NOTICE OF AN APPLICATION FOR PLANNING PERMIT

The land affected by the application is located at: High Street, Baddaginnie, Crown Allotments 25 and 26 Township of Baddaginnie DX 32230 Bridge Street East, Benalla 3672 Telephone: (03) 5760 2600

The application is for a permit to: Subdivide the land into 6 lots

The applicant for the permit is: Ms Stacey Cole Onley Consulting

The application reference number is: P0101/24 DA7686

You may look at the application and any documents that support the application online at the following link:

https://www.benalla.vic.gov.au/Your-Property/Building-Planning/Planning/Advertised-Planning-Permit-Applications

If you cannot access the link, please contact Benalla Rural City Council on 5760 2600 for an alternative arrangement.

Any person who may be affected by the granting of the permit may object or make other submissions to the Responsible Authority.

An objection must:

- * be made to the Responsible Authority in writing;
- * include the reasons for the objection; and
- * state how the objector would be affected.

The Responsible Authority must make a copy of every objection available at its office for any person to inspect during office hours free of charge until the end of the period during which an application may be made for review of a decision on the application.

The Responsible Authority will not decide on the application before: **3 December 2024**

If you object, the Responsible Authority will tell you its decision.

Planning and Environment Regulations 2015 - Form 2 - Section 52(1)



...enjoy the lifestyle

BENALLA RURAL CITY

Benalla Rural City Council PO Box 227, Benalla, VIC 3671 DX 32230

Bridge Street East, Benalla 3672 Telephone: (03) 5760 2600 Facsimile: (03) 5762 5537 Email: council@benalla.vic.gov.au www.benalla.vic.gov.au

ABN 42 379 380 529



Application for Planning Permit for a Subdivision

Supplied by	Stacey Cole
Submitted Date	13/09/2024
	in the second
Application Details	
Application Type	Planning Permit for a Subdivision
	Version 1
Applicant Reference Number	6139
Responsible Authority Name	Benalla Rural City Council
Responsible Authority Reference Number(s)	(Not Supplied)
SPEAR Reference Number	S236889P
Application Status	Submitted
Planning Permit Issue Date	NA CHI INO INO
Planning Permit Expiry Date	NAO NA COLO.
Supplied by Submitted Date Application Details Application Type Application Type Application Type Application Type Responsible Authority Name Responsible Authority Reference Number(s) SPEAR Reference Number Application Status Planning Permit Issue Date Planning Permit Issue Date Planning Permit Issue Date The Land Primary Parcel Parcel 2 The Proposal Plan Number Number of lets Proposal Description Estimated cost of the development for which a permit is Existing Conditions Existing Conditions Existing Conditions Description	Stacey Cole 13/09/2024 Planning Permit for a Subdivision Version 1 6139 Benalla Rural City Council (Not Supplied) S236889P Submitted NA NA HIGH STREET, BADDAGINNIE VIC 3670
Primary Parcel	HIGH STREET, BADDAGINNIE VIC 3670
	Volume 2010/Folio 984
2°	SPI 25/PP5026
We .	CEN A19289
tor west	Zone: 32.03 Low Density Residential
Parcel 2	HIGH STREET, BADDAGINNIE VIC 3670
A WE AND A WAY AND A WAY AND A WAY AND	Volume 2010/Folio 985
and the second	SPI 26\PP5026
ade it is that fit	32.03 Low Density
ATT ON ON THE	Zone: S2.03 Low Density Residential
all 1 . all all	
The Proposal	
Plan Number	(Not Supplied)
Number of lots	6
Proposal Description	6 Lot subdivision
Estimated cost of the development for which a permit is	required \$ 0
CT CN B C	-
Existing Conditions	
Existing Conditions Description	The site is located at on the Corner of High &
Proposal Description Estimated cost of the development for which a permit is Existing Conditions Existing Conditions Description	Clarendon Streets, Baddaginnie and is located
i or dis	within the eastern aspect of the Benalla
SCAN	Township, a short walk from the centre of town.The allotment in question is square in
	shape, with the \ northern boundary having a
K.	large frontage to High Street, the western
	boundary fronts Clarendon Street and the

The site is located at on the Corner of High & Clarendon Streets, Baddaginnie and is located within the eastern aspect of the Benalla Township, a short walk from the centre of town.The allotment in question is square in shape, with the \ northern boundary having a large frontage to High Street, the western boundary fronts Clarendon Street and the southern boundary fronts Moore Street. A nondeveloped road reserve adjoins the western boundary. The allotment is currently vacant, with a stock dam in the southwest corner. There is a combination of native and exotic vegetation on the site. The allotments will have ready

is also undeveloped. Title Information - Does the proposal breach an encumbrance on The proposal does not breach an encumbrance Title? on title, such as a restrictive covenant, section

Applicant Contact

Applicant Contact

iffed above Mrs Stacey Cole **Onley Consulting** 98 Nixon Street, Shepparton, VIC, 3630 Business Phone: 035821717P Email: stacey@onleys.com.au

easement or building envelope.

173 agreement or other obligation such as an

access to power and telecommunication infrastructure. The neighbouring surrounds are residential in nature to the south and west, with the immediate land to the north and east being zoned farmland. The land abuts a TRZ3 Council Road and a TRZ1 zone exists north of the allotment to support the Victrack Rail line. Allotments to the east appear to be lifestyle type properties despite being zoned Farm Zone. The Low Density Residential allotment to the south

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Applicant details as per Applicant Contact)

Jeremy Sloan

292 Terrett Road, Goomalibee, VIC, 3673

I, Stacey Cole, declare that the owner (if not myself) has been notified about this application.

I, Stacey Cole, declare that all the information

supplied is true.

Stacey Cole Onley Consulting



The Victorian Government acknowledges the Traditional Owners of Victoria and pays respects to their ongoing connection to their Country. History and Culture. The Victorian Government extends this respect to their Elders, past, present and emerging.

REGISTER SEARCH STATEMENT (Title Search) Transfer of Land Act 1958

Page 1 of 1

VOLUME 02010 FOLIO 984

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Security no : 124116504345V
Produced 10/07/2024 09:22 AM
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CROWN GRANT

LAND DESCRIPTION

Section 25 Township of Baddaginnie Parish of Warrenbayne.

REGISTERED PROPRIETOR

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Estate Fee Simple
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Sole Proprietor
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ENCUMBRANCES, CAVEATS AND NOTICES

DIAGRAM LOCATION below. DIAGRAM LOCATION SEE TP560557J FOR FURTHER DETAILS AND BOUNDARIES

forn ACTIVITY IN THE LAST 125 DAYS 20100

NIL

Additional information: (not part of the Register Search Statement)

DOCUMENT END Street Address: HIGH STREET BADDAGINNIE VIC 3670 that any dissemination

TITLE PLAN				EDITION 1	TP 560557J	
	RENBAYNE DAGINNIE		POW	JECT TO THE RESERVATI	Notations ONS EXCEPTIONS CONDIT WN GRANT VOL. 2010 FOL	
Last Plan Reference: Derived From: VOL 2 Depth Limitation: NIL	2010 FOL 984		ANY R	REFERENCE TO MAP IN TH	HE TEXT MEANS THE DIAGF	AND NICHARD
document has been	Description of La	and / Easement Information	n	of the planning pro-	THIS PLAN HAS BE FOR THE LAND REU VICTORIA, FOR TIT PURPOSES AS PAR TITLES AUTOMATIC COMPILED VERIFIED: COLOUR COD Y = YELLOW	DISTRY, LAND LE DIAGRAM AT OF THE LAND ON PROJECT 10/07/2000 AK
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TITLE PLAN			TP 56	0557J
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gold and auriferous earth or stone and all m	ince containing gold within the bo	the margin of these presents and therein color madaries of the said land AND ALSO reservin	red yellow Excerned however u	nto us our heirs and success
heirs and successors and our and their agents any gold and any anriferous earth or stone	and servants at any time or times and for the purposes aforesaid to	bereafter to enter upon the said land and to aink shafts croct machinery carry on any wor	search and mine therein for gold	ad to extract and remove the
			.00 . 4 .00	
said Act AND PROVIDED ALSO that the said	d hand is and shall be subject to the	to ALWAYS that the said land is and shall be right of any person being the holder of a mi	nor's right or of a mining lasso to	enter thursin and to mine f
and silver and to erect and to occupy mini of the passing of the said Act the right to	ing plant or machinery thereon in mine for gold and silver in and	a the same manner and under the same con upon Crown lands PROVIDED that compensa	ditions and provisions as those to tion shall be paid to the said fiRA	which such person had at th
	his bein ernen	ators administrators assigns and transferrers		
	reason of minin	ng thereon such compensation to be determ	ized as provided by the 117th S	ection of the said Act a
	payment thereof	f to be a condition procedent to such right c	(entry)	
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The Victorian Government acknowledges the Traditional Owners of Victoria and pays respects to their ongoing connection to their Country. History and Culture. The Victorian Government extends this respect to their Elders.

REGISTER SEARCH STATEMENT (Title Search) Transfer of Land Act 1958

Page 1 of 1

VOLUME 02010 FOLIO 985

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CROWN GRANT

LAND DESCRIPTION

Section 26 Township of Baddaginnie Parish of Warrenbayne.

REGISTERED PROPRIETOR

 International descent for the plan of the plan Estate Fee Simple Sole Proprietor

ENCUMBRANCES, CAVEATS AND NOTICES

SEE TP773131H FOR FURTHER DETAILS AND BOUNDARIES

adree

NIL

END OF REGISTER SEARCH STATEMENT-----

-Jnal In .eet Address DOCUMENT END Additional information (not part of the Register Search Statement)

Address: HIGH STREET BADDAGINNIE VIC 3670 that any dissemination

TITLE PLAI	V	EDITION 1	TP 773131H
	RRENBAYNE DDAGINNIE	SUBJECT TO THE RESERVA POWERS CONTAINED IN CR ON SHEET 2 OF THIS PLAN	Notations TIONS EXCEPTIONS CONDITIONS AND OWN GRANT VOL. 2010 FOL. 985 AND NOTED
Last Plan Reference: Derived From: VOL Depth Limitation: NIL	2010 FOL 985	ANY REFERENCE TO MAP IN T THIS TITLE PLAN	THE TEXT MEANS THE DIAGRAM SHOWN ON
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TITLE PLAN

LAND DESCRIPTION INCLUDING RESERVATIONS EXCEPTIONS

CONDITIONS AND POWERS SHOWN ON THE CROWN GRANT

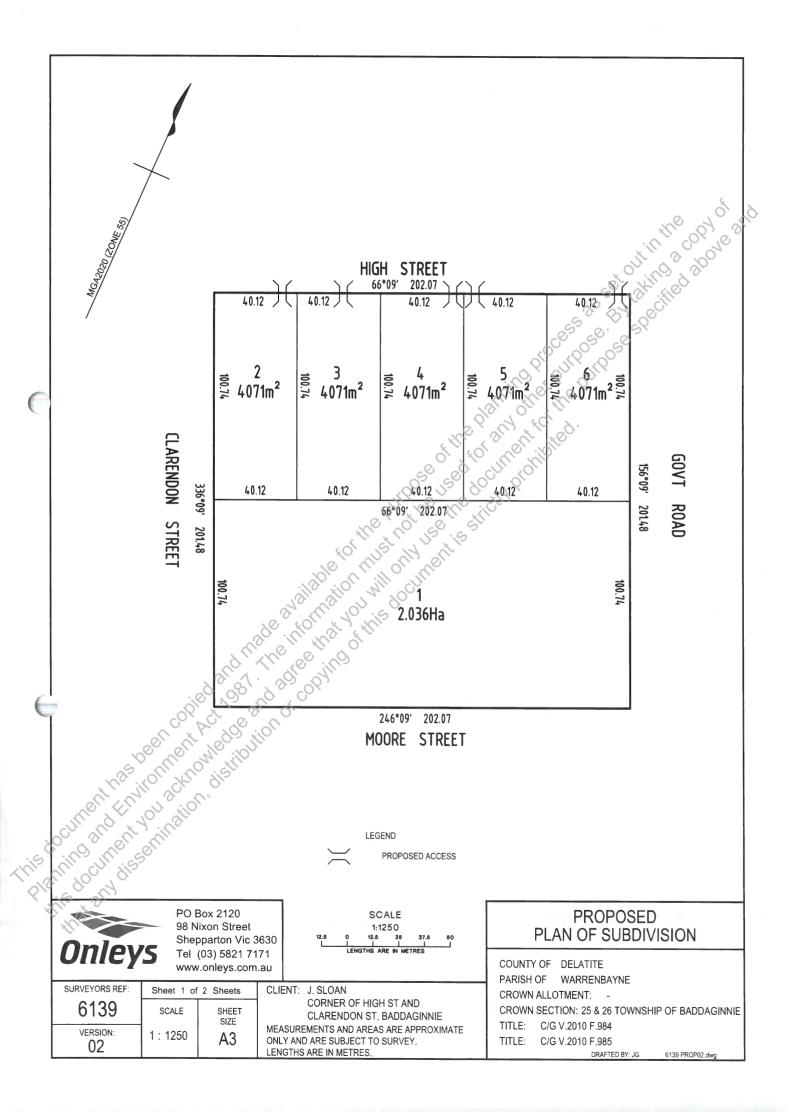
Ill THAT PINCE OF LAND in the said Colony containing fills deves more or less bring Section twenty sex in the Township of Baddagunie Parish of Harunbaune County of Selatile

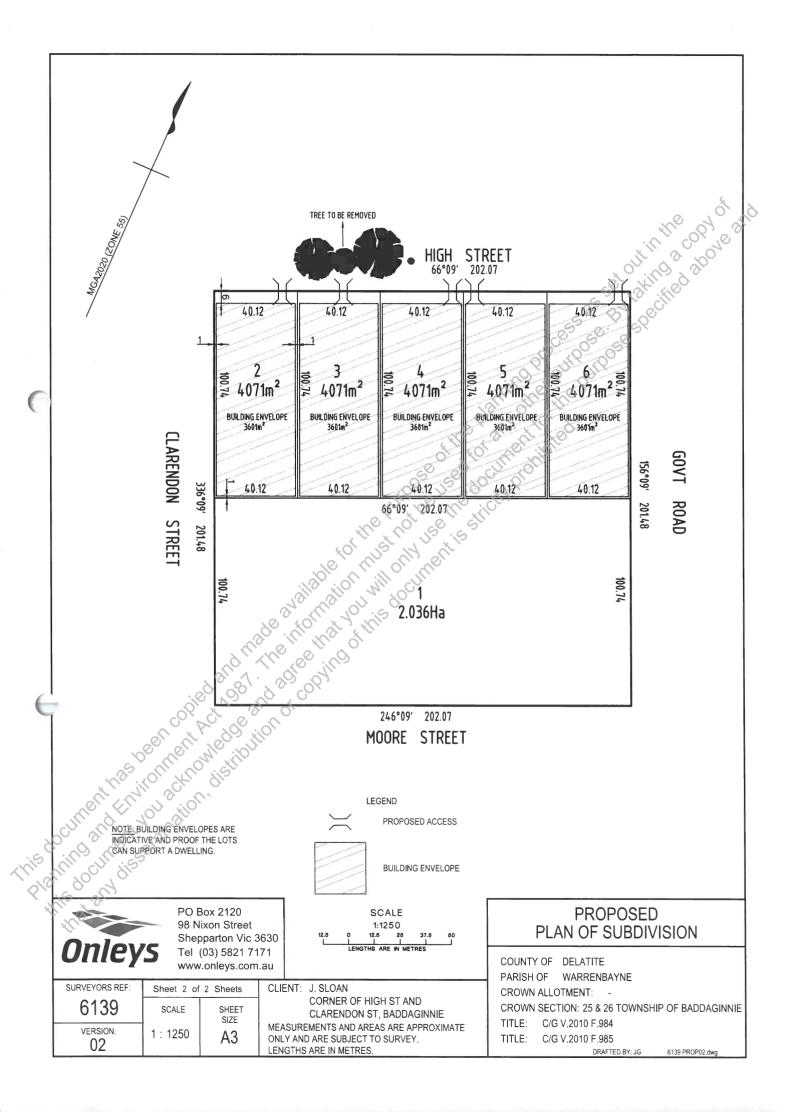
delinented with the measurements and abuttals thereof in the map drawn in the margin of these presents and therein coloured yellow Exercises however unto us our heinkind such gold and auriferous earth or stone and all mines containing gold within the boundaries of the said land Arro areo reserving to us our heirs and successors free liberty and anthority for us our here and successors and our and their agents and servants at any time or times hereafter to enter upon the said land and to search and mine therein for gold and to extract and remove therefrom any gold and any surflerous earth or stone and for the purposes aforesaid to sink shafts erect machinery carry on any works and do any other things which may be necessary or usual in mining

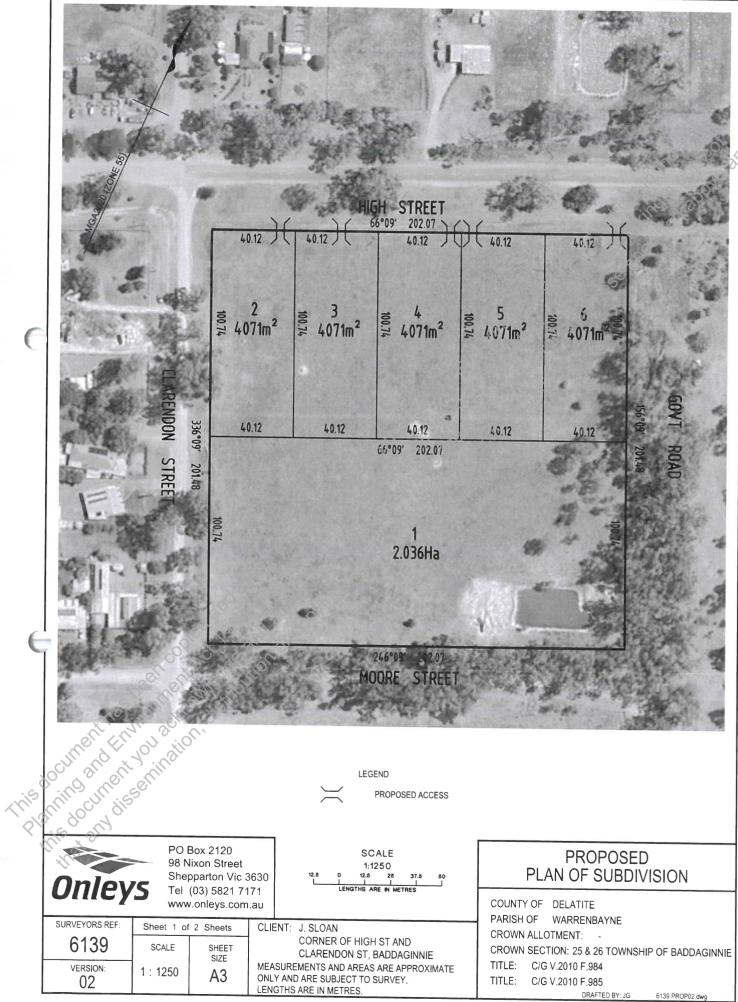
PROVIDED ALWARS that the said land is and shall be subject to be resumed for mining purposes under Section 68 of the said Act AND PROVERTO ALSO that the said land is and shall be subject to the right of any person being the holder of a miner's right or of a mining lease to enter therein and to mise for gold and allver and to erect and to docupy mining plant or machinery thereon in the same manner and under the same conditions and provisions as these to which such person had at the time of the passing of the said Act the right to mine for gold and silver in and upon Crown lands PROVERSD that compensation shall be paid to the said GRANTEE

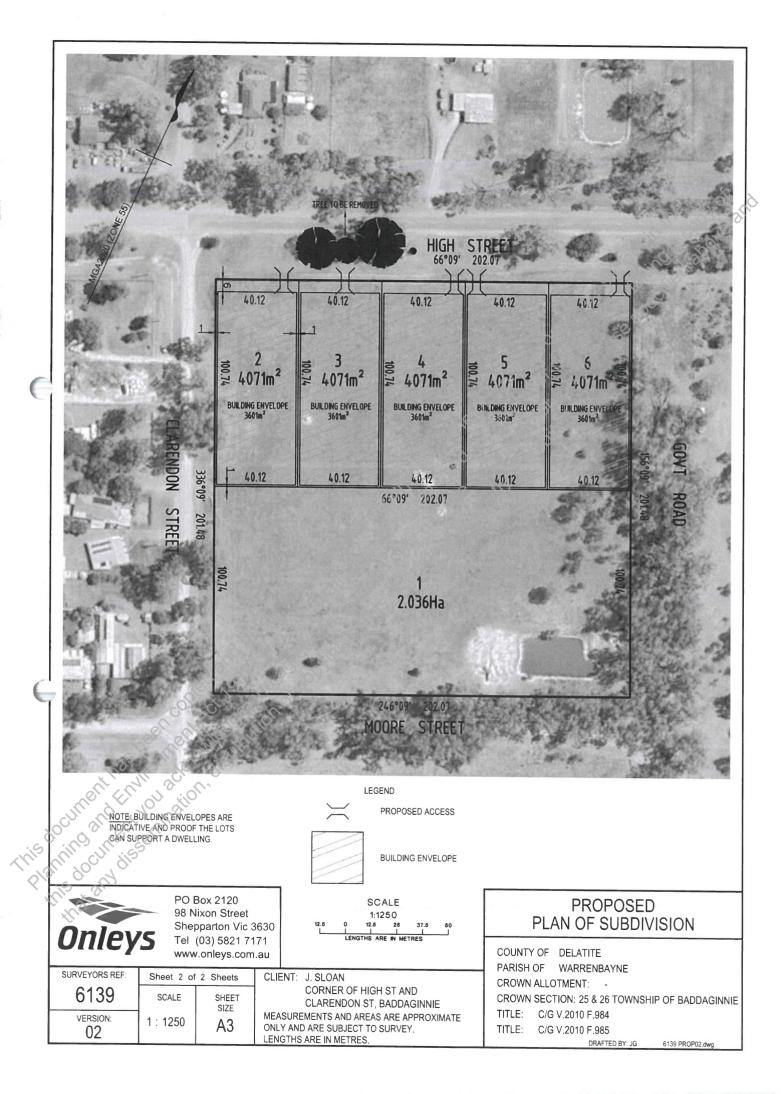
has heirs executors administrators assigns and transferroes by such person for surface damage to be done to such lands by reason of mining thereon such compensation to be determined as provided by the 117th Section of the said Act and the And a contraction of the second of the secon

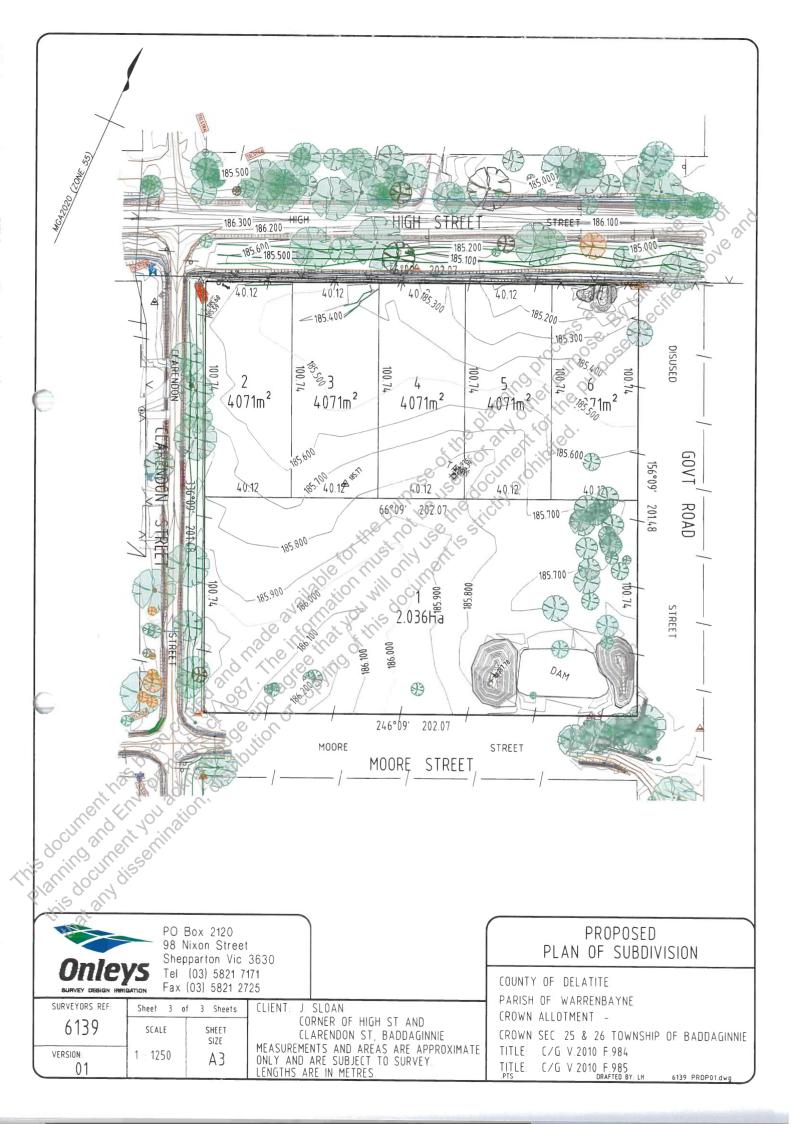
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From www.planning.vic.gov.au at 13 September 2024 08:18 AM

PROPERTY DETAILS

Crown Description:	Allot. 25 TOWNSHIP OF BADDAGINNIE	
Address:	HIGH STREET BADDAGINNIE 3670	
Standard Parcel Identifier (SPI):	25\PP5026	
Local Government Area (Council):	BENALLA	www.benalla.vic.gov.au
Council Property Number:	A19289 (Part)	the by Su
Planning Scheme:	Benalla	Planning Scheme - Benalla
Directory Reference:	Vicroads 47 F3	101, 10 , 3h
This parcel is one of 2 parcels com	prising the property. For full parcel details get the free Property re	port at <u>Property Reports</u>

UTILITIES

Rural Water Corporation: Urban Water Corporation: Goulburn Valley Water Melbourne Water: Power Distributor:

Goulburn-Murray Water Outside drainage boundary AUSNET

STATE ELECTORATES

Legislative Council:

Legislative Assembly:

NORTHERN VICTORIA

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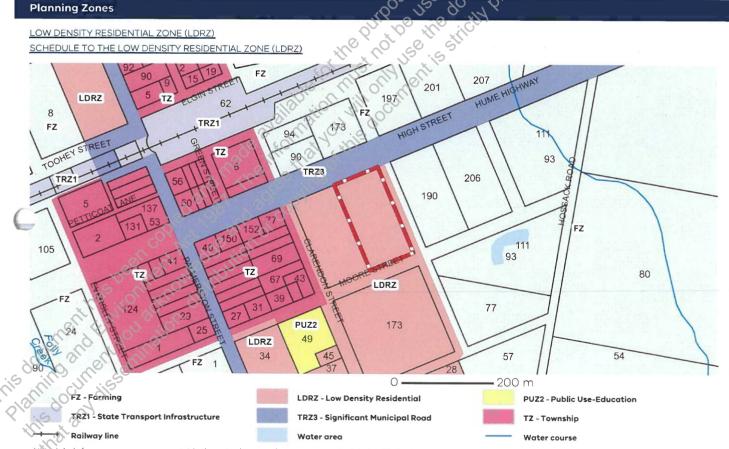
EUROA other

OTHER

AULIA Registered Aboriginal Party: Yorta Yorta Nation Aboriginal

Corporation

View location in VicPlan



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

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



Planning Overlay

None affecting this land - there are overlays in the vicinity

OTHER OVERLAYS

Other overlays in the vicinity not directly affecting this land



Planning scheme data last updated on 11 September 2024

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

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

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

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

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

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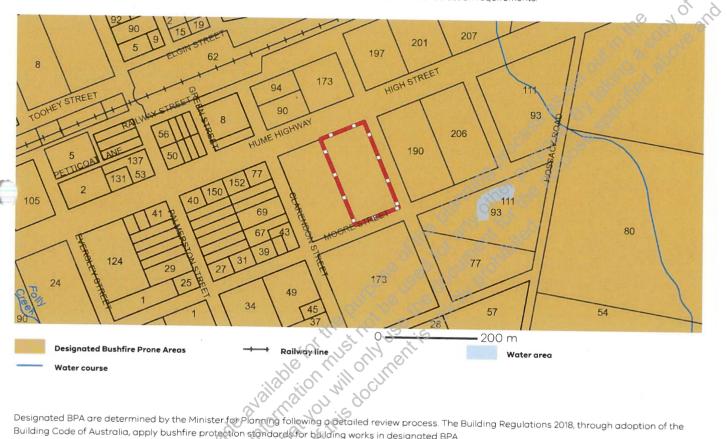


Designated Bushfire Prone Areas

This parcel is in a designated bushfire prone area. Special bushfire construction requirements apply to the part of the property mapped as a designated bushfire prone area (BPA). Planning provisions may apply.

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

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



Building Code of Australia, apply bushfire protection standards for building works in designated BPA

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

Create a BPA definition plan in VicPlan to measure the BPA

<u>.</u>0

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

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

Native Vegetation

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

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

You can find out more about the natural values on your property through NatureKit NatureKit (environment.vic.gov.au)

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PLANNING PROPERTY REPORT: Allot. 25 TOWNSHIP OF BADDAGINNIE



PROPERTY DETAILS

Crown Description:	Allot. 26 TOWNSHIP OF BADDAGINNIE
Address:	HIGH STREET BADDAGINNIE 3670
Standard Parcel Identifier (SPI):	26\PP5026
Local Government Area (Council):	BENALLA www.benalla.vic.gov.gu
Council Property Number:	A19289 (Part)
Planning Scheme:	Benalla Planning Scheme - Benalla
Directory Reference:	Vicroads 47 F3
This parcel is one of 2 parcels comp	prising the property. For full parcel details get the free Property report at <u>Property Reports</u>
UTILITIES	20 DT 20
	STATE ELECTORATES
Rural Water Corporation: Goulbu	Munner Weter

Rural Water Corporation: Urban Water Corporation: Goulburn Valley Water Melbourne Water: Power Distributor:

Goulburn-Murray Water Outside drainage boundary AUSNET

Legislative Council:

Legislative Assembly:

NORTHERN VICTORIA

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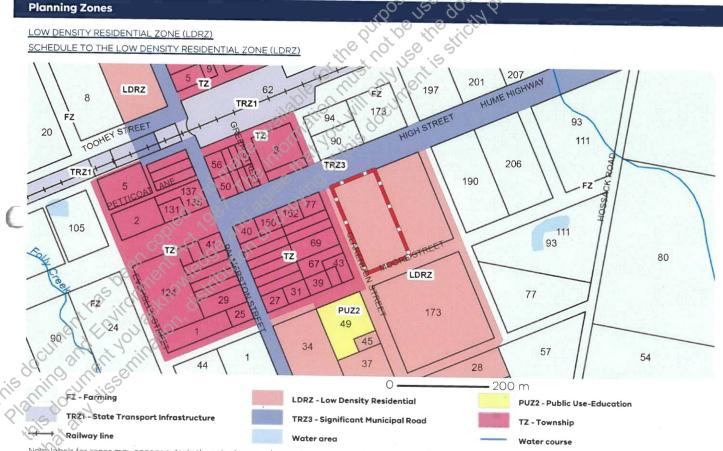
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View location in VicPlan



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

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Planning Overlay

None affecting this land - there are overlays in the vicinity

OTHER OVERLAYS



Further Planning Information

Planning scheme data last updated on 11 September 2024

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PLANNING PROPERTY REPORT: Allot. 26 TOWNSHIP OF BADDAGINNIE

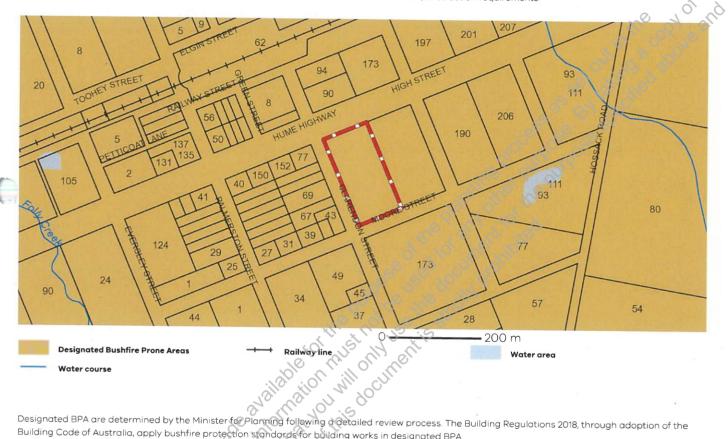


Designated Bushfire Prone Areas

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Land Capability Assessment Corner High Street & Clarendon Street, Baddaginnie

Report Number: 24281

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Land Capability Assessment

Corner High Street & Clarendon Street, Baddaginnie

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	Goomalibee Vic 3673.			in cordo

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 Confidentiality – This report was prepared for Jeremy Sloan and may contain confidential information. If you receive this report in error, please contact A.C. Geotechnical Pty Ltd and we will arrange collection of this document.

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Authorised by

Andrew Craig BE (Civil) hon Registered engineer 3574616 Registration of Professional Engineers (VIC) - PE0001410 Email: andrew@acgeotech.com - Phone 0422 097 205

For and on behalf of A.C. Geotechnical Pty Ltd

ABN: 74 624 767 700 P.O Box 539 Beaconsfield Vic 3807

Accreditation Experience

ou will only use the document of the document is strictly prohibited. Land Capability Assessment for On-site Wastewater Management Certificate CET, 2015 10 years' experience in geotechnical engineering and environmental assessments, with a focus on wastewater management across all states of Australia.

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SUMMARY: 1.

The following summary table should be read in conjunction with the entire report.

	Designs wastewater load	4 Bedroom dwelling	900 L/day
	Soils characteristics	Horizon A	Horizon B
	Soil category	3b Loam	6b Medium clay
	Indicative permeability	0.5-1.5 m/d	0.06-0.12 m/d
	Critical site features	 Proposed small lot sized. Potential high design wastewater loa Onsite dam on proposed lot 1. Low permeable clay soils 	ds.
	Minimum treatment requirements	Seconda	ary 2 B B
	Disposal system	Suitability	
	Absorption trenches	Not suitable	AVVA
	Wick trenches	Suitable	68 m (1.6 m wide trenches)
	Subsurface Irrigation	Suitable	410 m ²
	ETA Beds	Suitable	100 m ²
-	Mound	Suitable	220 m ²
	Wastewater can be	sustainably disposed to land	Yes
		40° 112 112 112	
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INTRODUCTION: 2.

A.C. Geotechnical Pty Ltd (AC) have been engaged to undertake a Land Capability Assessment (LCA) for the proposed subdivision of Corner High Street & Clarendon Street, Baddaginnie

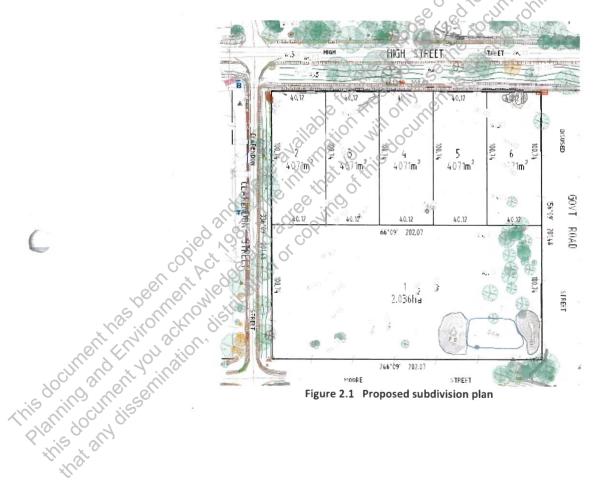
The objectives of the assessment was to determine the following:

- Sub-surface ground profile and geological setting.
- The depth to groundwater (if encountered). •
- 3 copy of and The capability of the soil profile. The capability of the site to sustainably manage wastewater within the allotment boundaries. . boundaries.
- A management program that should be put into place to minimise health and environmental impacts of on-site wastewater management, including the impact on surface water and groundwater.

2.1 Proposed Development:

0

It is proposed subdivide the site into six lots, five lots will be 4,071 m² and one lot will be 2.36 ha.





SITE DESCRIPTION: 3.

3.1 Site Location:

The subject site is located between High Street, Clarendon Street and Moore Street The site is surrounded by similar size properties, the assumed land use of these properties is summarised in Table 3.1. ne yoind

Table 3.1 -Surrounding land us	e	11 CO 10
North	Low density residential	NY O DO
South	Low density residential	at will do
East	Low density residential	S tot illo
West	Low density residential	and and and

3.2 Site Topography and Condition:

The site is currently setup for grazing livestock, with a perimeter post and wire fence. The site is relatively level, a dam is located in the south-east corner, with an earth mound of material won from the excavation of the dam at the east and west end.

Vegetation on the site comprises open pasture. Scattered trees are located in the south-east corner and a trees are located outside the site boundary on all sides. 20

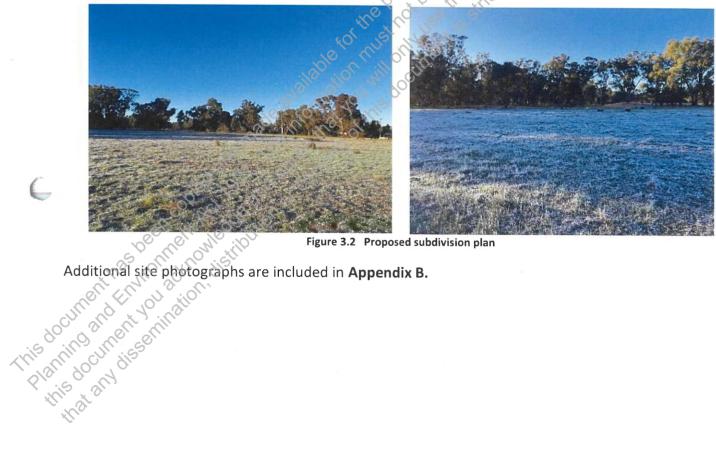


Figure 3.2 Proposed subdivision plan



3.3 Key Site Information:

A summary of site characteristic and wastewater loading are included in Table 3.3.

Site Address	Corner High Street & Clarendon Street, Baddaginnie
Owner/Applicant	Jeremy Sloan
Local Council	Benalla
Zoning	Low Density Residential (LDRZ)
Total Land Area	Approximately 4.06 ha Proposed subdivision 1 x 2.36 ha lot & 5 x 4,071 m ² lots
Domestic Water Supply	Reticulated/Tank
Design Wastewater Load (Litres/Day)	EPA Guideline for onsite wastewater management, May 2024, Household on mains water
а — с -	Corner High Street & Clarendon Street, Baddaginnie Jeremy Sloan Benalla Low Density Residential (LDRZ) Approximately 4.06 ha Proposed subdivision 1 x 2.36 ha lot & 5 x 4,071 m ² lots Reticulated/Tank <u>EPA Guideline for onsite wastewater management, May 2024</u> , Household on mains water 180 L / person / day. Persons = no. bedrooms + 1 (4 + 1 = 5 persons) Design wastewater load 5 x 180 = 900 L / day <u>EPA Guideline for onsite wastewater management, May 2024</u> , 60 g per person per day
Design Organic Material Load	EPA Guideline for onsite wastewater management, May 2024, 60 g per person per day (5 x 60) = 300 g/day
Availability of sewer	Sewer is not likely to become available to this area in the near future
Groundwater Quality	Groundwater is classified as Brackish (3500 - 7000 mg/L TDS) <u>www.vvg.org.au</u>
Water Table	Local registered bores in the area suggest the ground water is held approximately 5 m below the surface
Climate	Average annual rainfall 630.3 mm
Flood Potential	Outside a 1 in 100-year flood event
	N/A
Proximity to Waterways	Onsite dam
Water Catchment Area Proximity to Waterways Vegetation Exposure	Pasture
Exposure	Open
Slope	Relatively level
Landform	Plains
Erosion Potential	Negligible
Surface Drainage	Good
Rocks and Rock Outcrop	None



3.4 Site Geology:

According to the Geological Survey of Victoria, the site is in an area of Quaternary aged sediments, belonging to Shepparton Formation. An extract from GeoVic 3 is included in Figure 3.4.

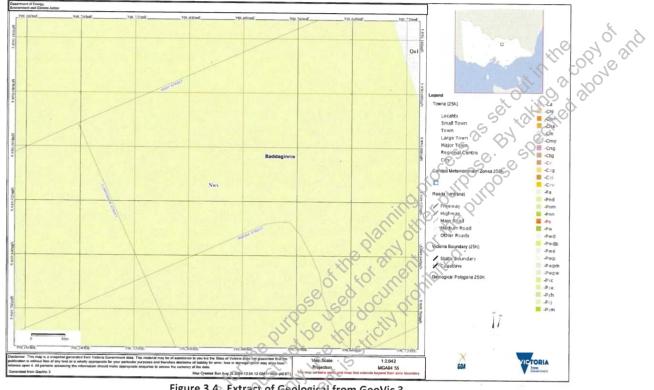


Figure 3.4 Extract of Geological from GeoVic 3

4. SOIL ASSESSMENT AND CONSTRAIN

4.1 Soil Profile:

The soil profile encountered during the investigation consisted of dark brown silt overlaying medium plasticity, pale brows, silty clay.

The critical soil horizon are the medium plasticity silty clay.

No groundwater was encountered during this investigation. No abnormal moisture conditions were identified through this assessment.

Borelogs are included in Appendix C.

4.2 Site Exposure:

A general assessment of the site exposure is as follows:

The site is exposed to the prevailing winds. The proposed effluent disposal area is generally exposed to sun and wind all year round.



4.3 Soil Assessment:

Laboratory analysis on each sample collected included the following:

- Texture Analysis using ribboning technique. •
- Modified Emerson Analysis. •
- purpose specified above and BY THE MARCH STREET Electrical Conductivity. pH analysis. . A summary of the analysis is included in Table 4.3. Table 4.3 -Summary of soil assessment **BORE HOLE 1** SAMPLE DEPTH: 200mm SAMPLE DEPTH: 600mm SOIL ASSESSMENT SOIL HORIZON: A SOIL HORIZON: B (AS1547-2012) Soil Colour Dark brown Pale brown Soil Texture Loam made available for the pulpose. Light clay None Coarse Fragments (%) None Love information in the state of the state o Moderate 0.065 dS/m Soil Structure Weak **Soil Dispersion** Non-dispersive Soil Permeability 0.06-0.12 mm/d **Soil Category** 5b pH 1:5 Ratio Electronic 6.52 6.68 Method Electrical Conductivity 0.065 dS/m 0.070 dS/m Planning and Environment Mark His document in a chine in chine in chine in a chine in a chine in a chine in This document has been Non-saline

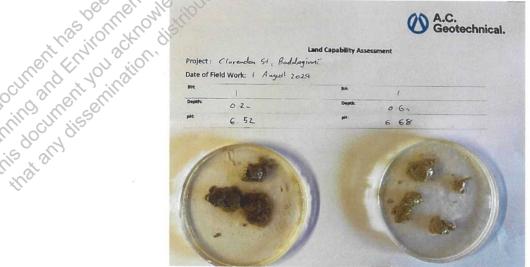


Figure 4.3 Laboratory Analysis



Field Assessed Permeability:

Insitu permeability testing with a constant head permeameter were undertaken in multiple locations across the site, see site plan for locations in Attachment A, in accordance with AS 1547-2012 using the constant-head test method. The field assessed permeability was calculated using the Talsma-Hallam constantly maintained head of water equation identified in AS 1547-2012.

$$K_{sat} = \frac{4.4 \text{ Q} [0.5 \text{sinh}^{-1}(\text{H/2r}) - \sqrt{(r/\text{H})^2 + 0.25} + r/\text{H}]}{2\pi\text{H}^2}$$

 $K_{sat} = \frac{4.4 \text{ Q} [0.5 \text{sinh}^{-1}(\text{H}/2r) - \sqrt{\{(r/\text{H})^2 + 0.25\} + r/\text{H}]}}{2\pi\text{H}^2}$ Where: $K_{sat} = \text{saturated hydraulic conductivity of the soil in cm/min.}$ 4.4 = correction factor for a systematic under-estimate of soil permeability in the mathematical derivation of the equation. Q = rate of loss of water for a different in the mathematical derivation of the equation.

Q = rate of loss of water from the reservoir in cm^3/min .

H = depth of water in the test hole in cm.

r = radius of the test hole in cm.

A summary of permeability results are included in Table 4.4. Permeability Calculations are included in Appendix D.

Table 4.4 -Summary of insitu permeability

Constant Head Permeabilit

Indicative permeability (Ksat)

0.11 m/day

Note: The results in the table above are base on ave eadings taken from the test holes. age

The corresponding Ksat value of 0.11 m/day in EPA Onsite Wastewater Management – Code of Practice Publication No. 891.4 July 2016 Appendix A Table 9 is category 5 (light clay soil).

4.5 **Critical site Features**

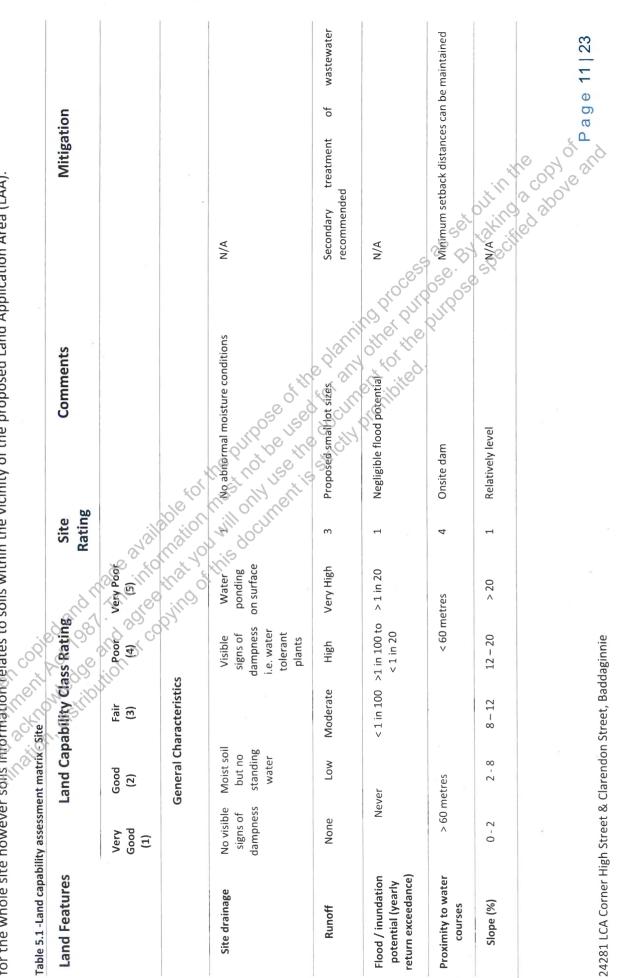
The critical site features are: ??

that any

- Proposed small lot sized.
- Low permeable clay soils Potential high design wastewater loads.
 - Onsite dam on proposed lot 1.
- this document

5. LAND CAPABILITY ASSESSMENT MATRIX: This docum Geotechnical

Table 5.1 and Table 5.2 includes a Land Capability Assessment (LCA) matrix in accordance with EPA Publication 746.1. The LCA has been developed for the whole site however soils information relates to soils within the vicinity of the proposed Land Application Area (LAA)



24281 LCA Corner High Street & Clarendon Street, Baddaginnie

	N/A	N/A	N/A	Maintain current level of surface cover where practical	N/A	N/A	N/A	N/A	LAA size to be determined by water balance calculations	tAA size to be determined by water balance calculations
e	No landslip potential	Groundwater held at approximately 5.0 m below the surface	None encountered	No erosion potential	High exposure to sun and wind	Floodplai Plains H	Pasture 22, 100 Minute	No fill encountered	Average annual rainfall of 630.3 mm	Annual evaporation of 1211.9 mm
	t or 1 e	-1	1	e 1 Miller	Low sun		1	1) 2	m
	Present or Past Failure	<1.5	20% >20%	Sever erosio potent	0	Floodpl ns anc incisec channe	Dense Forest		>1000	<1000
C	High potential for failure	1.5 - 2.0	20*50%	E.	Low sun and wind exposure				750 - 1000	
	Low potential for failure	20-25	<10% 20-20% 20-50%	Moderate	Moderate	Concave side slopes and foot slopes		Fill Present	650 – 750	1000 – 1250
	and fr	2.575.0	<10%	Minor					450 - 650	1250 - 1500
chinical.	No potential for failure	>5.0	%0	No erosion potential	High sun and wind exposure	Hill crests, convex side slopes and plains	Turf or pasture	No Fill present	<450	>1500
O Geotechnical,	Landslip	Groundwater table (m) seasonal watertable depth	Rock Outcrops (% of land surface containing rocks >200mm)	Erosion Potential	Exposure	Landform	Vegetation Type (land application area)	Ē	Rainfall (mm/yr) ²	Pan evaporation (mm/yr) ³

Soil Profile Char: Profile depth >2.0m 1.5-2.0m Shrinkage* (%) Low Moderate H	in the second	ent matrixes	Soils					
	Soil	Profile C	Soil Profile Characteristics	stics				
Shrinkage* (%)	>2.0m	(D.5-2.0m)	been	1.0–1.5m	<1.0m	1	Deep soil profile	N/A
	Low <4%	Moderate High 4-12% 12-20%	High 12-20%	Very High >20%		7	Medium plasticity, clay soils	N/A
Permeability* (m/d) 0.3	0.15-0.30	0.08-0.15 0.30-0.60	0.06-0.08 0.60-1.50	1.50,200	 20.06 2 Light 22.00 	2	Light clays	LAA size to be determined by water balance calculations
Soil Permeability 2 Category ¹	2 and 3	4		5°67	Dand 6	13/30	Light clays	LAA size to be determined by water balance calculations
Coarse fragments* (%)	<10	10-20	20-40		840 L		None	N/A
Emerson Test* (dispersion / slaking)	4,6,8	Ŋ	7	2,3	1	110°Ume	Non-dispersive	N/A
Electrical Conductivity (Ece) (dS/m)	<0.3	0.3-0.8	0.8-2.0	2.0-4.0	>4.0	1	Non-saline South	N/A
Hd	6-8		4.5-6		<4.5, >8	-	Neutral soils A Market Control	N/A
 ¹ Source: AS1547-2012 ² Source BOM station – Benalla Airport (082170) ³ Source BOM station – Benalla Airport (082170) 2019 * Relevant to soil layer(s) associated with wastewater application * Relevant to soil layer(s) associated with wastewater application 	012 on – Ben on – Ben iyer(s) as Street &	alla Airport alla Airport sociated wi Clarendon	: (082170) : (082170) 2 ith wastewa ith wastewa Street, Badd	019 ater applicat daginnie	u		er en	20) 20) 2019 tewater application tewater application tewater application tewater application tewater application tewater application Baddaginie

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6. MANAGEMENT PROGRAM:

The onsite wastewater system design and management program must suit the capability of the site and will consider the proposed development. The following sections discuss the inputs used to assess the suitability and requirements of EPA approved land based systems. Detailed design for the system is beyond the scope of this study.

6.1 Treatment System:

Based on site conditions and constraints outlined in the previous sections, secondary treatment of effluent is considered necessary for sustainable management of wastewater.

Untreated domestic wastewater typically has values of 200-300mg/L biochemical oxygen demand (BOD5) and 200-300mg/L total suspended solids (TSS). Indicative target effluent quality for secondary treatment systems are < 20mg/L BOD5, < 30mg/L TSS and <10cfu/100mL E.Coli.

The two most common options capable of achieving the desired performance are, aerated wastewater treatment systems (AWTS) and single pass sand filters. A summary of these systems is outlined below.

6.1.1 Aerated Wastewater Treatment System (AWTS):

AWTS are pre-fabricated or pre-engineered treatment systems designed to treat small wastewater flows. They are tank-based systems that typically employ the following processes:

- Settling of solids and flotation of scum in an anaerobic primary chamber.
- Oxidation and consumption of organic matter through aerobic biological processes.
- Clarification secondary settling of solids; and
- Disinfection prior to disposal

Good maintenance of AWTS (e.g. removal of sludge) is essential to ensure a consistently high level of performance. By law, AWTS are required to be serviced quarterly by an approved maintenance contractor.

6.1.2 Sand Filters:

Sand filters provide advanced secondary treatment to water that has already undergone primary treatment in a septic tank or similar device. They contain approximately 600mm depth of filter media (usually medium to coarse sand, but other media can be incorporated) within a lined excavation containing an underdrain system. Selection of the filter media is critical, and a carefully designed distribution network is necessary. A dosing well and pump is normally used to allow periodic dosing. Depending on the desired level of treatment, sand filters can be single pass or may incorporate partial recirculation.

6.2 Treatment System Location:

Based on requirements of EPA 891.4, above-ground and in-ground treatment systems must comply with the same setback distances to building footings and boundary fences as land application systems.

A.C. Geotechnical. 6.2.1 Septic Tank Sizing:

The minimum septic tank size should be 4,000 L.

6.3 Land Application:

A range of possible land application systems have been considered, such as absorption trenches/beds, evapotranspiration/absorption (ETA) beds, mound systems and sub-surface irrigation. AS1547:2012 outlines factors affecting the construction and operation of common land application systems and a guide to selecting a system taking into consideration site features, subsurface soil conditions and identified constraints. The suitability of EPA approved land based systems are discussed in **Table 6.3**.

	Land Application	Description	Site Suitability
-	Absorption Trenches	Trenches are the most common type of land application	Not considered suitable due to smal lot size
÷.		flat and where water soaks into the soil readily in all weather	
		conditions. Commonly, distribution pipes, self-supporting arch	forted.
		trenching or box trenching are laid in trenches filled with	
		aggregate/rock. Effluent then soaks into the surrounding soil.	
	ETA Beds	Beds are shallower forms of trenches. Because beds have	Suitable
		smaller sidewall area compared with trenches, the absorption	
		provided by sidewall loading is reduced. This is compensated	
		for by reducing the design loading rate	
	Wick trench	Wick trenches consists of an absorption trench with an	Suitable
		adjoining shallow wicking bed. This system promotes high	
		evaporation and transpiration by having a larger surface area	
i.		than other trench / bed systems.	
	Mound System	A mound system permits the absorption area to be sited in a	Suitable
		location where the natural water table or impermeable rock	
		approaches the ground surface. The mound is filled with	
		medium-grade sand to provide suitable filtering before	
		intercepting the natural soils. A pump/siphon dosing system	
		distributes effluent uniformly through a bed of aggregate	
	2	placed at the top of the mound.	
	.0		
	-02.	The sand media in the mound system acts as a secondary	
	, ^{CC} , P	treatment system, removing the need for a separate sand	
	el d'	filter or AWTS	
	Sub-surface Irrigation	Subsurface drip irrigation requires secondary treated effluent	Suitable
	23 000 00	dosing lines buried in the topsoil at shallow depth. Irrigation	
	the incorrect	Gystems operate by both soil absorption and	
	<u>6</u>	evapotranspiration from plants/trees	
2	10 Jon 3/11	A mound system permits the absorption area to be sited in a location where the natural water table or impermeable rock approaches the ground surface. The mound is filled with medium-grade sand to provide suitable filtering before intercepting the natural soils. A pump/siphon dosing system distributes effluent uniformly through a bed of aggregate placed at the top of the mound. The sand media in the mound system acts as a secondary treatment system, removing the need for a separate sand filter or AWTS Subsurface drip irrigation requires secondary treated effluent dosing lines buried in the topsoil at shallow depth. Irrigation systems operate by both soil absorption and evapotranspiration from plants/trees	
	Su di alle		
0000			
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al' X)° , 0,		
	all'		
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6.3.1 Disposal systems:

Water balance modelling has been undertaken to calculate the minimum size of the LAA. The water balance takes into account the average annual rainfall, evaporation data, the daily effluent load, the design irrigation/loading rates for secondary treated effluent, the seasonal crop factor and the retained rainfall. The water balance model is designed so that the land application area is based upon a depth of saturated soil (i.e. water stored within indicative soil porosity) that meets the upper limits of acceptance for each land application method. The water balance must ensure that the soil can sustain growth during the summer months. The design system parameters used for the water balance calculations are summarised in **Table 6.3.1**.

Application System	DIR / DLR	Runoff coefficient 🖉 Maximum	storage
		depth	
Absorption trenches		Not suitable	
ETA Beds	10	25% 10 10 0 mm	
Wick trench	10	6 9 17 × 40 - 2	
Mound System	5	25% 0 mm	
Sub-surface irrigation	3	25% 0 mm	
	Absorption trenches ETA Beds Wick trench Mound System	Absorption trenchesETA Beds10Wick trench10Mound System5	Absorption trenchesNot suitableETA Beds1025%0 mmWick trench10Mound System525%0 mm

6.4 Land Application Outputs:

Minimum Land Application Area (LAA) sizing for each application method was calculated using water balance calculations. LAA sizing calculations are included in **Appendix D**. The minimum required disposal area for each system is summarised in **Table 6.4**.

Table 6.4 Required Land Application Area (LAA)

Dwelling Size	4 Bedroom Dwelling
Wastewater output	900 L / day
Disposal System	Minimum LAA required
Wick trench	68 m (160 m wide trenches)
Subsurface irrigation	410 m ²
ETA Beds	100 m ²
Mound	220 m ²

6.5 Proposed Wastewater Envelope

The proposed lots have adequate space to provide a 410 m² LAA for subsurface irrigation. An irrigation area of 410m² only takes up approximately 10% of the smallest lot size and will have minimum impact of proposed building locations on each lot.



6.6 Designated Area:

The Land Application Area (LAA) shall be located in a designated area to enhance evapotranspiration and shall:

- Not be used for purposes that compromise the effectiveness of the system or access for maintenance.
- Be used only for effluent application.
- Have boundaries clearly delineated by appropriate vegetation or other type of border.
- Have no run-off seepage or effluent beyond the designated area.

The site plan in **Appendix A** presents several potential areas suitable for LAA placement as well as setback areas from site features which must be maintained. Please note that the final LAA placement is the responsibility of the owner and should be included in a detailed design providing the minimum LAA and setback distances are maintained.

The required LAA will be smaller than that marked on the site plan. An appropriately sized LAA, as discussed in **Section 6.4**, must be located entirely within the area nominated on the site plan.

Setback distances for secondary treated wastewater disposal are included in Section 6.6.1.

6.6.1 Setback Distances:

The minimum setback distances for secondary treated wastewater are summarised in **Table 6.6.1**. The proposed LAA must adhere to these minimum setback distances.

Table	6.6.1	Minimum	Setback	Distances	
					5

Landscape feature or structure Building Wastewater field up-slope of building Wastewater field down-slope of building Wastewater field up-slope of cutting/escarpment Allotment boundary	Setback distance (m) (secondary treated wastewater)
Building	
Wastewater field up-slope of building	3
Wastewater field down-slope of building	1.5
Wastewater field up-slope of cutting/escarpment	15
Allotment boundary	
Wastewater field up-slope of Allotment boundary	3
Wastewater field down-slope of Allotment boundary	1.5
Services O V	
Water supply pipe	1.5
Wastewater field up-slope of potable supply channel	150
Wastewater field down-slope of potable supply channel	10
Gas supply pipe	1.5
In-ground water tank	7.5
Stormwater drain	3
Recreational areas	
Children's grassed playground	3
In-ground swimming pool	3
Surface water – up-slope of	
Waterway, non-potable creeks, dams, channels	30
Groundwater bores	
Category 2b to 6 soils	20



Monitoring, Operation and Maintenance:

The septic tank is de-sludged every 3 years; however, this frequency may vary depending on the following conditions.

- whether the tank is an adequate size for the daily wastewater flow

overuse of disinfectants and bleaches
overuse of antibiotics and other drugs, especially dialysis and chemotherapy drugs
whether any plastic or other non-organic items are flushed into the tank. and will assist in the immediate re-establishment of bacterial action in the tank.

To ensure the treatment systems function adequately, residents must:

- Use soapy water (made from natural unscented soap), vinegar and water or bi-carbonate of soda and water to clean toilets and other water fixtures and fittings.
- Read labels to learn which bathroom and laundry products are suitable for septic tanks. Generally plain, noncoloured, unscented and unbleached products will contribute to a wellfunctioning septic tank.
- Use detergents with low levels of salts (e.g. liquid detergents), sodium absorption ratio, phosphorus and chlorine (see www.lanfaxlabs.com.au).
- Wipe oils and fats off plates and saucepans with a paper towel and dispose of in the kitchen compost bin.
- Use a sink strainer to restrict food scraps entering the septic system.
- Ensure no structures such as pavements, driveways, patios, sheds or playgrounds are constructed over the tank or absorption trench area.
- Ensure the absorption trench area is not disturbed by vehicles or machinery.
- Engage a service technician to check the sludge and scum levels, pumps and alarms annually.
- Keep a record of the location of the tank and the trenches and all maintenance reports (including the dates of tank pump-outs, tank inspections and access openings) and ensure the service technician sends a copy of the maintenance report to the local Council.
- Have the tank desludged when the combined depth of the scum and sludge is equal to the depth of the middle-clarified layer.

Indications of failing septic tanks and soil absorption trenches

- Seepage along effluent absorption trench lines in the soil.
- Lush green growth down-slope of the soil absorption trench lines.
- Lush green growth down-slope of the septic tank.
- Inspection pits and/or the soil absorption trenches consistently exhibiting high water levels. •
- Soil absorption trench lines become waterlogged after storms.
- General waterlogging around the land disposal area. •



- Presence of dead and dying vegetation (often native vegetation) around and down-slope of the land disposal areas.
- A noxious odour near the tank and the land disposal area.
- Blocked water fixtures inside the house, with sewage overflowing from the relief point.
- High sludge levels within the primary tank (within about 150 mm of inlet pipe).
- Flow obstructed and not able to pass the baffle in the tank.
- The scum layer blocking the effluent outflow.

6.7.1 Storm Water Management:

All stormwater must be disposed of to the legal point of discharge.

AS BY TAKING 2 2000 and Water P clas Note: An agricultural drain (AG) must be installed on the high side of the wastewater envelope. The drain is to be installed a minimum of 100mm into the naturally occurring clay soils and allow sufficient fall to intercept and drain all overland and subsurface run off to a legal point of discharge. If a legal point of discharge cannot be obtained, the drainage line may discharge directly to the surface soils, a minimum distance of 10 metres beyond the wastewater disposal area.

7. **CONCLUSIONS:**

From this investigation it is concluded that the use of an on-site wastewater treatment and disposal system on each proposed lot is environmentally sustainable if the recommendations made in this report are followed.

8. **REFERENCES:**

that and

- Environmental Protection Authority Guideline for onsite wastewater management, May 2024,
- Municipal Association Victoria (MAV) January 2014, Model Land Capability Assessment Framework 2
- Australian/New Zealand Standard AS/NZS 1547-2012 On-site domestic wastewater management.
- A.C. Geotechnical Pty Ltd Field and Laboratory data (where applicable) collected and recorded.
- Environmental Protection Authority "Code of Practice Septic Tanks", March 1996" ~

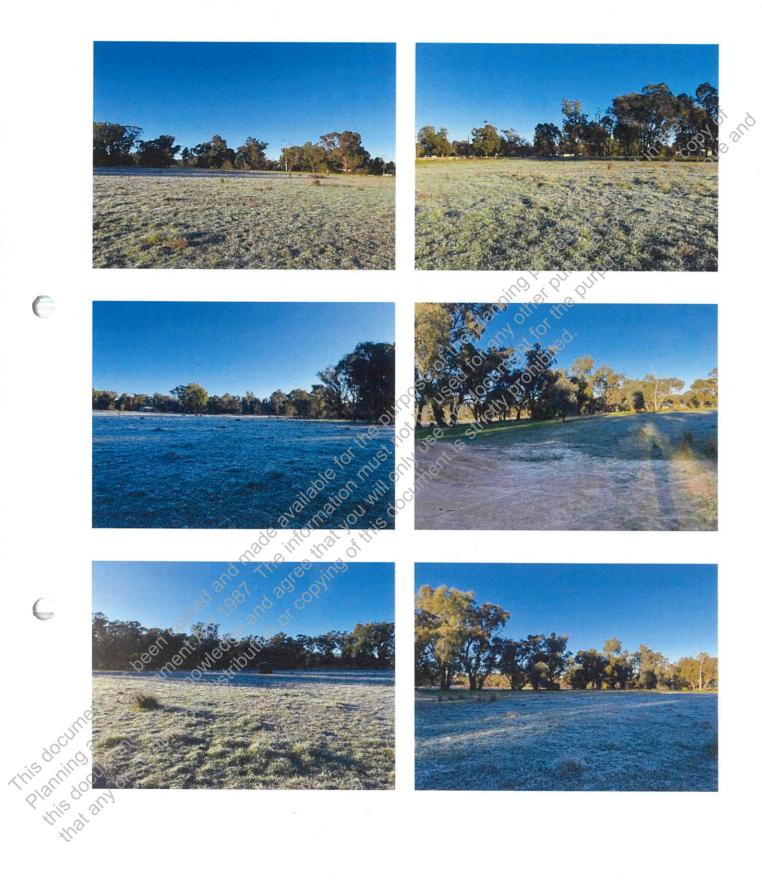
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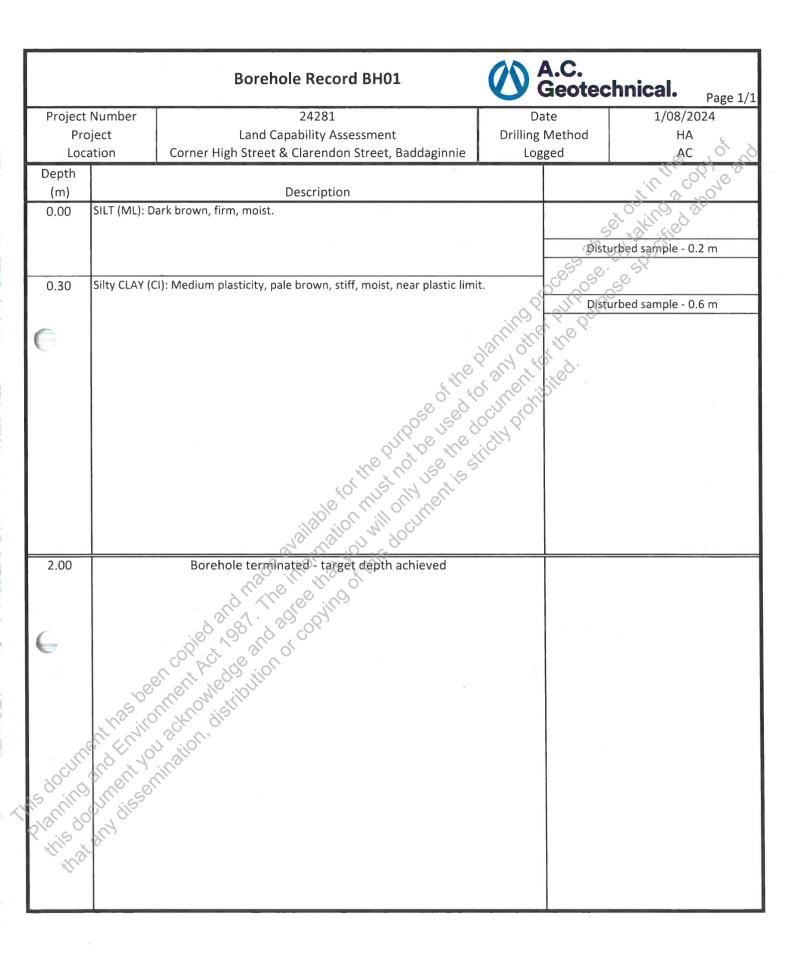
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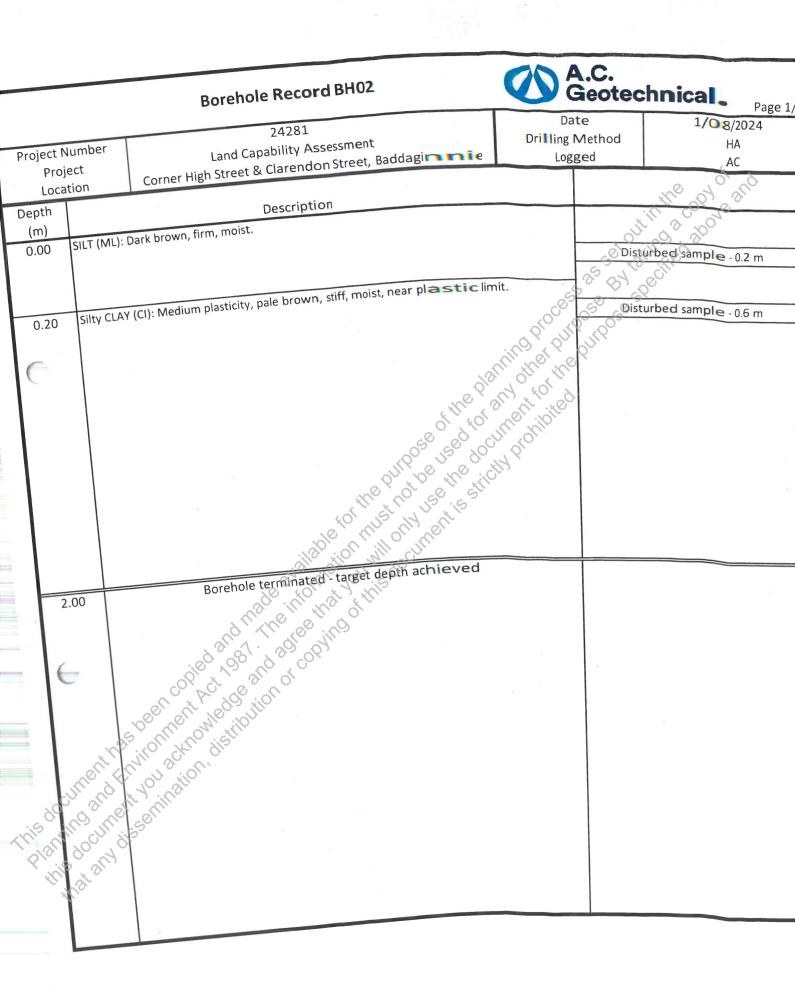


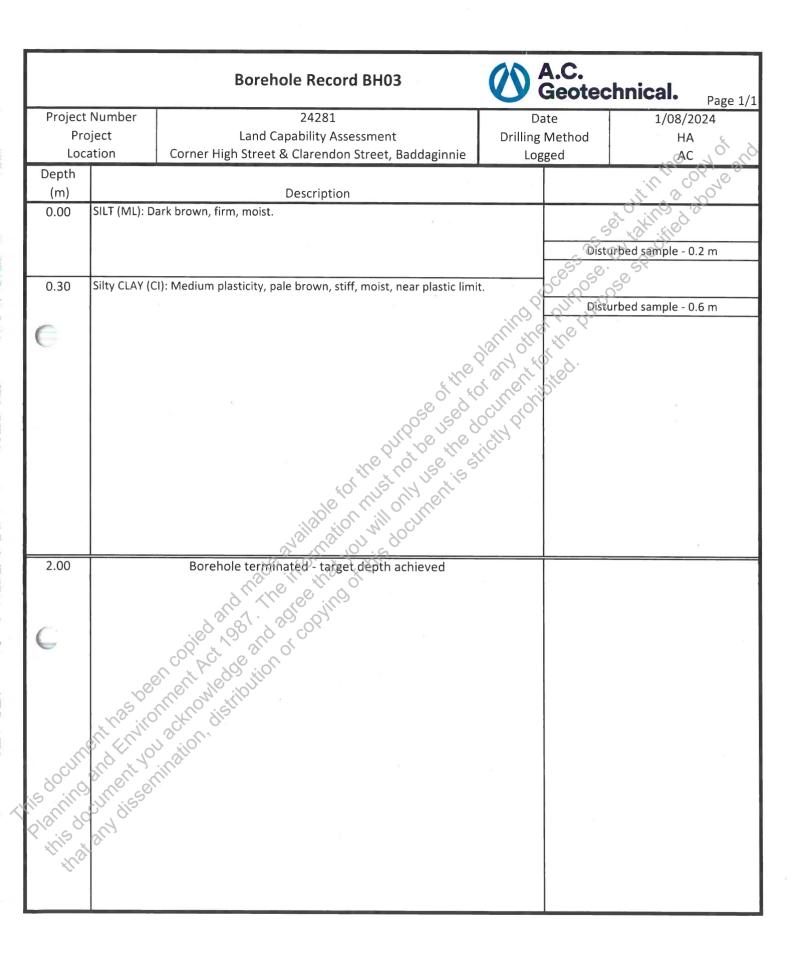




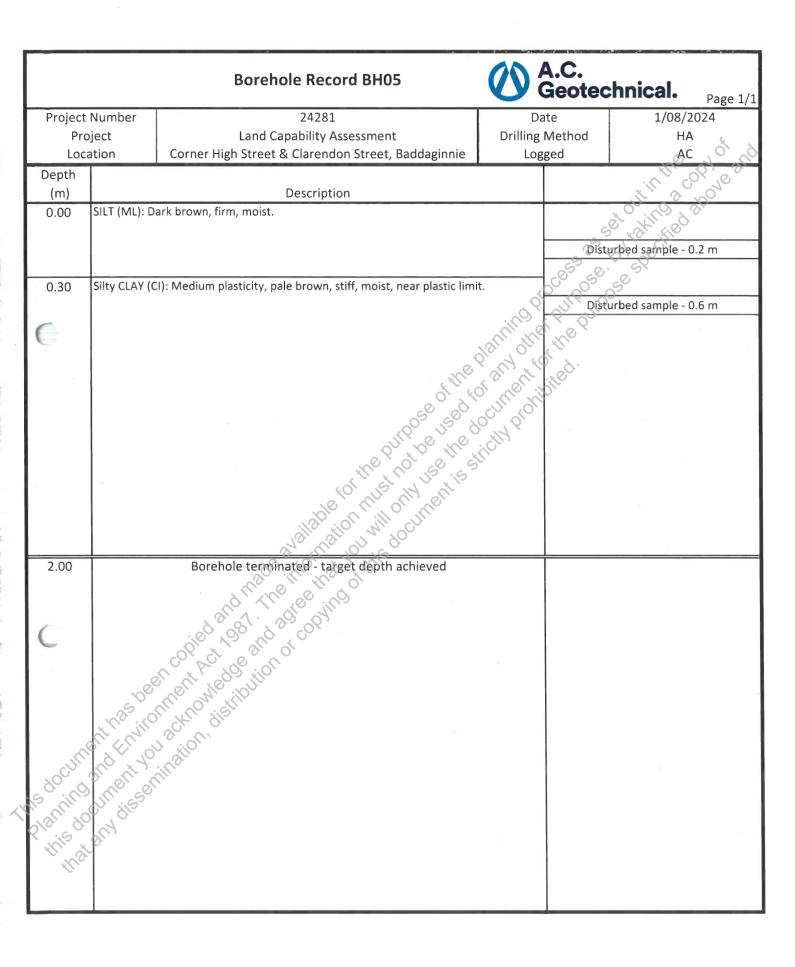
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		Borehole Record BH04		A.C. Geotec	hnical.	Page 1/
Project	Number	24281		Date	1/08/202	
	ject	Land Capability Assessment	Drillin	g Method	НА	6
	ation	Corner High Street & Clarendon Street, Baddaginnie	Lo	ogged	AC	0
Depth (m)		Description			902 11/1 11/1	10
	SILT (ML): D	Dark brown, firm, moist.				<u> </u>
				5	3 ¹ 3 ¹ 41 4100	
				Dist	irbed sample - 0.2 i	m
0.30	Silty CLAY (Cl): Medium plasticity, pale brown, stiff, moist, near plastic limi	t.	00050	505	
			~	Distu	rbed sample - 0.6	m
6	2		ninos	0 0 0 0 V		
			SU OH			
			and a	6		
			St not	jon -		
		Se Se	0 ^{CN} 0			
		UIR CONCO	Elly F			
			<u>SID</u>			
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		det mu on ner				
		ilation will cut				
2.00						
2.00		Borenole terminated - target depth achieved				
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		all 1. all on				
C		10° 10° 10° 10°				
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in Sx	36,					
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			Date	C. otechr	Page 1 1/08/2024
Project	Number	24281	Date Drilling Met	hod	HA
	ject	Land Capability Assessment	Logged	nou	AC 🖄
Loca	ation	Corner High Street & Clarendon Street, Baddaginnie	Loggeu		
Depth		Description			······································
(m)		Description Dark brown, firm, moist.			NT O NO
0.00				Č	Villes d.o.
				Disturbe	ed sample - 0.2 m
				5	390
0.30	Silty CLAY (CI): Medium plasticity, pale brown, stiff, moist, near plastic lin	nit.		3
				Disturbe	ed sample - 0.6 m
6		,	in sky	60.	
			AL OF A	, CO	
			Pro Con y	<i>.............</i>	
		A CONTRACT OF A CONTRACT.	10. TON TO		
		60 02			
		10 ⁰ 15 ⁶	90-14 6,		
		put pe the	*ilC'		
		11° 10' 15° 5	5.		
		for ust an article			
		ole antillor me			
		Cl): Medium plasticity, pale brown, stiff, moist, near plastic line			
		Resolution terminated - target denth achieved			
2.00		POLEUOIS retuinaten - raiger debrit deine ved			
		dring on the			
		ar 1. all on			
C		20 100 10 10 10 10 10 10 10 10 10 10 10 1			
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enned and the service and and a contraction of the service and the service and

INSITU CONSTANT HEAD PERMEABILITY



Project Address:		Corner High St	reet & Clarendo	n Street	Proj	ect Number:	24281	
Location:		Baddaginnie	÷		Date	2:	24/08/2024	
Client:		Jeremy Sloan					Ó	6
				INPUT DATA			the 61 3	1
	Borehole					Reservoir	97 mm O above	
Borehole diameter		100	cm		Diameter		97 mm 0 2	
Borehole Depth		500	cm		Base area	295	.4426 mm2	
Water level from surface		250	cm			33	STECH	
Depth of water in hole		250	cm			S	× s?	
				FIELD DATA	Average 11.817704	00000	50	1913
	Test 1	Test 2	Test 3	<u>Test 4</u>	Average 11.817704	8.0n12n16		
Time intervals (min)			n in reservoir		in a cife			
Initian Depth	200	200	200	200	all' d			
5					or and	40, 9.		
10					L'I' CI CO			
15				60	o d'a culti	2011	8	
20	192	192	193	191	SAverage Q			
Q (cm2/min)	11.817704	11.817704	10.340491	13.294917	Average 11.817704 0.007595333			
Ksat (cm/min	0.007595333	0.007595333	0.006645917	0.00854475	0.007595333			
Ksat (m/d)	0.109372798	0.109372798	0.095701199	0.123044398	0.109372798			
Ksat (m/d) Ksat (m/d)	opied and ant Act of ant Act of ation	made and and agree	orna you	il S				
L. War								

WICK TRENCH SIZE CALCULATIONS



Project Address:	Corner High Stree	et & Clarendon Street	Project Number:	24281
Location:	Baddaginnie		Date:	24/08/2024
Client:	Jeremy Sloan			525 25 EN taking a above a specified above a spe
		INPUT DAT	A	the of
Daily flow allowance (per	person)	180 L		il acou
Daily wastewater volume		900 L		
Effluent quality		Secondary		SOL MILLO
Soil texture		Sandy loam		25 BY CUIL
Soil structure		Massive	0	52 0. 58
Soil category		2b	.0 ⁰	00000
Indicative Permeability		1.4-3.0 Ksat	Q 21	. C. 16
Design Loading Rate		10 mm/d	alles et y	2,00
Factor of Safety		1.2	an the th	5 25 BY taking a above a specified above a speci
		ABSORPTION TR	RENCHES	
L = Q / (DLR x (W/F))		8	Still of a children	
Where:			e d' un ont	
L = length of trench		00	5 15 20 1 9	
Q = Design daily flow in L/	day	OULE	oe the icilit	
DLR = Design Loading rate	in mm/d	NO TOT	SO ST	
W = width of trench in m		or istil	J. is	
F = Factor of safety		le nu oni	CI	
Width of trench	1.6 m	191, 131, 07, 90M	Vidth of trench	2.5 m
Length =	68 m		ength =	43.2
ument has been come	pied and 1. The	10 mm/d 1.2 ABSORPTION TH ABSORPTION TH ABSORPT	RENCHES	
Ur.				

WATER BALANCE ETA BEDS

A.C. Geotechnical.

Project Address:	Corner	High Stre	et & Clare	endon Sti	reet		Project I	Number:		24281			
Location:	Baddag	innie					Date:			24/08/20			
Client:	Jeremy	Sloan										, Ŏ	0
			INPU	T DATA					W. State		the c	63 .	2
Daily flow allowance (per person)	180	L								11		-070	
Daily wastewater volume	900	L							×	0	0,2	<u>,</u> ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
Effluent quality	Secc	ondary							S	× X	500		
Effective rainfall	0.75	%							80	3.08			
Soil texture	Sand	y loam						S	_@`	S			
Soil structure	Ma	ssive						5°	స్ష	Ø			
Soil category	1.4	1-3.0					<i>6</i>	JIL	977				
Indicative Permeability	1.4-3.0	Ksat					ing a	× × <	5,				
0			ETA	BEDS		120	office of the second	the	N. 91. 1		19 2 2 Steel		
DLR .	10	mm/d			0	9.0	7.6	Sited.					
Porosity	40	%			N's	ior si	on.	10-					
Maximum Storage Depth	C	mm		0		<u>V</u> J		×					
Crop Factor - standard pasture	0.85	0.85	0.85	0.6	0.6		0.6	0.6	0.6	0.85	0.85	0.85	
crop factors -Lucene	0.95		0.85	0.8	0.7	0.55	0.55	0.65	0.75	0.85	0.95	1	
Crop factor - Shade	0.4	0.4	-11 ^{00.4}	0.4	0.4	5 ¹¹ 0.4	0.4	0.4	0.4	0.4	0.4	0.4	
Crop factor - woodlot	1	. 1	r, ''	0.4	0.7	1	1	1	1	1	1	1	
Rainfall Data	Benalla Airport (08217)	0)	in ili	only	er l								
Evaporation Data	Benalla Airport (08217	2 96		JU.									
Parameter	Unit Jano	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Days in month		28	્રંગ	30	31	30	31	31	30	31	30	31	3
Rainfall (mm)	, 70° , 31 (43.3	41.3	43.4	50.7	45.6	55.3	49.5	62.5	53.5	65.3	65.2	54.7	63
Evaporation (mm)	2013	165.2	133.3	75	40.3	30	31	43.4	69	105.4	138	179.8	121
Output	31. 20	N'											
Eva *ranspiration (mm)	0 0 171.28	140.42	113.31	45	24.18	18	18.6	26.04	41.4	89.59	117.3	152.83	957
Percolation (mm)	310	280	310	300	310	300	310	310	300	310	300	310	36
Total Output (mm)	481.28	420.42	423.31	345	334.18	318	328.6	336.04	341.4	399.59	417.3	462.83	460
Inputs	Me jos												
Effective Rainfall (mm)	32.475	30.975	32.55	38.025	34.2	41.475	37.125	46.875	40.125	48.975	48.9	41.025	472
Application Rate (mm)	279	252	279	270	279	270	279	279	270	279	270	279	32
Total Inputs (mm)	311.48	-420.4	311.55	308.03	313.2	311.48	316.13	325.88	310.13	327.98	318.9	320.03	375
Days in month Rainfall (mm) Evaporation (mm) Output Eva *ranspiration (mm) Percenation (mm) Total Output (mm) Inputs Effective Rainfall (mm) Application Rate (mm) Total Inputs (mm) Storage Calculations Waste Loading (mm) Volume of Wastewater (mm) Cumulative Storage (mm) Area													
Waste Loading (mm)	448.8	389.45	390.76	306.98	299.98	276.53	291.48	289.17	301.28	350.62	368.4	421.81	
Volume of Wastewater (mm)	27900	25200	27900	27000	27900	27000	27900	27900	27000	27900	27000	27900	328
Cumulative Storage (mm)	(0 0	0	0	0	0	0	0	0	0	0	0	
Area												100	m2
								÷					
Width 👋												3	m

WATER BALANCE SUBSURFACE IRRIGATION

へ



Project Address:	Corner Hig	h Street	& Clarer	ndon Str	eet		Project N	umber:		24281			
Location:	Baddaginni	ie					Date:			24/08/2	024	6	
Client:	Jeremy Slo	an									0.	, Ŏ	6
			INPUT	DATA					25 6) 55 6) 55 6) 10 10 10 10 10 10 10 10 10 10 10 10 10 1		fre C	63	0
Daily flow allowance (per person)	180 L									Ľ,	<u>~</u>	070	
Daily wastewater volume	900 L								×	00.0	O	<u>,</u>	
Effluent quality	Seconda	ary							S	× 2F	5,00		
Effective rainfall	0.75 %								80	1 6	3		
Soil texture	Sandy lo	am						S	~Q``	se			
Soil structure	Massiv	'e						50.0	5 6				
Soil category	2b						°6,	JIC	977				
Indiantive Permeability	1.4-3.0 Ks	at		3			ingpr		<u></u>				
U		SUBS	URFACE	IRRIGA	TION	136	oth	the.				1.44	lines es
DLR	3 mi	m/d				101 31	<u>7, </u> 60	jited.					
Porosity	45 %				0,7,	5'0	0°.						
Maximum Storage Depth	0 mi	m	0	0	0. 9	NU	lent in	÷.					
Crop Factor - standard pasture	0.85	0.85	0.85	0.6	50.6	0.6	0.6	0.6	0.6	0.85	0.85	0.85	
crop factors -Lucene	0.95	0.9	0.85	0.8	0.7	0.55	0.55	0.65	0.75	0.85	0.95	1	
Crop factor - Shade	0.4	0.4	@.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	
Crop factor - woodlot	1	1	à.	N Y	0.4	1	1	1	1	1	1	1	
Rainfall Data	Benalla Airport (082170)	s d	() (S S								
Evaporation Data	Benalla Airport (082170)	10		CUM									
Parameter	Unit Jan Fe	b M 28 41.3	ar A	pr I	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Days in month	45, 02	28	31	30	31	30	31	31	30	31	30	31	365
Rainfall (mm)	31 (43.3)	41.3	43.4	50.7	45.6	55.3	49.5	62.5	53.5	65.3	65.2	54.7	630.3
Evaporation (mm)	2015	165.2	133.3	75	40.3	30	31	43.4	69	105.4	138	179.8	1211.9
Output	21 1. 29 01												
Ev anspiration (mm)	171.28 1	40.42 1	13.31	45	24.18	18	18.6	26.04	41.4	89.59	117.3	152.83	957.94
Percolation (mm)	93	84	93	90	93	90	93	93	90	93	90	93	1095
Total Output (mm)	264.28 2	24.42 2	06.31	135	117.18	108	111.6	119.04	131.4	182.59	207.3	245.83	2052.9
Inputs per nor wi	ulp'												
Effective Rainfall (mm)	32.475 3	0.975	32.55	38.025	34.2	41.475	37.125	46.875	40.125	48.975	48.9	41.025	472.73
Rainfall (mm) Evaporation (mm) Output Evanopiration (mm) Percolation (mm) Total Output (mm) Inputs Effective Rainfall (mm) Application Rate (mm) Total Inputs (mm) Storage Calculations Waste Loading (mm) Volume of Wastewater (mm) Cumulative Storage (mm)	68.049 6	1.463 6	8.049	65.854	68.049	65.854	68.049	68.049	65.854	68.049	65.854	68.049	801.22
Total Inputs (mm)	100.52 -	224.4	100.6	103.88	102.25	107.33	105.17	114.92	105.98	117.02	114.75	109.07	1273.9
Storage Calculations													
Waste Loading (mm)	231.8 1	93.45 1	73.76	96.975	82.98	66.525	74.475	72.165	91.275	133.62	158.4	204.81	
Volume of Wastewater (mm)	27900 2	25200 2	27900	27000	27900	27000	27900	27900	27000	27900	27000	27900	328500
Cumulative Storage (mm)	0	0	0	0	0	0	0	0	0	0	0	0	
Land area required												410	m2
*//.0													

WATER BALANCE MOUND SYSTEM



Project Address:	Corner H	igh Stree	et & Clare	endon Str	eet		Project N	lumber:		24281			
Location:	Baddagin	nie					Date:			24/08/20	024		
Client:	Jeremy S	loan				8						~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	
			INPU'	T DATA							Sec.	to	an
Daily flow allowance (per person)	180									2.	,	NY C	
Daily wastewater volume	900									J'	20	,0°	
Effluent quality	Secon	dary							ò	il il	6	0	
Effective rainfall	0.75	%							5	×0`	illo		
Soil texture	Sandy	loam						3	0.0	3,00			
Soil structure	Mass	sive						Ser Contraction	SO'	0			
Soil category	21)					5	0, 10	, ₀ 0.	2			
Indicative Permeability	1.4-3.0	Ksat				-	O.	Q. (JILE				
C			MOUND	SYSTEM	1	6	" ne	in o			Nachara		
DLR	5	mm/d				010.	10,00	5°.			19 d a		
Porosity	40	%			200	S S	The C.						
Storage Depth	0	mm			5	0		5/2					
Crop Factor - standard pasture	0.85	0.85	0.85	0.6	0.6	0.6	0.6	0.6	0.6	0.85	0.85	0.85	
crop factors -Lucene	0.95	0.9	0.85	0.8	S 0.7	0.55	0.55	0.65	0.75	0.85	0.95	1	
Crop factor - Shade	0.4	0.4	0.4	0.4	0.7	0.4	0.4	0.4	0.4	0.4	0.4	0.4	
Crop factor - woodlot	1	1	× 1	01	S. 2	51	1	1	1	1	1	1	
Rainfall Data Benalla	Airport (082170)	50	MUS	14	N.								
Evaporation Data Benalla	Airport (082170)	<u>\</u> @`.			ent								
Parameter Unit	Jan	Feb		Ant		Jun	Jul	Aug	Sep	Oct	Nov	Dec	Tota
Days in month	31	28	31	30	31	30	31	31	30	31	30	31	3
Rainfall (mm)	6 43.3	41.3	43.4	50.7	45.6	55.3	49.5	62.5	53.5	65.3	65.2	54.7	63
Evaporation (mm)	201.5	165.2	133.3	75	40.3	30	31	43.4	69	105.4	138	179.8	121
Output	11,00	ins											
Evapotranspiration (mm)	171.28	140.42	113.31	45	24.18	18	18.6	26.04	41.4	89.59	117.3	152.83	957
Per ation (mm)	155	140	155	150	155	150	155	155	150	155	150	155	1
Total Output (mm)	326.28	280.42	268.31	195	179.18	168	173.6	181.04	191.4	244.59	267.3	307.83	278
Inputs	JUL												
Effective Rainfall (mm)	32.475	30.975	32.55	38.025	34.2	41.475	37.125	46.875	40.125	48.975	48.9	41.025	472
Application Rate (mm)	126.82	114.55	126.82	122.73	126.82	122.73	126.82	126.82	122.73	126.82	122.73	126.82	149
Parameter Unit Days in month Rainfall (mm) Evaporation (mm) Output Evaportranspiration (mm) Pel_ation (mm) Total Output (mm) Inputs Effective Rainfall (mm) Application Rate (mm) Total Inputs (mm) Storage Calculations Waste Loading (mm) Volume of Wastewater (mm)	159.29	-280.4	159.37	160.75	161.02	164.2	163.94	173.69	162.85	175.79	171.63	167.84	196
Storage Calculations													
Waste Loading (mm)	293.8	249.45	235.76	156.98	144.98	126.53	136.48	134.17	151.28	195.62	218.4	266.81	
Volume of Wastewater (mm)	27900	25200	27900		27900	27000	27900	27900	27000	27900		27900	
Cumulative Storage (mm)	0	0	0	0	0	0	0	0	0	0	0	0	
Basal Area	-			-	-				0	Ū	Ū		m2

NUTRIENT BALANCE



	Corner High Street & Cla	rendon Street		Project Number:	24281	
Location:	Baddaginnie			Date:	24/08/2024	٤.
Client:	Jeremy Sloan				0.	0, 0
	Nitr	ogeb Balance -Nitroge	en		the	06, 3,
Hydraulic Loading		900	l/day		111 2	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
Effluent N concentration		25	mg/l		to ind a	3
Daily N loading		22500	mg/day	<i>c</i>	So KALIGIO	
Annual N loading		8212500	mg/year	6 73	By con	
Denitrification loss		20	%	653 68	y.* , 5X	
Denitrification loss		6570000	mg/year	100-000	_05°	
Total annual N loading		6.57	kg/year	0 9 ON JI	2	
Plantuptake		220	kg/ha/year			
Minimum area for uptake		299	m2	Off. All		
		Up Up of				
C	led and made available to a led and made and in the information of copying the and a led a	this document				
Location: Client: Hydraulic Loading Effluent N concentration Daily N loading Annual N loading Denitrification loss Total annual N loading Plant uptake Minanum area for uptake Minanum area for uptake	Act 108 and 201 copying to the straight of the	A this document				



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PROPERTY REPORT

From www.land.vic.gov.au at 0	9 August 2024 07:17 PM
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PROPERTY DETAILS

Address:	HIGH STREET BADDAGINNIE 3670	
Crown Description:	This property has 2 parcels. See table below	
Standard Parcel Identifier (SPI):	See table below	
Local Government Area (Council):	BENALLA	www.benalla.vic.gov.au
Council Property Number:	A19289	the of any
Directory Reference:	Vicroads 47 F3	in corve
SITE DIMENSIONS All dimensions and areas are approximate	. They may not agree with those shown on a title or plan.	ating ab
HIGH STREET HUME HIGHWAY 102.5	Area: 40583 sq. m (4.06 ha) Perimeter: 806 m For this property: Site boundaries Road frontages Dimensions for individual parcels require a separate se for individual units are generally not available.	arch, but dimensions

SITE DIMENSIONS



Calculating the area from the dimensions shown may give a different value to

_	Lot/Plan or Crown Description	SPI)	6
Γ	TOWNSHIP OF BADDAGINNIE	à a	þ.
A	Allot. 25	25\PP5026	2
В	Allot. 26	26 PP5026	
-		2 4/1	

Melbourne Water: Power Distributor:

Outside drainage boundary AUSNET

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PROPERTY REPORT: HIGH STREET BADDAGINNIE 3670

PROPERTY REPORT



Railway station

PLANNING INFORMATION

Area Map

Property Planning details have been removed from the Property Reports to avoid duplication with the Planning Property Reports from the Department of Transport and Planning which are the authoritative source for all Property Planning information.

The Planning Property Report for this property can found here - <u>Planning Property Report</u>

Planning Property Reports can be found via these two links Vicplan https://mapshare.vic.gov.au/vicplan/ Property and parcel search https://www.land.vic.gov.au/property-and-parcel-search

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PROPERTY REPORT: HIGH STREET BADDAGINNIE 3670

PLANNING PROPERTY REPORT



ing.vic.gov.au at 09 August 2024 07:16 PM

PROPERTY DETAILS

Address:	HIGH STREET BADDAGINNIE 3670	
Crown Description:	More than one parcel - see link below	
Standard Parcel Identifier (SPI):	More than one parcel - see link below	
Local Government Area (Council):	BENALLA	www.benalla.vic.gov.au
Council Property Number:	A19289	the of the
Planning Scheme:	Benalla	Planning Scheme - Benalla
Directory Reference:	Vicroads 47 F3	× ON O NO
This property has 2 parcels. For full	parcel details get the free Property report at <u>Property Reports</u>	50 × 34 . 410 ×
		2 ast ect

UTILITIES

Rural Water Corporation: Urban Water Corporation: Goulburn Valley Water Melbourne Water: Power Distributor:

Goulburn-Murray Water Outside drainage boundary AUSNET

STATE ELECTORATES

Legislative Council:

Legislative Assembly:

0. NORTHERN VICTORIA

EUROA other annin

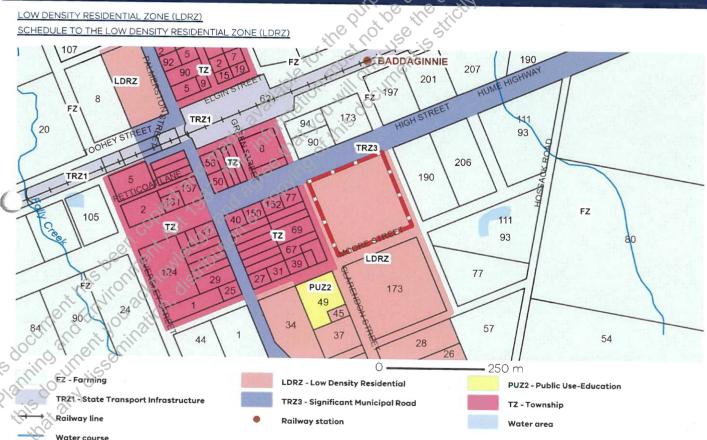
OTHER

Registered Aboriginal Party: Yorta Yorta Nation Aboriginal

Corporation

Planning Zones

View location in VicPlan



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

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PLANNING PROPERTY REPORT



Planning Overlay

None affecting this land - there are overlays in the vicinity

OTHER OVERLAYS

Other overlays in the vicinity not directly affecting this land



Further Planning Information

Planning scheme data last updated or 7 August 2024.

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

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

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

To view planning 20nes, overlay and heritage information in an interactive format visit https://mapshare.maps.vic.gov.au/vicplan

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

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PLANNING PROPERTY REPORT

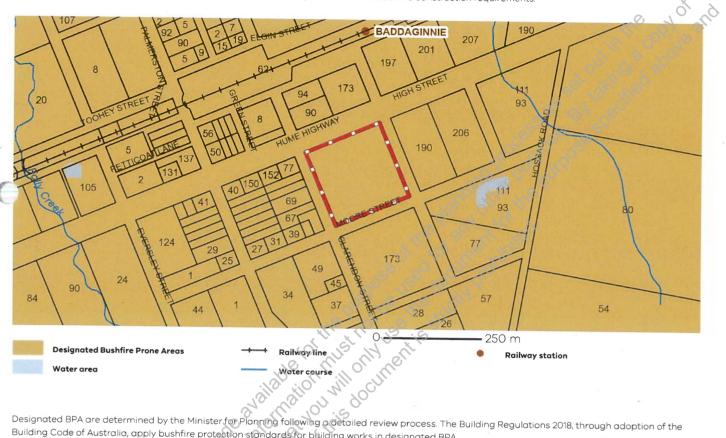


Designated Bushfire Prone Areas

This property is in a designated bushfire prone area. Special bushfire construction requirements apply to the part of the property mapped as a designated bushfire prone area (BPA). Planning provisions may apply.

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

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



Building Code of Australia, apply bushfire protection standards for building works in designated BPA

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

Create a BPA definition plan in VicPlan to measure the BPA

.0

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

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

Native Vegetation

S

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

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

You can find out more about the natural values on your property through NatureKit NatureKit (environment.vic.gov.au)

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NOWN PLANNING REPORT LOT SUBDIVANCE

ADDRESS ADDRESS Onr High & Clarendon Street Baddaginnie PREPARF⁺ Je⁻ anning annent vol arendo Baddaginnie anning annent vol arendo PREPARF Jer



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SURVEY DESIGN PLANNING

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1.0 APPLICATION

1.1 INTRODUCTION

This report has been prepared by Onleys on behalf of our client and landowners in support of a planning permit application seeking approval for a 6 Lot Subdivision of land. The subject land parcels are located at High Street, Baddaginnie being Crown Allotments 25 & 26 in the Parish of Warrenbayne. The subject lot is zoned Low Density Residential Zone, fronts a Transport 3 Zone and is not impacted by any Council Overlays save for a Designated Bushfire Prone Overlay.

1.2 PLANNING SCHEME REQUIREMENTS

Under the Benalla Shire Planning Scheme, a proposal of this nature generates a planning permit requirement addressing the following provision.

- Clause 32.03-3 of the Low Density Residential Zone indicates a permit is required to subdivide land.

1.3 SUMMARY

C

The site in question is a 4.00 - hectare allotment located on the south side of High Street, in the eastern area of the Benalla Township. The lot is zoned Low Density Residential.

The intention of this proposal is to subdivide the 4.00 hectares, into five residential based lots sized between 4071m² & 2.036 hectares, all with independent access to High Street or Clarendon Street.

The report addresses how the proposal meets the following requirements of the Moira Planning Scheme.

2.0 NOMINATED SITE & LOCALITY

2.1 SITE SUMMARY

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The site is located at on the Corner of High & Clarendon Streets, Baddaginnie and is located within the eastern aspect of the Benalla Township, a short walk from the centre of town.

The allotment in question is square in shape, with the \ northern boundary having a large frontage to High Street, the western boundary fronts Clarendon Street and the southern boundary fronts Moore Street. A non-developed road reserve adjoins the western boundary. The allotment is currently vacant, with a stock dam in the southwest corner. There is a combination of native and exotic vegetation on the site. The allotments will have ready access to power and telecommunication infrastructure.

The neighbouring surrounds are residential in nature to the south and west, with the immediate land to the north and east being zoned farmland. The land abuts a TRZ3 Council Road and a TRZ1 zone exists north of the allotment to support the Victrack Rail line. Allotments to the east appear to be lifestyle type properties despite being zoned Farm Zone. The Low Density Residential allotment to the south is also undeveloped.



Crown Allot 25 & 26 Parish of Warrenbayne

Figure 1 – Aerial Image of Subject Site

2.2 SURROUNDING LOCALITY

The allotment is in the east aspect of the Baddaginnie Township. The immediate surrounding area is zoned for Township Zone, Low Density Residential Zone, Farm Zone, with Transport Zone 1 being in the nearby vicinity.

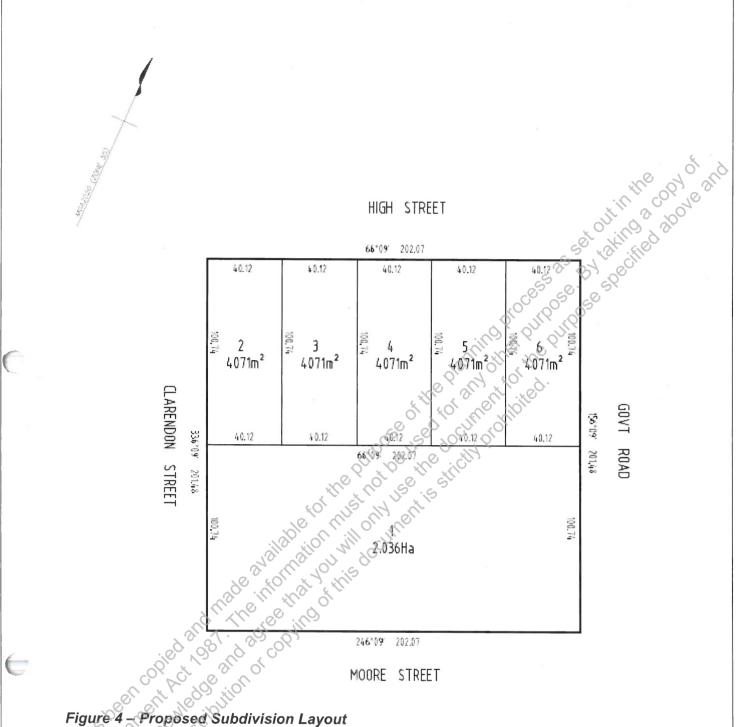




3.0 PROPOSAL

of High Street, comprising of a combined Vol headaging in Wishing of the School Densit Residential Zone. The proposed subdivision will comprise of the creation of 6 lots within Crow Allotments 25 & 26 in the Parish of Warrenbayne.
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3.1 SITE LAYOUT

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The proposed subdivision creates 6 new lots from the original allotment. The allotments will either have a north or west facing orientation with independent access for each allotment from High or Clarendon Street. The design for this development factors in the integration of street network, and relevant available utilities to effectively service this proposal.

4.0 PLANNING ASSESSMENT

The application is assessed against the following provisions of the Moira Shire Planning Scheme.

Section	Clause #	Provision
General Provisions		8
Planning Policy Framework		the c
	2.01	Context
	2.02	Vision
	02.03-1	Settlement
	02.03-6	Housing
	11.01-1S	Settlement
	11.02-3S	Sequencing of Development
	12.01-1S	Protection of Biodiversity
7	12.05-2S	Landscapes
	13.02-1S	Bushfire Planning
	13.04-1S	Contaminated and potentially contaminated land
	15.01-3S	Subdivision design
Particular Provisions		a de stration
Zones	Constant Survey	0° 5° 00 0°
	32.03	Low Density Residential Zone
	65.02	Decision Guidelines - Subdivision
	the c	\$. S
	56 40 5	Residential Subdivision

4.1 PLANNING POLICY FRAMEWORK

Clause 2.01 Context

Benalla Rural City covers an area of 2354 square kilometres, has a population of 14,020 (VIF 2019) and is situated in Victoria's northeast approximately 180 kilometres from Melbourne. The urban centre of Benalla is the major city and supports a network of smaller towns including Baddaginnie, Goorambat, Devenish, Swanpool, Tatong, Thoona and Winton.

Benalla Rural City is a diverse rural municipality based on the Broken River. It also includes fertile agricultural land along the Hollands Creek which is a major tributary to the Broken River.

The major water features are the Broken River, Hollands Creek, Winton Wetlands, Lake Nillahcootie and Lake Benalla. The wetlands, river corridors, Mount Samaria State Park, Reef Hills State Park and parts of the Warby Ranges State Park form the major environmental features and, along with roadsides, support most of the remaining native vegetation.

The municipality is strategically located on the nationally significant Hume and Midland Highways and Melbourne to Sydney Railway. This convergence of transport routes means Benalla is a significant transport hub which is a major benefit to local industry.

The economy is focussed on Benalla's regional centre role, agricultural production, tourism and manufacturing. It is dominated by employment in the manufacturing, retail trade, agriculture and health and community services sectors. Ć,

The Benalla Central Business District (CBD) serves a large rural hinterland and provides a wide range of higher order community services and facilities but faces strong competition from Shepparton and Wangaratta.

The municipality has a strong industrial base located to the north and east of Benalla. The industries are generally based on specialist manufacturing, processing of timber products, value adding to agricultural produce and providing a service base for the region.

The rural areas of the municipality are acknowledged for good soils and access to irrigation water. The major agricultural industries are prime lamb, beef production and broad acre cropping, with some irrigation and dairying. More recent agricultural uses include viticulture, horticulture and forestry.

Clause 2.02 Vision

A sustainable, thriving and cohesive community where lifestyle, culture, health and wellbeing are supported by strong leadership and community partnership

Clause 2.03-1 Settlement

Benalla (pop 10,430 (VIF 2019)) is the major urban centre of the municipality, and provides the focus for most residential, commercial, retail and industrial opportunities. The Benalla CBD includes a traditional strip shopping centre along a main road and suffers from pedestrian and vehicular conflicts and retail fragmentation.

Benalla's central location in regional Victoria attracts regional offices for government departments and modern education facilities including the Goulburn Ovens Institute of TAFE.

Enterprise Park provides the bulk of industrial opportunities while Benalla has the capacity to accommodate larger industry that requires buffers to the north of town.

Benalla is situated on Lake Benalla, which is a significant natural feature of local and regional importance. Development at the interface with the lake environs needs to be carefully assessed and have regard to urban and landscape character including views.

Clause 2.03-6 Housing

Ageing population and decreasing household size requires the provision of a greater diversity in dwelling options. Medium density housing should maintain the character of residential areas and be located close to services. There is a high demand for supported accommodation for older people, particularly hostel and retirement housing.

The municipality has attracted residents to non-urban areas due to the ease of access from major population centres, attractive landscape and environment, lifestyle qualities and improved telecommunications. This form of land use can affect agricultural activities by

inhibiting the operation of farming activities raising the value of land above agriculture levels.

Rural residential living must be planned in locations that support existing communities and settlements, supplied with physical and community services, and not detract from agricultural or other land uses. acopyot , ve and

In managing housing, Council seeks to:

- Encourage a diverse housing mix that meets the changing demographics of the • community, including medium density housing, standard residential development. Yow density residential and rural living development.
- Support planned rural residential opportunities whilst minimising environmental or agricultural impacts.

Response: The proposal supports the intent of this clause in that it is a subdivision that will create low density residential opportunities in an area identified by Council as suitable for this style of development.

Clause 11.01-1S Settlement

This clause is of relevance to promote the sustainable growth and development of Victoria and deliver choice and opportunity for all Victorians through a network of settlements.

Strategies that are relevant to the proposal include:

- Develop sustainable communities through a settlement framework offering convenient access to jobs, services, infrastructure and community facilities.
- Support sustainable development of the regional centres of Ararat, Bacchus Marsh, Bairnsdale, Benalla, Castlemaine, Colac, Echuca, Gisborne, Hamilton, Kyneton, Leongatha, Maryborough, Portland, Sale, Swan Hill, Warragul/Drouin and Wonthaggi.
- Ensure regions and their settlements are planned in accordance with their relevant regional growth plan.
- Guide the structure, functioning and character of each settlement taking into account municipal and regional contexts and frameworks.
- Provide for growth in population and development of facilities and services across a regional or sub-regional network.

Response: The proposed subdivision is consistent with the above policies as it will create low density residential style allotments within the Council's Low Density Residential Zone. Opportunities for low density and rural living style developments were also identified in the Benala Urban Growth Strategy of 2019.

Clause 11.02-3S Sequencing of Development

This clause is of relevance to this application as its objective is to manage the sequence of development in areas of growth so that services are available from early in the life of new communities.

Strategies that are relevant to the proposal include:

- Define preferred development sequences in areas of growth to better coordinate infrastructure planning and funding.
- Ensure that new land is released in areas of growth in a timely fashion to facilitate coordinated and cost-efficient provision of local and regional infrastructure.
- Require new development to make a financial contribution to the provision of infrastructure such as community facilities, public transport, and roads.
- Improve the coordination and timing of infrastructure and service delivery in areas of growth.
- Support opportunities to co-locate facilities.
- Ensure that planning for water supply, sewerage and drainage works receives high priority in early planning for areas of growth.

Response: The proposed site is in the existing Low Density Residential area of Baddaginnie. The surrounding zones include Township Zone, Low Density Residential Zone, Farm Zone and a nearby Transport 1 Zone for the VicTrack Northeastern Railway Line

Both power and telecommunications are available for the site a Stormwater & Drainage assessment will form part of this application, along with a Land Capability Assessment to ascertain each lots suitability for wastewater management

Clause 12.01-1S Protection of Biodiversity

This clause is of relevance as it seeks to assist the protection and conservation of Victoria's Biodiversity.

Strategies relevant to the proposal include:

- Use biodiversity information to identify important areas of biodiversity, including key habitat for rare or threatened species and communities, and strategically valuable biodiversity sites.
- Strategically plan for the protection and conservation of Victoria's important areas of biodiversity.
- Ensure that decision making takes into account the impacts of land use and development on Victoria's biodiversity, including consideration of:
 - Cumulative impacts.
 - Fragmentation of habitat.
 - Avoid impacts of land use and development on important areas of biodiversity.

Response: The proposed allotments have a selection of Native & Exotic Vegetation, which are not proposed to be removed as part of this application.

Clause 12.05-2S Landscapes

This clause is of relevance as it seeks to protect and enhance significant landscapes and open spaces that contribute to character, identity, and sustainable environments.

The strategies associated with this objective include:

- Ensure significant landscape areas such as forests, the bays and coastlines are protected.
- Ensure development does not detract from the natural qualities of significant landscape areas.
- Improve the landscape qualities, open space linkages and environmental performance in significant landscapes and open spaces, including green wedges, conservation areas and non-urban areas.
- Recognise the natural landscape for its aesthetic value and as a fully functioning ingro system.
- Ensure important natural features are protected and enhanced.

Response: The proposed lots have been appropriately sited and designed. The new lots will be developed to minimise the extent of cut and fill by seeking to develop appropriate of sizes.

Clause 13.02-1S Bushfire Planning

This objective of this clause is to strengthen the resilience of settlements and communities to bushfire through risk based planning that prioritises the protection of human life.

This policy must be applied to all planning and decision making under the Planning and Environment Act 1987 relating to land that is:

- Within a designated bushfire prone area.
- Subject to a Bushfire Management Overlay; or
- Proposed to be used or developed in a way that may create a bushfire hazard.

Response: The proposed subdivision will meet the objectives of Clause 13.02-1S. The site will have access to a constant water supply, and fire breaks, if required can be managed during the construction phase of the subdivision.

Notwithstanding, the proposal will meet the relevant regulations in accordance with the CFA Act 1958.

Standard conditions relating to the CFA guidelines can also be included subject to any permit issued.

Clause 15.01-3S Subdivision Design

This clause is relevant to the proposal as its objective is to ensure the design of subdivisions achieves attractive, safe, accessible, diverse, and sustainable neighbourhoods.

The strategies in support of this objective include;

Creating compact neighbourhoods that have walkable distances between activities.

- Creating urban places with a strong sense of place that are functional, safe and attractive.
- Providing a range of lot sizes to suit a variety of dwelling and household types to meet the needs and aspirations of different groups of people.
- Facilitating an urban structure where neighbourhoods are clustered to support larger • activity centres served by high quality public transport.

Response: The proposed subdivision layout is consistent with the Low Density Residential Zoning and utilises existing road infrastructure with all lots being designed to have direct access to either High or Clarendon Streets.

4.2 ZONING

Clause 32.03 Low Density Residential Zone

The subject land is located within the Low Density Residential Zone as shown in Figure 4 below. Clause 32.03-3 of the Low Density Residential Zone indicates a planning permit is required to subdivide land.

The purposes of the Low Density Residential Zone include:

- To implement the Municipal Planning Strategy and the Planning Policy Framework.
- To provide for low-density residential development on lots which, in the absence of reticulated sewerage, can treat and retain all wastewater.

Response: The proposed development is consistent with the intention of the zone in that it is a low-density residential development within a designated Low Density Residential Zone.

Clause 32.08 -13 - Decision Guidelines

The Municipal Planning Strategy and the	The proposal is considered to be consistent
Planning Policy Framework	with Planning Policy Framework in that it will
illal to hill	contribute to the Low Density Residential
	Zone.
The protection and enhancement of the	The proposal is consistent with the purpose
natural environment and character of the	of the zone, in particular providing low-
area including the retention of vegetation	density residential development on lots
and faunal habitat and the need to plant	which, in the absence of reticulated
vegetation along waterways, gullies,	sewerage, can treat and retain all
ridgelines and property boundaries.	wastewater. A Land Capability Statement
and the second	accompanies this application.
The availability and provision of utility	Electricity and Telecommunications are
services, including sewerage, water,	readily available at the title boundaries. A
drainage, electricity and telecommunications.	Land Capability Assessment, along with a
telecommunications.	Drainage & Stormwater assessment also
	form part of this application.
In the absence of reticulated sewerage:	A Land Capability assessment accompanies
101	this application, demonstrating that the
 The capability and suitability of the 	treatment of all effluent can be dealt with
lot to treat and retain all wastewater	within the confines of each proposed
as determined by a Land Capability	development.
Assessment on the risks to human	
health and the environment of an	
on-site wastewater management	

ess as set out in the opy	0310
	Addressed later in this report

0

Clause 65.02 – Decision Guidelines Application to Subdivide Land

	The suitability of the land for subdivision.	The land is suitable for subdivision and is located in a Low Density Residential Zone.
	The existing use and possible future	The allotment is currently vacant, with a
	development of the land and nearby land.	stock dam in the southeast corner. The proposal will create 5 allotments of similar
	development of the land and nearby land.	size with a further larger allotment to the south at 2.036 hectares. Land to the south
	2 1 1 10 10 15	is also zoned low density residential but as
	do to the second	yet undeveloped. Land to the east zoned
	A TO REACT OF	Farming has a settlement more akin to
	anal adie prints	lifestyle allotments.
6	The availability of subdivided land in the	A review of online real estate websites
	locality, and the need for the creation of	indicates there is no allotments for sale in
	further lots.	Baddaginnie that are currently zoned Low
	further lots. A not still	Density Residential Zone.
	The effect of development on the use or	A Stormwater and Drainage report
	development of other land which has a	accompanies this report.
5/3/	common means of drainage	
Po	The subdivision pattern having regard to	The proposal creates allotments of size that
50	the physical characteristics of the land	are demonstrated to sustain a building
2	the physical characteristics of the land including existing vegetation	envelope and supporting effluent treatment
	The find any existing vegetation	field without adversely impacting on native vegetation
1		Lange and the second seco

The density of the proposed development.	The density of the proposal is consistent with the surrounding areas of the northeast area of the Baddaginnie Township.
The area and dimensions of each lot in the subdivision.	The lots range from 4071m ² to 20360m ^{2.,}
The layout of roads having regard to their	No additional road infrastructure is
function and relationship to existing roads	No additional road infrastructure is proposed as part of this application
The movement of pedestrians and vehicles	The development will broate e discarding
throughout the subdivision and the ease of	with independent access to High Street,
access to all lots	and 1 allotment with access to be
	established to Clarendon Street.
The provision and location of reserves for	The development is approximately 12
public open space and other community	kilometres from the centre of Benalla and
facilities.	the associated surrounding sporting
т.	facilities. It is also felt that given the size of
	the proposed allotments, walking access to
	local parks is not as detrimental as it would
	be in a residential based development.
The staging of the subdivision.	The proposal is not a staged subdivision.
The design and siting of buildings having	N/A
regard to safety and the risk of spread of	C ^{UII}
fire.	2
The provision of off-street parking.	The proposed allotment sizes are
ied and it the ree in o	considered adequate for off street parking for each allotment
The provision and location of common	Common Property does not form part of this
property	application.
The functions of any body corporate.	A body corporate is not proposed as part of
	this development.
The availability and provision of utility	The proposed subdivision will include the
services, including water, sewerage,	provision of all available utilities.
dramage, electricity, and gas. If the land is not sewered and no provision	
If the land is not sewered and no provision	A Land Capability Statement confirming all
has been made for the land to be sewered,	effluent can be treated within the confines
the capacity of the land to treat and retain	of each title is supplied with this application.
all sewage and sullage within the	
all sewaye and sunaye within the	

Whether, in relation to subdivision plans,	As all lots are in excess of 4000m ² . No
native vegetation can be protected through	native vegetation will be deemed lost as
subdivision and siting of open space areas.	part of this application.
The impact the development will have on	The development utilizes the existing
the current and future development and	council road infrastructure, with all
operation of the transport system.	allotments having access to High Street or
	Clarendon Street.
	50° 34' 5100
TRZ1 FZ	and the second
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Figure 5 – Zoning map showing the subject land in the General Residential Zone onorc

PARTICULAR PROVISIONS

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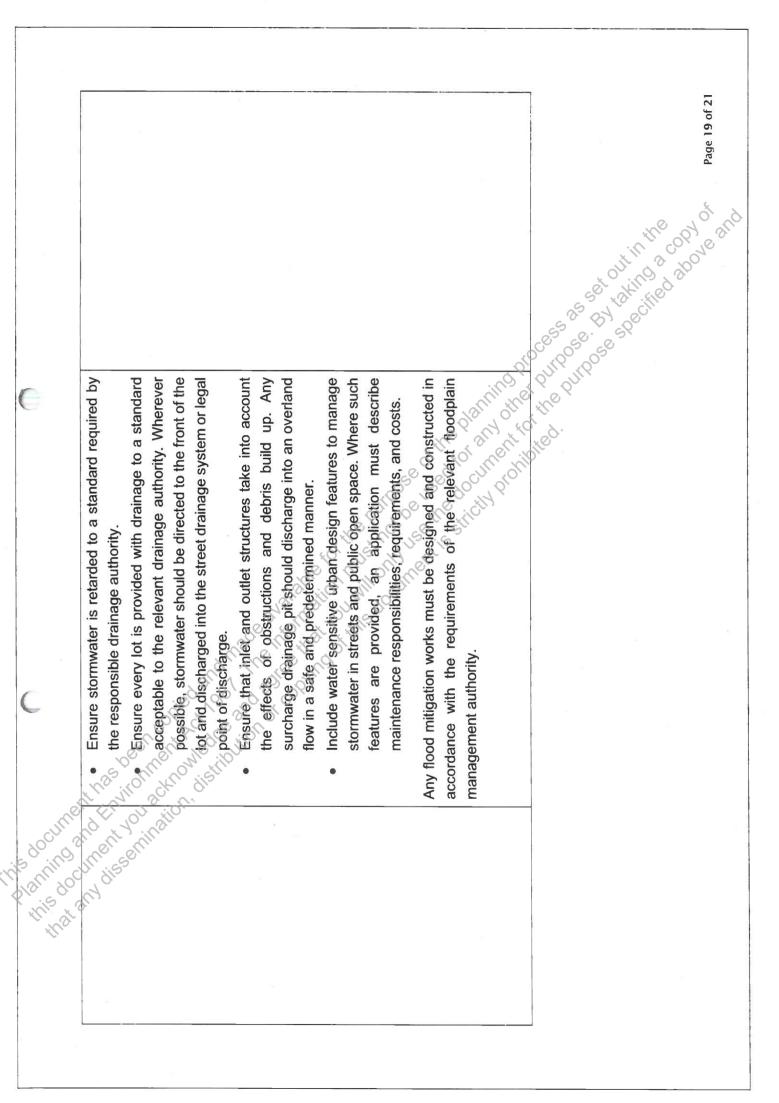
Burstant to Clause 32.03-6, an application to subdivide land must meet the relevant standards of Clauses 56.07-1 to 56.07-4.

The following table provides an assessment against the applicable clauses.

	Complies There is no governing water authority supplying water to Baddaginnie. It is the envisaged potable water for each site will ater be collected in tanks from roof run off from any proposed dwelling.	Not Applicable: The use of reused or recycled water is re with not part of the development plan. elevant ty and tivision	complies. The wastewater infrastructure will be designed and connected to the cordance with standards of the relevant water authority. of the relevant standards of the relevant water authority. Page 16 of 21
0	atisfac	 Standard C23 Reused and recycled water supply systems must be: Designed, constructed, and managed in accordance with the requirements and to the satisfaction of the relevant water authority, Environment Protection Authority and Department of Health and Human Services. Provided to the boundary of all lots in the subdivision where required by the relevant water authority. 	 Standard C24 Wastewater systems must be: Designed, constructed, and managed in accordance with the requirements and to the satisfaction of the relevant water authority and the Environment Protection Authority.
s docume planning this doc	Clause 56.07-1 State Supply The Drinking water Supply The Objectives To reduce the use of drinking water. To provide an adequate, costeffective supply of drinking set water.	Clause 56.07-2 Reused and recycled water objective To provide for the substitution of drinking water for non- drinking purposes with reused and recycled water.	Clause 56.07-3 Wastewater management objective To provide a wastewater system that is adequate for the maintenance of public health and the management of

	ed domestic wided to the quired by the	 andard C25 andard C25 complies. be stormwater management system must be: Designed and managed in accordance with the requirements and to the satisfaction of the relevant drainage authority. Designed and managed in accordance with the requirements and to the satisfaction of the relevant drainage authority. Designed and managed in accordance with the requirements and to the satisfaction of the relevant water authority where reuse of stormwater is proposed. Designed to meet the current best practice performance objectives for stormwater quality as contained in the Urban Stormwater - Best Practice Environmental Management Guidelines (Victorian Stormwater Committee, 1999). Designed to ensure that flows downstream of the subdivision site are restricted to pre-development levels unless increased flows are approved by the relevant drainage authority and there are no detrimental downstream impacts. 	Page 17 of 21
	effluent in an environmentally • Consistent with any relevant approved domestic friendly manner. wastewater management plan. Reticulated wastewater systems must be provided to the boundary of all lots in the subdivision where required by the relevant water authority.	 Standard C25 The stormwater management system must be: Designed and managed in accordance with the requirements and to the satisfaction of the relevant drainage authority. Designed and managed in accordance with the requirements and to the satisfaction of the water authority where reuse of stormwater is proposed. Designed to meet the current best practice performance objectives for stormwater quality as contained in the Urban Stormwater - Best Practice Environmental Management Guidelines (Victorian Stormwater Committee, 1999). Designed to ensure that flows downstream of the subdivision site are restricted to pre-development levels unless increased flows are approved by the relevant drainage authority and there are no detrimental downstream impacts. 	
Antino Curros	effluent in an environmentally friendly manner.	Clause 56.07-4 Stormwater management objectives To minimise damage to properties and inconvenience to residents from stormwater. To ensure that the street operates adequately during major storm events and provides for public safety. To minimise increases in stormwater and protect the environmental values and physical characteristics of receiving waters from degradation by stormwater. To encourage stormwater management that maximises the retention and reuse of	

		Page 18 of 21
	2955 25 BY TAKING	COPY eard
0	 Designed to contribute to cooling, improving local habitat and providing attractive and enjoyable spaces. The stornwater management system should be integrated with the overall development plan induding the street and public open space networks and landscape design. For all storm events up to and including the 20% Average Exceedance Probability (AEP) standard: Stormwater flows should be contained within the drainage system to the requirements of the relevant authority. Ponding on reads should not occur for longer than 1 hour after the cessation of rainfall. For storm events greater than 20% AEP and up to and including 1% AEP standard: Ponding on reads should not occur for longer than 1 hour after the cessation of rainfall. For storm events greater than 20% AEP and up to and including 1% AEP standard: Provision must be made for the safe and effective passage of stormwater flows. All new lots should be free from inundation or to a lesser standard of flood protection, where agreed by the felevant floodplain management authority. Ersure that streets, footpaths, and cycle paths, that are subject to flooding meet the safety criteria daVave< 0.35 m/2 /s (where, da= average depth in metres and Vave= average velocity in metres per second). The design of the local drainage network shoud: 	
Rishoring Planing this at	e and the second s	



5.0 CONCLUSION

The proposal for the subdivision of Crown Allotments 25 & 26 in the Parish of Warrenbayne on High Street, Baddaginnie represents a thorough and contextual design response that provides a Low Density Residential subdivision in a natural landscape character setting.

ecified above and In summary, it is submitted that the proposal is a positive response to the site context and is King a copy strongly supported by the Benalla Planning Framework. In particular:

- The proposed subdivision supports the key directions of the Planning Policy •

- Line Benalla Urban Growth Stra Land. Le relevant objectives and standards of Clause f. And subject to inundation, and potentially contaminated land. Le proposed subdivision will not impacton areas of Aborginal Cultural Heritage Significance. Given the above it is submitted that the proposal should be supported, subject to standard conditions. The proposed subdivision provides an appropriate design response to the constraints

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ADDRESS ADDRESS ADDRESS ADDRESS ADDRESS ADDRESS Baddaginnie Baddaginnie PREPARED F^{*} J S¹⁻

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Introduction

Onley Consulting has been engaged by J Sloan to prepare a Stormwater Management Plan for a proposed low density residential subdivision. The subject site is located on the corner of High & Clarendon Streets, Baddaginnie.

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Figure 1: Site of Works
Existing Conditions
The site area is 4.07 ha, with the property currently Low Density Residential Zone.

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<text> Capacity to collect and convey stormwater flows from nominated design storm events. In the case of low density residential subdivisions the nominated design storm event would be 20% AEP. The developer must also ensure an overland flow path is provided for events at an Annual Exceedance Probability of 1%.

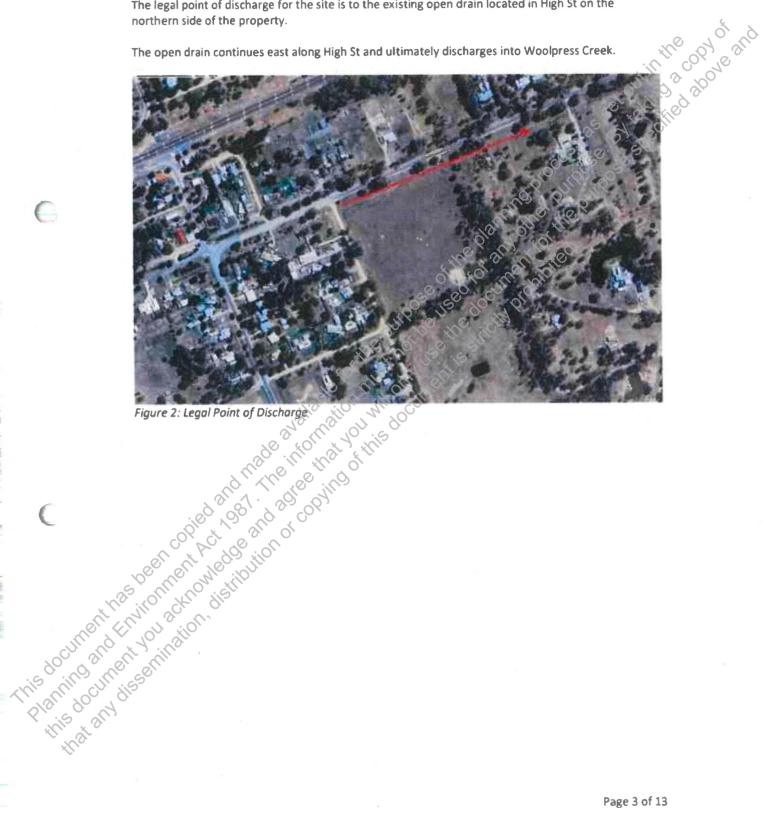
6



Legal Point of Discharge (LPOD)

The legal point of discharge for the site is to the existing open drain located in High St on the northern side of the property.

The open drain continues east along High St and ultimately discharges into Woolpress Creek.





Minor Drainage Network

As lots 2 to 6 currently fall towards High St, the properties can discharge directly into the existing

specified above and The order to ensure there is no possibility of future pulses

- 1. Collect all flows in a proposed open drain along the north side of Lot 1 and direct it towards the existing dam, and
- 2. direct the overflow from the dam into a piped system that runs through an easement in Lot

at runs through at runs through the plan of the plan of the plan to avoir tanr' The major drainage system shall consist of planned drainage routes and overland flow paths. The

Onsite detention shall be provided on each lot to ensure 1% AEP events flows shall be contained and



Stormwater treatment

	Treatment of the developme	nt's stormwater runoff	is provided within the site to B	EPA requirements.	
	 Treatment is provided by a n Rainwater tanks for s Detention Basins for Buffer Strips, and Lot 1 Swale drain. 	umber of different com stormwater re-use, each lot,	ponents in the treatment train	n: Cet out in the	2 copy of and
÷	The above are shown to prov Appendix D for the MUSIC Re	ride sufficient treatmer port, verifying the abo	nt of the entirety of the develop ve.	pment Refer to	~
÷	Figure 3 below shows the res	ults for the overall cate	chment area treatment.	UTPOSC SC	
	5. (A.) (Sources	Residual Load	auction	
	Flow (ML/yr) Total Suspended Solids	4.103694	2659881	35.18326	
9	(kg/yr) Total Phosphorus (kg/yr)	0.858698	0.32214	62.4851	
* 2	Total Nitrogen (kg/yr) Gross Pollutants (kg/yr)	7.37446	3)625709	50.83425 100	
	Figure 3: MUSIC Treatment t	rain effectiveness result	OL GOL SUL		
	(kg/yr) Total Phosphorus (kg/yr) Total Nitrogen (kg/yr) Gross Pollutants (kg/yr) Figure 3: MUSIC Treatment to Figure 3: MUSIC Treatment to Concern and the treatment to been concern and the treatment to the treatment of the trea	available to multon	is provided within the site to Enponents in the treatment train at of the entirety of the develop ve. chment area treatment. Residual Load % Re 2,659881 48.23745 0,32214 3,625709 0 0		
() 2	been copied 2.987. d2				
This document F	the volume tion of the second				
Fries and					
				Page 5 of 13	



Detention Storage

Detention basins shall be constructed in each lot. The basins shall be designed to provide detention for up to and including 1% AEP events to ensure flows do not exceed 1% AEP. The leftover material

The total detention volume required has been calculated based upon an allowable outfall determined by pre-development runoff rates. Initial discharge from the higher reaches of the site would sheet flow to are the second determined by the use of Maerin he pre-development Time of the second data and the se The pre-development Time of Concentration was then derived from the sum of the two flow times. Results are tabulated below:



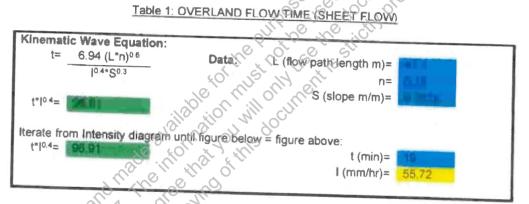


Table 2: OPEN DRAIN FLOW

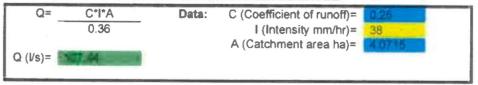
cument has	= <u>AR^{2/3} S^{1/2}</u> Data: Q (U/s) = V (m/s) = 0	Depth of flow (m)= Batters (1:?)= S (slope m/m)= n=	2004 220 0 0031 0 0025 19.60018 0.02204		0.011-0.018 0.018-0.025 0.025-0.035 0.030-0.035 0.035-0.050
Phillip & and P	Sheet flow Time (From Kinematic Open Drain Flow Time (Drain leng Pre-development Time of Concen 20% AEP intensity:	th - 139m / 0.1345m/st): 17 37	mins mins mm/Hr	

Sheet flow Time (From Kinematic Wave Equation above):	10
Open Drain Flow Time (Design Land)	19 mins
Open Drain Flow Time (Drain length – 139m / 0.1345m/s):	17 mins
Pre-development Time of Concentration:	37 mins
20% AEP intensity:	\$7 mins
esto ise internates.	38 mm/Hr

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Table 3: Pre-Development Runoff Rate



-		the second se		
Q	=C*I*A	Data: C	(Coefficient of ru	unoff)= 0.26
	0.36		I (Intensity m	m/hr)= 38
		Α	(Catchment are	a ha)= 40715
Q (I/s):	= 257.4			11 0 10
				unoff)= $\frac{1}{38}$ $\frac{1}{22}$
				× 0 × 0 × 0 ×
				CON AN ELOU
Frank Street				
i otal ru	noff is to be div	ided across proposed	lots in proportion	a to post-development generated runof
i otal ru	noff is to be div	ided across proposed	lots in proportion	n to post-development generated runoff
i otal ru ⊥ot	noff is to be div Area (ha)	ided across proposed Coefficient of Runoff		
				Permissible Discharge Rate
	Area (ha)	Coefficient of Runoff	CA:	Permissible Discharge Rate:
_ot 1	Area (ha) 2.036	Coefficient of Runoff 0.3	CA: 0.6108	Permissible Discharge Rate
_ot 1 2	Area (ha) 2.036 0.4071	Coefficient of Runoff 0.3 0.4	CA: 0.6108 0.1628 0.1628	Permissible Discharge Rate: 46.05 1/s 12.28 1/s 12.28 1/s
_ot 1 2 3	Area (ha) 2.036 0.4071 0.4071	Coefficient of Runoff 0.3 0.4 0.4 0.4 0.4	CA: 0.6108 0.1628 0.1628 0.1628	Permissible Discharge Rate: 45.05 1/s 12.28 1/s 12.28 1/s 12.28 1/s
_ot 1 2 3 4	Area (ha) 2.036 0.4071 0.4071 0.4071	Coefficient of Runoff 0.3 0.4 0.4 0.4 0.4 0.4	CA: 0.6108 0.1628 0.1628 0.1628 0.1628	Permissible Discharge Rate: 45.05 1/s 12.28 1/s 12.28 1/s 12.28 1/s 12.28 1/s
_ot 1 2 3 4 5	Area (ha) 2.036 0.4071 0.4071 0.4071 0.4071	Coefficient of Runoff 0.3 0.4 0.4 0.4 0.4	CA: 0.6108 0.1628 0.1628 0.1628	Permissible Discharge Rate: 45.05 1/s 12.28 1/s 12.28 1/s 12.28 1/s

JSe the di Detention for lot 1 is to be provided in the existing Dam on the south eastern corner of the lot with estrictly restricted outlet to road table drain in High St.

Detention for lots 2-6 is to be provided in two parts: 1. Tank storage for proposed dwellings, and

0

Open drain on downhill side of lots with restricted outlet to road table drain in High St. 2. is docu

Lot 1 detention basin

0

that any

805 Detention storage requirements have been determined using Ensemble simulations using ARR2019 rainfall data sourced from BOM for the area and temporal patterns sourced from the ARR Datahub.

Capacity of the detention basin has been calculated from survey data and Digital Terrain Model, utilising Civil3d software. POL C_Q

			4: Detention vo	lume summary (Lot 1	<u>.)</u>	
	Docation N	Catchment	Runoff	1% AEP Detention	Estimated	Total Discharge
N.	3 Moll Stree 918	Area (ha)	coefficient	volume required (m ³)	Basin volume (m ³)	Flow (I/s)
COLIC	Lot 1	2.036	0.30	166.4	170	46.05
This docut and Planting and this docum		e of 700m ² , thi	is provides a tot	ed at 250mm below th al of 166m ³ of detent		

it ior Table 4: Detention volume summary (Lot 1)



Lots 2-6 detention basins

Detention storage requirements have been determined using Ensemble simulations using ARR2019 rainfall data sourced from BOM for the area and temporal patterns sourced from the ARR Datahub.

Location	Catchment Area (ha)	Runoff coefficient	1% AEP Detention volume required (m ³)	Estimated Tank volume (m ³)	Discharge Flow(1/s)
Lots 2-6 Roof Area	0.045	1.0	12.27	12.45	339
Lots 2-6 Ground Area	0.3621	0.325	32.06	35 55 8	8.88

Table 5: Detention volume summary (Lots 2-6)

Each lot shall have a minimum 22 kl rainwater tank for the proposed dwellings to be plumbing into, with the upper 12.45 kl set aside for detention and the remaining storage to be available for re-use purposes.

Each lot shall also have a shallow detention basin located near the front of each property, where the ground runoff would gravitate to and the tank overflow shall be plumbed into the combined tank and basin would outfall to the open drain in High St via a restricted pipe outlet to the lot access crossing headwall.

Details of 1% AEP drainage system

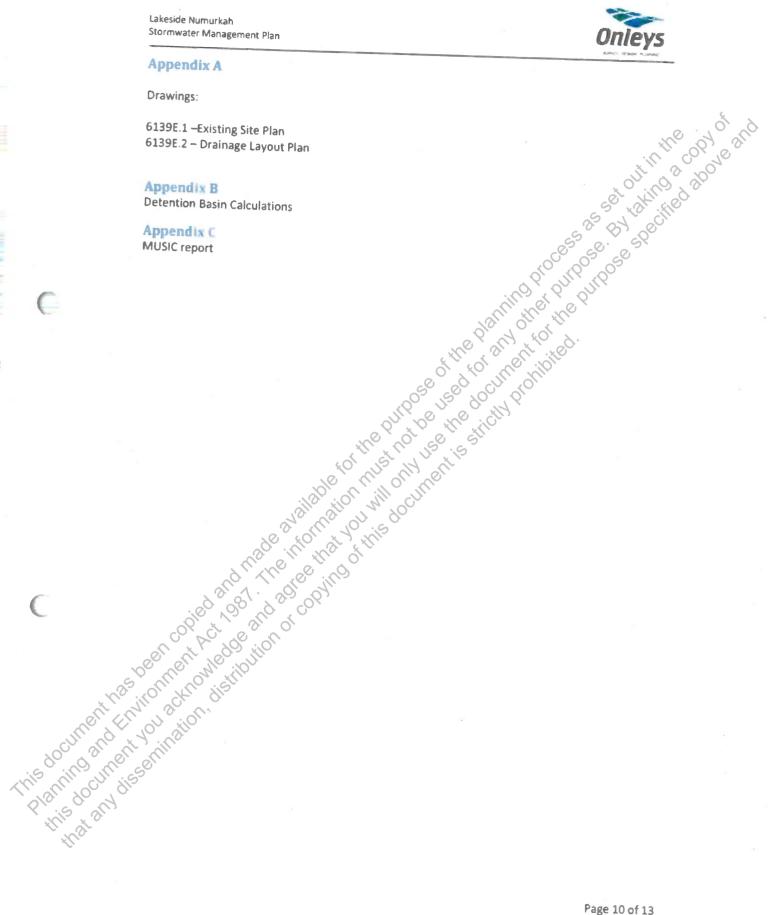
Lots 2 to 6 grade towards High St, where the 1% AER flows would be contained within the road reserve and continue eastwards. The detention systems within the lots contain the flows to 20% AEP Pre-Development runoff rates, thus ensuring the downstream properties would not be adversely affected by the development.

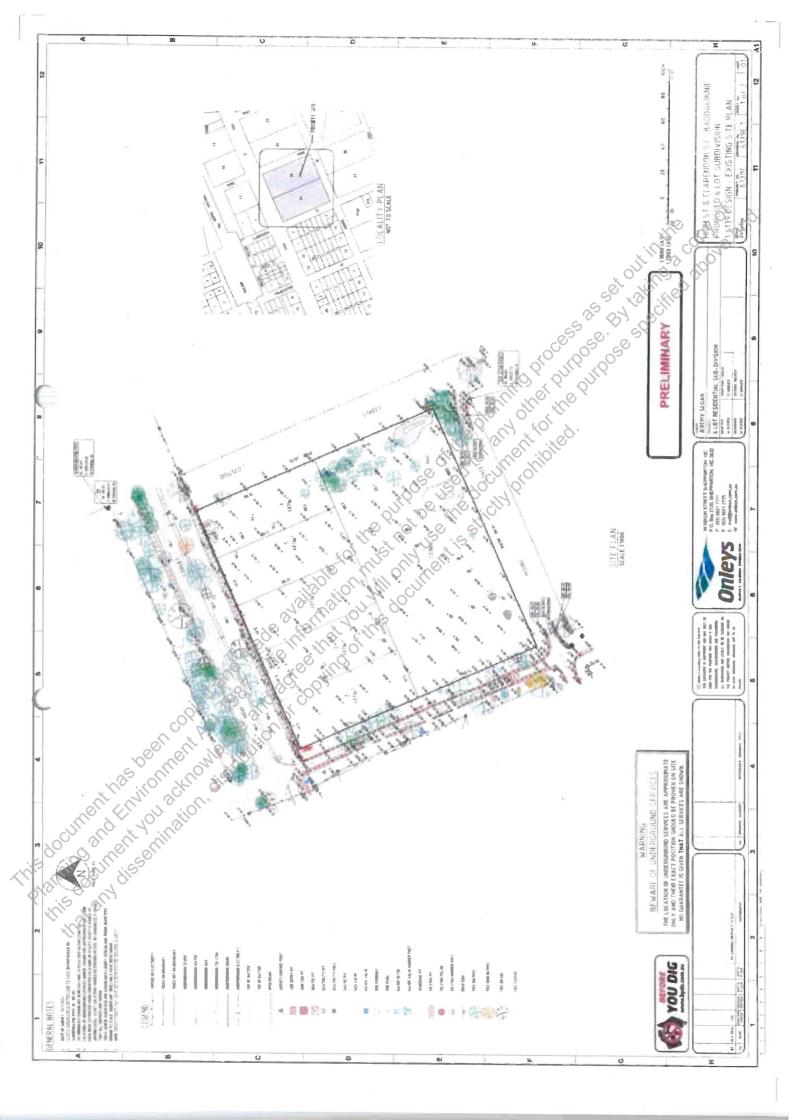
In Lot 1 the northern half of the property discharges to the north, so a proposed swale drain along the northern boundary of Lot 1 would intercept these flows and direct them to the existing dam in the southwest corner. The proposed detention capacity of the dam is sufficient to contain all flows from the lot in events up to and including 1% AEP, thus ensuring the properties located on the eastern side of the unmade road eserve will not be adversely affected by the development.

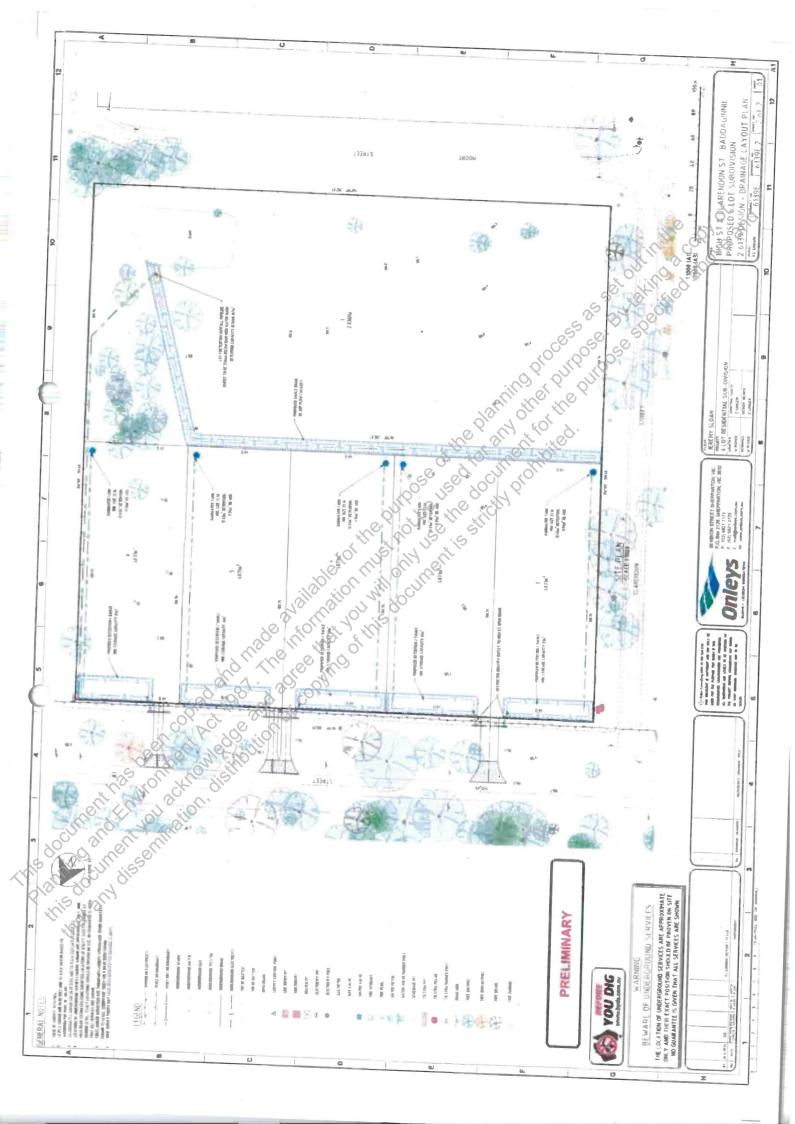
Although there is no record of flooding in the subject area, we would recommend that the flooding in the subject area, we would reco Although there is no record of flooding in the subject area, we would recommend that the floor level



And development complex with Beala Rural CA. And within the development area and adequately detained in the neghousing and any and hence do not nerceach on the neghousing and and any straight development area and adequately detained in the neghousing and any straight development area and adequately detained in the neghousing and and any straight development area and adequately detained in the neghousing and and any straight development area and adequately detained in the neghousing and any straight development area and adequately detained in the neghousing and any straight development area and adequately detained in the neghousing and any straight development area and adequately detained in the neghousing and any straight development area and adequately detained in the neghousing and any straight development area and adequately detained in the neghousing and any straight development area and adequately development area adequately de









Appendix B

Detention Basin Calculations Lot 1

	A	В	C		E							
1	Project :	1	Sloan C	3		F	G	H	1	J	ΙK	Ke Of St.
2	Town Loca	ation:	Baddao	linnie							1	1 6 10
3	Temporal	Patterr	Zone	IMB Inci	omonio						15	
4		For R	etardatio	on caculat	ements					5	0.	
5			Catchm	ent area	ion enter	nere :	-			6	1.0	1.0
6			Volumet	nic runoff	000fficia		2.036	ha		5	100	
7		1 1	AEP		LOGINCIO	nt	0.3			6 8	r c	ſ
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9					1		Rare		0	0 0	1	1
10		& for a	utfall die	ion requil charge vi	ed for ho	outfall			0	1091.01	m ³	
11		Atab	Idraulic d	gradient o	a pipe of		268.57	mm	S KR	0.009	mm	
12		I	Potardati	in action (H	1 in	500	=_//	46.053	Vsec		
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Lots 2-6 - Roof only

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ots 2-6 - Ro	or only				C	0,00	in chu	only,		
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2 Town Lo	cation:	Baddag	innie			1 10	1.2			
3 Tempora	I Patterr	Zone:	MB Inci	emente	1.00	0	<u>6</u> ~			
4	For R	etardatio	n cacula	tion onto		2.2				1
5		Catchme	nt area	ion ente	nere .	1-C~				
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7		AEP	i iunon	coenicie	IRE S	1				1
3		Frequenc	200		-20-		%			-
				10-1	G	Rare				1
01	Rtord	Retardati outfall dis	on requi	red for n	o outfall				80.38	m ³
1	Atah	vdraulic g	charge V	la pipe o		101.19	mm	k=	0.009	mm
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	LO	Retardati	on requir	red for th	is outflo	W			12.27	mo
s 2-6 Grou	0°,00	310 01	, co6 , .						12.21	

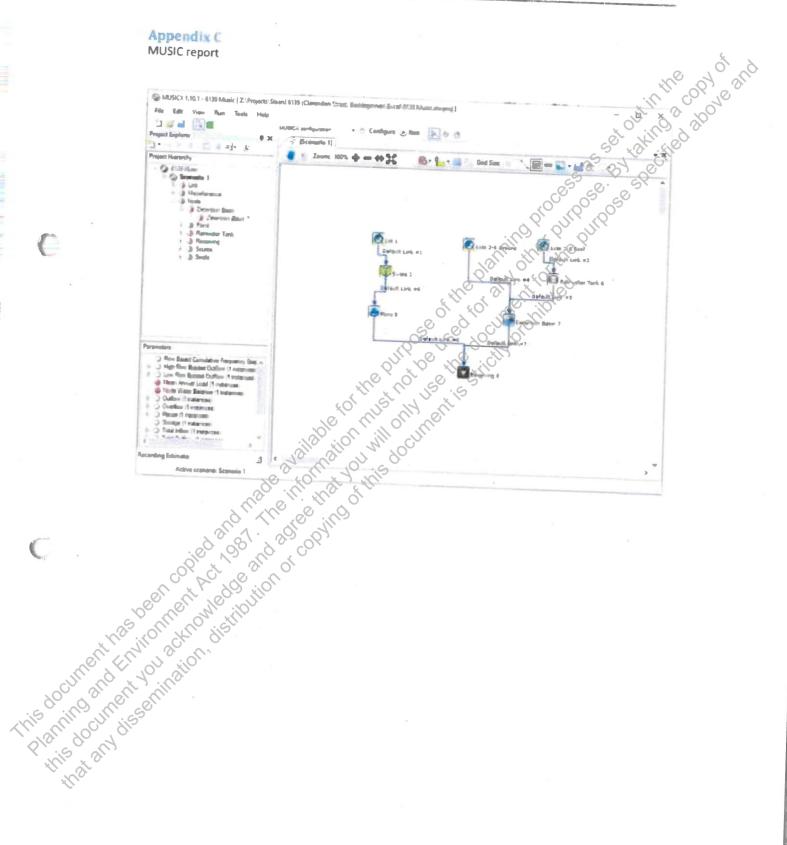
Lots 2-6 Ground runoff only

	L B	B:D C	D			1				
5T	Project O	Sloan C		E	F	G	Н	1	J	Τĸ
2	Town Locatio	n: Baddan	innie							
	Temporal Pal	tern Zone:	MB Inci	ements						
	F	or Retardation	n cacula	tion enter	here :	1				
CUN 20 5	in	Catchme	ant area	T		0.3621	ha			
2 2 2 2	<u>.</u>	AEP	ric runoff	coefficie	nt	0.325				
This or in our 8		Frequence	w I				%			
No. 0 2 9		Retardati	ion requi	red for no	0146-11	Rare				
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12		Retardati	on requir	ed for thi	s outflo	000	=	8.880		
					00000				32.06	m

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Appendix C **MUSIC** report



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