

ATTACHMENTS

Under Separate Cover Council Meeting

6.00pm Tuesday 25 August 2020

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7.5	P20-024 79 Va	aggs Rd, Ross Creek (use and development of a place of Assembly)	
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VOLUME 09572 FOLIO 727

Security no : 124080763817V Produced 16/12/2019 08:32 AM

LAND DESCRIPTION

Crown Allotment 5 Section 12 Parish of Yarrowee. PARENT TITLE Volume 05645 Folio 867 Created by instrument L202249T 13/08/1984

REGISTERED PROPRIETOR

Estate Fee Simple Sole Proprietor BALLARAT CULTURAL AND EDUCATIONAL CENTRE PTY LTD of 1 TUNBRIDGE STREET LUCAS VIC 3350 AS367366D 19/07/2019

ENCUMBRANCES, CAVEATS AND NOTICES

MORTGAGE AS367367B 19/07/2019 COMMONWEALTH BANK OF AUSTRALIA

For details of any other encumbrances see the plan or imaged folio set out under DIAGRAM LOCATION below.

DIAGRAM LOCATION

SEE TP269420M FOR FURTHER DETAILS AND BOUNDARIES

ACTIVITY IN THE LAST 125 DAYS

NIL

-----END OF REGISTER SEARCH STATEMENT-----

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

Street Address: 79 VAGGS ROAD ROSS CREEK VIC 3351

ADMINISTRATIVE NOTICES

NIL

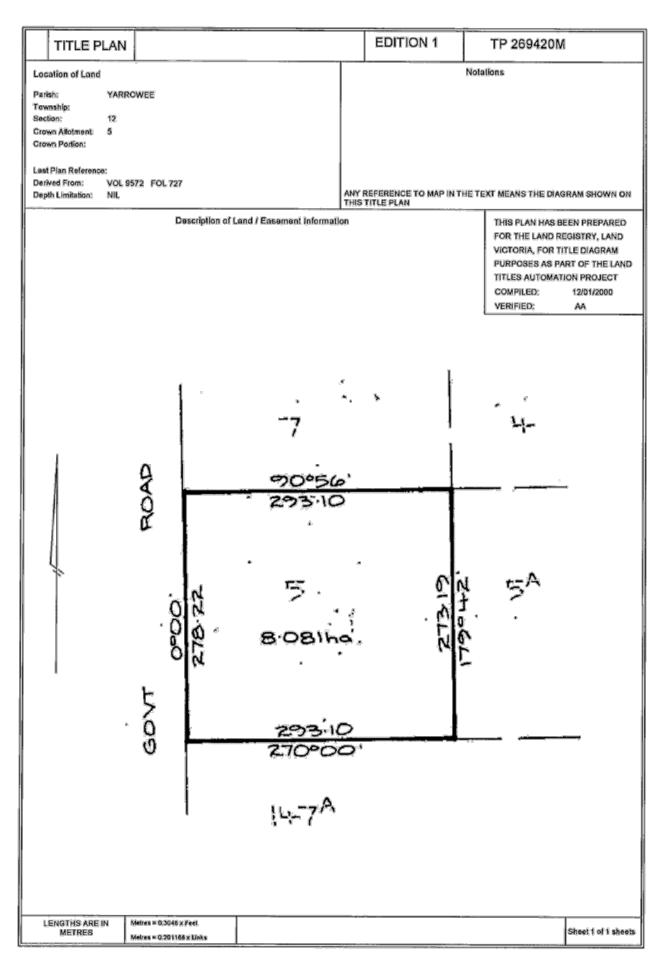
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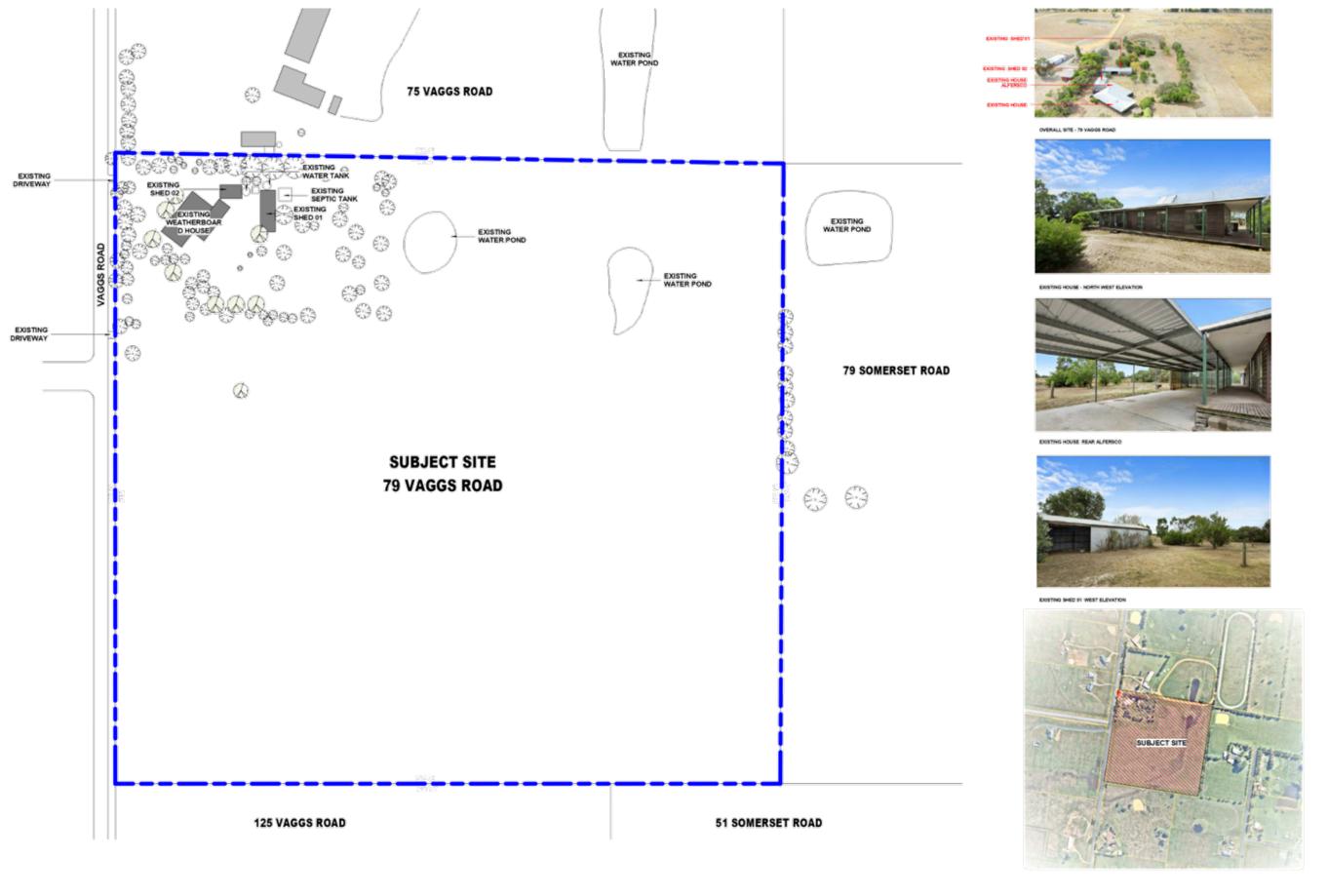


PROPOSED PLACE OF ASSEMBLY

79 VAGGS ROAD ROSS CREEK



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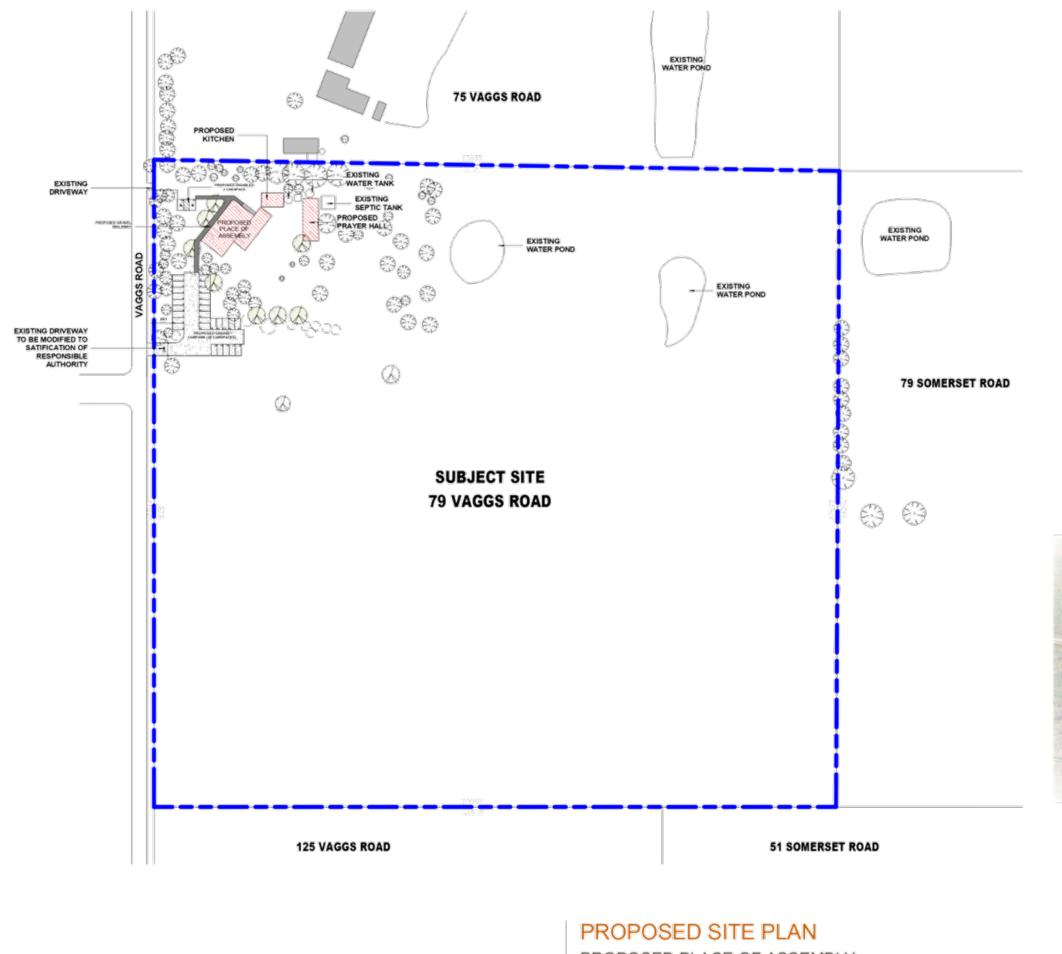


EXISTING SITE PLAN PROPOSED PLACE OF ASSEMBLY 79 VAGGS ROAD, ROSS CREEK

SCALE: 1:750 A1 1907 JOB NO: DATE: 04/12/2019 DWG NO: DA0101

A3





PROPOSED PLACE OF ASSEMBLY 79 VAGGS ROAD, ROSS CREEK



SCALE:

1:750

JOB NO: DATE: DWG NO: DA0500

1907 04/12/2019

A1 A3





PROPOSED SITE PLAN DETAILS

PROPOSED PLACE OF ASSEMBLY 79 VAGGS ROAD, ROSS CREEK

SCALE:

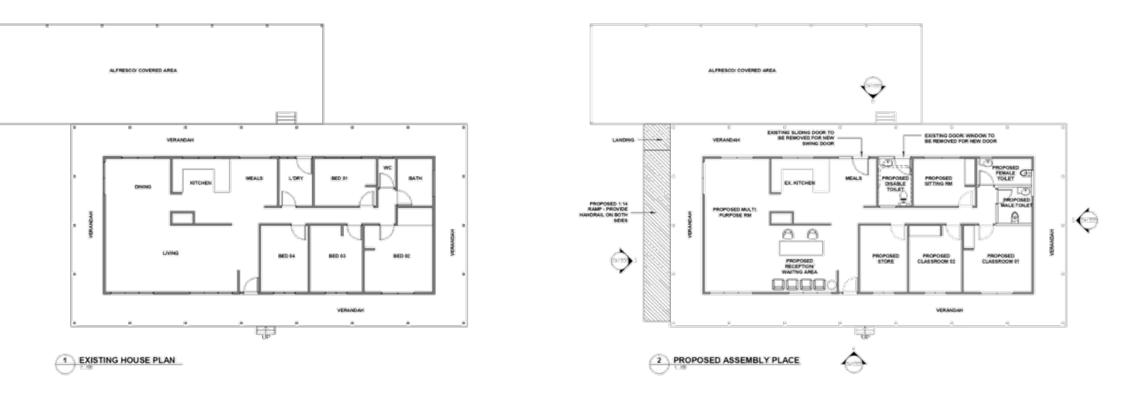
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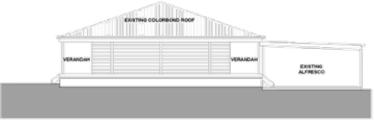
JOB NO: DATE: DWG NO: DA0501

1907 04/12/2019









5 SOUTH EAST ELEAVTION





PROPOSED ASSEMBLY PLACE PROPOSED PLACE OF ASSEMBLY 79 VAGGS ROAD, ROSS CREEK



1:100 A1

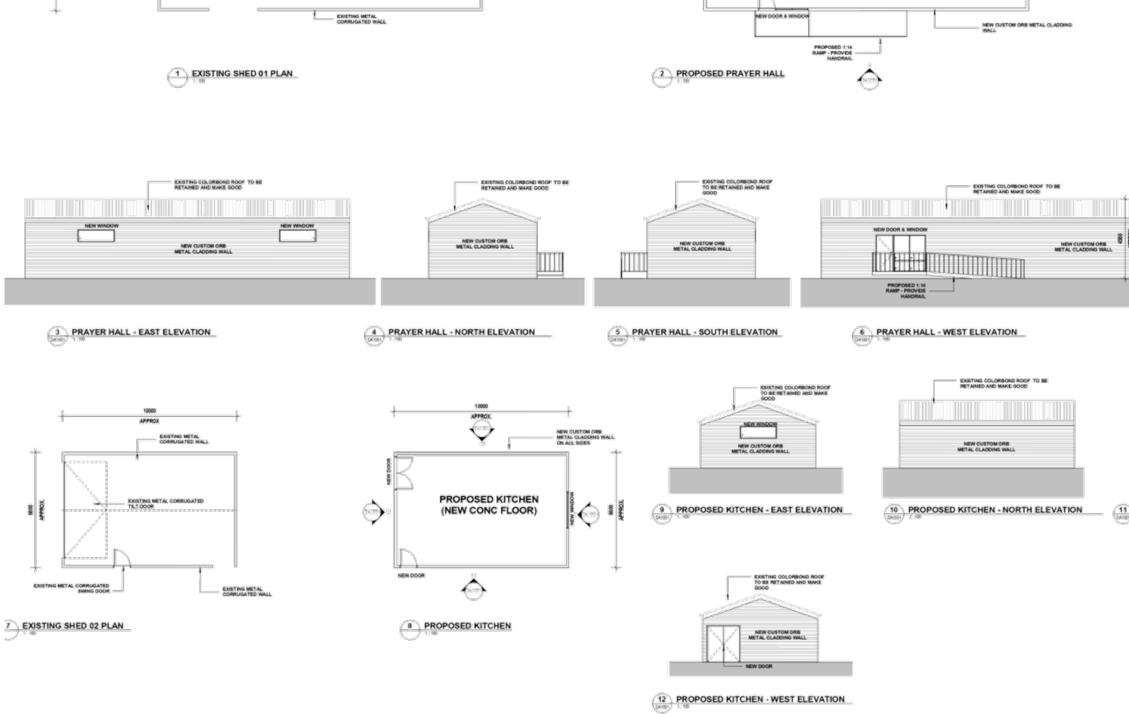
JOBINO: 1907 DATE: 04/12/20 DWG NO: DA1000

A3 1907 04/12/2019 DA1000



PROPOSED PRAYER HALL & KITCHEN PROPOSED PLACE OF ASSEMBLY

79 VAGGS ROAD, ROSS CREEK



8 8

EXISTING METAL CORRUGATED WALL

APPROX

EXISTING METAL CORRUGATED WALL



EXISTING SHED 01





NEW CUSTOM ORE METAL CLADDING WALL

5 (m)

NEW CUSTOM ORB METAL CLADD

NEW WINDOW

Ŷ

PROPOSED PRAYER HALL

NEWWO

NEW CUSTOM ORB METAL CLADDING WALL

0

EXISTING METAL CORRUGATED WAL

EXISTING SHED 02



11 PROPOSED KITCHEN - SOUTH ELEVATION

SCALE: As A1 indicated A3 1907 JOB NO: DATE: 04/12/2019 DWG NO: DA1001



Ballarat Soil Testing Specialising in building site soil classification & land capability assessments ABN 24 586 140 741

SUMMARY	
Secondary treatment device	Existing septic tank with a $32m^2$ sand filter or an Aerated Water Treatment System (AWTS).
Cand application system	Subsurface irrigation system of 800m ² The drip irrigation system needs to be installed at a depth of 150-250mm in situ or in imported good quality topsoil with a 1m spacing between lines
Loading rate	1600L/day
Soil category (AS/NZ 1547:2012)	6b – moderately structured medium clay
Design loading rate (DIR)	2mm/day
Reference No	IP121219
	December 13, 2019
Proposed development	 Existing residence converted to an assembly place servicing up to 100 people. Existing shed converted to a prayer hall. Existing shed converted to a new kitchen.
Property address	79 Vaggs Road, Ross Creek
Shire council	Golden Plains Shire Council
PREPARED FOR	
	iPlanning Services Pty Ltd
Address	PO Box 1401, Bakery Hill VIC 3354
PREPARED BY	
	S. O'Loughlin

Email

Telephone

0419 536 910

ballaratsoiltesting@gmail.com

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REVIEW:	DATE:	DETAILS:
A	December 13, 2019	Initial draft for submission
В		
С		
D		
E		
F		

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# 1 Commission

When a property developer, potential buyer or land holder considers subdividing land or building one or more premises, they must first determine whether wastewater can be sustainably managed and absorbed by the land within the property boundaries without negatively impacting the boneficial uses of surface waters and groundwater.

It is the responsibility of the property owner to prove to Council that the proposed onsite wastewater treatment and recycling system will operate sustainably on the property without adverse impacts on public health or the environment.

The objective of this investigation is to conduct a Land Capability Assessment (LCA) and propose a suitable type of onsite wastewater management system for the proposed residential development at the above address.

This document provides a detailed LCA for the allotment, information about the site and soil conditions along with monitoring and management recommendations.

This report has been written to comply with all relevant and current Victorian legislation, guidelines, codes and standards, including:

- AS/NZS 1547 2012, Onsite domestic wastewater management;
- AS/NZS 1547:1994, Onsite domestic wastewater management;
- Code of Practice Onsite Wastewater Management, Publication No. 891.4, July 2016, Environmental Protection Authority;
- Land Capability Assessment for Onsite Domestic Wastewater Management, Publication 746.1,
   March 2003, EPA Victoria;
- Victorian Land Capability Assessment Framework, January 2014, Municipal Association of Victoria.

	Site shape, dimensions, size, gradient and drainage
The site has a total area of	83387,08 m²
The ground surface is: 😒 🚖	Relatively flat.
The gradient of the site is:	Slight slope falling to east across site.
The drainage on site is:	Fair
	Existing use and development on the site
The current use of the site is	Residential
The buildings or works located on the site are:	Dwelling and detached shedding.
	Existing access arrangements
The main vehicle access to the site is provided from:	Gate access from southwest corner of site.
The space available for vehicle maneuverability can be considered:	Good
The site is located:	Pléase refer to Appendix 1.
	Existing vegetation
Describe the vegetation on the site, including the type, location, extent and any other relevant information.	Pasture grasses. Small to medium-sized shrubs and trees in propose effluent field area.

# 2.2 The locality and surrounding land

	Existing use and development on adjacent sites
Describe the land and existing land uses around the subject land:	Residential to north. RLZ - Rural Living Zone.

## **Proposed development** 3 Construction 3.1 Building The proposed buildings on site: Existing residence converted to an assembly place servicing up to 100 people. Existing shed converted to a prayer hall. Existing shed converted to a new kitchen. 3.2 Wastewater **Target effluent quality** Aims to achieve the target effluent quality of BOD <20 mg/L and SS Wastewater system: <30mg/L. Daily wastewater generation is estimated by multiplying the potential Anticipated wastewater load: occupancy by the Minimum Wastewater Flow Rates. Assuming the following buildings: Existing residence converted to an assembly place servicing up . to 100 people. Existing shed converted to a prayer hall. Existing shed converted to a new kitchen. Assuming the following wastewater generation: Public areas (with toilet, but no showers and no café) ٠ Public toilets x 6L/person/day x 100 persons = 600L/day Meeting hall with a kitchenette x 10L/person/day x 100 persons = 1000L/day Therefore: Total Design Load = 1600L/day

# 3.3 Intended water supply and sewer source

	Services
Domestic water supply,	Reticulated water supply is provided.
Availability of sewer:	No town sewerage system is likely to be connected in the short to medium future.
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	° 0

# 4 Site and soil assessment

	4.1 Work undertaken	
1992		Assessment
		Stephen O'Loughlin
		December 12, 2019

### 4.2 Site assessment

Feature	Description	Level of constraint	Mitigation measures
Aspect (alfects solar radiation received)	North	Nit	NN
Climate (difference between annual rainfall and pan evaporation)	Excess of rainfall over evaporation in the wettest months	Major	Large shallow subsurface irrigation field recommended with conservative DIR of 2 <i>mm/day</i> .
Erosion (or potential for crosion)	Nil	Nil	NN
Exposure to sun and wind	Full sun and/or high wind or minimal shading	Nił	NN
Fill: (imported)	No fill	Nil	NN
Flood frequency (ARI)	Less than 1 in 100 years	Nil	NN
Groundwater bores	No bores onsite or on neighbouring properties	Nil	NN
Land area available for LAA	Meets LAA and duplicate LAA and buffer distance requirements	Nil	No duplicate LAA required for subsurface irrigation field.
Landslip (or landslip potential)	Nil	Nil	NN
Rock outcrops	<10%	Nil	NN
Slope Form (affects water shedding ability)	Straight side-slopes	Moderate	NN

Slope gradient			
(a) for absorption trenches and bods	<6%	Nil	NN
(b) for surface	<6%	Nil	NN
(c) for subsurface	<10%	Nil	NN
Soil Drainage (qualitative)	No visible signs or likelihood of dampness, even in wet season	Nil	NN
Stormwater run-on	Low likelihood of stormwater run-on	Nil	NN
Surface waters - setback distance (m)	Setback distance complies with requirements in EPA Code of Practice 891.4 (as amended)	Nil	Proposed effluent field to be 30 metres from the dam to the east.
Vegetation coverage over the site	Plentiful vegetation with healthy growth and good potential for nutrient uptake	Nil	NN
Soil Drainage (Field Handbook definitions)	Moderately well drained. Water removed somewhat slowly in relation to supply, some horizons may remain wel for a week or more after addition	Moderate	Large shallow subsurface irrigation field recommended with conservative DIR of 2mm/day.

## 4.3 Soil key features

The site's soils have been assessed for their suitability for onsite wastewater management by a combination of soil survey and desktop review of published soil survey information as outlined below.

## 4.4 Geology

	Geological mapping
Geological Survey Code:	Qno1
Description:	Sheet flow basalts: numerous superimposed flows with interbasalt sediment; vents generally discernible, lateral streams developed positively magnetized; dominantly weathered tholeilte to mildly alkal olivine-basalt.
Reference	TAYLOR, D.H., 1996. Ballarat 1:50,000 geological map. Geological Survey of Victoria.



### Item 7.5 - Attachment 2

	DPI Search for Mine Hazard results
Department of Primary Industries records:	"do not indicate the existence of any mining activity on or under this sil but the site is within an area of past prospecting or mining activity. No that there may be unrecorded mine workings present."
4.6 Soil	
annan ann an ann ann ann ann ann ann an	Soil conditions
The predominant soil profile on site is:	Silty loam and silty clay loam overlying stiff silty clay.
Sample hole results:	Please refer to Attachment 4 for sample hole results.
47 Soil profile determina	
4.7 Soil profile determina	
4.7 Soil profile determina	
4.7 Soil profile determinat	
	Assessment Two (2) boreholes were established and excavated in the area of the
Field work	Assessment Two (2) boreholes were established and excavated in the area of the wastewater management system.
Field work Method of drilling or excavation	Assessment Two (2) boreholes were established and excavated in the area of the wastewater management system. Trailer-mounted soil sampling machine. The soil was classified according to AS/NZS 1547-1994/2012 while

### Soil assessment 4.8

Feature Assessment Level of **Mitigation Measures** Constraint Soil category 4b - weakly structured silty clay loam overlying 6b - moderately structured medium clay. (AS/NZ 1547:2012) Minor Shallow subsurface irrigation in Soil depth Topsoil: 400 - 500mm topsoil recommended. Subsoil: >400 - 500mm Minor NN



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Soil Permeability & Design Loading Rates	Subsoil: 6b - silty clay (medium clay): <0.06m/day saturated conductivity (Ksat) (AS/NZS1547:2012); 2mm/day Design Loading Rate (DIR) for irrigation system (Code of Practice, 2016).	Moderate	Use conservative DIR = 2mm/day in calculations.
	Very well to well-drained soils generally have uniform brownish or reddish colour	Nil	NN
	5.5 - 8 is the optimum range for a wide range of plants	Nil	NN
Rock Fragments	0 - 10%	Nil	NN
Soil Depth to Rock or other impermeable layer	>1,5 m	Nil	NN
Soil Structure	Moderately-structured	Nil	NN .
Soil Texture, Indicative Permeability	6	Major	Use conservativé DIR = 2mm/day in calculations.
Watertable Depth (m) below the base of the LAA	>2m	Nil	NN

# 4.9 Golden Plains Shire Domestic Wastewater Management Plan Assessment

	Assessment	
Rainfall Risk Rating:	Low Risk	
Soil Risk Rating:	Moderate Risk	
Slope Risk Raling	Low Risk (<20%)	
Groundwater Risk Rating:	Low Risk Area	
Calchment Area:	Outside Designated Water Supply Catchment Area	

# 4.10 Groundwater Assessment

	Visualising Victoria's Groundwater Data Search
WVG records:	Groundwater depth: 5 to 10m Groundwater salinity: 1000 - 3500mg/L

2		191538	29 322 3	4	5000 mg 630	6 90		S. Lozel	
2	TA SE	1. The 80 - No.	1 20 20 30	1212	" The second second	1 - Aut	the start of		2
R	1445 D. J. K		สารที่ เกรา	877 F	28 G. T	£ 11 m		146. 7	ť.

4.11 Victorian Planning Provision – Overlays

Overlay	Assessment	
Planning Zone:	RLZ - Rural Living Zone	
Planning Overlay:	DD07 - Design And Development Overlay - Schedule 7	

4.12 Overall assessment results and land capability rating

The overall land capability of the proposed effluent management area is constrained due to the following site features and soil assessment:

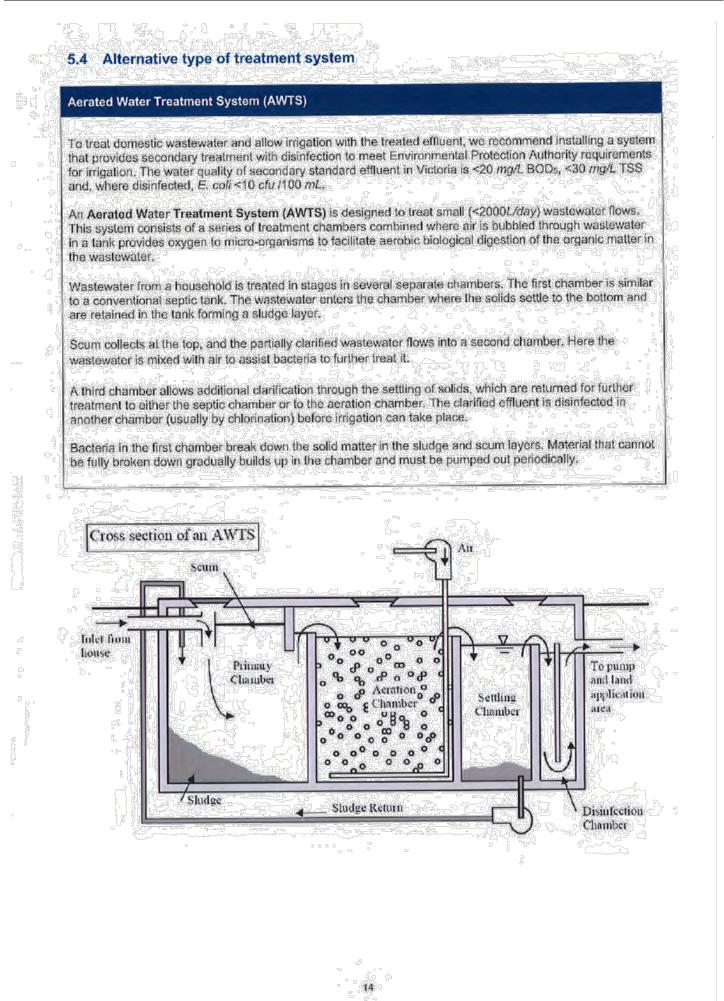
- · Climate difference between annual rainfall and pan evaporation
- Soil drainage
- Soil texture and low permeability.

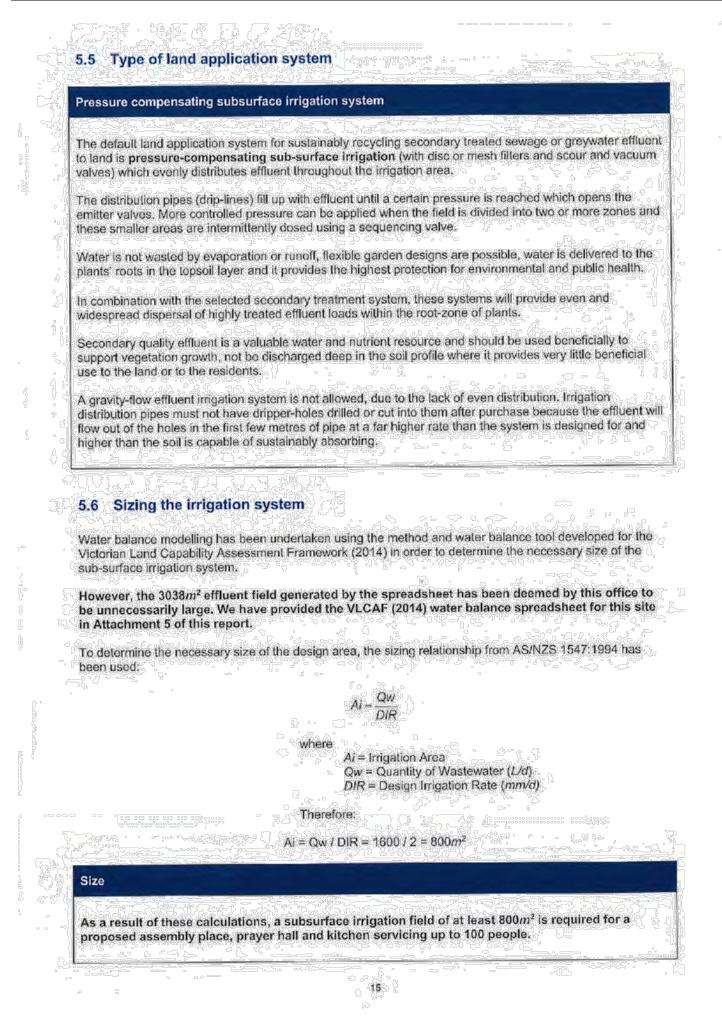
However, the effluent management system will be designed, installed and maintained in ways which will mitigate these factors.

The proposed effluent management area is located above the 1:100 flood level and by using secondary treatment and pressure-compensating sub-surface irrigation, there will be ample protection of surface waters and groundwater.



	Indertaken at the time of building application and submitted to Council.
5.2 Type of trea	
Sand Filter or Aerate	ed Water Treatment System (AWTS)
that provides seconda	stewater and allow irrigation with the treated effluent, we recommend installing a system ary treatment with disinfection to meet Environmental Protection Authority requirement to target effluent quality is
• BOD <20 mg • SS <30mg/L.	
Any of these options	ons are available, including a sand filter or aerated water treatment system (AWTS are capable of achieving the desired level of performance and final selection is the roperty owner, who will forward details to Council for approval.
5.3 Sizing the s	and filter system
	cessary size of the design area, the sizing relationship from AS/NZS 1547 1994 ha
Abeen used	
	Area of Sand Filler = 50L/d
	Where Q = Quantity of wastewater (L/d) 50L/d = Sand filter acceptance rate
Size	
	calculations, a sand filter of at least 32m ² is required for a proposed assembly
As a result of these	calculations, a sand filter of at least $32m^2$ is required for a proposed assembly id kitchen servicing up to 100 people.
As a result of these	calculations, a sand filter of at least 32 <i>m</i> ² is required for a proposed assembly d kitchen servicing up to 100 people.
As a result of these	calculations, a sand filter of at least 32m ² is required for a proposed assembly id kitchen servicing up to 100 people.
As a result of these	calculations, a sand filter of at least 32 <i>m</i> ² is required for a proposed assembly id kitchen servicing up to 100 people.
As a result of these	calculations, a sand filter of at least 32 <i>m</i> ² is required for a proposed assembly in kitchen servicing up to 100 people.





# 5.7 Siting and configuration of the irrigation system

### Description

It is preferable to keep the irrigation area as high on the property as possible and a maximum distance from the boundaries and the dam to the east as setbacks allow.

The preferred area is to the east of the existing shedding and at least 30 metres to the west of the dam.

Attachment 3 shows an envelope of land that is suitable for effluent management. Final placement and configuration of the irrigation system will be determined by the client and/or system installer, provided it remains within this envelope.

Whilst there is ample area for application of the effluent, it is important that appropriate buffer distances to the waterways be maintained. It is important to note that buffers are measured as the overland flow path for run-off water from the effluent irrigation area.

It is recommended that the owner consult an irrigation expert familiar with effluent irrigation equipment to design the system, and an appropriately registered plumbing/drainage practitioner to install the system. The irrigation plan must ensure even application of effluent throughout the entire irrigation area.

## 5.8 Buffer distances

### Description

Setback buffer distances from effluent land application areas and treatment systems are required to help prevent human contact, maintain public amenity and protect sensitive environments. The relevant buffer distances for this site, taken from Table 5 of the Code (2016) are:

- 150 metres from a dam, lake or reservoir (potable water supply);
- 100 metres from waterways (potable water supply);
- 30 metres from waterways, wetlands (continuous or ephemeral, non-potable); estuaries, ocean
- beach at high-tide mark, dams, lakes or reservoirs (stock and domestic, non-potable);
- 20 metres from groundwater bores in Category 2b to 6 soils; and
- 3 metres if area up-gradient and 1.5 metres if area down-gradient of property boundaries, swimming pools and buildings (conservative values for primary effluent).

The setback distance in a Special Water Supply Catchment area may be reduced by up to a maximum of 50% conditional on the following requirements (otherwise the setback distances for primary treatment systems apply):

effluent is secondary treated to 20/30 standard as a minimum

a maintenance and service contract, with a service technician accredited by the manufacturer, is in place to ensure the system is regularly serviced in accordance with Council Septic Tank Permit conditions and

- Council is satisfied the reduction in set-back distance is necessary to permit the appropriate
- development of the site and that risks to public health and the environment are minimised.

Where an intermittent stream on a topographic or orthographic map is found through ground-truthing to be a drainage line (drainage depression) with no defined banks and the bed is not incised, the setback distance is 40 m (SCA 2010). The topography of the drainage line must be visually inspected and photographed during the LCA site inspection and reported upon in writing and photographs in the LCA report.

All buffer distances are achievable.