Form 2

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## NOTICE OF AN APPLICATION FOR PLANNING PERMIT

The land affected by the application is located at:	60 Old Bunga Road LAKE BUNGA 3909 Lot: 5 PS: 312020
The application is for a permit to:	Two lot subdivision
The applicant for the permit is:	Crowther & Sadler Pty Ltd
The application reference number is:	5.2023.277.1
You may look at the application and any documents that support the application on the website of the responsible authority.	COVID-19 Omnibus (Emergency Measures) Bill 2020 now modifies the requirement of Form 2 so that Planning documents previously required to be physically available to view at local government offices are now only required to be available for online inspection.

This can be done anytime by visiting the following website: https://www.eastgippsland.vic.gov.au/building-and-development/advertisedplanning-permit-applications

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 will not decide on the application before:	Subject to applicant giving notice
I	Subject to applicant giving notice

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

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.





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REGISTER SEARCH STATEMENT (Title Seasch)for இது அந்து இரும் softwhich may breach அள்கு opyright. Land Act 1958

VOLUME 11105 FOLIO 436

Security no : 124107479064J Produced 10/07/2023 10:34 AM

#### LAND DESCRIPTION

Lot 5 on Plan of Subdivision 312020F. PARENT TITLE Volume 10083 Folio 131 Created by instrument AG213841Q 26/11/2008

#### REGISTERED PROPRIETOR

Estate Fee Simple Joint Proprietors

#### ENCUMBRANCES, CAVEATS AND NOTICES

Any encumbrances created by Section 98 Transfer of Land Act 1958 or Section 24 Subdivision Act 1988 and any other encumbrances shown or entered on the plan set out under DIAGRAM LOCATION below.

#### DIAGRAM LOCATION

SEE PS312020F FOR FURTHER DETAILS AND BOUNDARIES

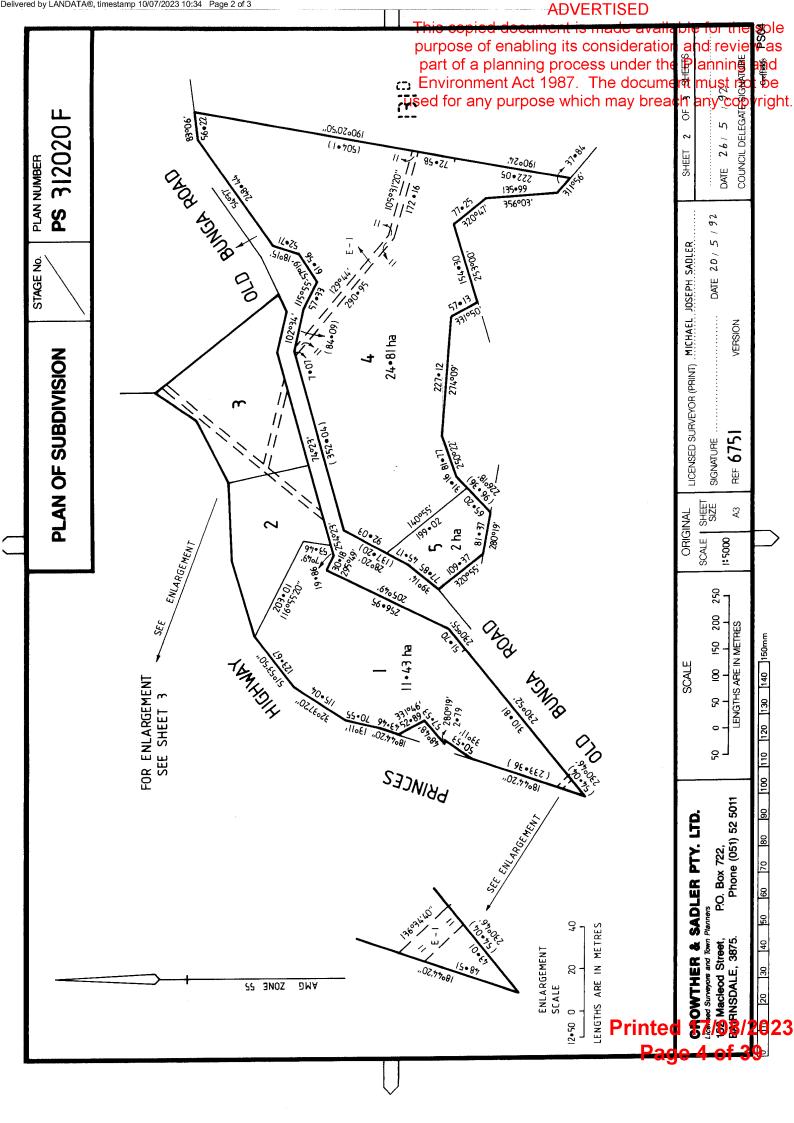
#### ACTIVITY IN THE LAST 125 DAYS

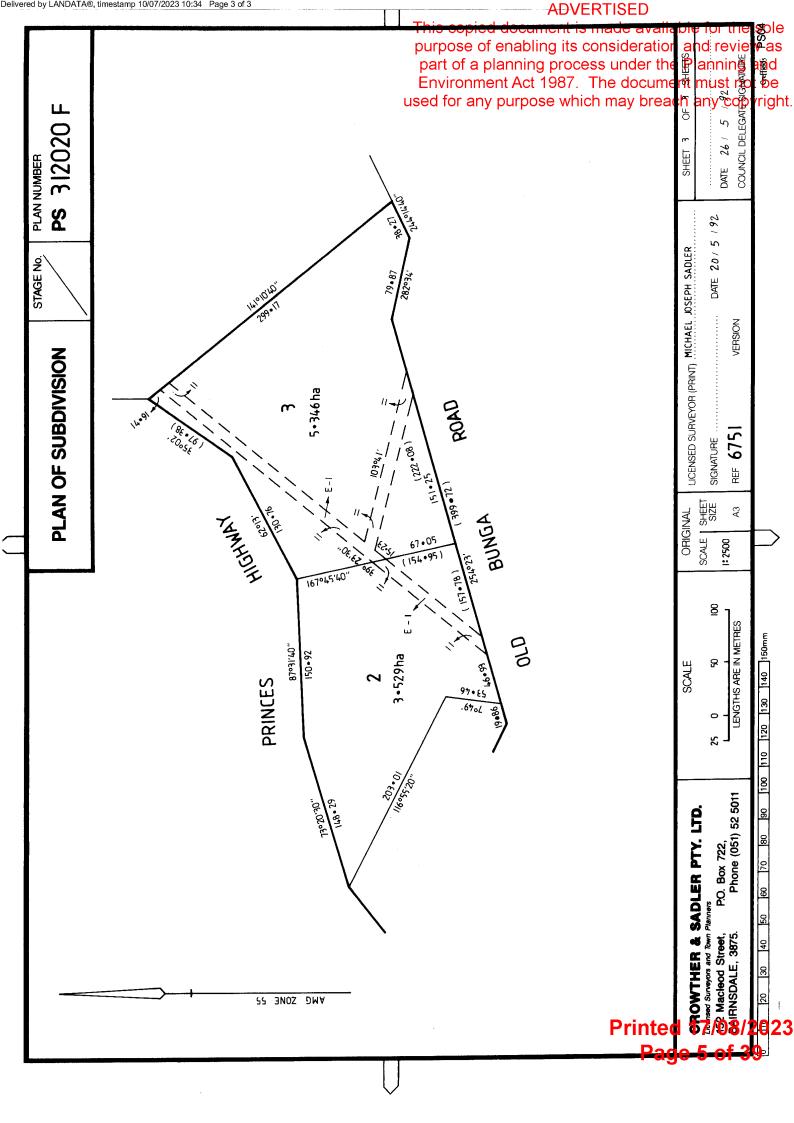
NIL
END OF REGISTER SEARCH STATEMENT
Additional information: (not part of the Register Search Statement)
Street Address: 60 OLD BUNGA ROAD LAKE BUNGA VIC 3909
DOCUMENT END

Page 2 of 39

Printed 17/08/2023

Title 11105/436 Page 1 of 1





P.O. Box 722,

Phone (051) 52 5011

152 Macleod Street,

BAIRNSDALE, 3875.

STAGE No.

LTO USE ONLY

	PLAN OF SUB	DIVISION	EDITION used for any purpose who may breach any co											
	LOCATION OF LAND	<u> </u>	COUNCIL CERTIFICATION AND ENDORSEMENT											
PARISH: C	COLQUHOUN		COUNCIL NAME: SHIRE OF TAMBO REF: S/0107 /											
TOWNSHIP:		CUNNINGHAME	1. This plan is certified under Section 6 of the Subdivision Act 1988. / 312020 F											
SECTION:	_		<ol> <li>This plan is certified under Section 11(7) of the Subdivision Act 1988.</li> <li>Date of original certification under Section 6.</li> <li>7 8 / 91</li> </ol>											
CROWN ALL	OTMENT: (PARTS) 131A, 131B &		3. This is a statement of compliance issued under Section 21 of the Subdivision Ac ——1988.—											
CROWN POR		G	OPEN SPACE  (i) A requirement for public open space under Section 18 of the Subdivision Act 1988  — has/has not been made.											
	ECORD: PARISH (2412) TOWN RENCES: VOL 9762 FOL 495, VON		(ii) The requirement has been satisfied.  (iii) The requirement is to be satisfied in Stage											
LAST PLAN	REFERENCE/S: LP 208578 W LC	OT 2	-Council Delegate											
POSTAL ADD (At time of sa			- <del>Date / //</del>											
AMG Co-ord (of approx cer in plan)		ZONE: 55	Re-certified under Section 11(7) of the Subdivision Act 1988.  Council Delegate  Council Seal  Date 26 / 5 / 92											
VE	STING OF ROADS AND/OR RE	SERVES												
DENTIFIER	COUNCIL/BODY/PE	RSON												
NIL	NII	-	NOTATIONS											
			STAGING This is/is not a staged subdivision.  Planning permit No. 5486											
			DEPTH LIMITATION 15.24 METRES BELOW THE SURFACE											

THIS PLAN IS/<del>IS NOT</del> BASED ON SURVEY SURVEY. THIS SURVEY HAS BEEN CONNECTED TO PERMANENT MARKS No.(s) IN PROCLAIMED SURVEY AREA No.

**VERSION** 

			IN PROCEATIVE	ED SURVET ANDA NO.	
		EASEMENT	INFORMATION		LTO USE ONLY
LEGEND	A - Appurtenant Easement	E - Encu	imbering Easement	R - Encumbering Easement (Road)	STATEMENT OF COMPLIANCE/ EXEMPTION STATEMENT
Easement Reference	Purpose	Width (Metres)	Origin	Land Benefited/In Favour Of	RECEIVED
E – I	POWER LINE	, 11	SECTION 103B S.E.C. ACT 1958	S.E.C.V.	DATE: / /  LTO USE ONLY  PLAN REGISTERED  TIME  DATE / /  Assistant Registrar of Titles
Licensed Su	THER & SADLER PT		0.0	R (PRINT) MICHAEL JOSEPH SADLER  DATE / /	Printed 17/08/2023  Page 6 of 39  DATE / /

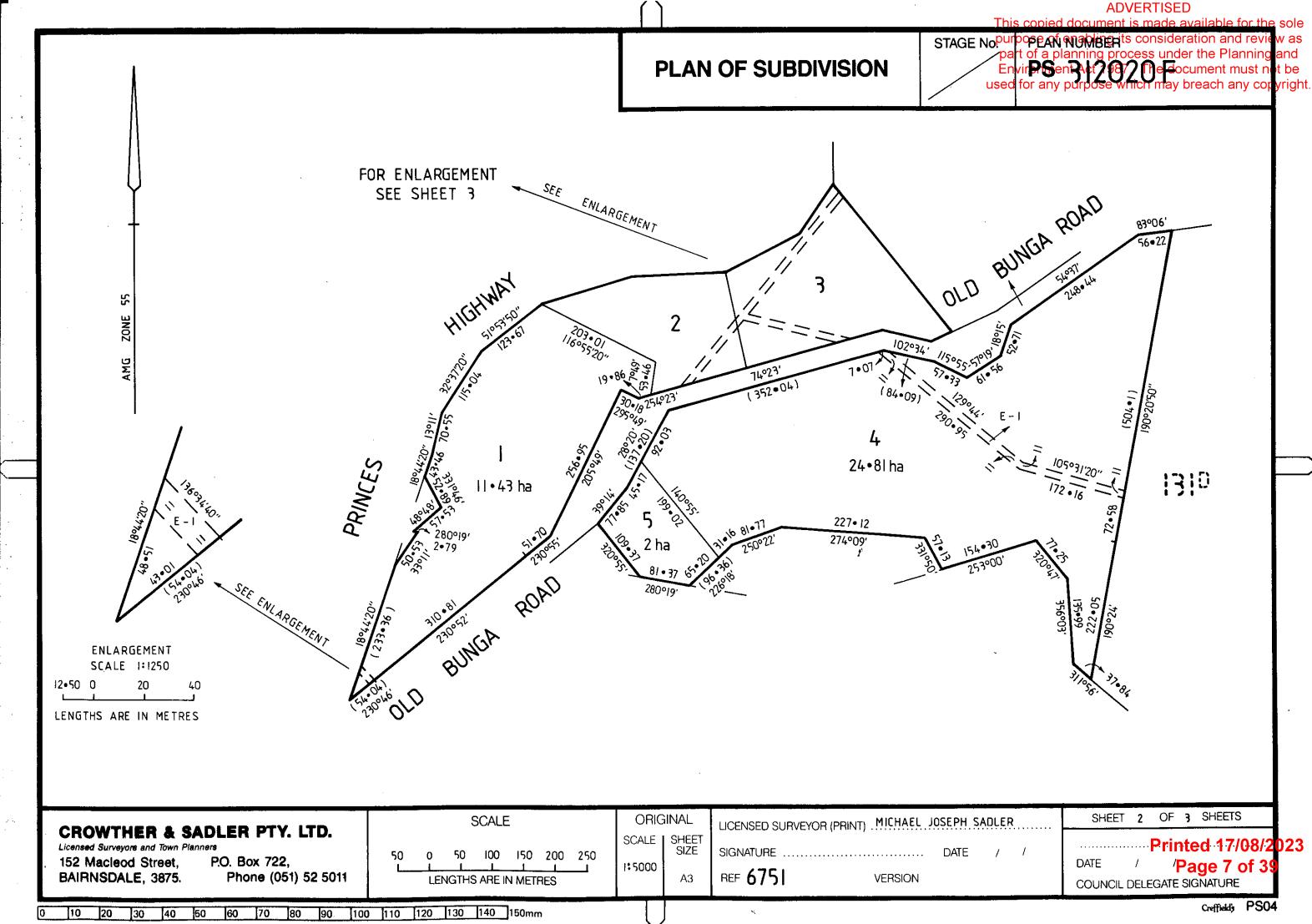
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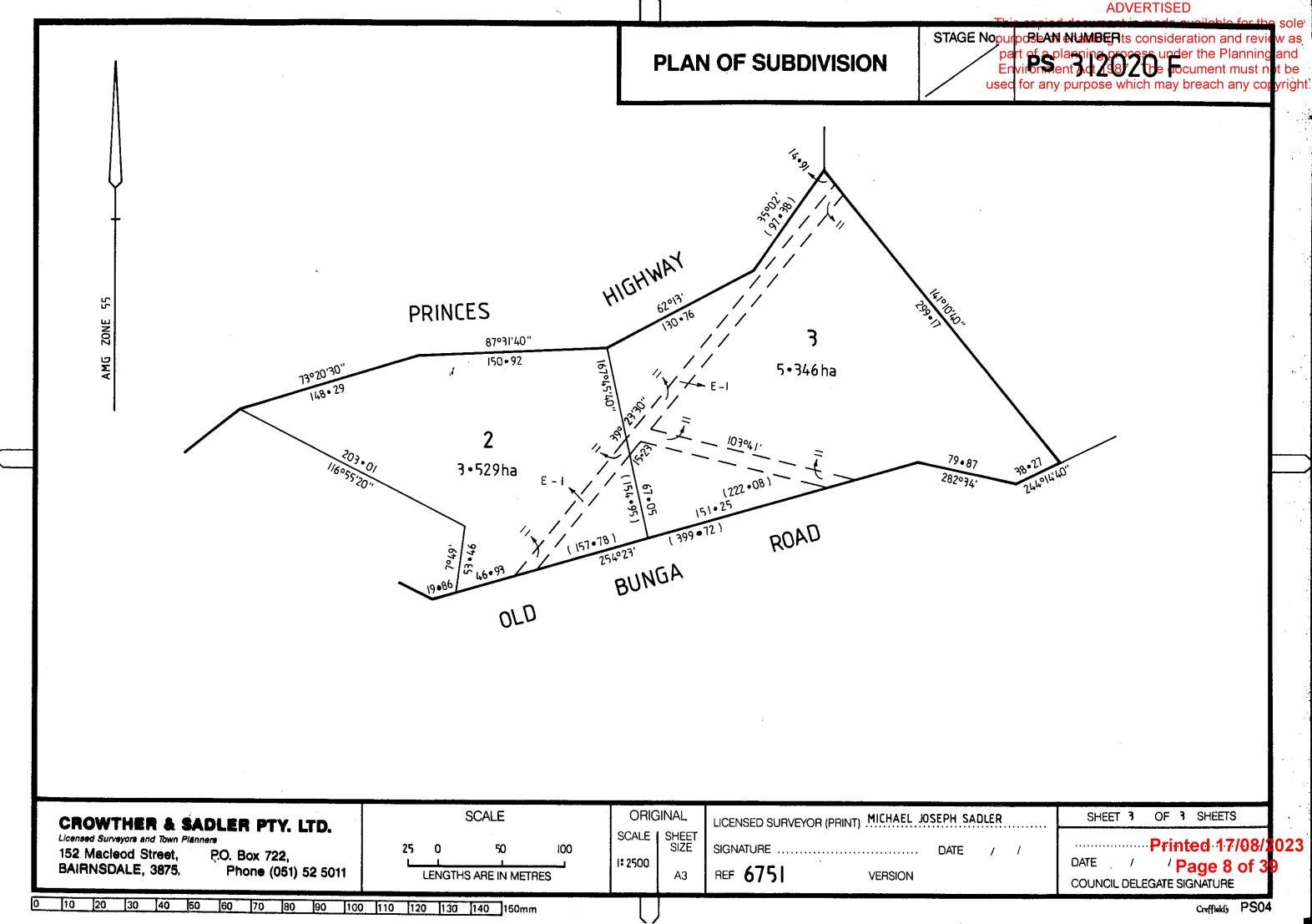
Creffields PS01

АЗ

COUNCIL DELEGATE SIGNATURE

ORIGINAL SHEET SIZE







LICENSED SURVEYORS & TOWN PLANNERS

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## Planning Report

Two Lot Subdivision 60 Old Bunga Road, Lake Bunga

Our reference - 20496

24 July 2023



East Gippsland Shire Council

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## **Contents**

1.	Intro	Introduction								
2.	Subject Land & Surrounding Context									
3.	The	The Application & Proposal								
4.	Cult	Cultural Heritage								
5.	Plan	ning Policy	10							
	5.1	Planning Policy Framework	10							
	5.2	Municipal Planning Strategy	11							
6.	Plan	ning Elements	12							
	6.1	Farming 1 Zone	12							
	6.2	Design and Development Overlay 7	13							
	6.3	Erosion Management Overlay	14							
7.	Con	clusion	14							
0	Attachments									

#### 8. Attachments

**Application Form** 

Proposed Subdivision Plan (Version 1)

Land Capability Assessment prepared by *Chris O'Brien & Company* Copy of Title (Lot 5 on PS312020)

Note: Applicable Planning Application fee is \$1,415.10

Printed 17/08/2023 Page 10 of 39

#### 1. Introduction

This Planning Report is prepared in support of a proposed two lot subdivision at 60 Old Bunga Road, Lake Bunga. The Report addresses the provisions of the Farming 1 Zone, Design and Development Overlay 7 and Erosion Management Overlay as contained within the East Gippsland Planning Scheme.



Aerial image of the wider precinct (Source: IntraMaps)

Printed 17/08/2023 Page 11 of 39

## 2. Subject Land & Surrounding Context

Formally known as Lot 5 PS312020 or more commonly known as 60 Old Bunga Road, Lakes Bunga. The subject land is irregular in shape and consists of 1.968 hectares. The land is developed by a double storey dwelling and outbuilding in the western part of the land and falls from Old Bunga Road towards the southeastern corner of the subject land.



Aerial image of the subject land and immediate surrounds (Source: IntraMaps)



Image of the existing dwelling and southern accessway looking east

Page 12 of 39

Old Bunga Road is a sealed rural road and the land is provided with two vehicle crossovers. The southern vehicle crossing services the existing dwelling to the west of the land, and the central vehicle crossover provides access to the eastern and southern parts of the property.



Central vehicle crossover to the land



Existing access points to the subject land (Source: IntraMaps)

Printed 17/08/2023 Page 13 of 39

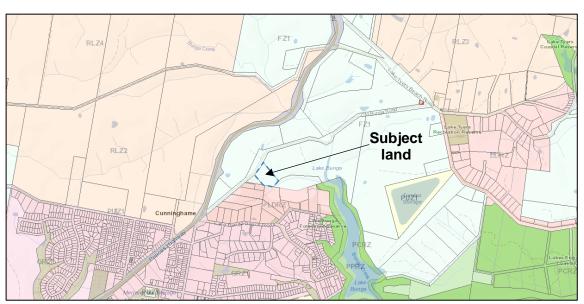
Further north across Old Bunga Road is a small Farming zoned parcel of land used for grazing purposes that contains improvements such as shedding, and unfortunately the dwelling on the property burnt down two years ago. The remains of the dwelling are still on site.

To the east is a property used for the purposes of a dwelling and land maintenance grazing. West of the land is an irregular shaped land parcel developed with a dwelling and outbuilding.

South of the land are two properties within the Low Density Residential Zone developed a dwelling on each lot and a property partly within the Low Density Residential Zone and partly within the Farming Zone developed with a dwelling. One dwelling obtains access from Old Bunga Road, while the two other properties obtain access from Chandlers Road.

Located between Lake Bunga/Lakes Entrance and Lake Tyers Beach, the precinct is unique being Farming Zone properties, however most land parcels contain dwellings and are abutted by Low Density Residential Zoned areas and Rural Living Zoned land.

There is no significant farming operation south of the Princes Highway with most properties utilised for rural living purposes and undertaking land management/hobby farming activities. The inclusion of the precinct within the Farming Zone is therefore quite unusual.



Planning scheme zone mapping demonstrating the unique precinct zoning and close by urban and rural living areas (Source: Vicplan)

Printed 17/08/2023 Page 14 of 39

## 3. The Application & Proposal

It is proposed to undertake a two lot subdivision of the subject land for the purposes of excising the existing dwelling.

The proposed subdivision would result in lot 1 containing the existing dwelling and outbuildings being of regular shape and consisting of 6644 square metres.

Proposed lot 2 will be irregular in shape, however the lot boundaries have been designed to complement to the topography of the land and adopts existing fencing. The proposed lot will be vacant except for a stock dam and will have an area of 1.336 hectares.

Both proposed allotments will be provided with vehicle access from existing gravel crossovers from Old Bunga Road.



Proposed plan of subdivision

The precinct is different from traditional large scale agricultural commercial farming. The land holdings are small and used in a similar fashion to rural living properties with farming activities limited to hobby farming/land management activities.

Page 15 of 39

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The land due to its size, development with a dwelling and sensitive interface results in the agricultural production of the property being extremely limited. The land has been effectively lost to productive farmland, the sensitive interfaces prevent the land being used for intensive farming and nearby agricultural production is limited to hobby farming.

Planning approval is required pursuant to the following Clauses of the East Gippsland Planning Scheme:

Planning Scheme Clause No.	Description of what is proposed
35.07-3 Farming Zone	Subdivide land
43.02-3 Design & Development Overlay	Subdivide land
44.01-5 Erosion Management Overlay	Subdivide land

Although part of the property is contained within the Vegetation Protection Overlay 1 along Old Bunga Road, no approval is required to undertake vegetation removal to facilitate the subdivision as the land is already provided with two existing gravel crossovers. The tree along the eastern common boundary is planted and an exotic species, therefore exempt from consideration.

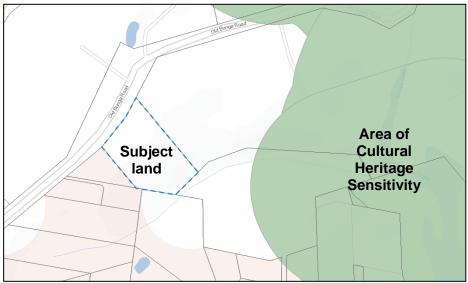
Printed 17/08/2023 Page 16 of 39

### 4. Cultural Heritage

The proposal does not trigger any mandatory requirements to provide a Cultural Heritage Management Plan (CHMP) under the *Aboriginal Heritage Act 2006.* 

Pursuant to Regulation 7 of the *Aboriginal Heritage Regulations 2018*, a CHMP is required for an activity if:

- (a) all or part of the activity area for the activity is in an area of cultural heritage sensitivity; and
- (b) all or part of the activity is a high impact activity



Extract from Cultural Heritage Sensitivity mapping, with sensitive areas shown in green (Source: VicPlan)

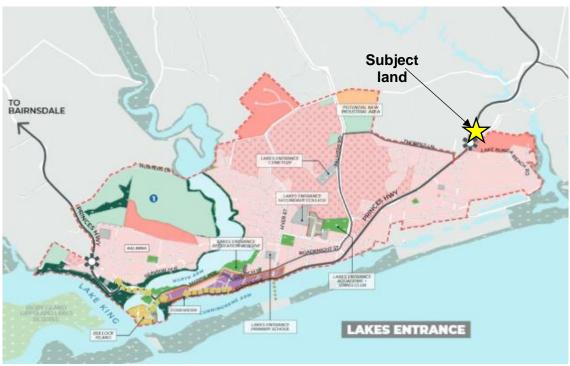
The subject land is not mapped as an area of cultural heritage sensitivity and a two lot subdivision is not classified as a high impact activity. Therefore, there is no mandatory requirement to provide a CHMP in support of the application.

Printed 17/08/2023 Page 17 of 39

## 5. Planning Policy

## 5.1 Planning Policy Framework

Whilst acknowledging that the subject land is zoned Farming 1 Zone it is yet within a precinct developed and used for rural living purposes with limited agricultural activity being undertaken, it is prudent to note that the property is located on the edge of the Lakes Entrance settlement boundary as identified in Clause 11.01-1L-02 Growth Area Towns – Lakes Entrance.



Lakes Entrance Framework Plan with subject land highlighted by a yellow star (Source: EGSC)

The subject land is devoid of native vegetation with some planted trees and shrubs. Both lots can be provided with vehicle access to the land utilising existing crossovers, avoiding the need to remove roadside vegetation as sought by Clause 12.01 Biodiversity.

The proposed lots are of sufficient size to allow for onsite wastewater disposal and onsite stormwater drainage management providing for the protection of the neighbouring southern waterway (Clause 12.03 Water Bodies and Wetlands and Clause 12.03-1L Waterways).

The land is contained within the Erosion Management Overlay as such Clauses 13.04-2S and 13.04-2L are relevant. The proposed subdivision will avoid fence construction as the lot boundaries accord with existing fencing, and vehicle crossovers exist.

Printed 17/08/2023 Page 18 of 39

Protecting the state's agricultural base by preserving productive farmland is the objective of Clause 14.01-1S Protection of agricultural land. The property is a small parcel of Farming Zone land used for rural living purposes.

The land due to its size, development with a dwelling and sensitive interface results in the agricultural production of the property being extremely limited. The land has been effectively lost to productive farmland, the sensitive interfaces prevent the land being used for intensive farming and nearby agricultural production is limited to hobby farming.

Clause 14.01-1L-04 applies to subdivisions less than the minimum area specified by the relevant schedule to the Farming Zone. Given the location of the land adjoining sensitive interfaces and the agricultural activity in the precinct limited to hobby farming/land management grazing, it is arguable that the land is not located in an agricultural area. The creation of two lots will be sympathetic to the land uses within the area.

## 5.2 Municipal Planning Strategy

Council has developed strategic directions within the Municipal Planning Strategy to guide development within the Shire.

The proposed subdivision will maintain the environmental qualities of Old Bunga Road reserve by utilising existing vehicle crossovers and avoiding the need to remove native vegetation as outlined in Clause 02.03-3 Environmental risks and amenity.

The property, due to its land size, sensitive interfaces and neighbouring agricultural activities, could not be considered to be rural land. The subdivision will have no detrimental agricultural impacts on neighbouring properties as these landowners are undertaking hobby farming (Clause 02.03-4 Natural resource management).

Printed 17/08/2023 Page 19 of 39

## 6. Planning Elements

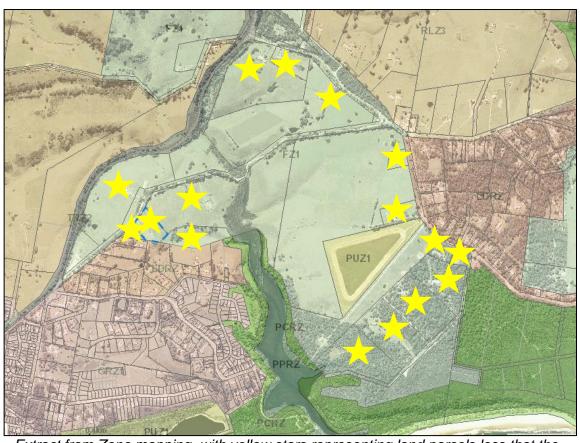
## 6.1 Farming 1 Zone

The land is zoned Farming 1 Zone in accordance with the East Gippsland Planning Scheme.

In accordance with Clause 35.07-3 a permit may be granted to create a smaller lot for an existing dwelling provided it is a two lot subdivision.

Subdividing the land into two lots is not considered inconsistent with the purposes or decision guidelines of the Farming Zone as the land and surrounding properties are not used for meaningful agricultural pursuits. The land is too small to be used for purposeful agriculture and the sensitive interfaces restrict the ability to undertake intensive agricultural activity. It is our view that the land has been and continues to be lost to agriculture.

The application is accompanied by a Land Capability Assessment that advises the lot to be created has the ability to manage wastewater on site and is highly unlikely to cause detriment to the environment.

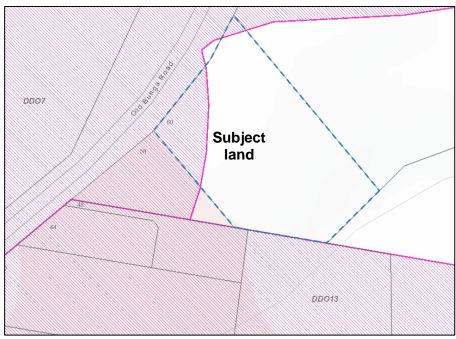


Extract from Zone mapping, with yellow stars representing land parcels less that the Farming Zone scheduled area and developed with dwellings (Source: VicPlan)

Printed 17/08/2023
Page 20 of 39

## 6.2 Design and Development Overlay 7

Part of the subject land is contained within the Design and Development Overlay. Schedule 7 of the Overlay relates to *Highway Corridors, Princes Highway & Great Alpine Road*.



Planning scheme overlay mapping (Source: VicPlan)

The subject land is located more than 200m from the Princes Highway, therefore the site's partial inclusion within the Overlay is considered an anomaly.

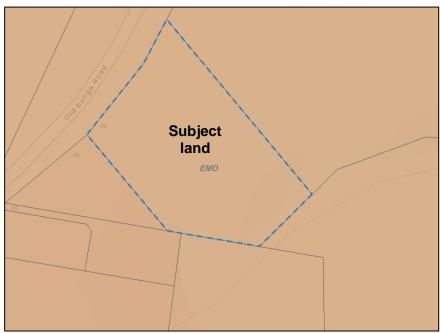
Nonetheless, design objectives and decision guidelines are addressed by the subdivision as follows:

- There will be no access to the Princes Highway avoiding any adverse effects on the safe flow of traffic along the highway.
- The subject land in not located along the direct highway corridor avoiding linear development.
- No native vegetation in the Highway road reserve will be impacted.
- Additional traffic as a result of the additional lot can be accommodated at the highway intersection with Old Bunga Road.

Printed 17/08/2023 Page 21 of 39

## 6.3 Erosion Management Overlay

The whole of the subject land is contained within the Erosion Management Overlay.



Planning scheme overlay mapping (Source: VicPlan)

The schedule to the Overlay is Management of Geotechnical Hazard. Sub-clause 4.0 advises that a geotechnical risk assessment does not need to accompany an application to subdivide land in a rural zone into two lots.

The objectives and decision guidelines are met by the proposal as the subdivision requires little associated works as the existing crossovers will be utilised and no new fencing is required as proposed subdivision boundaries accords with existing fencing.

#### 7. Conclusion

The proposed two lot subdivision at 60 Old Bunga Road, Lake Bunga is considered to accord with all relevant provisions of the Farming 1 Zone, Design and Development Overlay 7 and Erosion Management Overlay of the East Gippsland Planning Scheme. The proposal is consistent with the Planning Policy Framework and Municipal Planning Strategy and has been designed to complement the adjoining properties.

For these reasons we respectfully request that Council consider the merits of the application favourably and resolve to issue a Planning Permit.

Printed 17/08/2023 Page 22 of 39

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Reference No: B23259

Project No: 310623

7/07/2023

Crowther & Sadler Pty Ltd P.O. Box 722 BAIRNSDALE VIC 3875

Email: aaron@crowthersadler.com.au

Dear Aaron,

RE: PROPOSED 2 LOT SUBDIVISION – (ALLOW 4 BEDROOM DWELLING)

60 OLD BUNGA ROAD, LAKE BUNGA. VIC

WATER ENGINEER'S CERTIFICATION OF LAND CAPABILITY ASSESSMENT AND ON SITE SOIL INVESTIGATION FOR DOMESTIC EFFLUENT DISPOSAL SEPTIC TANK SYSTEM

Further to our detailed inspection, at 11:30am on 6th July, 2023, of the above site this is to certify that Andrew John Powell, on behalf of Chris O'Brien & Company Pty Ltd, has prepared this report to document our Land Capability Assessment (LCA) and soil percolation test data together with recommendations for a specific location within the above allotment for on-site containment of domestic effluent disposal.

The purpose of this particular land capability assessment (LCA) is to investigate an area for a "Land Application Area" (LAA) on the allotment to be created. Due to the size of the allotment a larger than required area can be set aside for use of an LAA giving greater flexibility in locating the absorption trenches. The area where the LAA can be located is shown on the site plan attached hereunder.

An area, measuring approx. 20m (NW-SE direction)  $\times$  25m (NE-SW direction) and set about 5m south west of the north east boundary and about 100m from Old Bunga Road boundary has been allocated. The test site has an average slope of about 1% to the north east and about 2% to the south east. The buffer zones are clear of any ephemeral waters. The area allocated for disposal field will not cause any detriment to the environment nor stormwater run-off quality within the precinct where the allotment is located.

A soil investigation pit was hand excavated. The soil consists of a damp grey & dark grey silty loam (ZL) topsoil containing coarse grass roots moderately dispersed, underlain by a damp grey tan clay loam (CL) at 150-350mm depth underlain damp orange tan grey clay loam (CL) at 350-600mm depth at termination of the test pit. The field texture grade for this particular soil was identified, being bolus coherent, plastic to touch and smooth to manipulate, will form a ribbon.

#### DISCUSSION

For this particular site, should soil percolation testing have been undertaken we would expect the percolation rate to exceed 15mm/hr and be less than 500mm/hr. in this case absorption is largely by absorption through the upper soil strata and evapo-transpiration.

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#### **PHOTOGRAPHY**

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Several colour photographs have been attached to the rear of this report to illustrate the subject allotment terrain and the location of the area of the "On-Site Domestic-Wastewater" disposal field. In addition, a test pit was hand excavated to 600mm depth, to investigate and illustrate the various soil horizons. The test pit, together with the tailings of excavated material, were photographed and have been attached as well. It is obvious, by observation of the photographs, the soil type and the reasonable sloping terrain available for disposal, that standard absorption trenches can be used on this site.

#### DAILY FLOW & SEPTIC TANK CAPACITY

It is expected that a new dwelling will be constructed on the new allotment. For the purposes of this report we have adopted four (4) bedrooms and as a consequence the estimated daily flow in accordance with EPA Publication 891.4 July 2016: Code of Practice - Onsite Wastewater Management: Table 4 (dwelling installed with full water-reduction fixtures and fittings) and AS/NZS 1547:2012 Table H1

> $=(2 + 3 \times 1)150$ =750 L/day (Town Reticulated Water Supply)

Minimum septic tank capacity (C) in accordance with AS/NZS 1547:2012 Table J1

=3000 litres (Minimum Volume)

#### STANDARD ABSORPTION TRENCH - DESIGN AREA SIZING IN ACCORDANCE WITH AS/NZS 1547:2012 AND EPA PUBLICATION 891.4: JULY 2016

Reference is made to the Australian Standard code AS/NZS 1547:2012 "On site Domesticwastewater Management" Appendix L. Refer table L1, whereby the soil examined on site may be classified as a Soil Category 4: Clay Loams (weakly structured), the Design Irrigation Rate (DIR) for primary treated effluent is approx. 6mm/day. Noteworthy is that the EPA "Guidelines for Environmental Management" - Code of Practice Onsite Wastewater Management: Appendix A -Table 9: Soil Categories and Recommended Maximum Design Loading/Irrigation Rates (DLR/DIR) for "Land Application Systems" makes direct reference to Table L1 in AS/NZS 1547:2012 and therefore the exact same DIR is recommended by the EPA. A water balance analysis is attached to determine the area of land absorption required.

#### LENGTH REQUIRED FOR STANDARD ABSORPTION TRENCH SYSTEM

The appropriate absorption bed length for a trench system has been determined using formula from Appendix L, with the bed length L = Q / (DLRxW). A conservative DIR of 6.0 L/m2/day being adopted for this site. Based on a Q of 750L/day of wastewater generated by a four (4) bedroom dwelling supplied by Reticulated Water Supply. Adopting a trench width of 1000mm, the total length of trench bed required is 125m. this can be provided in 5 x 25m lengths A final layout of the treatment system is to be completed when a septic tank permit is applied for.

#### RESERVE AREA NOT REQUIRED

The allocation of a reserve area is not thought to be necessary on this site, however significant area is available should the installed trench bed system fail. The design parameters used to determine the required size of the Land Application Area (LAA) have been suitably conservative. The soil is not sodic nor saline.

#### PREPARATION OF THE SITE PRIOR TO COMMENCEMENT

The area upon which the absorption trench bed is proposed for construction shall be protected from stormwater overland flow by establishing a shallow open earth vee-drain across the upstream sides of the LAA (effluent disposal field) curtailing around the ends – if required.

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#### **SUMMARY & CONDITIONS**

The water balance yields a land application area (LAA) of 150sq.m. It is our professional opinion the site is suitable for absorption trenches with the total length of 1000mm wide trench to be at least 125m which will be environmentally adequate and consistent with the above recommendations.

Based on the land capability assessment results, it is our opinion that the soil type and profile on this site are suitable for disposal of wastewater on site, using primary treatment only. 1000mm wide x 400mm depth trenches are to be used. Trenches should be at least 2m apart.

From the test results it can be seen that a four (4) bedroom dwelling requires a disposal bed length of about 125m (minimum) for a standard absorption trench bed system.

Siting of the proposed wastewater disposal field envelope shall be within the area tested. Refer to attached site plan. The following factors shall be considered when positioning the proposed wastewater disposal field.

- 1) Standard siting guidelines as per the requirements of the East Gippsland Shire Council (EGSC) guidelines.
- 2) At least 3.0m (subject to agreement between EGSC and COB & Co. prior to commencement) up-slope and 1.5m down-slope of any title boundary/road reserve or building.

The following additional conditions shall be observed in addition to those set out by the local Council.

- The system has been designed on a standard 1000mm wide x 400mm deep trench system. Trenches are to be installed at 3m maximum centres.
- 2. Gypsum is to be added to the bottom of trenches at a rate of 1kg/m2
- The disposal field shall be sown with lawn grasses as soon as possible on completion of works. This will stabilize the soil and allow for the vegetation to take up the wastewater.
- Only water from the septic tank is permitted to enter the disposal system. Stormwater run-off shall be prevented from entering the trench bed system area. We suggest an open earth veedrain be constructed to 100mm depth along the high sides of this area or other approved method as approved by the Design Engineer.
- 5. Vehicles or heavy equipment shall not be permitted on the disposal field as damage to the disposal system may result.
- 6. Spikes, tent pegs, garden stakes etc. shall not be driven into the ground in the disposal field as damage to the disposal system may result.
- 7. An ongoing maintenance program shall be instigated to ensure that the disposal system is properly maintained and works effectively.

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#### CONCLUSION

Following the Land Capability Assessment on this site it is professional opinion that the newly created allotment is suitable for on-site wastewater disposal utilizing a standard absorption trench bed system which is highly unlikely to cause detriment to the environment.

Adequate maintenance and checking of the proposed system should be established as part of the Council Permit Application approvals process.

Yours faithfully,

Andrew Powell Assoc.Dip (Civil)

for CHRIS O'BRIEN & COMPANY PTY LTD

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LAND CAPABILITY ASSESSMENT AND SOME PERCOLATION TESTING BY breach any copyright.

Land	Land Capabilit			The state of the s		Site Rating
Features	Very	Good(2)	Fair(3)	Poor(4)	Very	
	Good(1)				Poor(5)	
General Charac		Moist soil,		·		
Site Drainage	signs of dampness			Visible signs of dampness, such as moisture tolerant plants	Water ponding on surface	2
Runoff	None	Low	Moderate	High, need for diversionary structures	Very high, diversion not practical	2
Flood Levels	Never		<1 in 100	>1 in 100 and <1 in 20	<1 in 20	1
Proximity to	>60m				<60m	1
watercourses						
Slope%	0-2	2-8	8-12	12-20	>20	1
Landslip	No actual or potential failure		Low potential for failure	High potential for failure	Present or past failure	1
Groundwater (seasonal watertable depth(m))	>5	5-2.5	2.5-2.0	2.0-1.5	<1.5	1
Rock outcrop (% of land surface containing rocks >200mm)	0	<10%	10-20%	20-50%	>50%	1
Erosion potential	No erosion potential	Minor	Moderate	High	Severe erosion potential	1
Exposure	High sun and wind exposure		Moderate	Low sun and wind exposure		1
Landform	Hill crests, convex side slopes and plains		Concave sideslopes and footslopes		Floodplains and incised channels	1
Vegetation type	Turf or pasture				Dense forest with little undergrowth	1
Average Rainfall (mm/year)	<450	450-650	650-750	750-1000	>1000	3
Pan Evaporation (mm/yr)	<1500	1250-1500	1000-1250		<1000	2

Soil profile charecteristics

Soil	2 and 3	4		5	1 and 6	2
permeability category						
Profile depth	>2m	1.5m-2m	1.5m-1m	1.0m-0.5m	<0.5m	2
Presence of	None		,,,,		Extensive	1
mottling						Printed 1

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Coarse	<10	10-20	20-4 <b>bised</b> fo	r any purpo	sa <sub>0</sub> which m	a <b>y</b> breach an
fragments						
(%)						
pH	6-8		4.5-6		<4.5,>8	Not
						measured
Emerson	4 ,6 ,8	5	7	2, 3	1	1
aggregate						
Electrical	<0.3	0.3-0.8	0.8-2	2-4	>4	Not
conductivity						measured
(Ece)(Ds/m)						
Sodicity	<3		6-8	8-14	>14	3
ESP%						

#### INSTALLATION CONDITIONS

All installations shall comply with the AS/NZS 1547:2012 the, EPA Code of Practice – Septic Tanks 1996, the Victorian Water Supply and Sewerage Plumbing Regulations 1986 and AS 3500 National Plumbing and Drainage Code.

No septic tank or sand filter shall be installed closer than 1.5m to the foundations of any house, building or the boundary of the allotment.

Inlets and outlets of the septic tank must be baffled to avoid disturbing the contents of the septic tank.

Inspection openings of the septic tank shall be brought up to and permanently marked at surface level. Inspection openings shall be fitted with childproof airtight covers which are capable of being readily removed and replaced by one adult. Access opening covers shall not be cemented or otherwise fixed in position so as to be incapable of being readily removed for inspection purposes.

Food waste disposal units are not recommended for use with septic tank systems. If used in household situation, a minimum extra allowance of 25% shall be made for additional sludge storage.

Spa baths over 200 litre capacity are not to be connected to the primary septic tank but must be taken into account for effluent disposal calculations.

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System is contained in the Proposed Lot 1.

## PROPOSED SUBDIVISION

PARISH OF COLQUHOUN CROWN ALLOTMENT 13IC (PART)

LOT 5 ON PS312020F

EXISTING ACCESS EXISTING DAM EXISTING SEPTIC TANK AND LAA 66.37

## DARREN & JOANNE REGGARDO 60 OLD BUNGA ROAD, LAKE BUNGA

## Crowther&Sadler Pty.Ltd.

LICENSED SURVEYORS & TOWN PLANNERS
162 MACLEOD STREET, BAIRNSDALE, VIC., 3675
P. (03) 5152 5011 E. contact@crowtheradder.com.gu

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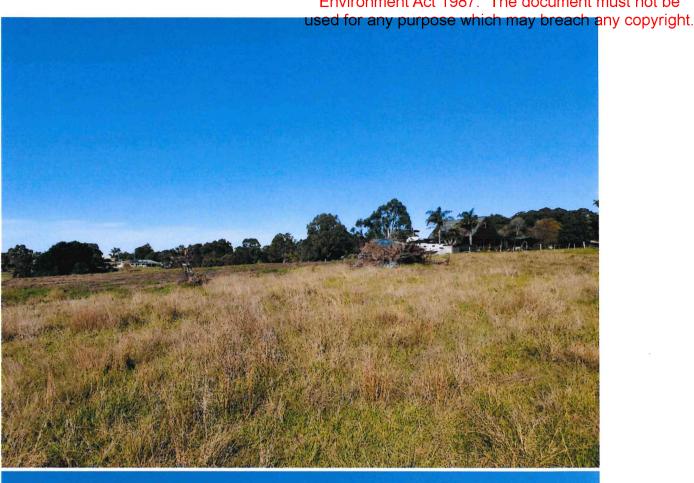
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Maximum area required for zero storage  LAND AREA REQUIRED FOR ZERO  STORAGE	eximum area required for zero storage  ND AREA REQUIRED  ORAGE	aximum area required for zero storage	oviming area required for	Tillacit. Todagood	Effluent Produced	Application for Zero Storage	Maximum effluent	ZERO STORAGE	LAND AREA FOR	Inputs	Effluent Irrigation	Retained Rainfall	INPUTS	Outputs	Percolation	Evapotranspiration	OUTPUTS	Crop Factor	Evaporation	Rainfall	Days in month	Parameters			Svaporation Data	Rainfall Data	Retained Rainfall	<b>E</b> rop Factor	Mominated Land Application Area	Design DIR	Design Wastewater Flow
		) FOR ZER		-	~		×				٧	RR			В	TET		0	Е	R	D	Symbol							ion Area		
		ő	1//	< 2	O*D		(ET+B)-RR			RR + W	(QxD)/L	RxRf		ET+B	DIR)xD	ExC			1	7	1	Formula			East Sale Sta	Bairnsdale St	Rf	С	L	DIR	Q
		Sq.m	oq.m	2000	L/month		mm/month			mm/month	mm/month	mm/month		mm/month	mm/month	mm/month			mm/month	mm/month	days	Units			East Sale Station 085072 mean monthly	Bairnsdale Station 085279 mean monthly	0.8	0.6-0.85	150	o	750
150		74	13.22	20 20	23250		317.52			194.76	155	39.76		357.28	186	171.28		0.85	201.5	49.7	31	Jan			ean month	nean mon	unitless	unitless	Sq.m	mm/day	L/day
This is		78	70.02	20.02	21000		269.16			176.88	140	36.88		306.04	168	138.04		0.85	162.4	46.1	28	Feb			nly	thly					
based or		96	93.10	05 10	23250		244.28			192.2	155	37.2		281.48	186	95.48		0.7	136.4	46.5	31	Mar					Proportion of rainfall that remains on site and infiltrates allowing for any runoff	Estimates evapotranspiration as a	Used for iterative purposes (if desi	ssumes loa	Based on 4 bedrooms (5 persons)
This is based on the worst months of		117	110.22	116 20	22500		193.6			195.2	150	45.2		238.8	180	58.8		0.7	84.0	56.5	30	Apr					of rainfall to	vapotrans	rative purp	my topsoil	bedrooms
st months		128	127.45	107 45	23250		182.42			190.2	155	35.2		217.62	186	31.62		0.6	52.7	44.0	31	May					hat remain	piration as	oses (if de	s without ir	(5 persor
of the yo		146	143.12	145 40	22500		155.04			200.16	150	50.16		205.2	180	25.2		0.6	42.0	62.7	30	Jun					s on site		esired) to	npeded ve	າຣ) @ 150
ear, so th		133	132.00	13260	23250		175.34			193.56	155	38.56		213.9	186	27.9		0.6	46.5	48.2	31	Jul					and infiltra	of pan ev	determine	rtical drain:	@ 150L/p/day From EPA Publication 891.4 - July 2016
e balanc		118	117.33	117 25	23250		198.12			183.8	155	28.8		226.92	186	40.92		0.6	68.2	36.0	31	Aug					tes allowir	aporation	storage re	age, refer	om EPA F
f the year, so the balance overestimates the area/storage		110	109.79	100 70	22500		204.94			190.16	150	40.16		245.1	180	65.1		0.7	93.0	50.2	30	Sep					ng for any	varies wi	quiremen	able 5.1 A	ublication
timates th		104	103.38	103 30	23250		224.88			202.92	155	47.92		272.8	186	86.8		0.7	124.0	59.9	31	Oct					runoff	th season	ts for nom	4 AS/NZS	891.4 - J
ne area/s		91	90.00	00.60	22500		248.13			211.92	150	61.92		310.05	180	130.05		0.85	153.0	77.4	30	Nov						fraction of pan evaporation, varies with season and crop type	red) to determine storage requirements for nominated areas	Assumes loamy topsoils without impeded vertical drainage, refer Table 5.1 A4 AS/NZS 1547:2012	uly 2016
torage		79	/8.61	70 61	23250		295.78			203.32	155	48.32		344.1	186	158.1		0.85	186.0	60.4	31	Dec						type	sas	2	
										2335.	1825	510.1		3219.	2190	1029.			1349.	636.9	365	Tota									

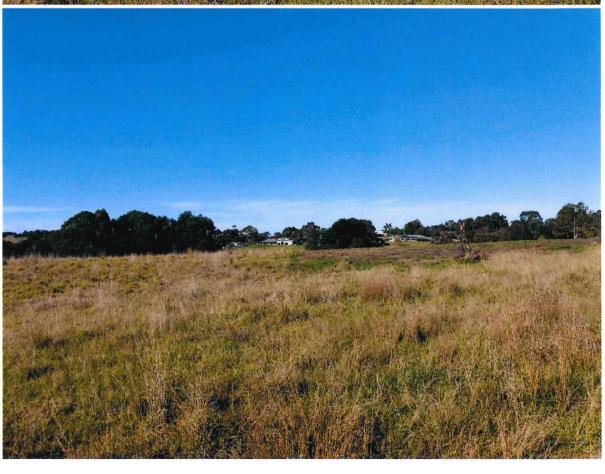
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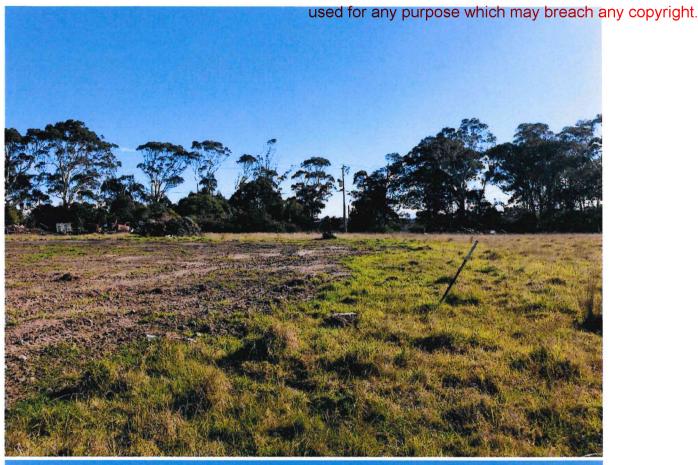
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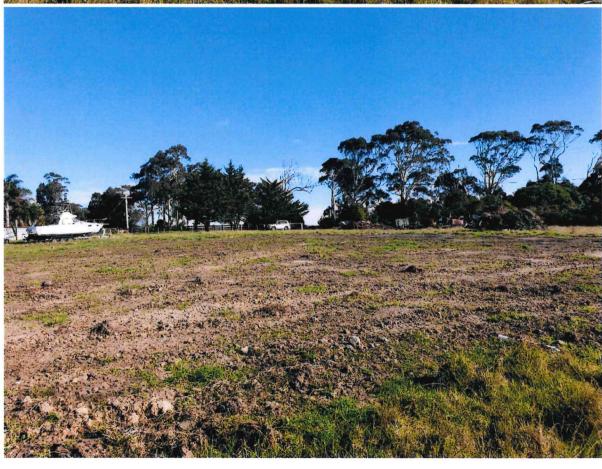




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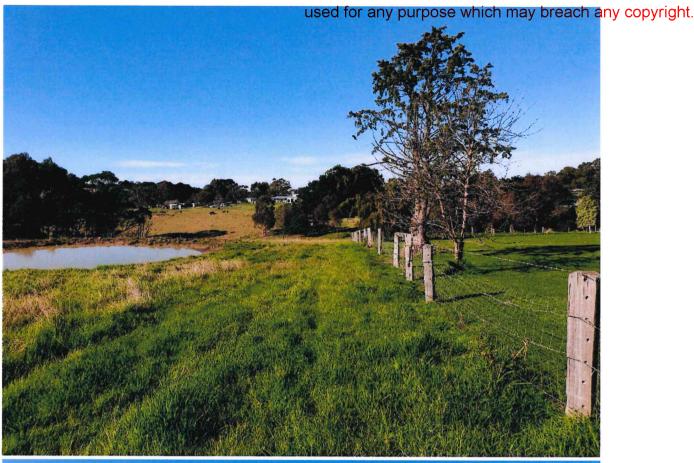
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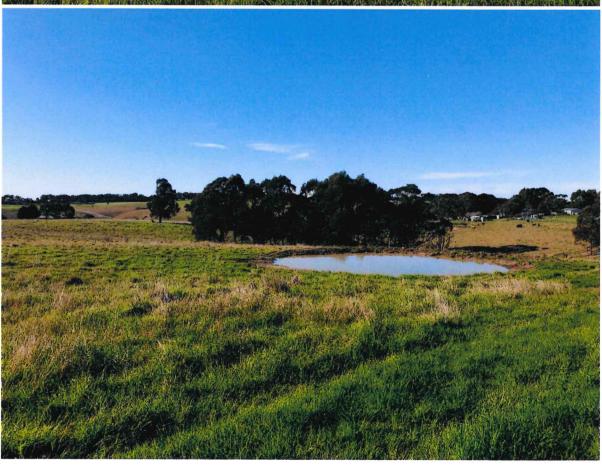




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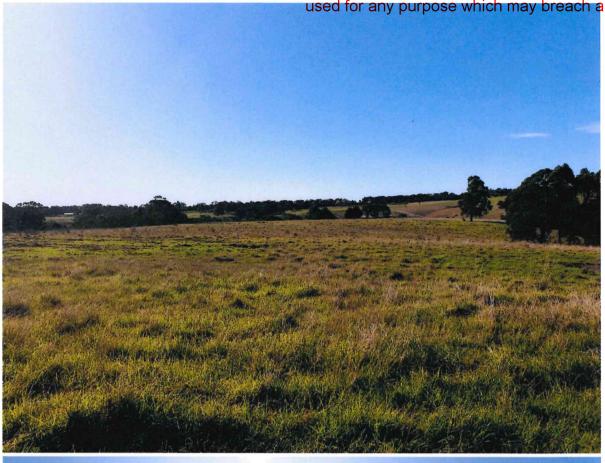




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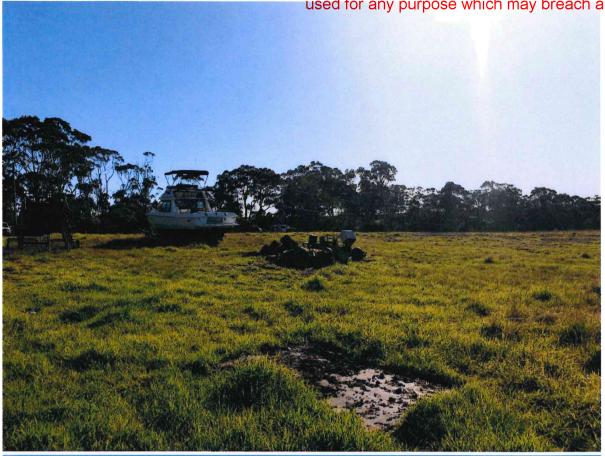
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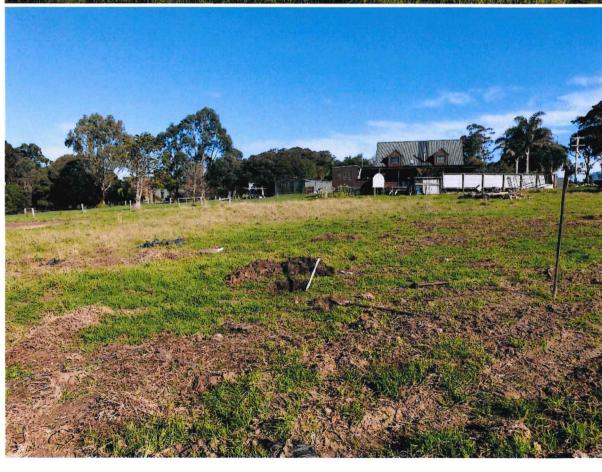
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## PROPOSED SUBDIVISION

PARISH OF COLQUHOUN CROWN ALLOTMENT 131C (PART)

LOT 5 ON PS312020F

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DARREN & JOANNE REGGARDO 60 OLD BUNGA ROAD, LAKE BUNGA

# Crowther& Sadler Pty. Ltd.

LICENSED SURVEYORS & TOWN PLANNERS

152 MACLEOD STREET, BAIRNSDALE, VIC., 3875 P. (03) 5152 5011 E. contact@crowthersadler.com.au

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