuel Storage
- Historical business operations, other than agriculture

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No records of EPA pollution notices, site management orders, groundwater restricted use zones or areas on the EPA priority sites register were noted for the site or within 1km of the site. The general area was assessed as part of Section 53V Environmental Audit, which audited the appropriateness of the Wannon Water Sewerage System Management Plan (GHD, 2015). The Lotsearch report notes that Wannon Water has an EPA A14 Permit (P000046584) for the supply or use of wastewater. A water treatment plant is potentially located approximately 2km west of the site. The use or supply of recycled wastewater to the site is not known but it may have occurred with use of recycled water for pasture irrigation.

The Wannon Water service area, which covers the southwestern corner of Victoria including Cobden, was assessed as part of Section 53V Environmental Audit, which audited the appropriateness of the Wannon Water Sewerage System Management Plan (GHD, 2015). The Lotsearch report notes that Wannon Water has an EPA A14 Permit (P000046584) for the supply or use of wastewater. The use or supply of recycled wastewater to the site is not known but it may have occurred with use of recycled water for pasture irrigation.

No planning overlays or areas of cultural significance were noted to apply to the project footprint development area or the developable area. However, a development and design overlay and an airport environs overlay are noted to be present to the west of the site, related to Cobden airport, located approximately 2km to the northwest of the site.

The site is also designated to be within a Bushfire prone area 1987. The study area has native vegetation with low and high potential groundwater dependent ecosystems noted, however, these are not within the proposed development footprint. The ecological significance of the site will be addressed separately as part of a separate native vegetation assessment of the site.

4.0 Areas of Potential Environmental Concern

The site has been used for agriculture since at least the mid-1940s. Based on the presence of Aboriginal Cultural sensitivity areas on and in the vicinity of the site, prior to being used for western agriculture, the site and surrounding area and prior to that would likely have been vacant lands used by Traditional Owners for activities such as hunting and habitation. Based on the review of the current and historical site usage as agricultural land, there is potential for the use of pesticides, herbicides, fungicides, and fertilisers, also the potential use of recycled wastewater for pasture watering. This may have resulted in residual associated concentrations in soil, and potentially groundwater. This is considered a low risk to the proposed site use for an unmanned BESS facility.

Due to the absence of current or historical structures at the site the potential for septic systems and bulk storage of agricultural chemicals is considered to be low. While no former structures or excavations were noted to have been on the site, due to the long-term use of the site, there is potential for imported material or waste materials to have been brought onto site and potentially buried.

Based on the current earthworks layout plan (**Appendix D**), which is to be finalised, the development footprint will require areas of cut and areas of fill to build the BESS facility, with an excavation depth up to 0.8m below the current surface. It is estimated the excavation will result in a net 60m³ of cut (**Appendix D**). If the final earthworks modelling shows the development works have excess material (larger cut volume), then depending on soil



conditions this material can potentially be left on site and used for general landscaping purposes. Where excavated soils are not able to be reused on site due to excess volume or geotechnical considerations and off-site disposal is to be undertaken, then classification under the EPA Publication 1828.3 (October 2024) *Waste Disposal Categories: Characteristics and Thresholds* will be required. With soil sampling completed in line with EPA Publication 702.2 Soil Sampling for Waste Soils (May 2024). While the potential for the soil to be impacted based on historical site use is considered low, there is the potential for elevated natural compounds to be present within the soils which could exceed the thresholds in the EPA 1828.3 (October 2024). Where the elevated compounds are related to naturally occurring concentrations, then application for waste designation will need to be made with Victoria EPA. It is noted that from time of application Victoria EPA has 42 days to respond, with potential for further information to be requested with the response

While the site review has indicated that the risk of contamination at the site is low, the proposed development should be carried out under a construction environmental management plan (CEMP). The CEMP should include standard OHS management procedures for handling soils and detail an unexpected finds protocol if site excavation works uncover contaminated soils or buried wastes, which could include hazardous materials such as asbestos. Due to the expectation that groundwater at the site is greater than 50m, the proposed development works are not considered likely to interact with regional groundwater beneath the site.

5.0 Conclusions

Based on the proposed use of the site for an unmanned BESS facility, the risks of contamination to be present to a level that impacts the site during the development and operation of the site are considered low.

However, given the agricultural use of the site, the underlying soils may have been impacted from the application of agricultural chemicals, also the potential use of recycled wastewater for pasture watering. This, along with the potential for naturally occurring elevated compounds, could impact the waste classification of the soils in the event of off-site disposal being required. Based on the current earthworks plan (**Appendix D**), the site requires areas of filling that could utilise excavated materials on the site. Where excavated materials were not suitable for reuse or were excess to needs and not able to be reused on the wider site, then offsite disposal classification would be required. In this instance, soil sampling would be required to be completed by a suitable qualified environmental professional. With works undertaken in accordance with EPA Publication 702.2 and classified based on criteria presented in EPA Publication 1828.3 to enable disposal in accordance with EPA Victoria requirements. This could be completed prior to excavation or on stockpiled materials after the completion of the required site earthworks.

Prior to commencement of excavation works, a CEMP should be created for the site to specify the worker occupational health and safety (OHS) and environmental controls related to management of soil interactions, the handling of excavated materials, and the potential unexpected finds.

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Appendix A Figures

Preliminary Site Investigation – Contamination Assessment

Cobden Battery Energy Storage System (BESS)

Cobden BESS Pty Ltd

SLR Project No.: 620.041534.00001

16 January 2025

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FIGURE 1

-  Study Area
-  Developable Area
-  Project Footprint
-  Features of Interest
-  Environmental Audit Overlay (EAO)



 0 200 400 m

Project No.:	620.041534.00001
Date:	16/12/2024
Drawn by:	SL
Scale:	1:12,430
Sheet Size:	@ A4
Projection:	WGS 84

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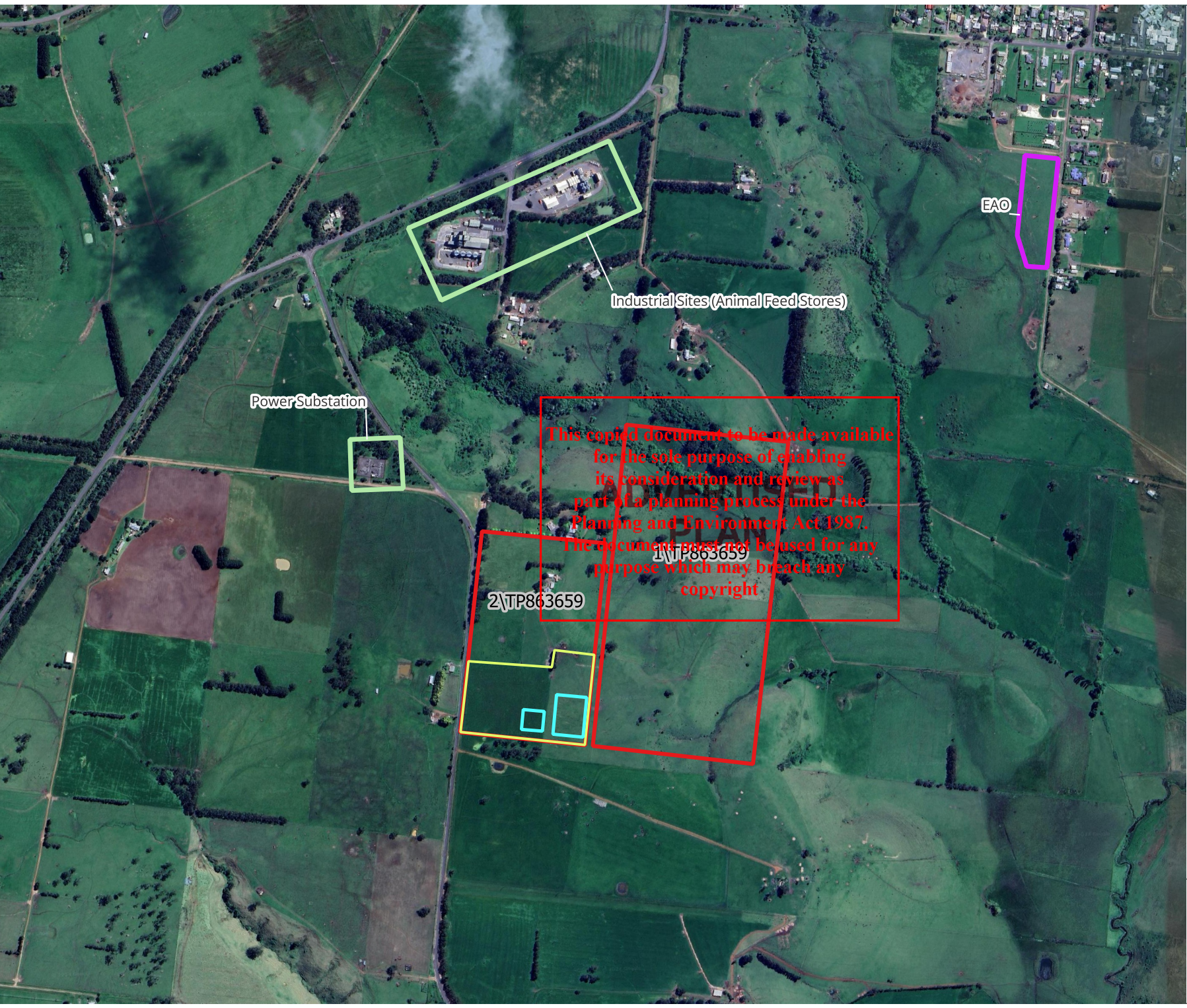
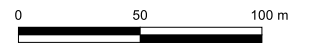


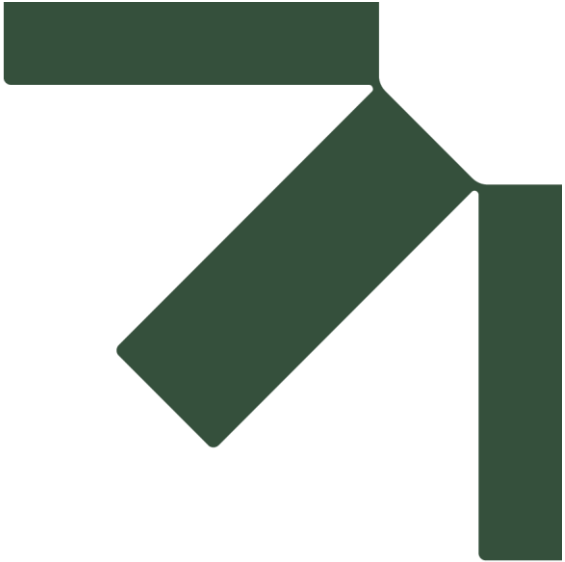
FIGURE 2

-  Project Footprint
-  Developable Area





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Date:	16/12/2024
Drawn by:	SL
Scale:	1:3,107.5
Sheet Size:	@ A4
Projection:	WGS 84



Appendix B Lotsearch Report

Preliminary Site Investigation – Contamination Assessment

Cobden Battery Energy Storage System (BESS)

Cobden BESS Pty Ltd

SLR Project No.: 620.041534.00001

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LOTSEARCH

LOTSEARCH ENVIRO PROFESSIONAL

Date: 25 Nov 2024 13:47:01

Reference: LS067521 EP

Address: 89 Cobden-Port Campbell Road, Cobden, VIC 3266

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.

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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	VIC Department of Energy, Environment and Climate Action	16/10/2024	16/10/2024	Monthly	-	-	-	-
Current EPA Priority Sites	Environment Protection Authority Victoria	21/11/2024	21/11/2024	Weekly	1000m	0	0	0
EPA Site Management Orders	Environment Protection Authority Victoria	18/11/2024	18/11/2024	Monthly	1000m	0	0	0
Former EPA Priority Sites & other Remedial Notices	Environment Protection Authority Victoria	23/10/2023	04/08/2023	Quarterly	1000m	0	0	0
EPA PFAS Site Investigations	Environment Protection Authority Victoria	19/11/2024	30/05/2023	Monthly	2000m	0	0	0
Defence PFAS Investigation & Management Program - Investigation Sites	Australian Department of Defence	28/10/2024	28/10/2024	Monthly	2000m	0	0	0
Defence PFAS Investigation & Management Program - Management Sites	Australian Department of Defence	28/10/2024	28/10/2024	Monthly	2000m	0	0	0
Airservices Australia National PFAS Management Program	Airservices Australia	28/10/2024	28/10/2024	Monthly	2000m	0	0	0
Defence Controlled Areas	Australian Department of Defence	22/10/2024	22/10/2024	Quarterly	2000m	0	0	0
Defence 3 Year Regional Contamination Investigation Program	Australian Department of Defence	18/11/2024	02/09/2022	Quarterly	2000m	0	0	0
National Unexploded Ordnance (UXO)	Australian Department of Defence	22/10/2024	22/10/2024	Quarterly	2000m	0	0	0
EPA Preliminary Risk Screening Assessments	Environment Protection Authority Victoria	18/11/2024	18/11/2024	Monthly	1000m	0	0	0
EPA Environmental Audit Reports	Environment Protection Authority Victoria	18/11/2024	18/11/2024	Monthly	1000m	1	1	1
EPA Groundwater Zones with Restricted Uses	Environment Protection Authority Victoria	30/10/2024	30/10/2024	Monthly	1000m	0	0	0
EPA Register of Permissions	Environment Protection Authority Victoria	23/10/2024	23/10/2024	Monthly	1000m	1	1	1
Legacy EPA Licensed Activities	Environment Protection Authority Victoria	19/07/2022	22/07/2021	Not required	1000m	0	0	0
Legacy EPA Works Approvals	Environment Protection Authority Victoria	13/12/2022	13/12/2022	Monthly	1000m	0	0	0
National Waste Management Facilities Database	Geoscience Australia	29/04/2024	29/11/2022	Annually	1000m	0	0	0
Statewide Waste and Resource Recovery Infrastructure Plan Facilities	Sustainability Victoria	30/04/2024	31/12/2012	None Planned	1000m	0	0	0
Legacy EPA Prescribed Industrial Waste	Environment Protection Authority Victoria	12/08/2020	12/08/2020	Quarterly	1000m	0	0	0
EPA Victorian Landfill Register	Environment Protection Authority Victoria	21/11/2024	15/11/2024	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	16/10/2024	07/09/2020	Annually	1000m	0	0	0
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	-	0	0
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	-	0	0
Features of Interest	VIC Department of Energy, Environment and Climate Action	20/11/2024	20/11/2024	Quarterly	1000m	0	0	6

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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	Geoscience Australia	17/04/2024	19/08/2019	Annually	1000m	1	1	2
Watertable Salinity	VIC Department of Energy, Environment and Climate Action	06/11/2024	13/06/2024	Quarterly	1000m	1	1	1
Depth to Watertable	VIC Department of Energy, Environment and Climate Action	20/09/2024	05/12/2014	Annually	0m	4	-	-
Surface Elevation	Centre for eResearch and Digital Innovation (CeRDI), Federation University	25/06/2024	23/09/2013	Annually	0m	1	-	-
Basement Elevation	VIC Department of Energy, Environment and Climate Action	09/08/2024	23/09/2013	Annually	0m	1	-	-
Groundwater Boreholes WMIS	VIC Department of Energy, Environment and Climate Action	23/04/2024	23/04/2024	Quarterly	2000m	0	0	16
Groundwater Boreholes Earth Resources Database	VIC Department of Jobs, Skills, Industry and Regions	24/01/2024	17/02/2010	Annually	2000m	0	0	5
Groundwater Boreholes Fed Uni	Federation University Australia	21/12/2017	07/01/2014	Annually	2000m	0	0	16
Historical Mining Activity - Shafts	VIC Department of Jobs, Skills, Industry and Regions	10/09/2024	10/09/2024	Annually	1000m	0	0	0
Geological Units 1:50,000	VIC Department of Energy, Environment and Climate Action	18/04/2024	24/06/2014	Annually	1000m	4	4	6
Geological Structures 1:50,000	VIC Department of Energy, Environment and Climate Action	18/04/2024	24/06/2014	Annually	1000m	0	0	0
Dykes and Marker Beds 50k	VIC Department of Energy, Environment and Climate Action	18/04/2024	24/06/2014	Annually	1000m	0	0	0
Shear zones 250k	VIC Department of Energy, Environment and Climate Action	18/04/2024	24/06/2014	Annually	1000m	0	0	0
Atlas of Australian Soils	Australian Bureau of Agricultural and Resource Economics	12/01/2024	17/02/2011	Annually	1000m	1	1	1
Victorian Soil Type Mapping	VIC Department of Jobs, Skills, Industry and Regions	21/05/2024	01/01/2024	Annually	1000m	2	2	3
Atlas of Australian Acid Sulfate Soils	CSIRO	12/01/2024	21/02/2013	Annually	1000m	1	1	1
Coastal Acid Sulfate Soils	VIC Department of Jobs, Skills, Industry and Regions	11/12/2023	11/12/2023	Annually	1000m	0	0	0
Planning Scheme Zones	VIC Department of Energy, Environment and Climate Action	21/11/2024	18/11/2024	Monthly	1000m	1	3	7
Planning Scheme Overlay	VIC Department of Energy, Environment and Climate Action	21/11/2024	20/11/2024	Monthly	1000m	0	1	4
Commonwealth Heritage List	Australian Department of Climate Change, Energy, the Environment and Water	23/10/2024	13/04/2022	Annually	1000m	0	0	0
National Heritage List	Australian Department of Climate Change, Energy, the Environment and Water	23/10/2024	13/04/2022	Annually	1000m	0	0	0
Victorian Heritage Register	VIC Department of Energy, Environment and Climate Action	20/11/2024	20/11/2024	Quarterly	1000m	0	0	0
Cultural Heritage Sensitivity	State Government Victoria - Department of Premier and Cabinet	20/11/2024	20/11/2024	Quarterly	1000m	0	0	2
Bushfire Prone Area	State Government Victoria - Department of Energy, Environment and Climate Action	20/11/2024	10/09/2024	Monthly	1000m	1	1	1
Fire History	State Government Victoria - Department of Energy, Environment and Climate Action	21/11/2024	16/11/2024	Monthly	1000m	0	0	0
Victorian Coastal Inundation Sea Level Rise	VIC Department of Energy, Environment and Climate Action	05/02/2024	18/01/2024	Annually	1000m	0	0	0
Native Vegetation (Modelled 2005 Ecological Vegetation Classes)	VIC Department of Energy, Environment and Climate Action	07/06/2024	07/06/2024	Annually	1000m	1	1	4
Ramsar Wetland Areas in Victoria	VIC Department of Energy, Environment and Climate Action	16/05/2024	11/04/2024	Annually	1000m	0	0	0
Collaborative Australian Protected Areas Database (CAPAD) 2022 - Terrestrial	Australian Department of Climate Change, Energy, The Environment and Water	04/03/2024	30/06/2022	Annually	1000m	0	0	0
Collaborative Australian Protected Areas Database (CAPAD) 2022 - Marine	Australian Department of Climate Change, Energy, The Environment and Water	04/03/2024	30/06/2022	Annually	1000m	0	0	0
Groundwater Dependent Ecosystems Atlas	Bureau of Meteorology	28/05/2024	28/05/2024	Annually	1000m	4	5	7

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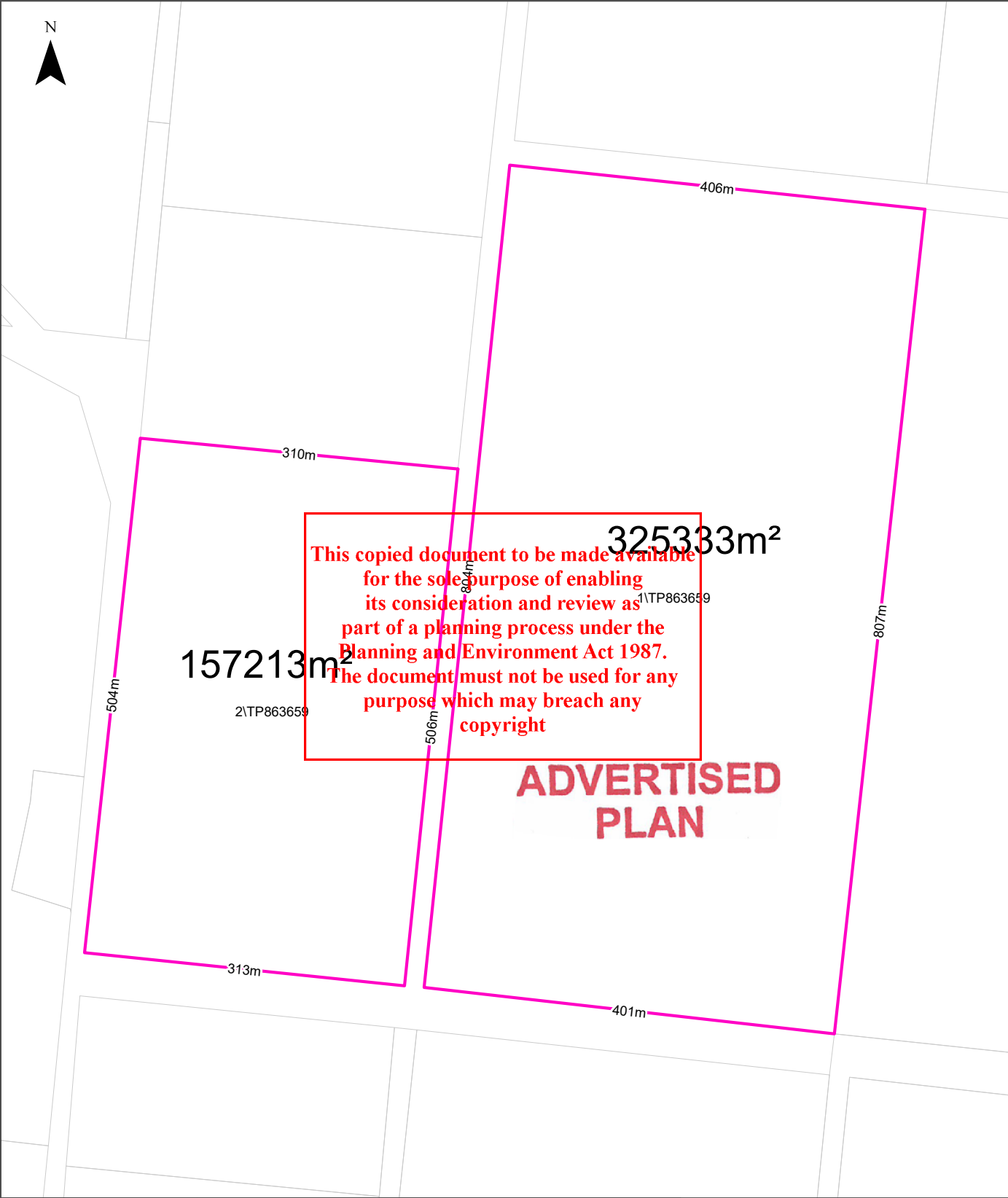
Dataset Name	Custodian	Supply Date	Currency Date	Update Frequency	Dataset Buffer (m)	No. Features On-site	No. Features within 100m	No. Features within Buffer
Inflow Dependent Ecosystems Likelihood	Bureau of Meteorology	28/05/2024	28/05/2024	Annually	1000m	5	9	19

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Site Diagram

89 Cobden-Port Campbell Road, Cobden, VIC 3266



Legend Site Boundary Internal Parcel Boundaries	Total Area: 482545m² Total Perimeter: 4.05km	
	Disclaimers: Measurements are approximate only and may have been simplified or smaller lengths removed for readability. Parcels that make up a small percentage of the total site area have not been labelled for increased legibility.	
	Scale: 0 25 50 100 150 200 250 Meters	Date: 25 November 2024

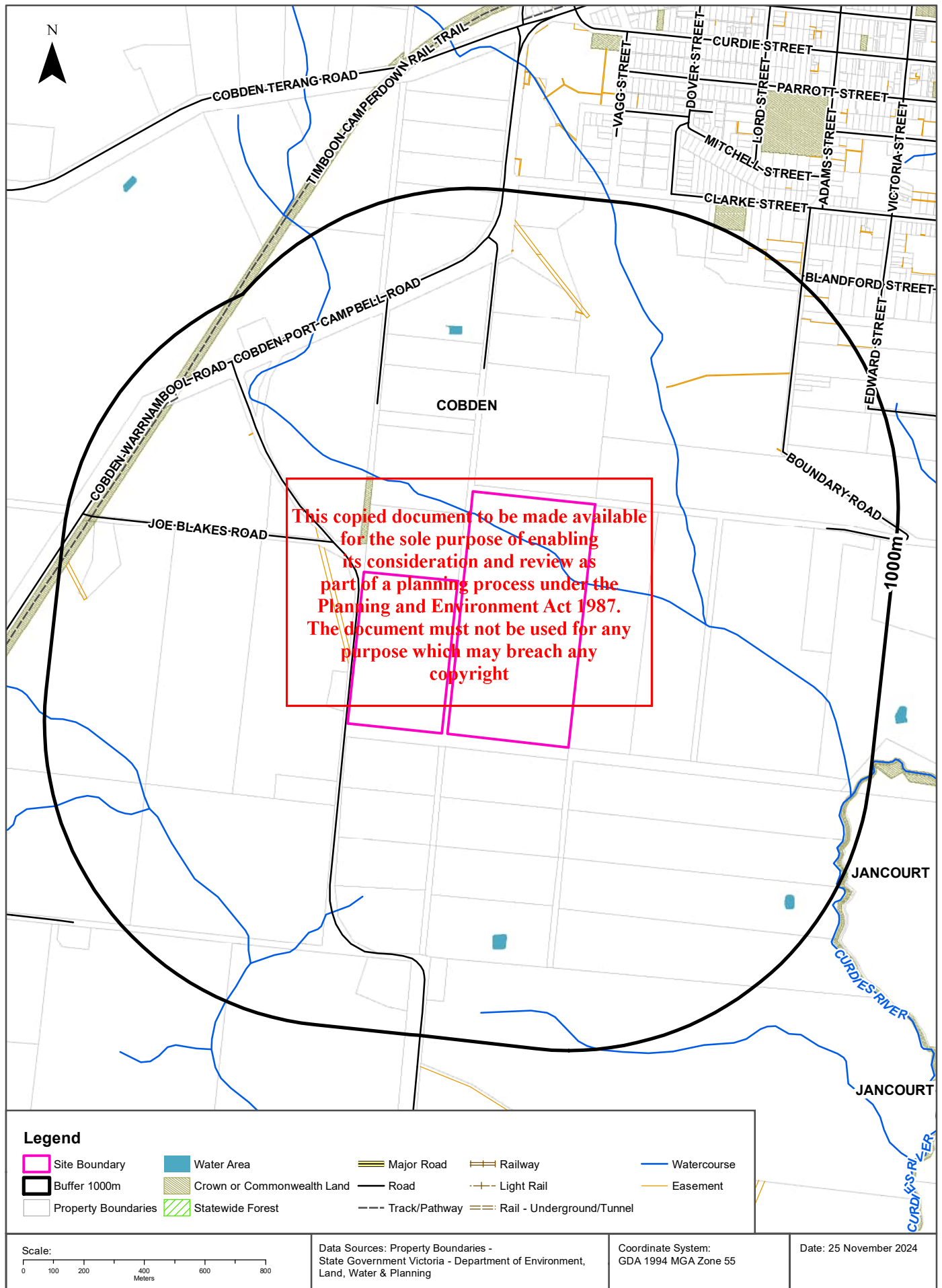
Data Sources: Property Boundaries - State Government Victoria - Department of Environment, Land, Water & Planning

Coordinate System: GDA 1994 MGA Zone 55

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Topographic Data

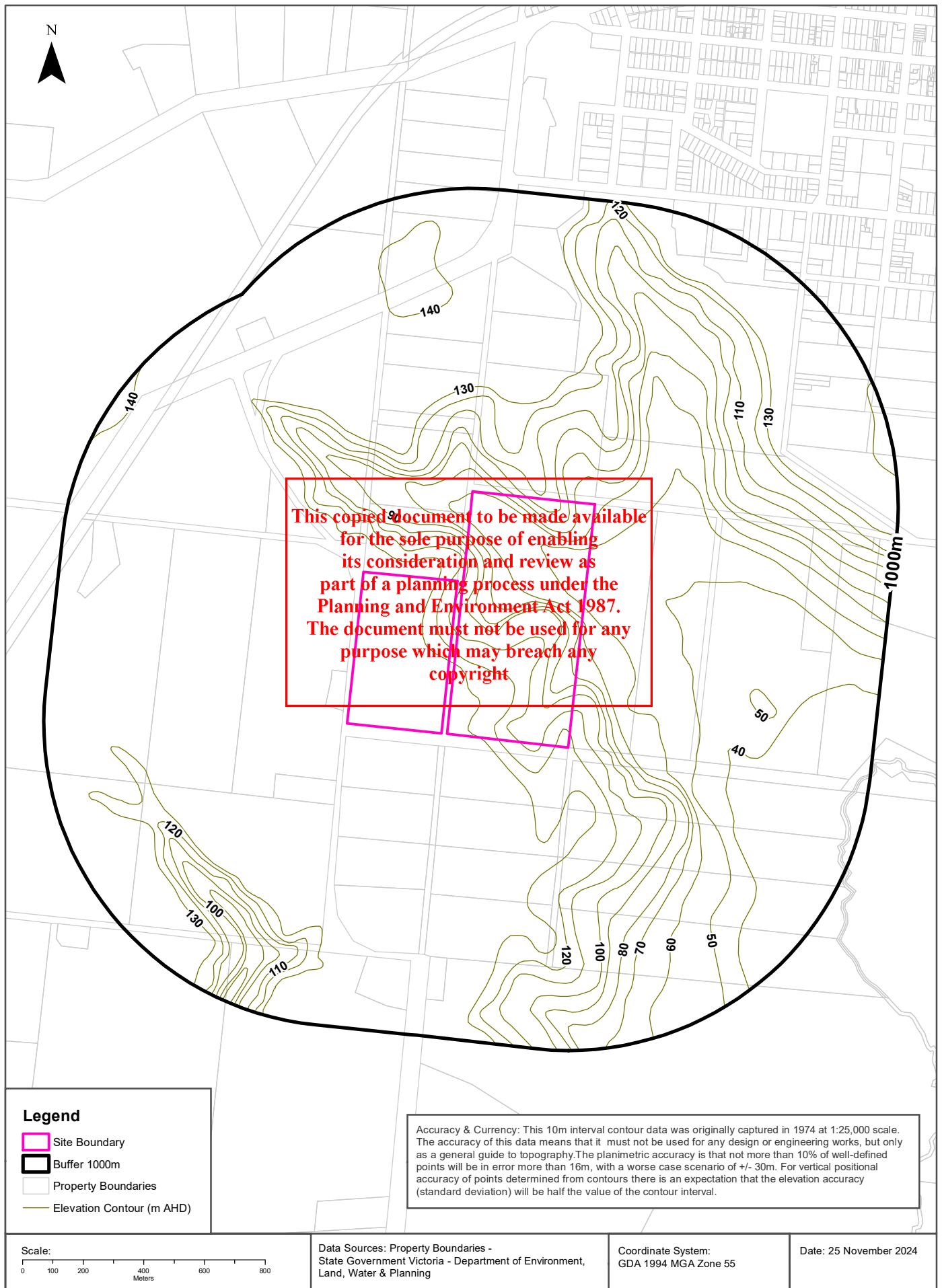
89 Cobden-Port Campbell Road, Cobden, VIC 3266



Elevation Contours (m AHD)

89 Cobden-Port Campbell Road, Cobden, VIC 3266

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EPA Priority Sites, Site Management Orders & Pollution Notices

89 Cobden-Port Campbell Road, Cobden, VIC 3266

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:

Site Management Order ID	Issue Date	Address	Status	Loc Conf	Dist (m)	Direction
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.

Map ID	Notice No	Notice Type	Company	Address	Suburb	Status	Issue	Date Issued	Loc Conf	Dist	Dir
N/A	No records in buffer										

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

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PFAS Investigation & Management Programs

89 Cobden-Port Campbell Road, Cobden, VIC 3266

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

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Defence Sites and Unexploded Ordnance

89 Cobden-Port Campbell Road, Cobden, VIC 3266

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

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Legend

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

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Scale:
0 100 200 400 600 800
Meters

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

Coordinate System:
GDA 1994 MGA Zone 55

Date: 25 November 2024

EPA Records

89 Cobden-Port Campbell Road, Cobden, VIC 3266

EPA Preliminary Risk Screen Assessments

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

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

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

EPA Environmental Audits

EPA environmental audit records that exist within the dataset buffer:

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

Map ID	Transaction No	CARMS No	Site	Address	Suburb	Date Complete	Audit Category	Loc Conf	Dist	Dir
1	0008004774	73807-1	WANNON WATER	WANNON WATER	WARRNAMBOOL	21/12/2015 12:00:00 AM	53V No audit recommendations	Area Match	0m	On-site

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

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EPA Records

89 Cobden-Port Campbell Road, Cobden, VIC 3266

EPA Groundwater Zones with Restricted Uses (GQRUZ)

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

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

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

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EPA Activities - Register of Permissions

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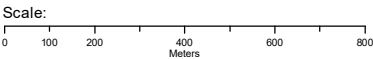


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Legend

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

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

Coordinate System: GDA 1994 MGA Zone 55

Date: 25 November 2024

EPA Activities

89 Cobden-Port Campbell Road, Cobden, VIC 3266

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
	P000046584	Permit	A14 (Wastewater supply or use)	Cobden VIC 3266 AU	Active	29/01/2013	31/12/9999		Suburb Match		

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

89 Cobden-Port Campbell Road, Cobden, VIC 3266

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
N/A	No records in buffer									

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)

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Waste Management Facilities and Landfills

89 Cobden-Port Campbell Road, Cobden, VIC 3266

National Waste Management Facilities Database

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

Map ID	Owner	Name	Address	Management Type	Facility Type	Status	Loc Conf	Dist	Dir
N/A	No records in buffer								

Source: Waste Management Facilities Database
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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)

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Waste Management Facilities & Landfills

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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)

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Former Gasworks and Liquid Fuel Facilities

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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
N/A	No records in buffer										

Source: Waste Management Facilities Database

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Historical Business Directories

89 Cobden-Port Campbell Road, Cobden, VIC 3266

Business Directory Records 1905-1991 Premise or Road Intersection Matches

Potentially contaminative business activities extracted from Universal Business Directory and Sands & McDougall Directory records, from years 1991, 1980, 1970, 1960, 1950, 1945, 1925 & 1905, mapped to a premise or road intersection within the dataset buffer:

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

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Business Directory Records 1905-1991

Road or Area Matches

Potentially contaminative business activities extracted from Universal Business Directory and Sands & McDougall Directory records, from years 1991, 1980, 1970, 1960, 1950, 1945, 1925 & 1905, mapped to a road or an area, within the dataset buffer. Records are mapped to the road when a building number is not supplied, cannot be found, or the road has been renumbered since the directory was published:

Map Id	Business Activity	Premise	Ref No.	Year	Location Confidence	Distance to Road Corridor or Area
N/A	No records in buffer					

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Historical Business Directories

89 Cobden-Port Campbell Road, Cobden, VIC 3266

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
N/A	No records in buffer					

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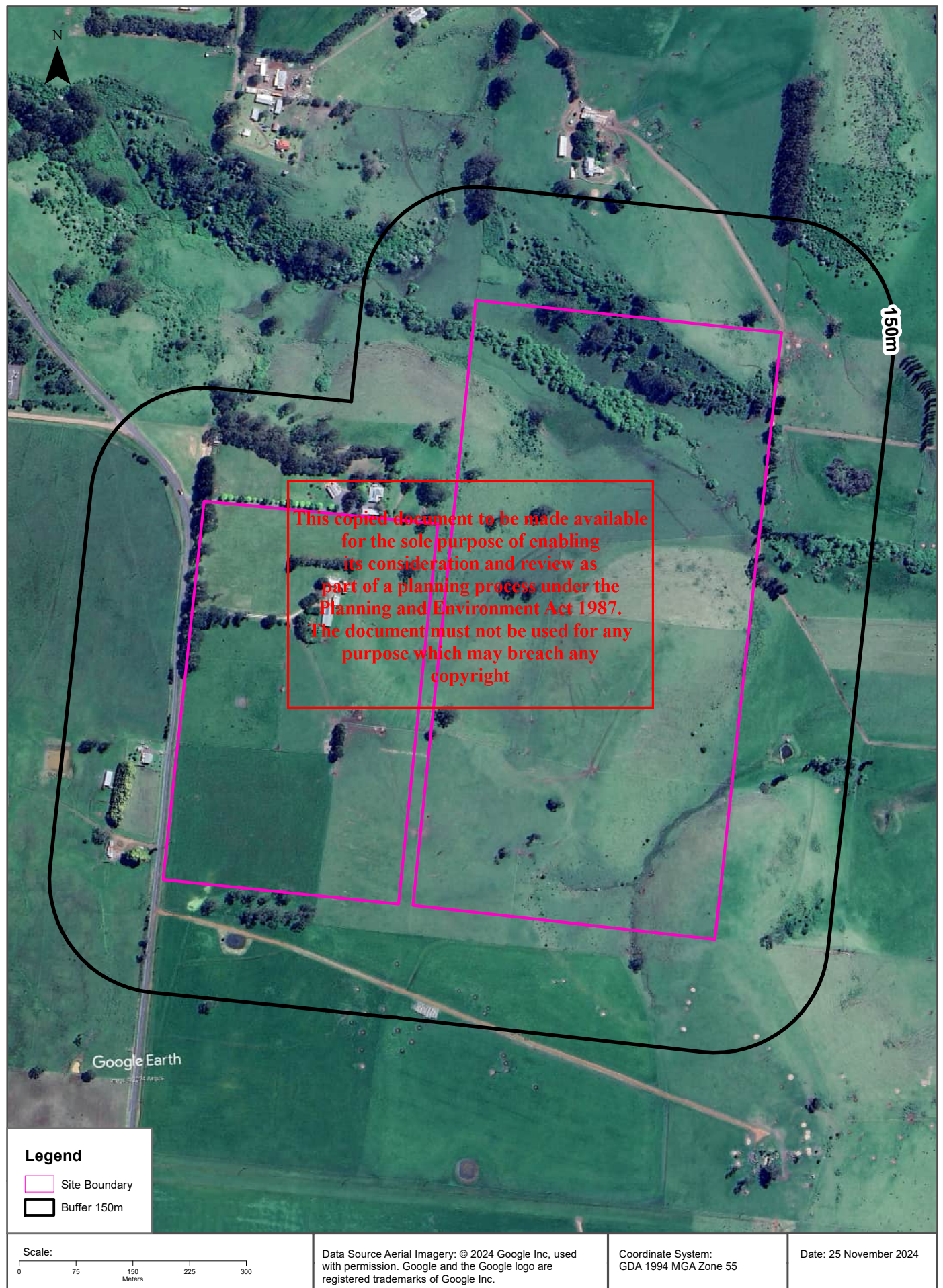
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Aerial Imagery 2023

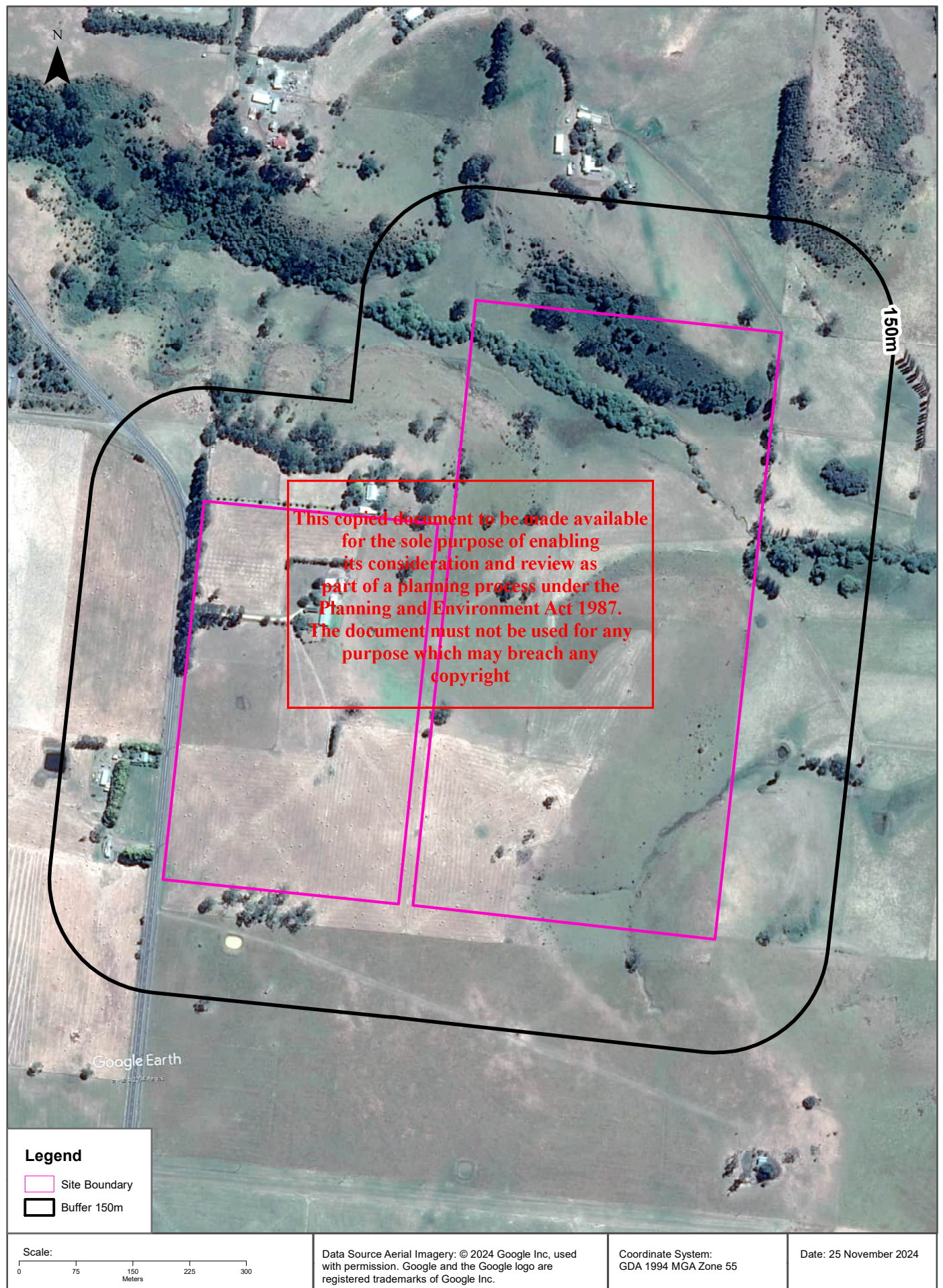
89 Cobden-Port Campbell Road, Cobden, VIC 3266



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Aerial Imagery 2014

89 Cobden-Port Campbell Road, Cobden, VIC 3266



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Aerial Imagery 2002

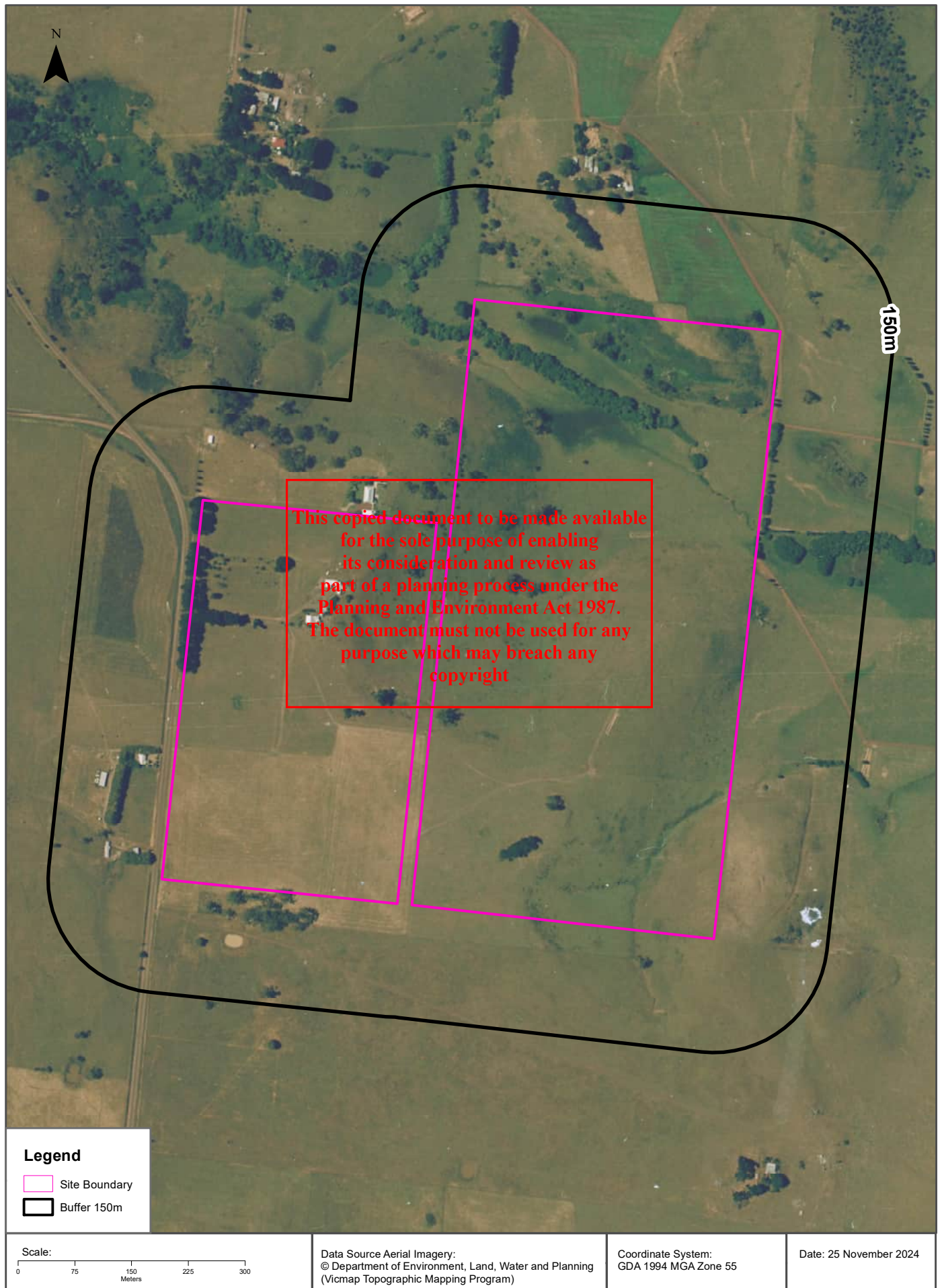
89 Cobden-Port Campbell Road, Cobden, VIC 3266



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Aerial Imagery 1990

89 Cobden-Port Campbell Road, Cobden, VIC 3266



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Aerial Imagery 1983

89 Cobden-Port Campbell Road, Cobden, VIC 3266



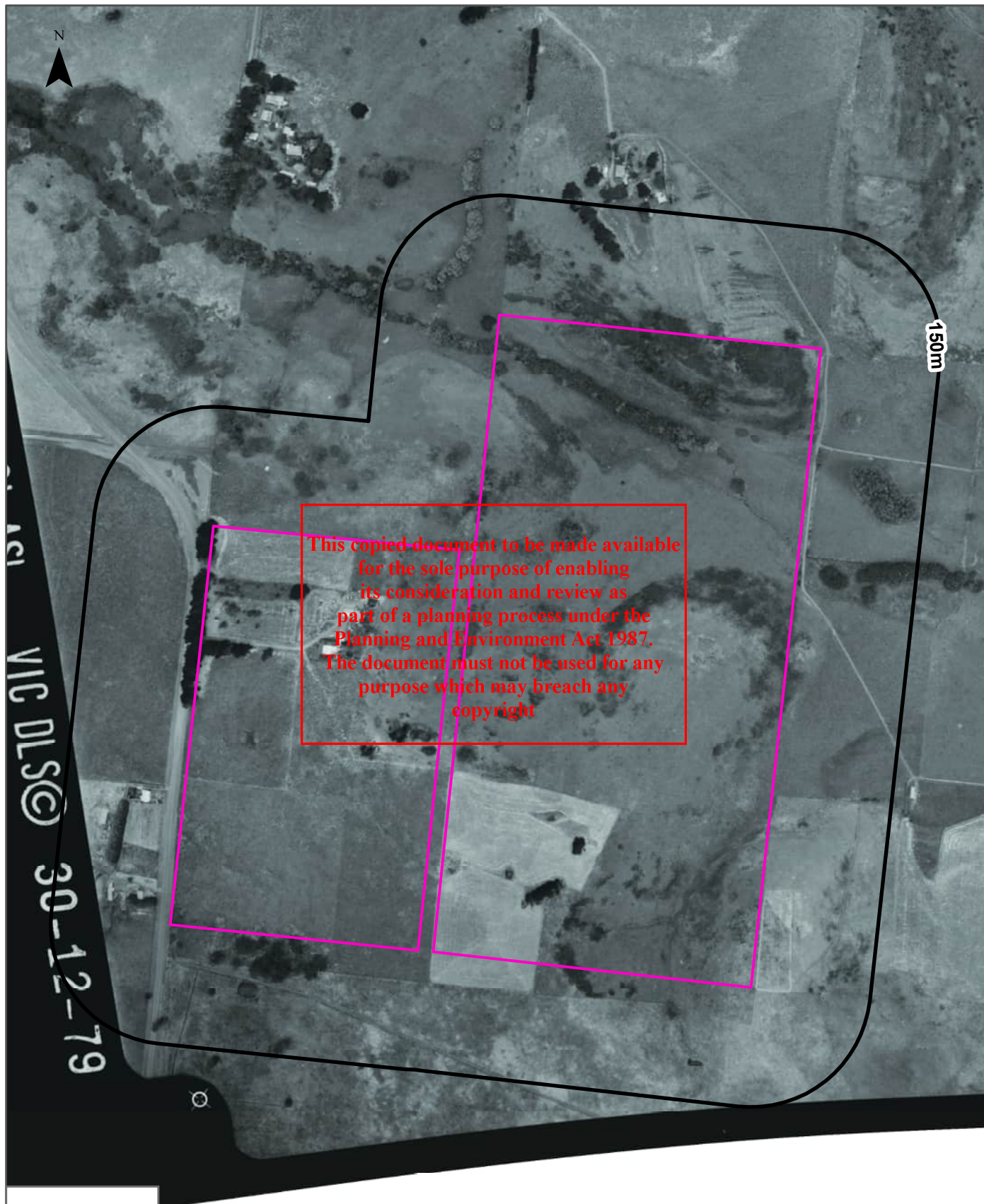
Aerial Imagery 1979

89 Cobden-Port Campbell Road, Cobden, VIC 3266



Aerial Imagery 1979

89 Cobden-Port Campbell Road, Cobden, VIC 3266

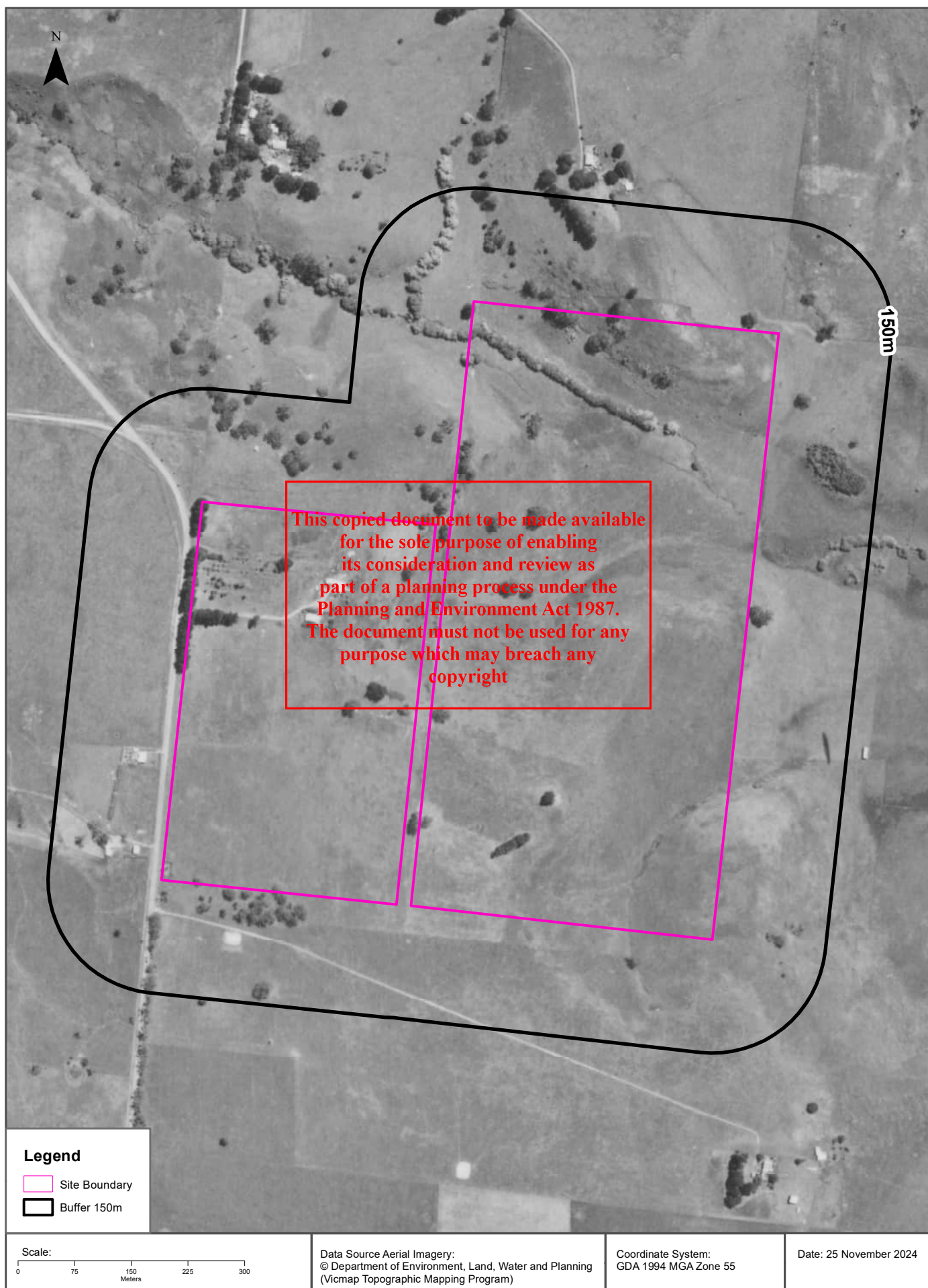


Legend Site Boundary Buffer 150m		ADVERTISED PLAN	
Scale: 0 75 150 225 300 Meters	Data Source Aerial Imagery: © Department of Environment, Land, Water and Planning (Vicmap Topographic Mapping Program)	Coordinate System: GDA 1994 MGA Zone 55	Date: 25 November 2024

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Aerial Imagery 1970

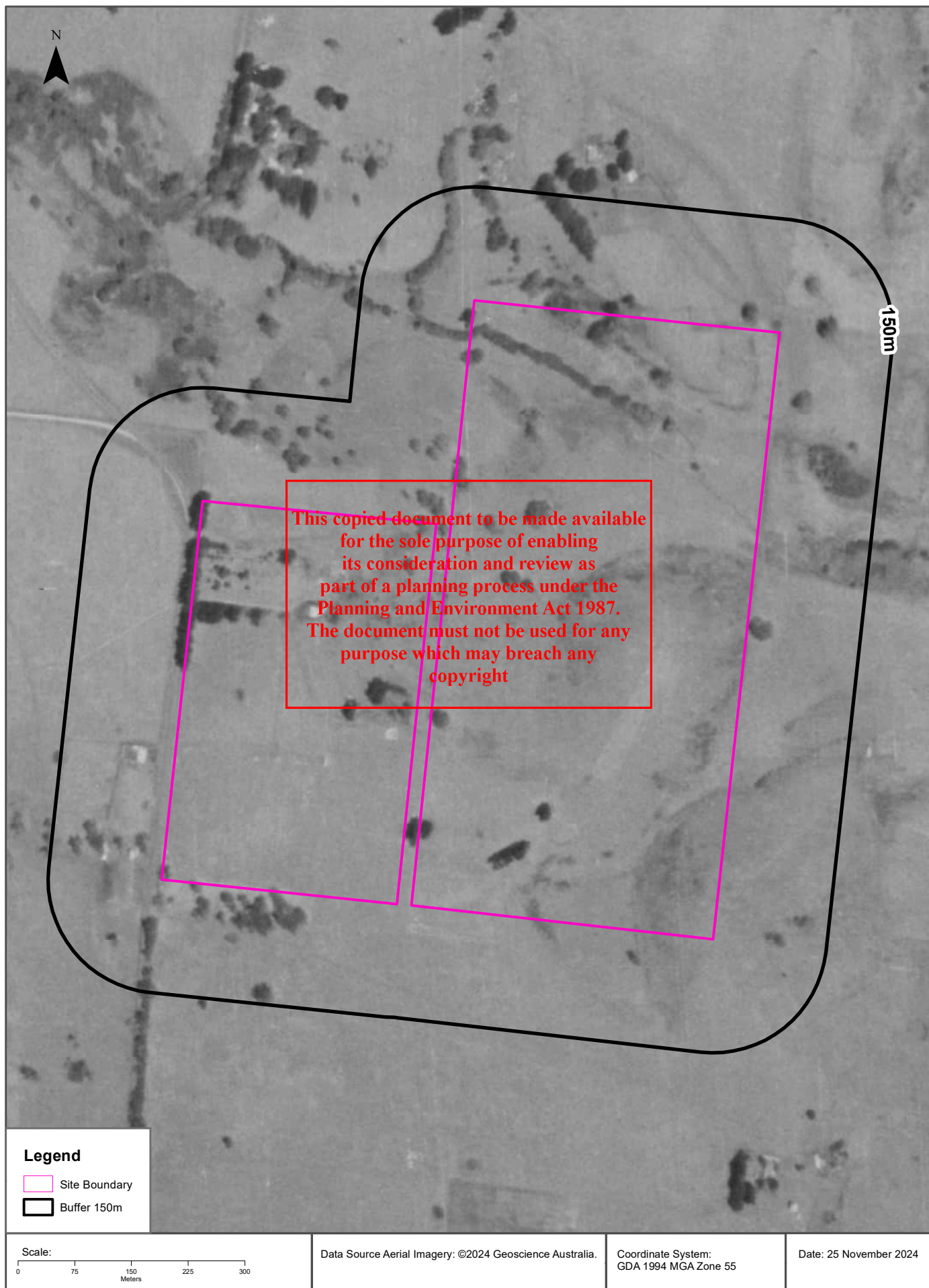
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Aerial Imagery 1966

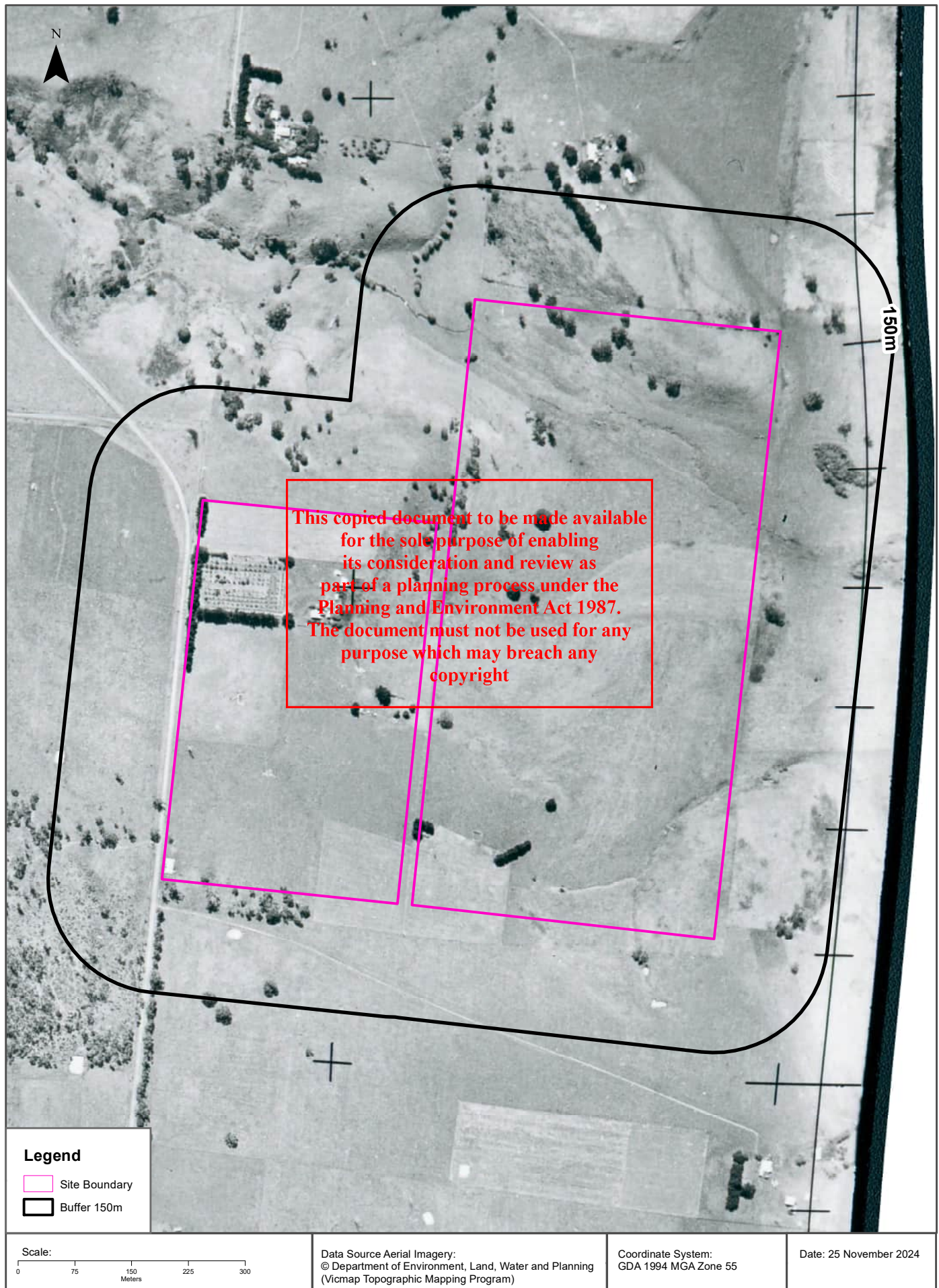
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Aerial Imagery 1946

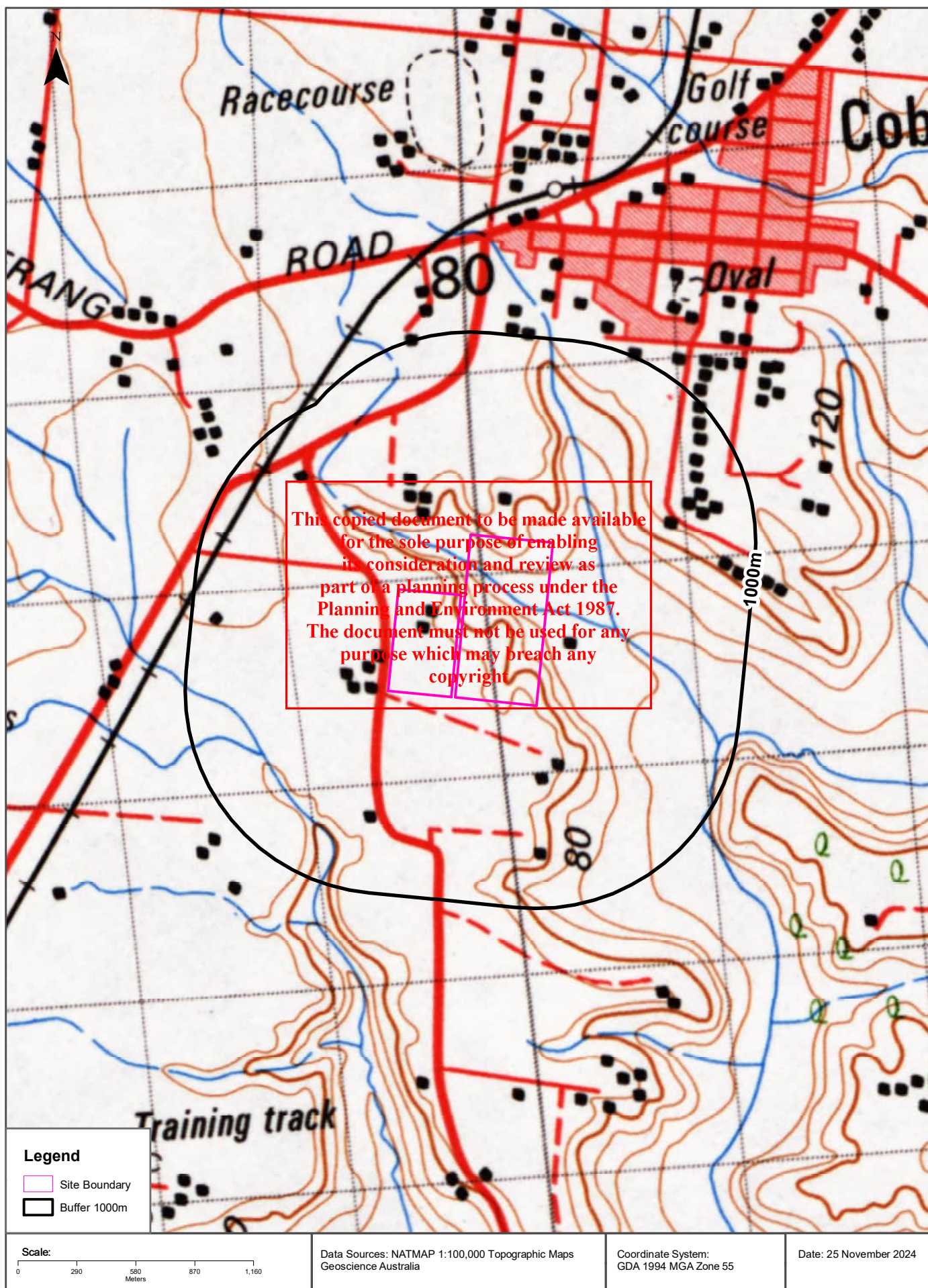
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Historical Map 1977

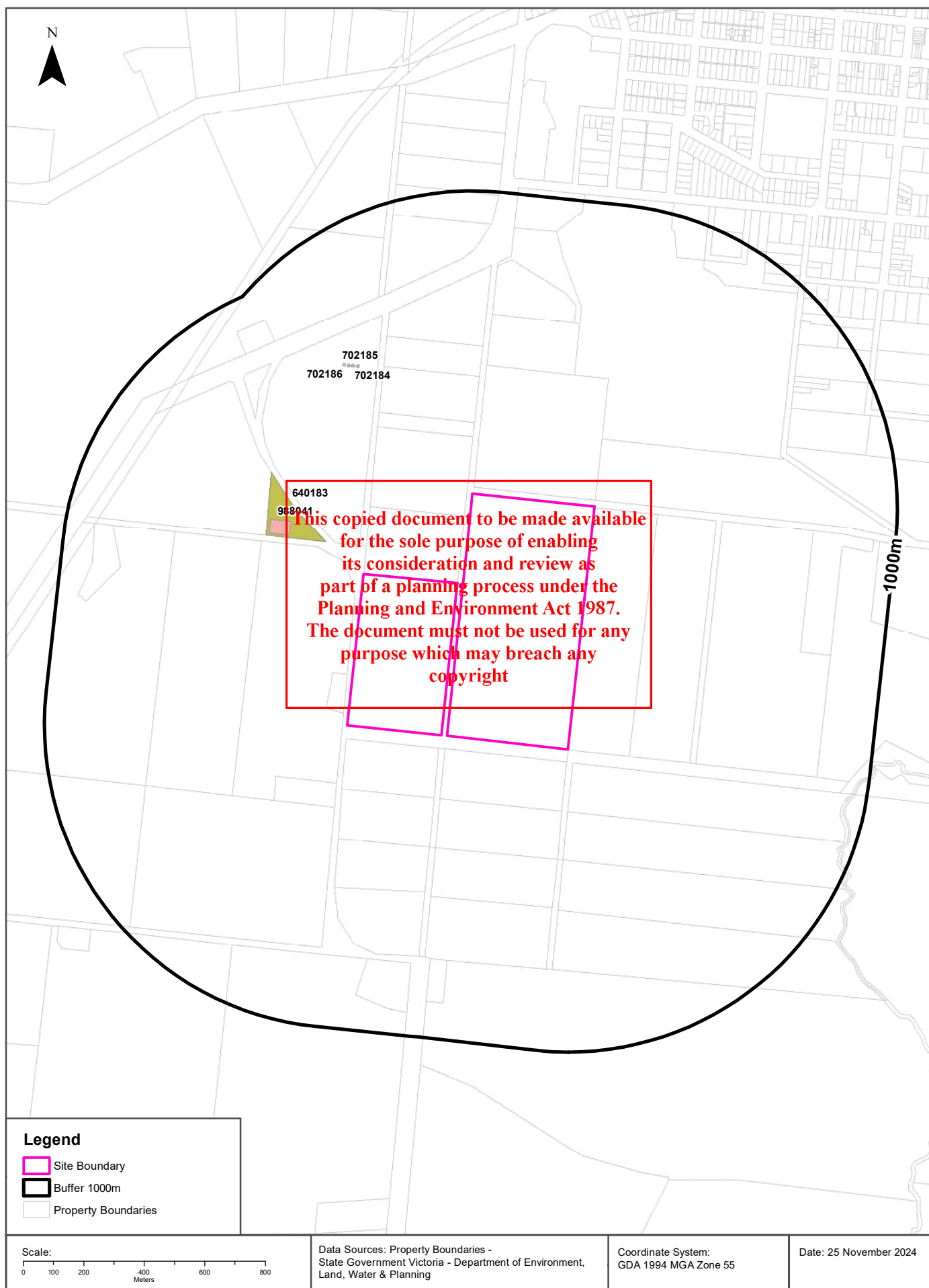
89 Cobden-Port Campbell Road, Cobden, VIC 3266



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Features of Interest

89 Cobden-Port Campbell Road, Cobden, VIC 3266



Features of Interest

89 Cobden-Port Campbell Road, Cobden, VIC 3266

Features of Interest

Features of Interest within the dataset buffer:

Feature Id	Feature Type	Feature Sub Type	Name	Distance	Direction
640183	reserve	park		165m	North West
988041	power facility	power sub station		278m	North West
702183	storage facility	silo		562m	North West
702184	storage facility	silo		574m	North West
702185	storage facility	silo		586m	North West
702186	storage facility	silo		597m	North West

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

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Legend

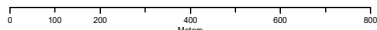
- Site Boundary
- Buffer 1000m
- Property Boundaries

Groundwater Segment (TDS mg/L)

- | | |
|-----------------|------------------|
| A1 (0-600) | D (5401 - 7100) |
| A2 (601-1200) | E (7101 - 10000) |
| B (1201-3100) | F (>10000) |
| C (3101 - 5400) | |

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Scale:



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

Coordinate System:
GDA 1994 MGA Zone 55

Date: 25 November 2024

Hydrogeology & Groundwater

89 Cobden-Port Campbell Road, Cobden, VIC 3266

Hydrogeology

Description of aquifers within the dataset buffer:

Description	Dist(m)	Dir
Porous, extensive aquifers of low to moderate productivity	0	On-site
Fractured or fissured, extensive aquifers of low to moderate productivity	711	West

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

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Watertable Salinity

Watertable Salinity concentrations within the dataset buffer:

Groundwater Segment	Total Dissolved Solids (mg/L)	Dist(m)	Dir
B	1201 - 3100	0	On-site

Source: Watertable Salinity

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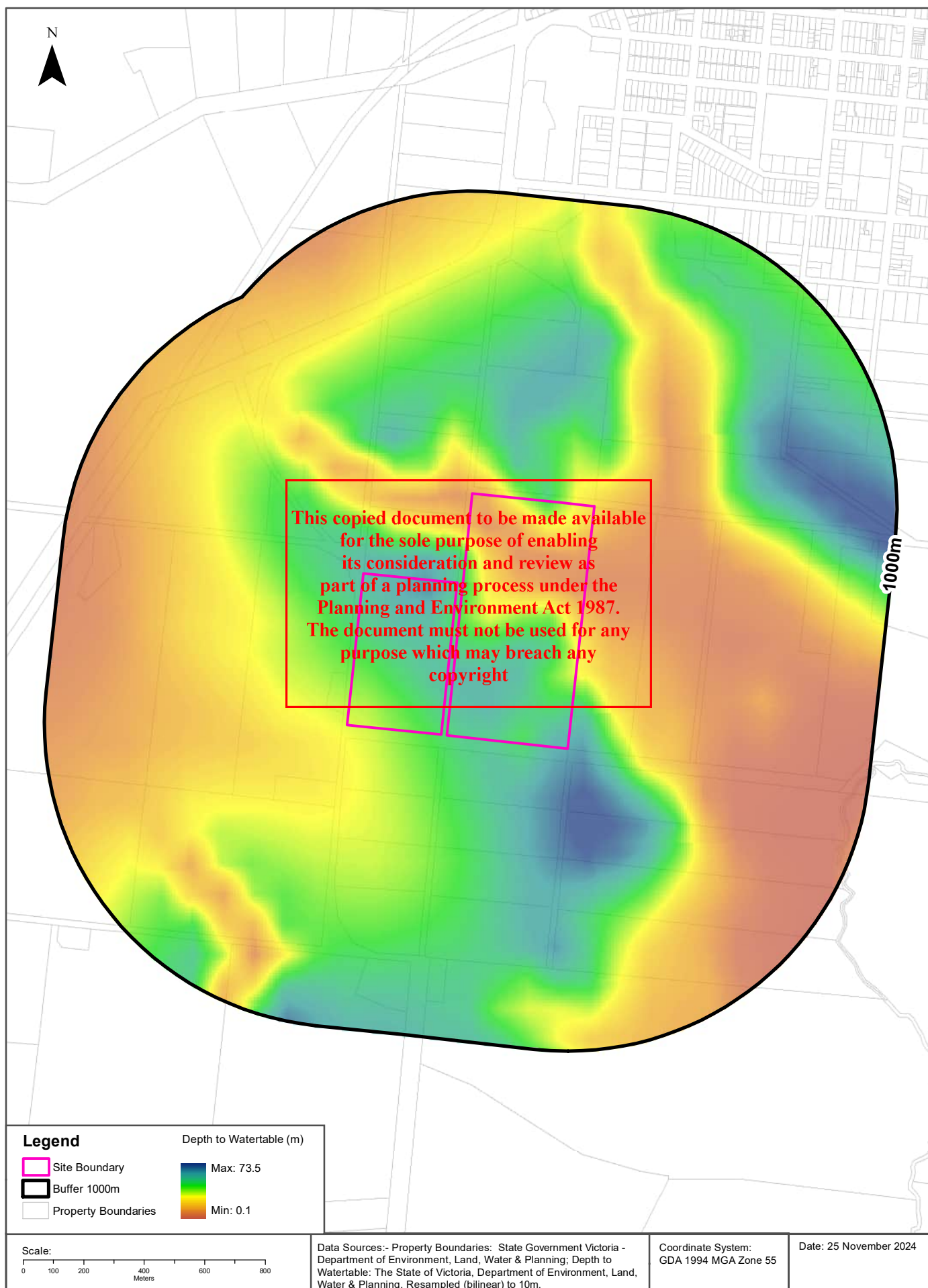
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Depth to Watertable

89 Cobden-Port Campbell Road, Cobden, VIC 3266



Hydrogeology & Groundwater

89 Cobden-Port Campbell Road, Cobden, VIC 3266

Depth to Watertable

On-site Depth to Watertable:

Depth to Watertable	Percent Of Site Area
20 to 50 metres	53
Greater than 50 metres	29
5 to 10 metres	9
10 to 20 metres	8

Surface Elevation

Approximate on-site Surface Elevation:

Surface Elevation
55 AHDm to 136 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
-496 AHDm to -474 AHDm

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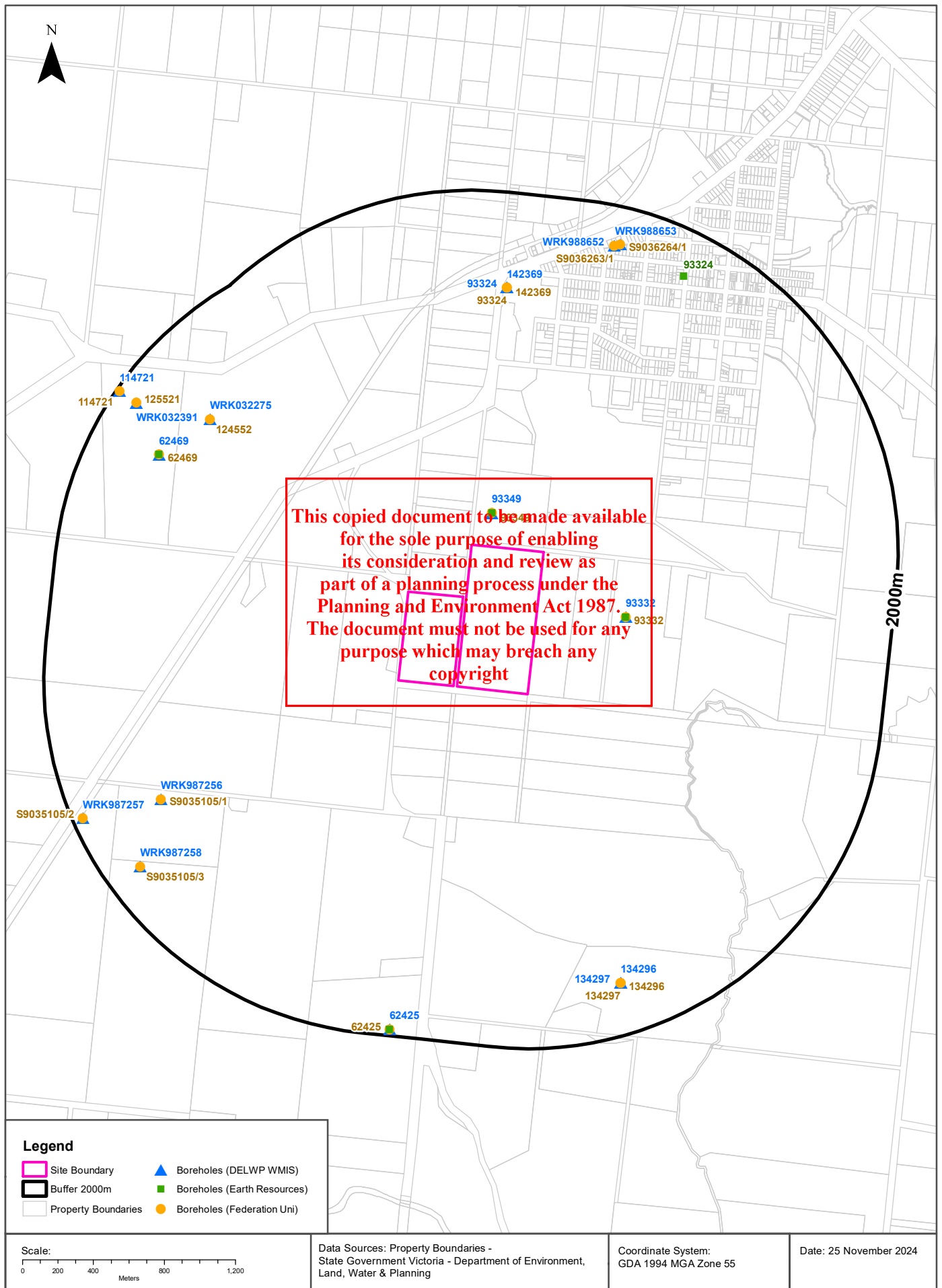
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Groundwater Boreholes

89 Cobden-Port Campbell Road, Cobden, VIC 3266

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Groundwater Boreholes

89 Cobden-Port Campbell Road, Cobden, VIC 3266

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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
93349	Domestic	0.00m-0.50m TOP SOIL 0.50m-5.50m WHITE CLAY 5.50m-12.00m LIMESTONE	0.00m-6.00m INNER LINING - CASING = Pvc 6.00m-12.00m INNER LINING - SCREEN = Pvc		6.00m-12.00m Limestone	11/03/1986	191m	North
93332	Stock	0.00m-2.44m CLAY 2.44m-8.23m SANDSTONE 8.23m-27.43m ROCK	0.00m-9.45m INNER LINING - CASING = Not Known 18.28m-27.43m INNER LINING - SCREEN = Not Known		18.28m-27.43m	11/03/1974	501m	East
142369	Miscellaneous	0.00m-6.00m CLAY 6.00m-20.00m BASALT 20.00m-22.00m CLAY 22.00m-30.00m BASALT 30.00m-38.00m CLAY MARLE				03/11/1998	1464m	North
93324	Not Known					31/12/1962	1464m	North
WRK032275	Dairy, Stock					01/01/1800	1481m	North West
WRK987256	Groundwater Investigation	0.00m-5.00m topsoil 5.00m-10.00m sandy clay 10.00m-14.00m clayey sand	0.00m-5.00m INNER LINING - CASING = Pvc 5.00m-14.00m INNER LINING - SCREEN = Pvc Class 18 0.00m-3.50m OUTER LINING - CASING = Cement 3.50m-4.50m OUTER LINING - CASING = Cement 4.50m-14.00m OUTER LINING - SCREEN = Steel			25/07/2008	1497m	South West
62469	Not Known	0.00m-0.50m BLACK TOPSOIL 0.50m-29.00m BLACK PEAT				25/02/1983	1604m	North West
134296	Stock	0.00m-36.58m CLAY 36.58m-50.29m MARLE				27/11/1997	1709m	South
134297	Stock	0.00m-1.23m CLAY 1.23m-11.84m ROCK 11.84m-21.03m CLAY 21.03m-23.17m GRAVEL 23.17m-24.38m MARLE	0.00m-13.10m INNER LINING - CASING = Steel 0.00m-23.47m INNER LINING - CASING = Steel 21.03m-23.47m INNER LINING - SCREEN = Steel			05/12/1997	1709m	South
WRK988652							1777m	North
WRK988653							1790m	North
WRK987258							1795m	South West
WRK032391	Irrigation, Stock	0.00m-4.82m BROWN CLAY 4.82m-10.62m BROWN STONE 10.62m-54.86m BASALT WITH LAYERS OF VOLCANIC ROCK 54.86m-58.52m BROWN CLAY 58.52m-60.34m YELLOW CLAY 60.34m-72.49m ROTTEN LIMESTONE 72.49m-74.67m GREY MARLE	-0.30m-10.62m INNER LINING - CASING = Steel 10.62m-74.67m INNER LINING - SCREEN = Steel			22/03/1995	1868m	North West
WRK987257							1943m	South West
62425	Groundwater Investigation					31/12/1966	1963m	South
114721	Stock	0.00m-5.43m BROWN CLAY 5.43m-14.62m BROWN STONE 14.62m-24.38m BASALT	-0.30m-17.06m INNER LINING - CASING = Pvc Class 9 17.06m-24.38m INNER LINING - SCREEN = Pvc Class 9			10/12/1992	1982m	North West

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

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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
93349		Private Individual/Corporation	Domestic water supply	Percussion (cable)		11/03/1986	12.00		100	191m	North
93332		Private Individual/Corporation	Stock/Poultry water supply			18/03/1974	27.45		300	499m	East
62469		Private Individual/Corporation		Rotary (diamond/drag bit)	Abandoned	25/02/1983	29.00		100	1606m	North West
93324		Private Individual/Corporation	Industrial/commercial water			31/12/1962	27.43		300	1749m	North East
62425		Department of Manufacturing & Industry Development	Groundwater Investigation			31/12/1966	917.45		300	1962m	South

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
93349	Private Landholders Bore	Groundwater	Domestic	1653.70	D: 0.000m-0.500m Top Soil D: 0.500m-5.500m White Clay D: 5.500m-12.000m Limestone	191m	North
93332	Private Landholders Bore	Groundwater	Stock	3208.00	D: 0.000m-2.440m Clay D: 2.440m-8.230m Sandstone D: 8.230m-27.430m Rock	501m	East
142369		Groundwater	Miscellaneous		D: 0.000m-6.000m Clay D: 6.000m-20.000m Basalt D: 20.000m-22.000m Clay D: 22.000m-30.000m Basalt D: 30.000m-38.000m Clay Marle	1464m	North
93324	Private Landholders Bore	Groundwater		2240.00		1464m	North
124552	Private Landholders Bore	Groundwater	Stock Dairy			1481m	North West
S9035105/1		Groundwater	Groundwater Investigation		D: 0.000m-5.000m Topsoil D: 5.000m-10.000m Sandy Clay D: 10.000m-14.000m Clayey Sand	1497m	South West
62469	Private Landholders Bore	Groundwater			D: 0.000m-0.500m Black Topsoil D: 0.500m-29.000m Black Peat	1604m	North West
134296		Groundwater	Stock		D: 0.000m-36.580m Clay D: 36.580m-50.290m Marle	1709m	South
134297		Groundwater	Stock		D: 0.000m-1.230m Clay D: 1.230m-11.840m Rock D: 11.840m-21.030m Clay D: 21.030m-23.170m Gravel D: 23.170m-24.380m Marle	1709m	South

Bore Id	Authority	Type	Uses	Initial TD	Log	Dist (m)	Dir
S9036263/1		Groundwater				1776 m	North
S9036264/1		Groundwater				1790 m	North
S9035105/3		Groundwater				1795 m	South West
125521	Private Landholders Bore	Groundwater	Stock Irrigation		D: 0.000m-4.820m Brown Clay D: 4.820m-10.620m Brown Stone D: 10.620m-54.860m Basalt With Layers Of Volcanic Rock D: 54.860m-58.520m Brown Clay D: 58.520m-60.340m Yellow Clay D: 60.340m-72.490m Rotten Limestone D: 72.490m-74.670m Grey Marle	1868 m	North West
S9035105/2		Groundwater				1943 m	South West
62425	Department of Mines (1860 - 1895)	Groundwater	Investigation		G: 0.000m-0.305m Surface Soil G: 0.305m-1.829m Yellowish Clay G: 1.829m-8.534m Conglomeration Of Decomposed Rock And Clays G: 8.534m-20.726m Decomposed Brownish Volcanic Rock G: 20.726m-35.662m Limestone G: 35.662m-77.724m Grey Marl G: 77.724m-95.403m Limestone G: 95.403m-110.643m Marl G: 110.643m-142.037m Fossilized Marl G: 142.037m-224.638m Very Soft Marl G: 224.638m-298.400m Grey Marl G: 298.400m-390.450m Marl (Fossiliferous) G: 390.450m-393.498m Fossilized Marl G: 393.498m-395.022m Sandstone With Marly Bands G: 395.022m-399.289m Hard To Very Hard Bands Of Marl And Sandstone G: 399.289m-405.690m Mudstone With Hard Bands G: 405.690m-441.046m Gritty Fossiliferous Mudstone With Hard And Soft Bands G: 441.046m-456.591m Carbonaceous Silted Clay G: 456.591m-463.297m Silty Marl G: 463.297m-463.602m Hard Bands G: 463.602m-470.003m Medium Grain Sand G: 470.003m-470.612m Hard Bands G: 470.612m-512.675m Medium Grain Sand G: 512.675m-559.004m Silted Marl And Fine Sand G: 559.004m-567.234m Silty Brown Clay G: 567.234m-589.484m Brown Medium Grained Clayey Sands With Small Medium Hard Bands G: 589.484m-607.772m Sandy Clayey Siltstone G: 607.772m-623.622m Medium Grained Sand G: 623.622m-697.384m Soft Sandy Mudstone With Small Bands Of Sandstone G: 697.384m-712.929m Jurassic Sandstone G: 712.929m-783.338m Silty Sandstone G: 783.338m-796.139m Jurassic Sandstone	1963 m	South
114721		Groundwater	Stock		D: 0.000m-5.430m Brown Clay D: 5.430m-14.620m Brown Stone D: 14.620m-24.380m Basalt	1982 m	North West

Boreholes FedUni Data Source: © Federation University Australia

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Historical Mining Activity - Shafts

89 Cobden-Port Campbell Road, Cobden, VIC 3266

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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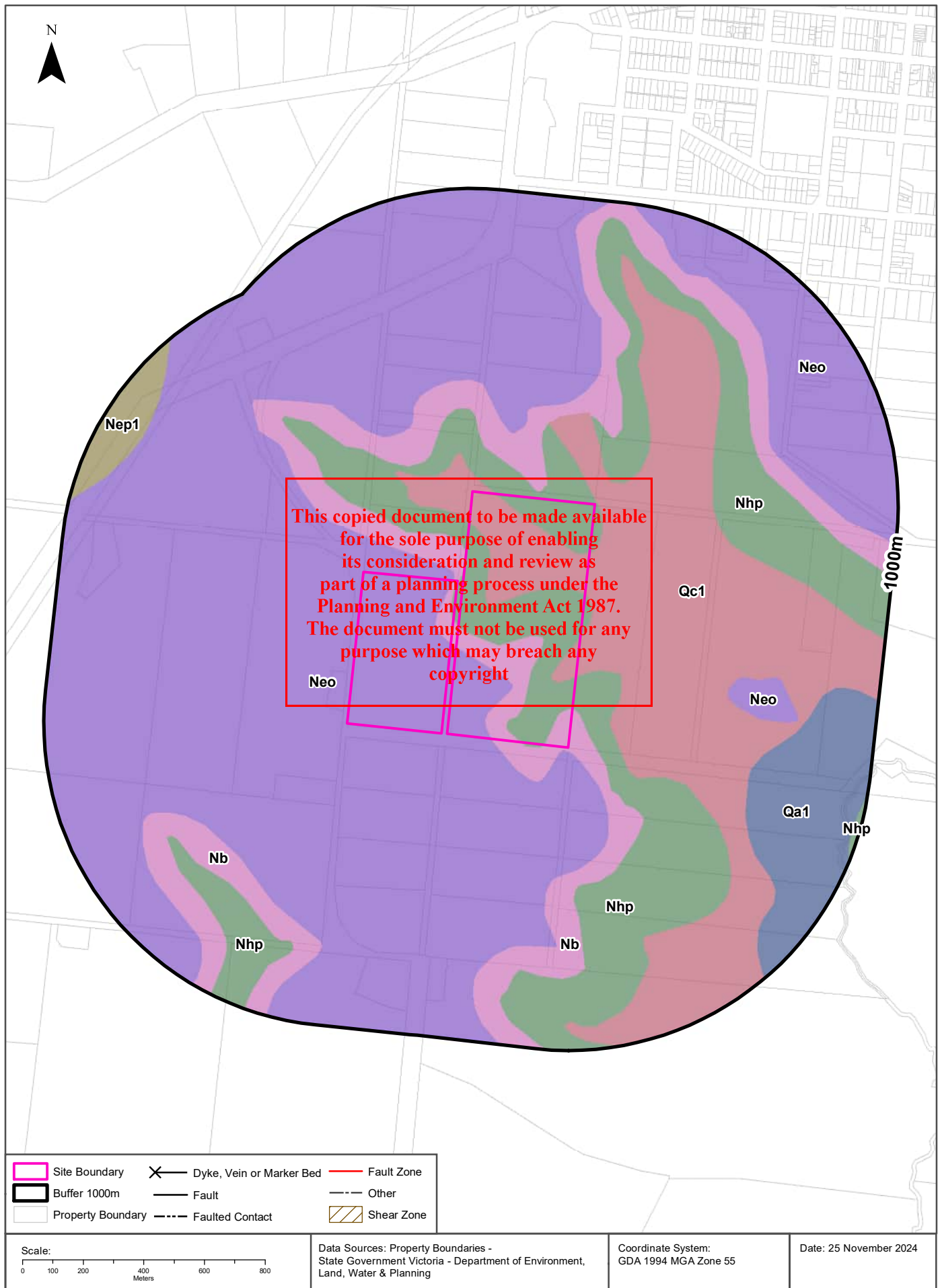
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Geology

89 Cobden-Port Campbell Road, Cobden, VIC 3266



Geology

89 Cobden-Port Campbell Road, Cobden, VIC 3266

Geological Units 1:50,000

What are the Geological Units within the dataset buffer?

Symbol	Name	Description	Geological Age	Lithology	Distance	Direction
Neo	Newer Volcanic Group - basalt flows (Neo): generic	Olivine tholeiite, quartz tholeiite, basanite, basaltic icelandite, hawaiite, mugearite, minor scoria and ash, fluvial sediments: tholeiitic to alkaline; includes sheet flows and valley flows and intercalated gravel, sand, clay	Miocene to Holocene	alkali basalt (major proportion); tholeiitic basalt (major proportion); alluvium (minor proportion); tuff (minor proportion)	0m	On-site
Nhp	Port Campbell Limestone (Nhp): generic	Calcarene, minor calcilutite: generally fine-grained; bryozoan, mollusc, echinoid and brachiopod fragments, minor coarse-grained calcarenite, quartz sand and clayey silt; weakly cemented, moderately bedded; continental shelf deposit	Miocene to Miocene	calcarene (major proportion); calcilutite (minor proportion); sand (minor proportion); clay lithology (minor proportion)	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)	0m	On-site
Nb	Brighton Group(Nb): generic	Gravel, sand, silt: variably calcareous to ferruginous sandstones and coquinas; marine to nonmarine	Miocene to Pliocene	silt material (significant); sand (significant); gravel material (significant)	0m	On-site
Qa1	alluvium(Qa1): generic	Gravel, sand, silt: variably sorted and rounded; generally unconsolidated; includes deposits of low terraces; alluvial floodplain deposits	Pleistocene to Holocene	gravel material (significant); sand (significant); silt material (significant)	602m	South East
Nep1	Newer Volcanic Group - tuff rings (Nep1): generic	Tuff rings: pyroclastic base surge and fall deposits consisting of ash, lapilli, scoria, volcanic bombs and calcareous lithic fragments; well-bedded, well sorted, moderately consolidated	Miocene to Holocene	carbonate rock (significant); pyroclastic sediment (all)	854m	North West

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

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Geological Structures 1:50,000

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

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

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

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

Geological Structures 1:250,000

What are the Shear Zones within the dataset buffer?

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

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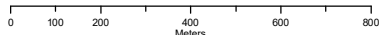
Legend

- Site Boundary
- Buffer 1000m
- Property Boundary

Australian Soil Classification Orders

- | | | | | | |
|--|--|---|---|--|---|
| Anthrosol | Dermosol | Kandosol | Podosol | Tenosol | No Data |
| Calcarosol | Ferrosol | Kurosol | Rudosol | Vertosol | |
| Chromosol | Hydrosol | Organosol | Sodosol | Lake | |

Scale:



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

Coordinate System:
GDA 1994 MGA Zone 55

Date: 25 November 2024

Soils

89 Cobden-Port Campbell Road, Cobden, VIC 3266

Atlas of Australian Soils

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

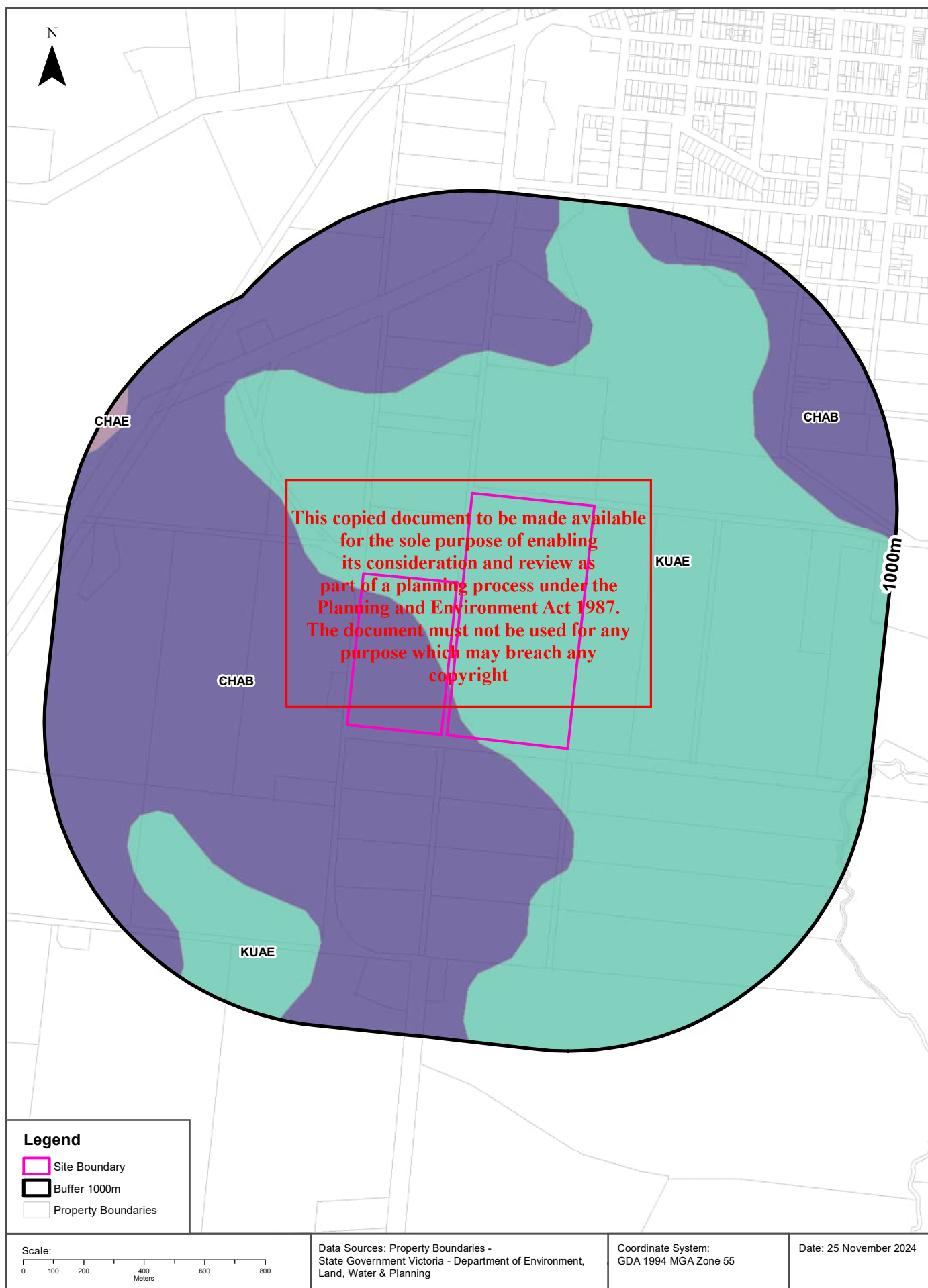
Map Unit Code	Soil Order	Map Unit Description	Distance	Direction
GG1	Dermosol	Plains with swamps, lakes, and their lunettes; volcanic cones and stony rises: friable earths (Gn3.43, Gn3.42, Gn3. 11) on lunettes, in the vicinity of some volcanic cones, between stony rises, and on some undulating portions of the plain; friable loamy soils (Um6.12 and Um6.33) on and near stony rises: friable red soils (Dr4.1, Dr4.2), friable dark soils (Dd4.13, Dd3.11), and structured red clays (Uf6.31) on and near some volcanic cones; hard alkaline yellow mottled soils (Dy3.43) with hard neutral dark soils (Dd2.32) on the plains; dark cracking clays (Ug5.15 and Ug5.16) along some creek valleys Note.--Even the "hard" soils of the plain areas included here have darker (more friable?) surface horizons than do their close relatives in adjacent units, e.g. than (Dy3.43) in unit Va2.	0m	On-site

Atlas of Australian Soils Data Source: CSIRO

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Soils

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Victorian Soil Type Mapping

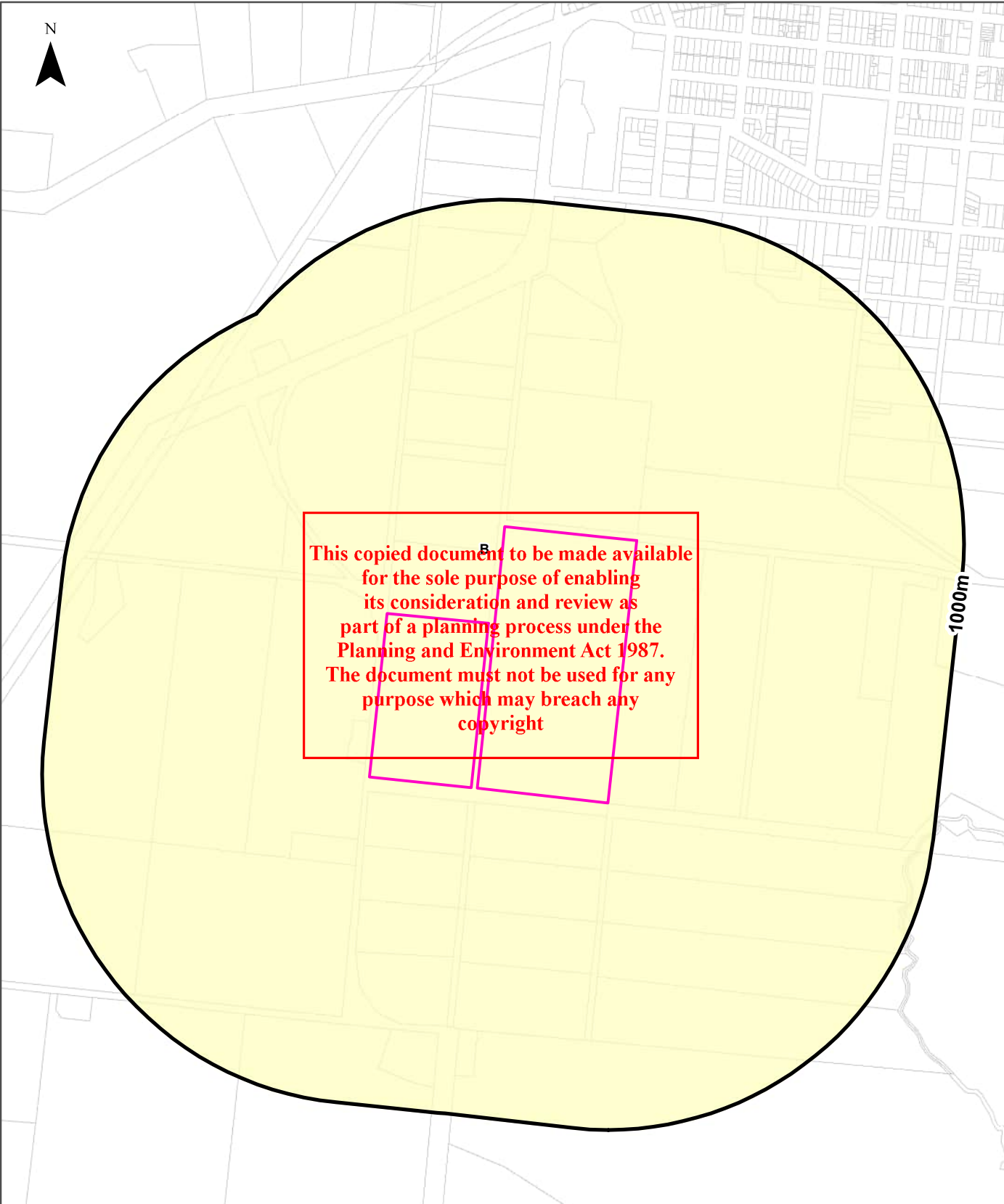
Victorian Soil Types within the dataset buffer:

Symbol	Description	Distance	Direction
KUAE	Kurosols Black	0m	On-site
CHAB	Chromosols Brown	0m	On-site
CHAE	Chromosols Black	937m	North West

Victorian Soil Type Mapping Data Source: Department of Economic Development, Jobs, Transport and Resources
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Legend		
Site Boundary	Probability of occurrence of Acid Sulfate Soils	
Buffer 1000m	A. High (>70%)	C. Extremely Low (1-5%)
Property Boundary	B. Low (6-70%)	D. No Chance (0%)
Scale: 0 100 200 400 600 800 Meters		
Data Sources: Property Boundaries & Topographic Data: State of Victoria - Department of Environment and Primary Industries		
Coordinate System: GDA 1994 MGA Zone 55	Date: 25 November 2024	

Acid Sulfate Soils

89 Cobden-Port Campbell Road, Cobden, VIC 3266

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

Atlas of Australian Acid Sulfate Soils Data Source: CSIRO

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Acid Sulfate Soils

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Coastal Acid Sulfate Soils

Coastal Acid Sulfate Soil types within the dataset buffer:

Coastal Acid Sulfate Soil Types	Distance (m)	Direction
No records in buffer		

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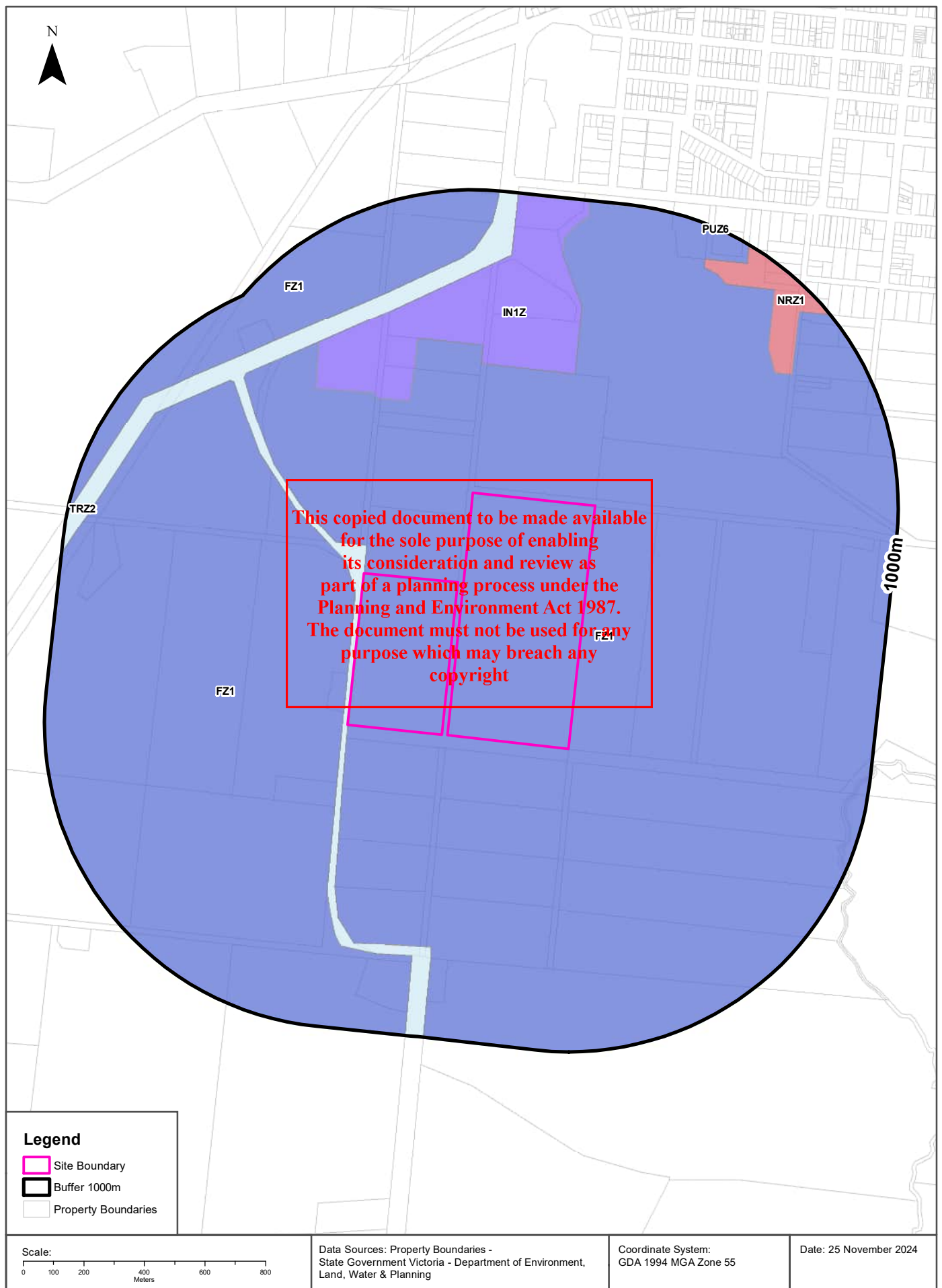
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Planning Zones

89 Cobden-Port Campbell Road, Cobden, VIC 3266



Planning

89 Cobden-Port Campbell Road, Cobden, VIC 3266

Planning Zones

Planning zones within the dataset buffer:

Zone Code	Description	Distance	Direction
FZ1	FARMING ZONE - SCHEDULE 1	0m	On-site
TRZ2	TRANSPORT ZONE 2 - PRINCIPAL ROAD NETWORK	0m	North West
FZ1	FARMING ZONE - SCHEDULE 1	17m	West
IN1Z	INDUSTRIAL 1 ZONE	370m	North
FZ1	FARMING ZONE - SCHEDULE 1	721m	North West
NRZ1	NEIGHBOURHOOD RESIDENTIAL ZONE - SCHEDULE 1	738m	North East
PUZ6	PUBLIC USE ZONE - LOCAL GOVERNMENT	994m	North East

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

89 Cobden-Port Campbell Road, Cobden, VIC 3266



Planning

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Planning Overlays

Planning overlays within the dataset buffer:

Zone Code	Description	Distance	Direction
DDO8	DESIGN AND DEVELOPMENT OVERLAY - SCHEDULE 8	2m	West
AEO2	AIRPORT ENVIRONS OVERLAY (AEO2)	700m	North West
EAO	ENVIRONMENTAL AUDIT OVERLAY	738m	North East
VPO1	VEGETATION PROTECTION OVERLAY - SCHEDULE 1	834m	West

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

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Commonwealth Heritage List

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

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

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

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

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

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

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

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

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

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

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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
30150	732m	South East
32585	855m	North West

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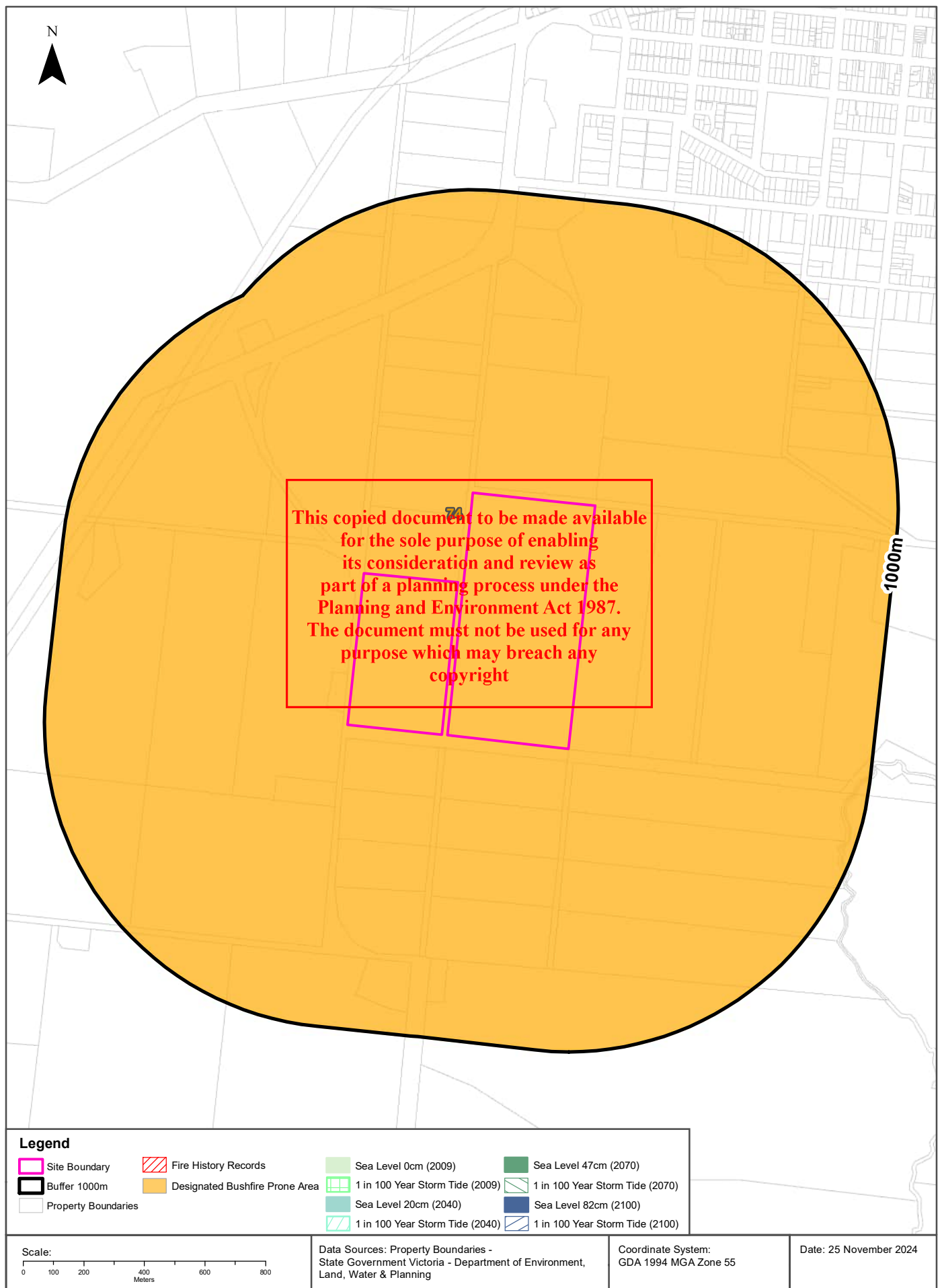
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Natural Hazards

89 Cobden-Port Campbell Road, Cobden, VIC 3266



Natural Hazards

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Bushfire Prone Areas

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

Map ID	Feature	Plan No	LGA	Gazetted Date	Distance	Direction
74	Designated Bushfire Prone Area	LEGL./13-163	CORANGAMITE	08/08/2013	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
N/A	No records in buffer									

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

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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

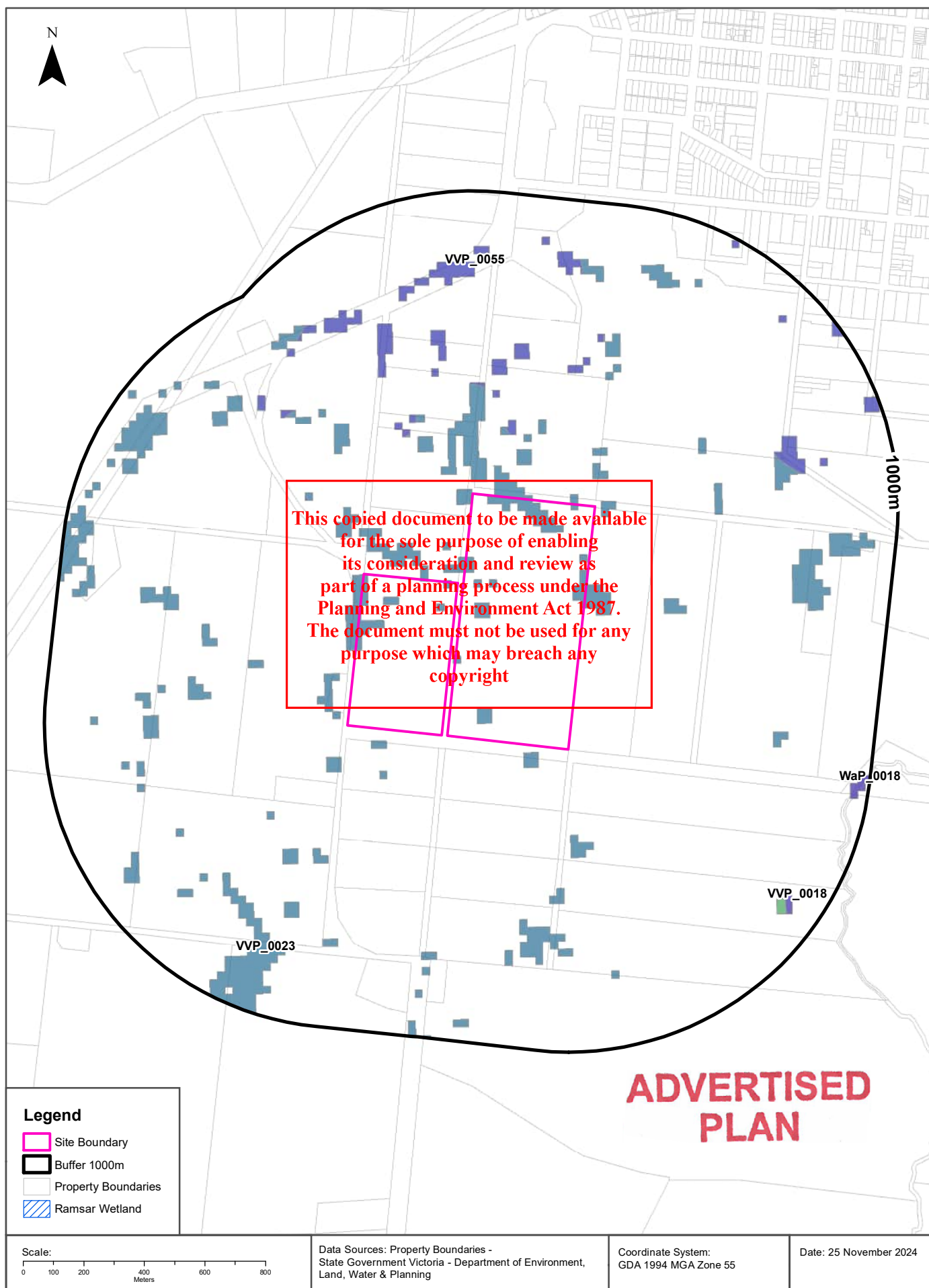
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Ecological Constraints - Native Vegetation 2005 & Ramsar Wetlands

89 Cobden-Port Campbell Road, Cobden, VIC 3266



Ecological Constraints

89 Cobden-Port Campbell Road, Cobden, VIC 3266

Native Vegetation (Modelled 2005 Ecological Vegetation Classes)

What native vegetation exists within the dataset buffer?

Veg Code	EVC Name	EVCCode	Group	Subgroup	Bioregion	Conservation Status	Geographic Occurance	Dist	Dir
VVP_0023	Herb-rich Foothill Forest	0023	Dry Forests	Sheltered and/or higher altitude	Victorian Volcanic Plain	Vulnerable	Common	0m	On-site
VVP_0055	Plains Grassy Woodland	0055	Plains Woodlands or Forests	Freely-draining	Victorian Volcanic Plain	Endangered	Common	174m	North West
VVP_0018	Riparian Forest	0018	Riparian Scrubs or Swampy Scrubs and Woodlands		Victorian Volcanic Plain	Vulnerable	Minor	847m	South East
WaP_0018	Riparian Forest	0018	Riparian Scrubs or Swampy Scrubs and Woodlands		Warrnambool Plain	Vulnerable	Naturally Restricted	852m	South 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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Collaborative Australian Protected Areas Database - Terrestrial

Protected areas in terrestrial environments identified by the CAPAD within the dataset buffer:

Map ID	Area Name	Area Details	Management Category	Authority	Jurisdiction	Dist	Dir
N/A	No records in buffer						

Collaborative Australian Protected Areas Database - Marine

Protected areas in marine environments identified by the CAPAD within the dataset buffer:

Map ID	Area Name	Area Details	Management Category	Authority	Jurisdiction	Dist	Dir
N/A	No records in buffer						

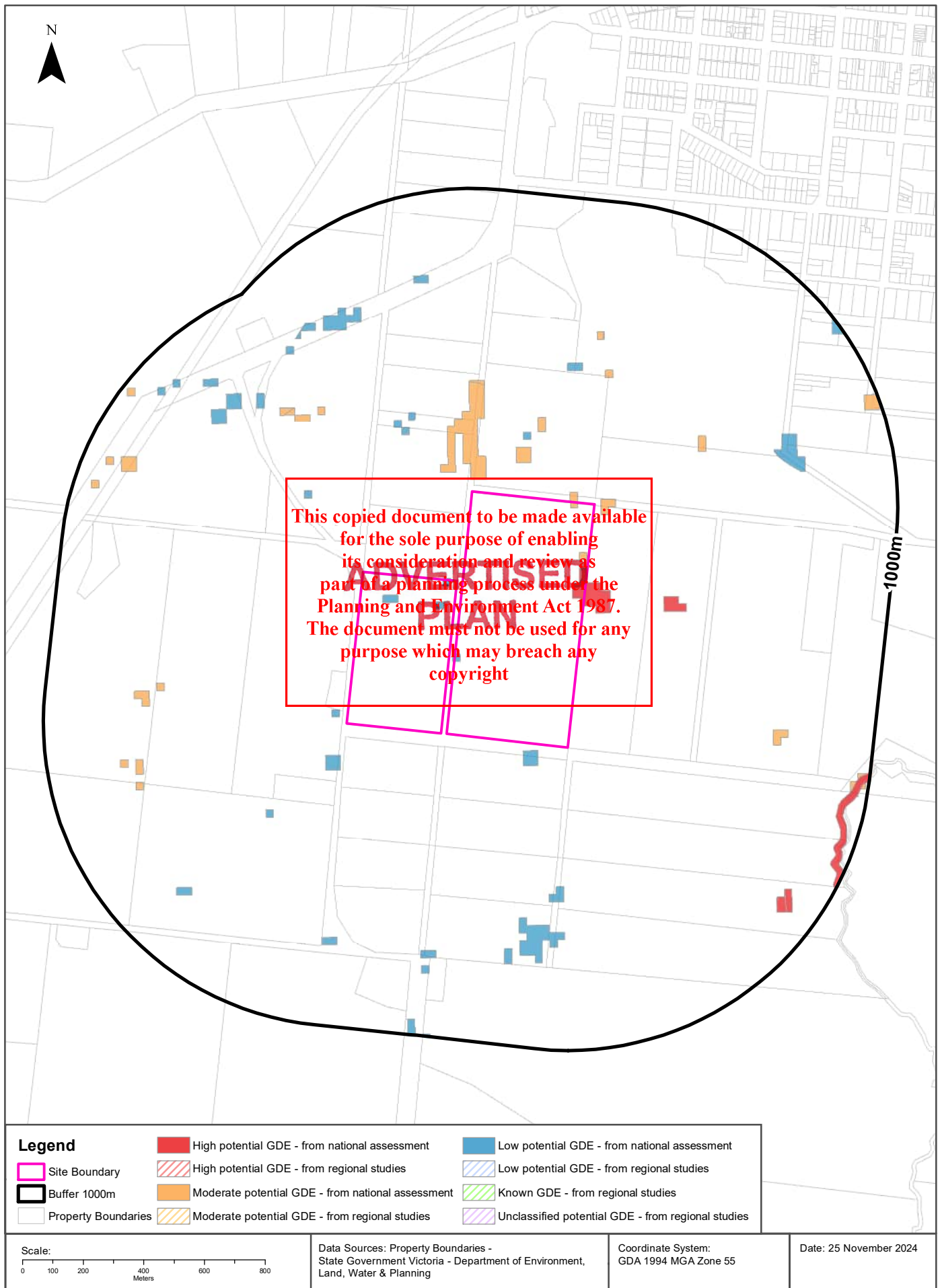
Source: Collaborative Australian Protected Areas Database (CAPAD) 2022
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Ecological Constraints - Groundwater Dependent Ecosystems Atlas

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Ecological Constraints

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Groundwater Dependent Ecosystems Atlas

Type	Name	GDE Potential	Geomorphology	Ecosystem Type	Aquifer Geology	Distance	Direction
Terrestrial		High potential GDE - from national assessment	Plains mainly on basalt lavas with many volcanic forms and lakes, partly on weak sedimentary rocks.	Vegetation	Unconsolidated sedimentary	0m	On-site
Terrestrial		Moderate potential GDE - from national assessment	Plains mainly on basalt lavas with many volcanic forms and lakes, partly on weak sedimentary rocks.	Vegetation	Unconsolidated sedimentary	0m	On-site
Terrestrial		Low potential GDE - from national assessment	Plains mainly on basalt lavas with many volcanic forms and lakes, partly on weak sedimentary rocks.	Vegetation	Fractured rock	0m	On-site
Terrestrial		Moderate potential GDE - from national assessment	Plains mainly on basalt lavas with many volcanic forms and lakes, partly on weak sedimentary rocks.	Vegetation		0m	On-site
Terrestrial		Low potential GDE - from national assessment	Plains mainly on basalt lavas with many volcanic forms and lakes, partly on weak sedimentary rocks.	Vegetation		20m	South
Terrestrial		Moderate potential GDE - from national assessment	Plains mainly on basalt lavas with many volcanic forms and lakes, partly on weak sedimentary rocks.	Vegetation	Fractured rock	354m	North
Aquatic		High potential GDE - from national assessment	Plains mainly on basalt lavas with many volcanic forms and lakes, partly on weak sedimentary rocks.	River	Unconsolidated sedimentary	910m	South East

Groundwater Dependent Ecosystems Atlas Data Source: The Bureau of Meteorology

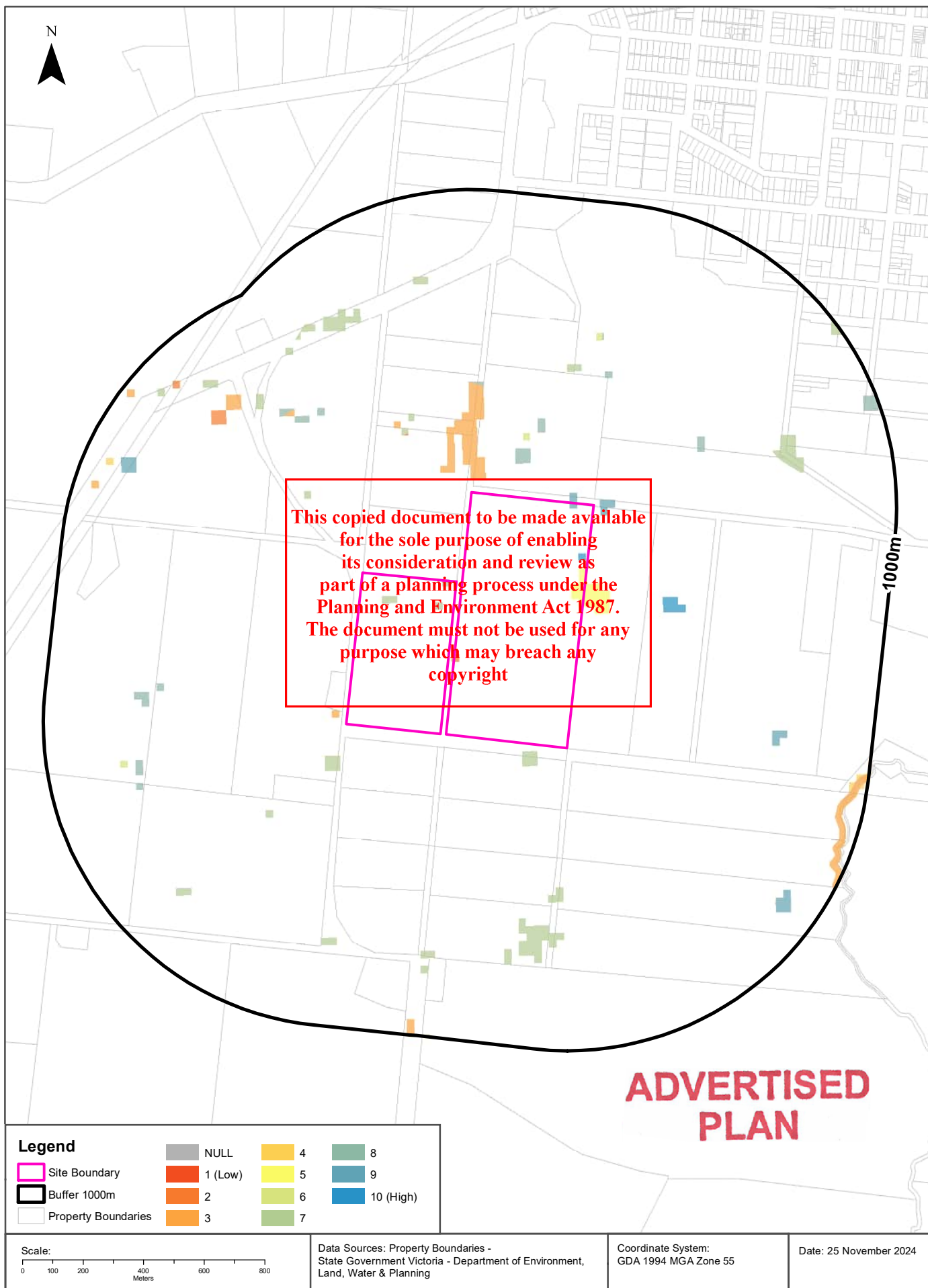
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Inflow Dependent Ecosystems Likelihood

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Ecological Constraints

89 Cobden-Port Campbell Road, Cobden, VIC 3266

Inflow Dependent Ecosystems Likelihood

Type	Name	IDE Likelihood	Geomorphology	Ecosystem Type	Aquifer Geology	Distance	Direction
Terrestrial		5	Plains mainly on basalt lavas with many volcanic forms and lakes, partly on weak sedimentary rocks.	Vegetation	Unconsolidated sedimentary	0m	On-site
Terrestrial		7	Plains mainly on basalt lavas with many volcanic forms and lakes, partly on weak sedimentary rocks.	Vegetation	Fractured rock	0m	On-site
Terrestrial		10	Plains mainly on basalt lavas with many volcanic forms and lakes, partly on weak sedimentary rocks.	Vegetation	Unconsolidated sedimentary	0m	On-site
Terrestrial		2	Plains mainly on basalt lavas with many volcanic forms and lakes, partly on weak sedimentary rocks.	Vegetation	Fractured rock	0m	On-site
Terrestrial		9	Plains mainly on basalt lavas with many volcanic forms and lakes, partly on weak sedimentary rocks.	Vegetation		0m	On-site
Terrestrial		9	Plains mainly on basalt lavas with many volcanic forms and lakes, partly on weak sedimentary rocks.	Vegetation	Unconsolidated sedimentary	20m	North East
Terrestrial		7	Plains mainly on basalt lavas with many volcanic forms and lakes, partly on weak sedimentary rocks.	Vegetation		20m	South
Terrestrial		3	Plains mainly on basalt lavas with many volcanic forms and lakes, partly on weak sedimentary rocks.	Vegetation	Fractured rock	26m	South West
Terrestrial		3	Plains mainly on basalt lavas with many volcanic forms and lakes, partly on weak sedimentary rocks.	Vegetation		42m	North
Terrestrial		8	Plains mainly on basalt lavas with many volcanic forms and lakes, partly on weak sedimentary rocks.	Vegetation		111m	North
Terrestrial		6	Plains mainly on basalt lavas with many volcanic forms and lakes, partly on weak sedimentary rocks.	Vegetation		188m	North
Terrestrial		2	Plains mainly on basalt lavas with many volcanic forms and lakes, partly on weak sedimentary rocks.	Vegetation		280m	North
Terrestrial		8	Plains mainly on basalt lavas with many volcanic forms and lakes, partly on weak sedimentary rocks.	Vegetation	Fractured rock	354m	North
Terrestrial		8	Plains mainly on basalt lavas with many volcanic forms and lakes, partly on weak sedimentary rocks.	Vegetation	Unconsolidated sedimentary	385m	North East
Terrestrial		6	Plains mainly on basalt lavas with many volcanic forms and lakes, partly on weak sedimentary rocks.	Vegetation	Fractured rock	543m	North
Terrestrial		9	Plains mainly on basalt lavas with many volcanic forms and lakes, partly on weak sedimentary rocks.	Vegetation	Fractured rock	817m	North West
Terrestrial		4	Plains mainly on basalt lavas with many volcanic forms and lakes, partly on weak sedimentary rocks.	Vegetation	Unconsolidated sedimentary	845m	South East
Terrestrial		4	Plains mainly on basalt lavas with many volcanic forms and lakes, partly on weak sedimentary rocks.	Vegetation	Fractured rock	896m	North West
Aquatic		3	Plains mainly on basalt lavas with many volcanic forms and lakes, partly on weak sedimentary rocks.	River	Unconsolidated sedimentary	910m	South East

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

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Appendix C DELWP Groundwater Resource Report

Preliminary Site Investigation – Contamination Assessment

Cobden Battery Energy Storage System (BESS)

Cobden BESS Pty Ltd

SLR Project No.: 620.041534.00001

16 January 2025

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Groundwater Resource Report

Groundwater catchment: Hopkins - Corangamite

VICGRID94 Easting: 2330195 Northing: 2348801

Depth to water table: > 50m

Water table salinity (mg/L): 1001 - 3500

Groundwater layers (Aquifers and Aquitards)	Depth below surface (m)	Groundwater salinity (mg/L)
UTB Upper Tertiary / Quaternary Basalt basalt (fractured rock)	0 - 15	Unknown
UTAM Upper Tertiary Aquifer (marine) sand	15 - 22	Unknown
UMTA Upper Mid-Tertiary Aquifer limestone (fractured rock), sand, gravel, clay, minor coal	22 - 86	1001 - 3500
UMTD Lower Mid-Tertiary Aquitard clay, silt, siltstone (fractured rock), marl (fractured rock), minor sand	86 - 391	Unknown
LMTA Lower Mid-Tertiary Aquifer sand, gravel, limestone (fractured rock), minor clay, occasional coal	391 - 412	1001 - 3500
LMTD Lower Mid-Tertiary Aquitard clay, silt, siltstone (fractured rock), marl (fractured rock), minor sand	412 - 511	Unknown
LTA Lower Tertiary Aquifer sand, gravel, clay and silt, minor coal	511 - 624	1001 - 3500
BSE Mesozoic and Palaeozoic Bedrock (basement) sedimentary (fractured rock): Sandstone, siltstone, mudstone, shale. Igneous (fractured rock): includes volcanics, granites, granodiorites.	624 - 824	3501 - 13000

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Groundwater management unit (GMU)	Depth below surface (m)	PCV (ML/yr)
SOUTH WEST LIMESTONE GMA	N/A	85,000
PAARATTE GMA	>120	4,606

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

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

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Date Updated: 11 January 2019



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Introduction

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

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

Purpose of this report

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

Definitions and context

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

Beneficial Use Table

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

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Appendix D Earthworks Layout Plan

Preliminary Site Investigation – Contamination Assessment

Cobden Battery Energy Storage System (BESS)

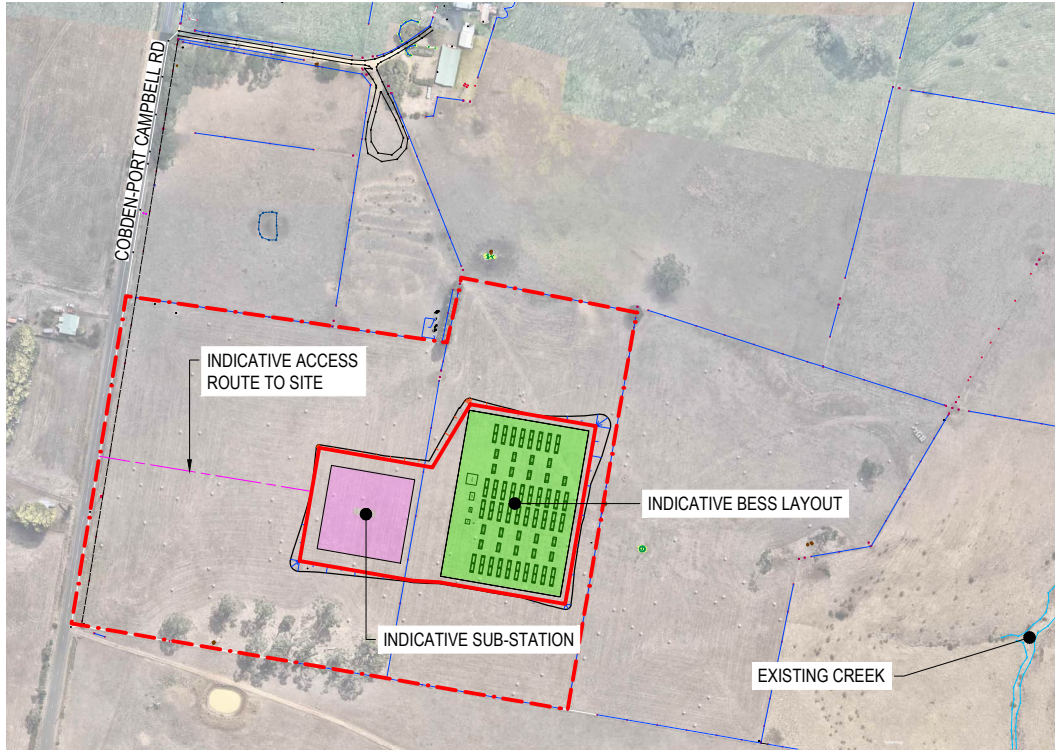
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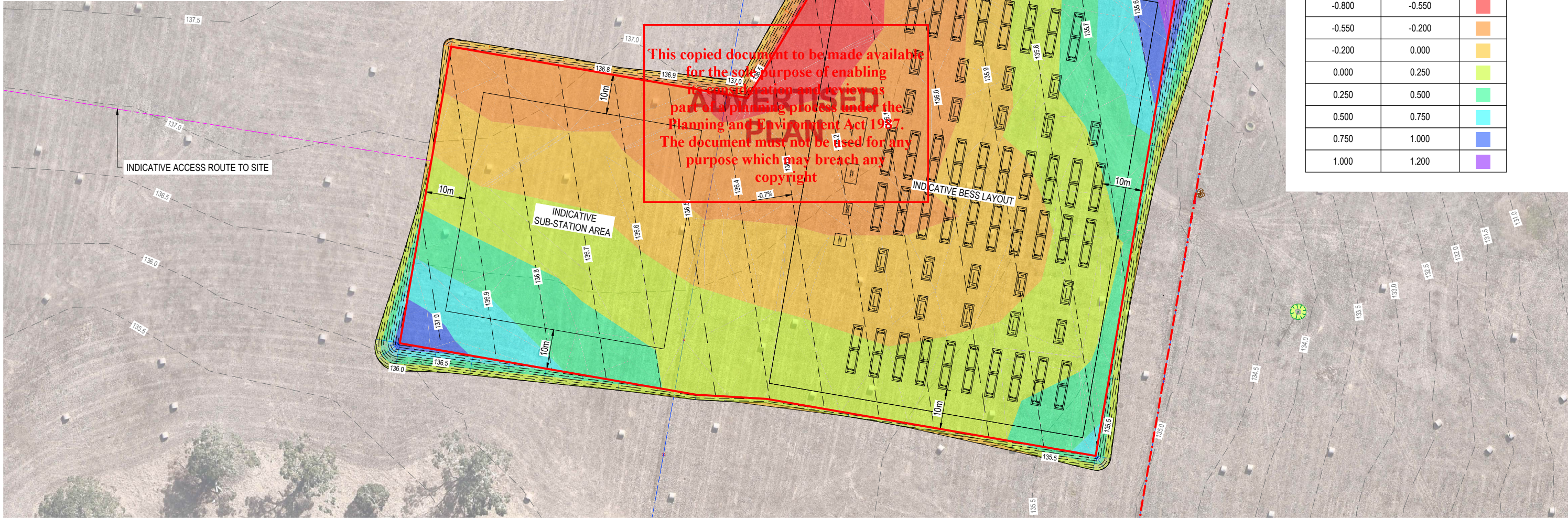
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LOCALITY PLAN
SCALE 1: 2500



EARTHWORKS LAYOUT PLAN
SCALE 1: 500

- NOTES:**
- EXISTING CONTOURS INTERVAL 0.5m, MGA 2020 COORDINATES.
 - SIDE BATTER SLOPES ARE 1V:6H
- LEGEND:**
- CADASTRAL BOUNDARY
 - EXISTING GROUND CONTOURS
 - PROPOSED GROUND CONTOURS
 - DEVELOPABLE AREA (8.0ha)
 - INDICATIVE INFRASTRUCTURE LIMITS (1.2ha)
 - INDICATIVE ACCESS ROUTE TO SITE

CUT/FILL SUMMARY		
ITEM	QUANTITY	UNIT
CUT	-2540	m ³
FILL	2480	m ³
TOTAL	-60	m ³

*SIGN CONVENTION: NEGATIVE CUT, POSITIVE FILL.

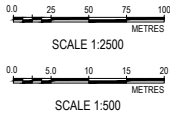
EARTHWORKS CUT/FILL DEPTH		
MIN. DEPTH (m)	MAX. DEPTH (m)	COLOUR
-0.800	-0.550	
-0.550	-0.200	
-0.200	0.000	
0.000	0.250	
0.250	0.500	
0.500	0.750	
0.750	1.000	
1.000	1.200	

PLOT DATE: 06-Dec-2024 12:55:10 PM

REVISIONS			
B	06/12/2024	FOR REVIEW	RMC
A	25/09/2024	FOR REVIEW	RMC
DATE			APPROVED
DESCRIPTION			



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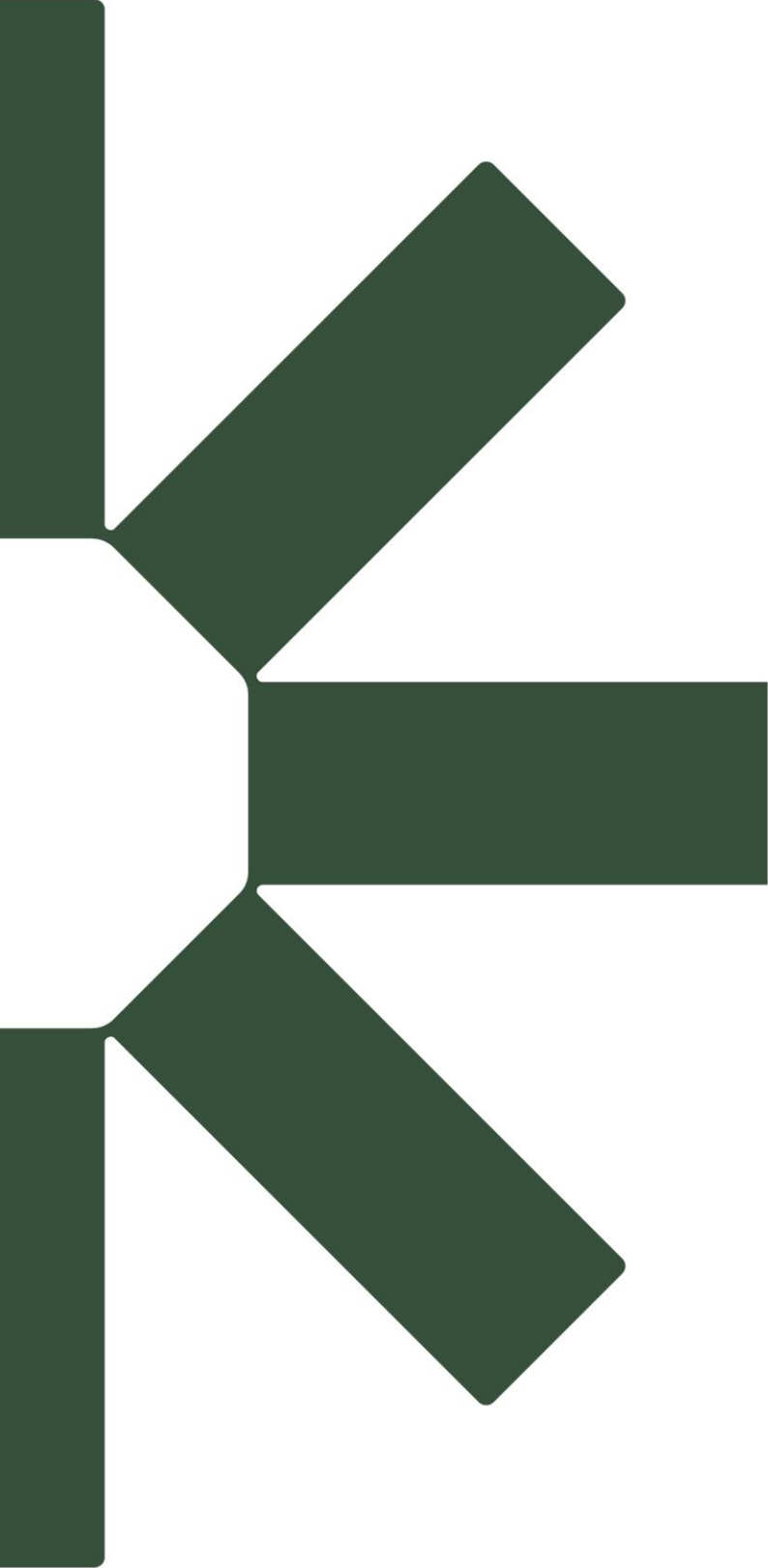
DRAWN: RMC	DATE: 25/09/2024
DESIGN: RMC	DATE: 25/09/2024
DWG. CHECK: RS	DATE: 25/09/2024
DES. CHECK: RS	DATE: 25/09/2024
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RPEQ: _____	



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CLIENT: COBDEN BESS PTY LTD			
PROJECT: COBDEN BATTERY ENERGY STORAGE SYSTEM (BESS)		DRAWING TITLE: CUT & FILL PRELIMINARY EARTHWORKS LAYOUT PLAN	
PHASE 1		SIZE: A1	
89 COBDEN-PORT CAMPBELL ROAD, COBDEN, VIC 3266		REVISION: B	
STATUS: NOT FOR CONSTRUCTION		SCALE: AS SHOWN	DRAWING NUMBER: 620.041534-CI-1010
		DATUM: GDA 2020 Z54	



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