All communications to be addressed to:

Headquarters
15 Carter Street
Lidcombe NSW 2141

Headquarters Locked Bag 17 Granville NSW 2142

Telephone: 1300 NSW RFS e-mail: records@rfs.nsw.gov.au

Facsimile: 8741 5433



The General Manager Byron Shire Council PO Box 219 MULLUMBIMBY NSW 2482

Your Ref: 10.2017.661.1 Our Ref: D17/4624 DA17121310830 BS

ATTENTION: Luke Munro 1 March 2018

Dear Mr Munro

Integrated Development for 1//201626, 2//542178, 1//780242, 2//818403, 1//520063 & 7020//1113431 - Ewingsdale Road, 364, 394 & 412 Ewingsdale Road & Melaleuca Drive Byron Bay

I refer to your letter dated 4 December 2017 seeking general terms of approval for the above Integrated Development in accordance with Section 91 of the 'Environmental Planning and Assessment Act 1979'.

This response is to be deemed a bush fire safety authority as required under section 100B of the 'Rural Fires Act 1997' and is issued subject to the following numbered conditions:

- 1. The development proposal is to comply with the following specified plans prepared by Chris Abbott Surveying that are all dated 8/9/17;
 - 'Plan of proposed subdivision of Lot 1 DP 201626, Lot 2 DP 542178, Lot 1 DP 780242, Lot 2 DP 818403 & Lot 1 DP 520063 –West Byron Ewingsdale Road', identified as Ref. Nos. 15024 -8A and also noted as Sheet '1 of 9',
 - 'Plan of proposed subdivision of Lot 1 DP 201626, Lot 2 DP 542178, Lot 1 DP 780242, Lot 2 DP 818403 & Lot 1 DP 520063 –West Byron Ewingsdale Road', identified as Ref. Nos. 15024 -9A and also noted as Sheet '2 of 9',
 - 'Plan of proposed subdivision of Lot 1 DP 201626, Lot 2 DP 542178, Lot 1 DP 780242, Lot 2 DP 818403 & Lot 1 DP 520063 –West Byron Ewingsdale Road', identified as Ref. Nos. 15024 -10A and also noted as Sheet '3 of 9',
 - 'Plan of proposed subdivision of Lot 1 DP 201626, Lot 2 DP 542178, Lot 1 DP 780242, Lot 2 DP 818403 & Lot 1 DP 520063 –West Byron Ewingsdale Road', identified as Ref. Nos. 15024 -11A and also noted as Sheet '4 of 9',

ID:110830/104488/5 Page 1 of 4

- 'Plan of proposed subdivision of Lot 1 DP 201626, Lot 2 DP 542178, Lot 1 DP 780242, Lot 2 DP 818403 & Lot 1 DP 520063 –West Byron Ewingsdale Road', identified as Ref. Nos. 15024 -12A and also noted as Sheet '5 of 9',
- 'Plan of proposed subdivision of Lot 1 DP 201626, Lot 2 DP 542178, Lot 1 DP 780242, Lot 2 DP 818403 & Lot 1 DP 520063 –West Byron Ewingsdale Road', identified as Ref. Nos. 15024 -13A and also noted as Sheet '6 of 9',
- 'Plan of proposed subdivision of Lot 1 DP 201626, Lot 2 DP 542178, Lot 1 DP 780242, Lot 2 DP 818403 & Lot 1 DP 520063 –West Byron Ewingsdale Road', identified as Ref. Nos. 15024 -14A and also noted as Sheet '7 of 9',
- 'Plan of proposed subdivision of Lot 1 DP 201626, Lot 2 DP 542178, Lot 1 DP 780242, Lot 2 DP 818403 & Lot 1 DP 520063 –West Byron Ewingsdale Road', identified as Ref. Nos. 15024 -15A and also noted as Sheet '8 of 9', and
- 'Plan of proposed subdivision of Lot 1 DP 201626, Lot 2 DP 542178, Lot 1 DP 780242, Lot 2 DP 818403 & Lot 1 DP 520063 –West Byron Ewingsdale Road', identified as Ref. Nos. 15024 -16A and also noted as Sheet '9 of 9'.

except where the following conditions modify the referenced plans.

Asset Protection Zones

The intent of measures is to provide sufficient space and maintain reduced fuel loads so as to ensure radiant heat levels of buildings are below critical limits and to prevent direct flame contact with a building. To achieve this, the following conditions shall apply:

- At the issue of subdivision certificates for each stage, and then in perpetuity, all residential lots shall be managed as an inner protection area (IPA) as outlined within section 4.1.3 and Appendix 5 of 'Planning for Bush Fire Protection 2006' and the NSW Rural Fire Service's document 'Standards for asset protection zones'.
- 3. A restriction to the land use, pursuant to section 88B of the 'Conveyancing Act 1919', shall be placed on all land areas (including road reserves) within the subdivision that are noted as being BAL-FZ or BAL-40 on the plan; titled "Figure 12 BAL Contour map", prepared by GEOVIEW and dated 14/11/17.
 - These areas, identified as being BAL-FZ or BAL-40, shall be managed as an inner protection area (IPA) as outlined within section 4.1.3 and Appendix 5 of 'Planning for Bush Fire Protection 2006' and the NSW Rural Fire Service's document 'Standards for asset protection zones'.
- 4. A restriction to the land use, pursuant to section 88B of the 'Conveyancing Act 1919', shall be placed on any land that has become residual land (following the completion of any stage within the subdivision), requiring a 100m wide asset protection zone (APZ), managed as an inner protection area (IPA), to be provided where the residual adjoins the completed stage(s).
 - The required IPA shall be managed as outlined within section 4.1.3 and Appendix 5 of 'Planning for Bush Fire Protection 2006' and the NSW Rural Fire Service's document 'Standards for asset protection zones'.

5. A restriction to the land use, pursuant to section 88B of the 'Conveyancing Act 1919', shall be placed upon any lot that has been noted to contain areas of BAL-FZ or BAL-40, as identified on the plan titled; "Figure 12 BAL Contour map", prepared by GEOVIEW and dated 14/11/17. The restriction shall prohibit a habitable dwelling being erected upon the areas of the lots identified as either BAL-FZ or BAL-40.

Asset Protection Zones

The intent of measures is to provide sufficient space for fire fighters and other emergency services personnel, ensuring radiant heat levels permit operations under critical conditions of radiant heat, smoke and embers, while supporting or evacuating occupants. To achieve this, the following conditions shall apply:

6. The section of public road, that is located between proposed stages 6 and 7 (identified on plan ref. 15024-8A, as noted above in Condition No. 1), shall have the entire road reserve area managed as an IPA in perpetuity, prior to the release of a subdivision certificate for stage 6.

The width of management, measured along the road reserve, shall be equivalent to the extent of the eastern and western edges of the vegetation (noted as E2 zoned strip of land) located to both the north and south of the road.

Water and Utilities

The intent of measures is to provide adequate services of water for the protection of buildings during and after the passage of a bush fire, and to locate gas and electricity so as not to contribute to the risk of fire to a building. To achieve this, the following conditions shall apply:

7. Water, electricity and gas are to comply with section 4.1.3 of 'Planning for Bush Fire Protection 2006'.

Access

The intent of measures for public roads is to provide safe operational access to structures and water supply for emergency services, while residents are seeking to evacuate from an area. To achieve this, the following conditions shall apply:

- 8. Public road access shall comply with section 4.1.3 (1) of 'Planning for Bush Fire Protection 2006'.
- 9. A restriction to the land use, pursuant to section 88B of the 'Conveyancing Act 1919', shall be placed on residual land created when an adjoining stage has been completed and a proposed through road dead ends thereby requiring the construction of a temporary cul-de-sac upon the residual land.

This restriction can be released upon the completed development of the adjacent land and the continuing road has been constructed.

The intent of measures for fire trails is to provide suitable access for fire management purposes and maintenance of APZs. To achieve this, the following conditions shall apply:

10. Fire trails shall comply with section 4.1.3 (3) of 'Planning for Bush Fire Protection 2006'.

11. The fire trail that links stages 6 and 7 (identified on plan ref. 15024-8A, as noted above in Condition No. 1) shall be completed as part of stage 7.

General Advice - consent authority to note

Any future development application lodged within this subdivision under section 79BA of the 'Environmental Planning & Assessment Act 1979' will be subject to requirements as set out in 'Planning for Bush Fire Protection 2006'.

For any queries regarding this correspondence please contact Bradford Sellings on 1300 NSW RFS.

Yours sincerely

Alan Bawden

Team Leader - Development Assessment and Planning

The RFS has made getting information easier. For general information on 'Planning for Bush Fire Protection, 2006', visit the RFS web page at www.rfs.nsw.gov.au and search under 'Planning for Bush Fire Protection, 2006'.



File No: NTH09/01682/05 Your Ref: 10.2017.661.1

The General Manager Byron Shire Council PO Box 219 MULLUMBIMBY NSW 2482

Attention: Luke Munro

Dear Sir / Madam.

Development Application No. 10.201.661.1 – Proposed 387 Lot Subdivision West Byron Urban Release Area 364, 394, & 412 Ewingsdale Road and Melaleuca Drive, Byron Bay

I refer to your letter of 5 December 2017 received in our office on 11 December 2017 requesting comment from Roads and Maritime Services in relation to the abovementioned development application.

Roles and Responsibilities

The key interests for Roads and Maritime are the safety and efficiency of the road network, traffic management, the integrity of infrastructure and the integration of land use and transport.

Ewingsdale Road (MR545) is a classified (Regional) road. Byron Shire Council is the Roads Authority for all public roads (other than freeways or Crown roads) in the local government area pursuant to Section 7 of the *Roads Act 1993* (Roads Act). Roads and Maritime is the Roads Authority for freeways and can exercise roads authority functions for classified roads in accordance with the Roads Act.

Council is responsible for setting standards, determining priorities and carrying out works on Local and Regional roads. Roads and Maritime's concurrence is required prior to Council's approval of works on the classified (Regional) roads pursuant to Section 138 of the Roads Act. Roads and Maritime's consent is required for the installation of Traffic Control Signals under 87 of the Road Act and consent is provided under the terms of a Works Authorisation Deed (WAD).

In accordance with Clause 101 of the *State Environmental Planning Policy (Infrastructure) 2007* (ISEPP) the Consent Authority is to have consideration for the safety, efficiency and ongoing operation of the classified road as the development has frontage to a classified road. Roads and Maritime is given the opportunity under Clause 104 to provide comment on traffic generating developments listed under Schedule 3.

Roads and Maritime Response

Roads and Maritime has reviewed the referred information and provides the following comments to assist the consent authority in making a determination;

- The Traffic Impact Assessment (TIA) identifies existing traffic flow along the subject section of Ewingsdale Road as being in the order of 20,000 vehicles per day (vpd), with seasonal variations identified as being up to 26,000vpd. The TIA identifies the proposed West Byron Urban Release Area (WBURA) is forecast to generate an additional 14,000vpd.
- The assumed rate of annual background traffic identified in the TIA should be consistent with Council's current strategic planning for the local government area to ensure modelling reflects likely future traffic conditions on Ewingsdale Road. Council should be satisfied that the assessment has considered any expected increases in background traffic arising from approved or proposed developments in the subject area over the future horizon.

rms.nsw.gov.au 1

- The TIA has forecast that the proposed roundabout at the intersection of Ewingsdale Road and Bayshore Drive will be saturated during the AM peak hour by 2028; partly due to increasing demand for U-turn movements generated by any restriction to right turn movements at the Banksia Drive intersection.
- The TIA recommends that retention of the existing eastbound right-turn facility at Banksia Drive and suggests that signalisation of the intersection may assist in reducing demand at the abovementioned roundabout whilst providing improved safety for pedestrians and cyclists crossing Ewingsdale Road.
- The proposed development will increase demand for active and public transport modes, including the need for appropriate connectivity across Ewingsdale Road. Council should ensure that the proposed intersection treatments, active and public transport facilities along the Ewingsdale Road corridor will operate in a complimentary manner to accommodate the needs of all road users.
- The staging of any interim and final intersection treatments should be identified under relevant determinations to ensure suitable road infrastructure is delivered to accommodate the increase in demand generated by the proposed development and the cumulative impact of other developments in the subject area.
- All works within the classified road reserve are to be designed and constructed in accordance with the current Austroads Guidelines, Australian Standards and associated Roads and Maritime supplements.
- It is recommended that construction traffic impacts on Ewingsdale Road be managed under coordinated Construction Traffic Management Plans prepared by suitably qualified persons in accordance with the current RTA Traffic Control at Worksites Manual.
- Regulatory signs and devices will require the endorsement of the Local Traffic Committee prior to Council
 approval.

It would be appreciated if Council could forward a copy of the Notice of Determination for our records. If you have any further enquiries regarding the above comments please contact Matt Adams, A/Manager Land Use Assessment on (02) 6640 1362 or via email at: development.northern@rms.nsw.gov.au

Yours faithfully

For Liz Smith

A/Network & Safety Manager, Northern Region

Date: 12 January 2018



BYRON SHIRE COUNCIL
DOC NO:
REC'D: 2 5 JAN 2018
FILE NO: A 73568
ASSIGNEE: A WILSON

Our Ref: DOC17/616748 Your Ref: 21700D x 10.2017.661.1

> General Manager Byron Shire Council PO Box 219 Mullumbimby NSW 2482

Attention: Mr Luke Munro

Dear Mr Gainger

Re: Proposed subdivision of six lots into 387 lots in eleven stages at Ewingsdale Road, West Byron Bay

Thank you for your letter dated 5 December 2017 about the proposed subdivision of six (6) Lots into three hundred and eighty-seven (387) Lots at Ewingsdale Road in the West Byron urban release area seeking comments from the Office of Environment and Heritage (OEH). I appreciate the opportunity to provide input.

The OEH has statutory responsibilities relating to biodiversity (including threatened species, populations, ecological communities, or their habitats), Aboriginal and historic heritage, National Parks and Wildlife Service estate, flooding and estuary management.

We have reviewed the Statement of Environmental Effects and companion documents for the proposal and have identified several issues with respect to biodiversity, Aboriginal cultural heritage, estuaries and flooding. These issues are discussed in detail in **Attachment 1** to this letter.

In summary, the OEH recommends that:

- 1. The proposal should be redesigned to avoid any intrusion into land subject to E zones and the prescribed buffer zones in the Development Control Plan for ecologically sensitive values (SEPP 14, E zones, EEC & threatened species habitats).
- Consideration should be given to formal road closure of the road reserve that traverses the West Byron precinct and the land in that road reserve added to the E zone conservation lands.
- 3. The proponent should demonstrate that the proposed offset provided by management of E zoned lands is adequate to compensate for the loss of Swamp Sclerophyll vegetation and threatened species habitat within the development footprint. Proposed offsets should be in accordance with the OEH principles for the use of biodiversity offsets in NSW.

- 4. A suitable management mechanism which is funded 'in perpetuity' should be established for the E zoned lands to ensure that rehabilitation and management is implemented beyond an initial five (5) years. Such a mechanism should be secured before any on-site subdivision works commence.
- 5. The various management plans require a collective review to improve how they work together, to remove conflicting and confusing components, and to address specific details identified in **Attachment 1** to this letter. Ideally an integrated implementation table should be developed and the plans reconciled to reflect required changes to management time frames.
- 6. The registered Aboriginal parties identified in the Aboriginal cultural heritage report should be engaged with as part of the delivery of the relevant cultural heritage site induction program.

If you have any further questions about this issue, Mr Ross Wellington, Senior Conservation Planning Officer, Regional Operations, OEH, can be contacted on 6640 2511 or at ross.wellington@environment.nsw.gov.au.

Yours sincerely

DIMITRI YOUNG

Senior Team Leader Planning, North East Branch

Regional Operations

Contact officer: ROSS WELLINGTON

6640 2511

Enclosure: Attachment 1: Detailed OEH Comments Ewingsdale Road West Byron Residential Subdivision.

Attachment 1: Detailed OEH Comments Ewingsdale Road West Byron Residential Subdivision

Overview

The current proposal is a component of the West Byron urban release area. The subject land is collectively comprised of Lot 1//DP201626, Lot 2//DP542178, Lot 1//DP780242, Lot 2//DP818403, Lot 1//DP520063, and Lot 7020//DP1113431. These six Lots are proposed for subdivision into 378 residential lots, two business lots, two industrial lots, one recreation lot and four residue lots.

This proposal forms a major component of the West Byron Urban release area, the other major component being the Villaworld-Harvest proposal, also on exhibition.

A Voluntary Planning Agreement (VPA) between West Byron landowners and the Minister for Planning and Environment requires the preparation and funded implementation of a vegetation management plan for the West Byron precinct conservation zone lands.

The Byron Bay Development Control Plan (DCP) also prescribes the preparation of other management plans, including comprehensive biodiversity management plans, threatened species management plans and Koala Plans of Management, to accompany development proposals in this area.

The OEH has reviewed the Statement of Environmental Effects the various ecology related management plans, the Aboriginal cultural heritage assessment report and the flood study produced in support of the proposal. The following selective comments and recommendations are provided.

1. Biodiversity Assessment

Avoiding biodiversity impacts

Plans for the proposal show that the footprint appears to intersect with E zoned land as well as the DCP prescribed buffers to E2, E3 and SEPP 14 wetlands at several locations (see Biodiversity Conservation Management Plan p.32). The applicant should demonstrate how Section E8.10.5.1 Objective 4 of the Byron DCP has been incorporated in the proposal. OEH considers Endangered Ecological Community (EEC) vegetation, SEPP 14 Wetland and threatened species habitats as constituting ecologically sensitive values. Intrusions of the proposal into E zoned land is not supported by the OEH and should be avoided. Buffers are intended to protect the intent of E zones and other sensitive ecological values and therefore the buffer intrusions proposed should be reconsidered.

The Byron DCP 2014 Chapter E8 stipulates objectives, performance criteria and prescriptive measures to be achieved as part of any development in the West Byron precinct. The DCP also further prescribes the content of various required management plans. The DCP emphasises enhancement to connectivity values, the application of environmental protection zone buffers and improved habitat values for Koala, among its key objectives for biodiversity in the West Byron precinct. The largely vegetated north-south road reserve that traverses the West Byron precinct provides important connectivity value and should be secured. Consideration should be given to formal closure of the road reserve and the land added to the E2 zone in addition to the proposed rehabilitation of the Belongil Creek riparian zone corridor.

Securing biodiversity offsets

The key issues for OEH are that biodiversity values are avoided or where unavoidably impacted that they are adequately offset and that the offset areas are managed in perpetuity through an adequate and funded mechanism.

The current footprint of the development proposal will require the clearance of at least 4.87 Ha of native vegetation along with identified habitat values for several threatened species. This loss is proposed to be offset by 24.14 Ha of environmental protection zone land proposed for rehabilitation, habitat enhancement and management. However, whilst the proposed offset area ratio might appear adequate, this assumption is predicated on the satisfactory rehabilitation of the E zoned lands and their management in perpetuity. Permanent management has been identified and conceded as being necessary for all the E zoned lands if biodiversity losses are to be adequately offset, particularly the loss of EEC vegetation and threatened species habitats due to the development.

OEH considers that a biodiversity stewardship agreement would likely be the best way to achieve an in-perpetuity conservation outcome across at least the E2 zoned lands, although it may also be possible to incorporate E3 zoned lands in such an agreement. Alternatively, the E zoned lands might be ceded to the council, if it is agreeable, with some other ongoing funding mechanism applied. The retention of the E zoned lands across various current land owners is not considered a suitable mechanism that would guarantee biodiversity conservation offset outcomes. Community title arrangements would likely create ongoing compliance issues and uncertainty for conservation outcomes. This issue of ongoing management and ownership needs to be clarified.

Currently, only five (5) years of rehabilitation and management is proposed as part of the development after which this responsibility is 'envisaged' as being undertaken by community volunteers and without further guaranteed funding. The OEH considers this to be an unsatisfactory arrangement as it would not provide the fundamental need for in-perpetuity management that is necessary to secure the offsets. This proposal is not in keeping with Clause 3 (b) iv) of the Voluntary Planning Agreement (VPA) with the Minister for Planning.

Ideally, the rehabilitation areas should have a performance based undefined period of rehabilitation with an aim of achieving a self-maintaining vegetation community that requires minimal ongoing management. This is particularly relevant if the lands are proposed to be ceded to the council to reduce any possible ongoing management costs to the council.

Vegetation mapping

The OEH considers that much of the on-site native vegetation conforms with Swamp Sclerophyll Forest, an EEC, some of which has been incorrectly assigned within the Flora and Fauna assessment report. All the Plant Community Type (PCT) assignations in Table 5.2 pp 21-23, and mapped (poorly) in Figure 5.1 p.25, are non-existent in the NSW OEH Vegetation Information System (VIS) database. Information provided elsewhere within the report and by the Byron LGA vegetation mapping, indicates that much of the remaining native vegetation is Swamp Sclerophyll Forest. Updated vegetation mapping with recognised PCT assignations should be provided for the site.

A large part of the E zoned land requires substantial rehabilitation and management. The updated mapping should also provide an indication of what PCT's will be established within the E zones. This will provide a clearer analysis of the suitability of this area as an offset for the proposed biodiversity impacts of the development.

DCP required management plans

Several DCP required management plan documents have been prepared for the proposal and include a: Vegetation Management Plan, Biodiversity Conservation Management Plan, Threatened Species Management Plan and a Koala Plan of Management. The scope and purpose of these differing plans is confusing and in fact a brief review shows that they are sometimes duplicative and compromise or contradict one another in places.

These management planning documents need revision particularly as they relate to staging and so that they better relate to one another and can be reconciled against a need for in-perpetuity management. An overarching implementation table detailing all works specified from the various management plans should be developed and should include timeframe, a performance indicator and the responsible party identified. Similarly, the various plans need to be adaptive but a workable mechanism or trigger for review and modification needs to be provided. The SEE at times uses different names for these sub plans interchangeably which adds to the confusion.

Some further comments on selective aspects of sub plans are provided below.

Threatened Species Management Plan

If rehabilitation or habitat enhancement initiatives for threatened frog species are undertaken
then the placement of ground covers is suggested as an additional component to improve
effectiveness.

clarify this issue and the proposal be conditioned accordingly.

- The term 'translocation' is used in relation to the proposed capture and assisted movement of frogs from the proposed development footprint areas of the site to constructed and rehabilitated habitat areas within the E zoned land. An issue with this proposed mitigation/compensatory measure is the terminology used. Translocation is defined as being for the (a) introduction of a species into an area where it has not previously been found; (b) re-introduction of a species into an area where it used to live but has become locally extinct or (c) supplementing an existing population, by adding new individuals of that species from another area. Such initiatives are regulated by the OEH (including the requirement of a biodiversity conservation licence) and are generally undertaken in relation to specific threatened species conservation and recovery actions and not as part of a development proposal. The currently proposed measures do not fit this definition and hence should instead be referred to as a 'within site' relocation which is restricting the movement of any individuals to only short distances of displacement. This is specifically within the subject land and undertaken to move individuals out of the way of direct harm or from a proposed impact zone to a rehabilitation zone. Such facilitated movement is generally over no greater distance than that likely undertaken during natural migration of the relevant species. (see Policy for the translocation of threatened fauna in NSW http://www.environment.nsw.gov.au/resources/nature/policyFaunaTranslocation.pdf). Such actions would need to be undertaken by a suitably experienced and licensed individual and with a strategy in place in accord with the hygiene protocol for control of disease in frogs -
- Wallum frogs have been recorded from several locations across the subject land, including parts of the proposed development footprint area. The species is known to inhabit shallow inundated areas but the species will also utilise less easily identified and mapped habitat for foraging and over-wintering. The TSMP does not identify how direct impact to individual threatened frogs generally might be avoided prior to and during development. Consequently, consideration should be given to providing guidance as to how this might be achieved prior to construction. Similarly, staging is also important and hence the replacement habitat within the E2 zoned areas needs to be undertaken and established prior to development and the need for relocating frogs. This initiative may also require the placement of materials for frog shelter around any created or augmented habitat, at least as an interim measure, and whilst rehabilitated habitat becomes established.

http://www.environment.nsw.gov.au/research-and-publications/publications-search/hygiene-protocol-for-the-control-of-disease-in-frogs. It is recommended that the TSMP be amended to

• The timing and actual implementation of any threatened species mitigation measures is fundamental to success of these activities. Whilst these initiatives may be a condition of approval the fact that the subject land is across several land ownerships means that ensuring a strategy of identifying responsibility/liability is necessary. A single plan implemented across fragmented ownership will require a workable arrangement to ensure that the various components are all funded, carried out, monitored and reported on as required across the whole site.

Koala Plan of Management

- The KPoM needs to be more consistent in providing its stated objectives and outcomes. It
 should also be consistent with timeframes or staging of the development process. The Plan
 states that the conservation/rehabilitation areas need to be established first and be fenced off.
 It also states that the management of the areas needs to be in perpetuity. However, these
 objectives are contradicted throughout the report. OEH considers that management of the
 rehabilitated E Zoned lands needs to be in perpetuity.
- Section 4.7.1 Koala Monitoring should include a sighting reporting strategy with email, phone and/or website for reporting sightings. This could be facilitated via signage at strategic locations throughout the development where it adjoins the E zone land.
- Education and Community Awareness is an important aspect of Koala conservation in and around urban areas. The KPoM has not adequately addressed how this important component of Koala conservation will be locally fostered.

Vegetation Management Plan

The VMP needs to clearly identify the lands to which it applies and be revised to better link
with other management plans that depend on it. The VMP should also reflect any
recommended changes to subsidiary plans. The VMP must provide a mechanism or a
feasible methodology that ensures environmental management works are undertaken in
perpetuity.

Biodiversity Conservation Management Plan (BCMP)

Sections 6.3 of the BCMP suggests that long term management of E zoned lands post fice years of restoration will be undertaken by community volunteers. This is not a viable scenario and does not provide the secure in perpetuity management required for all the E zone lands to offset the development and meet the requirements of the VPA with the Minister Environment and Planning.

OEH Recommendations

- i. Intrusion by the proposal into DCP prescribed buffer zones for ecologically sensitive values (SEPP 14. E zones, EEC & threatened species habitats), should be reconsidered.
- ii. Consideration should be given to formal road closure of the road reserve that traverses the west Byron precinct and the land added to the E zone conservation lands.
- iii. The proponent should demonstrate that the proposed offset provided by E zoned lands is adequate to compensate the loss of Swamp Sclerophyll Forest EEC vegetation and threatened species habitat within the development footprint.
- iv. The proponent should further demonstrate how a suitable 'in perpetuity' funded management implementation mechanism has been established for all the E zoned lands and in accordance with Section 3 b) (iv) of the VPA. This is essential to ensure that rehabilitation and management is implemented beyond an initial five (5) years and should be secured before any on-site subdivision works commence.
- v. The various management plans require a collective review to improve how they work together and to remove conflicting and confusing components and consistent staging advice. Ideally an integrated implementation table should be developed and the plans reconciled to reflect required changes to management time frames.

2. Aboriginal Cultural Heritage

An important component of the environmental assessment process undertaken in support of development proposals is the consideration of Aboriginal cultural heritage values. The importance of protecting Aboriginal cultural heritage is reflected in the provisions of the *National Parks and Wildlife Act 1974* (NPW Act).

The NPW Act clearly establishes that Aboriginal objects and places are protected and may not be damaged, defaced or disturbed without appropriate authorisation. Importantly, approvals under Part 4 of the *Environmental Planning and Assessment Act 1979* (EP&A Act) do not absolve the proponent of their obligations under the NPW Act. In addition, section 79C of the EP&A Act provides for the assessment of intangible Aboriginal cultural heritage.

As part of any development proposal, it is critical that tangible and intangible Aboriginal cultural heritage is appropriately assessed and considered. The OEH's preference is to avoid impacting Aboriginal cultural heritage values as a component of any proposal and to ensure the proper care, conservation and preservation of those values.

Accordingly, the OEH has reviewed the *West Byron Urban Release Area Development Application Cultural Heritage Assessment* (September 2017) prepared by Adise Pty Ltd and supports the detailed management recommendations relating to Aboriginal cultural heritage documented on page 21 – (page 23 of the report).

The OEH encourages the proponent to consider the inclusion of representatives of the registered Aboriginal parties, referred to in the report, in the development and delivery of any Aboriginal cultural

heritage component of the proposed site induction program. This would be of particular benefit for those areas around the known Aboriginal site and within the area of the mapped paleo sand ridge. Any proposed ecological rehabilitation works within the Environmental Protection zones must also consider potential impact to cultural heritage values.

Providing these management recommendations are implemented, the OEH has no further concerns relating to Aboriginal cultural heritage.

OEH Recommendation

vi. That the registered Aboriginal parties identified in the ACH report are engaged with as part of the delivery of the relevant cultural heritage site induction program.

3. Flooding

The flood impact assessment by BMT-WBM in October 2017 indicates that the cumulative fill development for the West Byron Urban Release Area and the Byron Business Park do not adversely impact on the surrounding floodplain. OEH have no further comments to offer or issues regarding flooding.



Our Ref: C17/553

7 February 2018

The General Manager
Byron Shire Council
PO Box 219
MULLUMBIMBY NSW 2482

Via email: council@byron.nsw.gov.au

Attention: Mr Luke Munro

Dear Mr Munro

Re: Development Application – 10.2017.661.1 — Subdivision of six Lots into 387 Lots consisting of 378 Residential Lots, two Business Lots, One Recreation Lot and four Residue Lots, Lots 1 DP 201626, 2 DP 542178, 1 DP 780242,2 DP 818403, 1 DP 520063, and 7020 DP 1113431, 364, 394 and 412 Ewingsdale Road and Malalueca Drive, Byron Bay, Byron LGA

Thank you for your referral letter of 5 December 2017 providing the opportunity for DPI Fisheries, a division within the Department of Primary Industries, to provide advice regarding the subject development application. The following comments are provided with reference to the *Marine Estate Management Act 2014* (MEM Act) and the *Fisheries Management Act 1994* (FM Act), both of which are administered by DPI Fisheries. We apologise with the delay of this response.

Marine Estate Management Act 2014

In accordance with section 56 of the MEM Act, before determining a development application under Part 4 of the *Environmental Planning and Assessment Act 1979* for the carrying out of development that is in the locality of a marine park, a consent authority must take into consideration the objects of the MEM Act, and any advice given to it by the relevant Ministers. The development site is adjacent to Belongil Creek which is a Special Purpose Zone within the Cape Byron Marine Park (CBMP). Furthermore, it is noted that the assessment reports for the subject proposal indicate that the southern union drain is tidal to the west of the West Byron Urban Release Area. Though the drain is not considered part of the Cape Byron Marine Park or a key fish habitat, the hydrological connectivity highlights that actions undertaken at the site can directly impact on the Belongil Creek estuary including the special purpose zone.

In considering the objects of the MEM Act, Council must consider the waters of the marine park when identifying potential impacts associated with the proposed development, including but not limited to, stormwater and nutrient inputs resulting from runoff from the development as well as additional treated sewage going into the creek, building debris, silt run off, plastic litter, and contaminated or potential acid sulphate soils.



Consequently, it is essential that adequate (at least 50m) buffers of natural vegetation are maintained (and planted in areas where a 50m buffer of vegetation does not currently exist) between the development and the marine park, and that the works and final development do not have any adverse or ongoing impact on those waters, particularly from stormwater runoff or other pollutants. It is considered that consent should be contingent on the revegetation of buffer zones and the establishment of robust fencing before other aspects of the development proceed. The natural values of this area warrant that this aspect be quided by a suitably qualified ecologist.

In addition, the development must not result in any impacts to Belongil Creek Special Purpose Zone – further degradation of this waterway would contravene the MEM Act. It is appropriate that the proponent (or Council) demonstrates, at an early stage, effective plans and actions to manage the amount of nutrients and other pollutants entering the system, particularly through the management of catchment, stormwater and other inputs such as the additional treated sewage going into the creek from the development.

It would be a matter of serious concern if Belongil Creek and its management are compromised by the development or any subsequent effects, such as an increased demand or expectation for the artificial opening of this Intermittently Closed and Open Lake or Lagoon (ICOLL). Consequently, this development proposal should be able to demonstrate that it will not result in changes to stormwater input, hydrology or flood regimes that are likely to affect the level of the Belongil Creek ICOLL and therefore trigger more frequent artificial opening events. In accordance with government and departmental policy, it is recommended that modifications to the Belongil Creek ICOLL are kept to a minimum and that a detailed entrance opening strategy is developed to maintain the ICOLL in a state as close to natural as possible.

The current New South Wales Marine Estate Threat and Risk Assessment Draft Report (Nov 2016) identifies estuary entrance modification and urban stormwater discharge as the top two priority threats to the environmental assets of the Marine Estate (Table ES 1-2). This proposed development potentially concerns the two highest priority risks identified in that Report.

The artificial opening of the Belongil Creek ICOLL requires permission from DPI-Fisheries (Marine Parks) and would be best managed through an Estuary Management Plan and Opening Strategy for Belongil Creek prepared prior to the commencement of consented development.

It is expected that the management of any potential impacts, particularly stormwater runoff during and post construction, is in accordance with requirements of State Environmental Planning Policies. In addition, all works must be undertaken in accordance with or exceeding the recommendation of "Managing Urban Stormwater - Soils and Construction Vol 14th Edition March 2004" Published by the NSW Government ("the Blue Book") http://www.environment.nsw.gov.au/stormwater/publications.htm. It is also recommended that any consent issued for this proposal includes a condition requiring a comprehensive ongoing monitoring regime to measure and report on the water quality of Belongil Creek. In addition, a proportion of developer contributions should be allocated towards an ongoing stormwater education program for new residents in the West Byron development area.



In order to mitigate any impacts on the water quality of Belongil Creek, it is essential that riparian vegetation should remain undisturbed. Consequently, it is expected that initiatives to control weeds, protect existing habitat and rehabilitate riparian areas with appropriate native species would be required in any consent.

In addition, extractive uses (e.g. fishing/crabbing) and otherwise interfering with the natural resources of Belongil Creek Special Purpose Zone are generally prohibited so it is essential that the development does not result in unrestricted access and inappropriate use of the creek. Planting native vegetation and adequate fencing is required to achieve this outcome. A proportion of developer contributions should be allocated to the manufacturing and installation of appropriate signage.

The prohibition of dogs and other domestic animals in the development is supported. The Belongil Creek ICOLL currently supports a range of protected wildlife, including endangered resident and migratory shore birds protected under the *Threatened Species Conservation Act 1995* and various international agreements that are at risk from dogs being taken there unlawfully. Any increase in the number of dogs residing in a nearby area would almost certainly add to this significant issue. A proportion of the developer contribution should be allocated to the ongoing enforcement of the domestic animal prohibition.

In conclusion, the proposed development is only supported provided that it does not result in any adverse impacts on the Belongil Creek Special Purpose Zone – further degradation of this waterway would be inconsistent with the objects of the MEM Act and the Marine Park Zone.

Fisheries Management Act 1994

DPI Fisheries assesses proposals under the FM Act. In administering this legislation, DPI Fisheries is responsible for ensuring that fish stocks and key fish habitats are conserved and ensuring the sustainable management of commercial, quality recreational fishing and viable aquaculture within NSW. The Department assesses proposals according to DPI Fisheries' *Policy and Guidelines for Fish Habitat Conservation and Management 2013 Update* (P&G). Where a proposal is to be undertaken consistent with DPI Fisheries P&G, the Department may authorise or prepare General Terms of Approval for dredging and reclamation works, harm marine vegetation or the obstruction of fish passage.

DPI Fisheries acknowledge the subject proposal does not trigger an integrated referral under the FM Act. However, DPI Fisheries has chosen to provide comment on this proposal due to the importance of the fish habitat immediately adjacent to the subject site, including Belongil Creek, and because of previous involvement and assessment of the subject area.

Buffers to SEPP 14 Coastal Wetlands and other Key Fish Habitat

The subject site includes areas of mapped State Environmental Planning Policy (SEPP) 14 Coastal Wetland. It is noted that the proposal includes a light industrial lot (proposed Lot 401) at the south-western corner of the development which would be in close proximity and provide minimal buffering to the SEPP 14 Coastal Wetland. DPI Fisheries' P&G categorises SEPP14 Coastal Wetlands as Highly Sensitive Key Fish Habitat. The provision and appropriate management of buffers to these sensitive wetlands is important to minimise the potential construction and operational impacts of adjacent developments on these sensitive key fish habitats.



Within the P&G, Policy section 3.2.3.2 (4) states:

NSW DPI will generally not approve developments or activities that do not incorporate foreshore buffer zones of 50 – 100m width adjacent to TYPE 1 marine vegetation and at least 50m width adjacent to TYPE 2 marine vegetation. Where a buffer zone of at least 50m is physically unachievable due to land availability constraints, the available buffer width must be maximised to achieve protection of TYPE 1 and 2 marine vegetation (i.e. from edge effects, changes to water quality, flood protection and to allow for climate change adaption). The buffer zone should not be used for other asset protection purposes (e.g. as a bushfire or mosquito buffer).

Guideline section 3.2.3.2 (b) is also relevant, and states:

Buffer zones should be clearly delineated (e.g. fences or other markers) and well managed to avoid degradation (e.g. weed and stock access management). They should also not be subject to under scrubbing (e.g. for mosquito control) or other clearing activities that will reduce their value as a buffer zone.

DPI Fisheries recommends that an adequate buffer of at least 100m be provided to Highly Sensitive Key Fish Habitats, including SEPP 14 Coastal Wetlands, and that other Key Fish Habitats on or adjacent to the site are afforded appropriate buffers consistent with DPI Fisheries P&G. In addition, the management of buffers to SEPP 14 Coastal Wetlands should be planned for in a manner consistent with DPI Fisheries P&G.

Stormwater Management and Water Sensitive Urban Design (WSUB)

DPI Fisheries supports the objective of the Stormwater Management Strategy including the plan for WSUD to be implemented in order to maintain and/or improve water quality and hydrological regimes. Consistent with DPI Fisheries P&G, to ensure adequate buffers to aquatic habitats, such as SEPP 14 Coastal Wetlands, stormwater treatment areas should be located outside of these buffer zones. Equally, DPI Fisheries stresses the need to ensure that stormwater treatment infrastructure is sited and positioned at elevations sufficient to accommodate (with adequate freeboard tolerance) the current agreed opening level of the entrance of Belongil Creek which is 1.1m AHD. DPI Fisheries also stress that the development should incorporate sufficient detention capacity to ensure there are no changes to stormwater input, hydrology or flood regimes within Belongil Creek, and that the development will not affect the water level of the Belongil Creek ICOLL which would lead to an increase in the frequency of artificial opening events.



If you have any queries regarding comments made with reference to the *Marine Estate Management Act 2014*, please contact David Maguire, Ranger (Marine), Cape Byron Marine Park on 6620 9322 or david.maguire@dpi.nsw.gov.au. If you have any queries regarding comments made with reference to the *Fisheries Management Act 1994*, please contact Jonathan Yantsch, Fisheries Manager, Aquatic Ecosystems (North Coast) on 0447 537 168.

Yours sincerely

Jonathan Yantsch

Fisheries Manager, Aquatic Ecosystems (North Coast)

Authorised delegate of the Minister for Primary Industries

Andrew Page

Manager

Cape Byron Marine Park

andrew Page

Delegate of the Department of Primary Industries - Marine Parks



Our Ref: 18/00086

19 February 2018

BYRON SHIRE COUNCIL DOC NO: REC'D: 2 3 FEB 2018 FILE NO:..... ASSIGNEE: A. WILSO

The General Manager Byron Shire Council PO Box 219 MULLUMBIMBY NSW 2482

Dear Sir

DA 2017/661 – part West Byron Urban subdivision – Site R & D Re:

I refer to your notification of 5 December 2017 relating to the above development application.

As advised in our letter of 7 February 2018, the Minister for Lands has granted landowner's consent (LOC) to Site R & D Pty Ltd for lodgement of the DA with respect to the Crown Public Road separating Lot 1 DP 201626 & Lot 2 DP 542178 from Lot 1 DP 780242. LOC was given without prejudice so that assessment of the proposed development may proceed.

Notwithstanding the above, the Department of Industry - Lands & Water will require that any section/s of Crown public road required to be constructed as part of the approved development be transferred to the control of Byron Shire Council in accordance with Section 151 – Road Act 1993 prior to the commencement of works.

Please also note the development envelope also includes Lot 7020 DP 1113431 comprising an un-notified Drainage Reserve 150 links wide (the Union Drain) within Lots 1 & 2 DP 542178. As previously advised, the department is of the view of that the land was vested in the local government authority (Byron Shire Council) on commencement of the former Local Government Act 1919.

If you require any further clarification or assistance with this matter please contact me by email peter.baumann@crownland.nsw.gov.au or phone on (02) 6642 9201.

Yours sincerely

Peter Baumann

P. Ban

Natural Resource Management Project Officer

Department of Industry - Crown Lands, Grafton



Your Ref: Our Ref:

IDAS1103900

Contact: Telephone: J Findlay 0266 416500 BYRON SHIRE COUNCIL
DOC NO:

REC'D: 1 6 JAN 2018

FILE NO: A 3568

ASSIGNEE: A MANGE

The General Manager Byron Shire Council P O Box 219 Mullumbimby NSW 2482

8th January 2018

Attention: Luke Munro

Dear Sir,

Reference: Development Application 10.2017.661.1 – Site R & D Pty Ltd – Proposed Staged Residential Lot Development – Ewingsdale Road Byron Bay.

I refer to your recent letter regarding Development Application (DA) proposed for the subject property.

The properties at this location are within the Tweed – Brunswick Coastal Sands Aquifer within the Water Sharing Plan for the North Coast Coastal Sands Groundwater Sources. As the proposed development requires excavation for the construction of pipelines and other infrastructure there is a high likelihood that dewatering groundwater will be required.

At this location, dewatering of groundwater less than 3 megalitres or for less than 12 months would not require a licence or approval under the *Water Management Act 2000*.

Dewatering greater that 3 megalitres or for more than 12 months would require a water supply work approval and a water access licence under the *Water Management Act 2000*. The water access licence would need to be purchased through either a controlled allocation order, if an order is operating, or on the open market in accordance with the rules of the relevant Water Sharing Plan.

It is the consent holder's responsibility to assess and monitor water take and determine whether a licence or approval is required.

The consent holder should note the condition relating to the need for a WaterNSW approved DeWatering Management Plan and be aware that the current Acid Sulphate Soils Management Plan would require amendment to provide for more adequate pH testing and correction of all water prior to discharge. WaterNSW recommends the plan be altered to include either an online pH monitoring and dosing system, or storage of the full capacity of the daily discharge for testing prior to discharge. The consent holder should also note that WaterNSW will include a condition identifying discharge water quality criteria to be between 7 and 8.5 ph consistent with the EPA Brunswick River Water Quality Objectives.

The consent holder has not identified that post construction dewatering is required and therefore an extended approval should not be necessary.

Finalisation of any licence or approval can take up to eight (8) weeks from the date WaterNSW receives all documentation (to its satisfaction). Applicants must complete and submit (to the undersigned) an application form for a licence or approval together with any required plans, documents, the appropriate fee and security deposit or bank guarantee (if required by the WaterNSW) and proof of Council's development consent.

Application forms for a licence or approval are available from the undersigned or from WaterNSW website:

www.waternsw.com.au

Water licensing > Approvals >

If you require further information please contact John Findlay on 02 6641 6500 or by email at john.findlay@waternsw.com.au

Yours sincerely

Senior Water Regulation Officer

North Coast



TWEED BYRON LOCAL ABORIGINAL LAND COUNCIL

Your Reference: 21700D x 10.2017.661.1 /#A2017/31101

9 January 2018

General Manager Byron Shire Council PO Box 219 Mullumbimby NSW 2482

Attention: Luke Munro

Re Referral for Consideration and Advice: DA No. 102017.661.1 (West Byron Urban Release Area)

Dear Luke

Thank you for contacting the Tweed Byron Local Aboriginal Land Council (TBLALC) and requesting our feedback response to the proposed West Byron Urban Release Area – DA No. 10.2017.6661.1. We note that the proposal is substantial and includes 387 Residential Lots, 2 Business Lots, 2 Industrial Lots, 1 Recreation Lot and 4 Residue Lots.

The TBLALC has reviewed the relevant sections of the DA, including the Cultural Heritage Assessment (CHA) prepared by J.P. Collins Consultant Archaeologist of Adise Pty Ltd and dated September 2017. As a Registered Aboriginal Party the TBLALC provided both consultation advice and a written response to the draft CHA in August 2017. A copy of our comments are appended to the CHA report and have been addressed by the consultant prior to finalisation.

The TBLALC considers that matters of cultural heritage have been adequately addressed and the CHA report has been prepared in accordance with current NSW legislative requirements. The TBLALC supports the eight (8) recommendations for management as provided in Section 9 of the CHA report.

Please contact us should clarification or further comment be required.

Yours sincerely,

lan Fox

Conservation Planning Officer

Environmental Referral and Assessment Sheet

ADMIN - ONLY PRINT FIRST PAGE FOR REFERRAL

10.2017.661.1

Proposal:	Subdivision of Six	6) Lots ir	nto Three Hundre	ed and Eighty Seven (387)
_	Lots consisting of Three Hundred and Seventy Eight (378) Residential			
	Lots, Two (2) Business Lots, Two (2) Industrial Lots, One (1) Recreation			
	Lot and Four (4) Residue Lots			
	LOT: 1 DP: 201626, LOT: 2 DP: 542178, LOT: 1 DP: 780242, LOT: 2			
	DP: 818403, LOT: 1 DP: 520063, LOT: 7020 DP: 1113431			
Property description:				dale Road BYRON BAY,
				uca Drive BYRON BAY, 364
	Ewingsdale Road B			
Parcel No/s:	21700, 151400, 21	720, 152 !	550, 114340, 24	1870
Applicant:	Site R & D Pty Ltd			
Owner:	Telicove Pty Ltd			
Zoning:	Zone No. DM Defe	rred Matt	er	
Planning Officer:	Mr L J Munro			
Referral Date:	5 December 2017			
Concurrent Section 68 (Ons	site): Not applicable	}		
A copy of all supporting mate	rial & GIS locality ma	ap is attac	ched.	
Date Received by Specialist Team				
zato necestra a y operaner i			it bue bute.	I dii Assessinent. Due Date
			it bue bute.	Tuli Assessment. Due Date
			n buc butc.	Tuli Assessment. Due Date
			it but bute.	Tuli Assessment. Due Date
Environmental Health Officer:			it bue bute.	Tuli Assessment. Due Date
Environmental Health Officer:			it bue bute.	Tuli Assessment. Due Date
			it due dute.	Tuli Assessment. Due Date
Environmental Health Officer:	: Mr T J Fitzr			nformation required
Environmental Health Officer: Initial Assessment	: Mr T J Fitzr			
Environmental Health Officer: Initial Assessment Additional Information recognition	: Mr T J Fitzr			
Environmental Health Officer: Initial Assessment Additional Information re Comment:	: Mr T J Fitzr equired			nformation required
Environmental Health Officer: Initial Assessment Additional Information re Comment: Doc Number: Click here to er	: Mr T J Fitzr equired			nformation required Date Click here to enter a
Environmental Health Officer: Initial Assessment Additional Information re Comment: Doc Number: Click here to entext.	: Mr T J Fitzr equired			nformation required
Environmental Health Officer: Initial Assessment Additional Information recomment: Doc Number: Click here to entext. Full Assessment	: Mr T J Fitzr		No additional i	nformation required Date Click here to enter a date.
Environmental Health Officer: Initial Assessment Additional Information re Comment: Doc Number: Click here to entext.	: Mr T J Fitzr		No additional i	nformation required Date Click here to enter a
Environmental Health Officer: Initial Assessment Additional Information recomment: Doc Number: Click here to entext. Full Assessment	: Mr T J Fitzr		No additional i	nformation required Date Click here to enter a date.
Environmental Health Officer: Initial Assessment Additional Information recomment: Doc Number: Click here to entext. Full Assessment Additional Information recommends	: Mr T J Fitzr		No additional i	nformation required Date Click here to enter a date.
Environmental Health Officer: Initial Assessment Additional Information recomment: Doc Number: Click here to entext. Full Assessment Additional Information recomment:	: Mr T J Fitzr equired nter Officer:	oy	No additional i	nformation required Date Click here to enter a date.
Environmental Health Officer: Initial Assessment Additional Information recomment: Doc Number: Click here to entext. Full Assessment Additional Information recommends	: Mr T J Fitzr equired nter Officer:	oy	No additional i	nformation required Date Click here to enter a date.

DA No.

ASSESSMENT

	Satisfactory	Unsatisfactory	Not applicable
Acid Sulfate Soils (Cl 6.1 BLEP 2014)			

Comment: The majority of the subject site is mapped as low risk (Class 3), with the occurrence of PASS/ASS within 1 metre of the ground surface. To the east and southwest of the site adjoining Belongil Creek ASS risk increases to High (Class 2).

A preliminary assessment was undertaken by EAL Consulting Services in 2010. Subsequently in 2015 Australian Wetland Consulting (AWC) undertook a Detailed Acid Sulfate Soil Investigation. The detailed investigation included sampling and laboratory analysis of 40 soil in bores across the site and found that whilst there are Potential Acid Sulfate Soil conditions on the site they are not widely distributed and are generally at depth.

The location of ASS is mostly restricted to the periphery of the site on land largely outside of the development area and within the sites designated environmental protection zones.

The major risk associated with the disturbance of site soils relate to the installation of:

- Services (water, sewer, electricity); and
- The construction of sewerage drainage networks and stormwater infrastructure

The subject site adjoins the Belongil Creek and estuary. Any unmitigated disturbance of acid sulfate soils has the potential to impact on this waterway.

A large constructed drain occurs within the central and eastern portions of the (the main drain) and intersects another substantial constructed drain in the east and south (the union drain), both of these drain into the Belongil Creek.

Geotech investigations by Shaw (2015) show the topsoil to be high in organic matter, tending towards peat while subsoils vary across the site with many areas having been filled.

Fills range in thickness from 0.1 to 1.5m and is predominately sand and silty sand. Beneath the fill, alluvial sands and silty sands are present to varying degrees of induration.

During all previous investigations groundwater was elevated ranging from 0.05m to 1.3m below ground surface. The mean depth to water table was 0.48m. Both the preliminary ASS Investigation (EAL , 2010), the AWC Report (2015) and Shaw (2015) consistently encountered groundwater within 1m of the ground surface.

Soil sampling indicated that there appears to be two potential layers of PASS across the site:

- At around 1.1 1.5m deep, corresponding to 2.0-2.3 m AHD;
- At around 2.0 2.5m deep, corresponding to 1.3-1.8 m AHD

Net acidity in the soils sampled ranged between 19 and 44 mole H+ /tonne of soil (neutralising rate of 1.4 and 3.0 kg CaCo3/tonne dry weight respectively).

Of the sampling bores located in the developable area 2 boreholes showed the presence of PASS materials.

Construction and operational activities associated with the development that may impact on PASS/ASS include:

- Localised cutting of high land;
- Wide spread filling of the low land;

- Excavation of trench of installation of service (water, sewer, drainage, power),
- Wide spread paving of land, preventing infiltration of rain water into the shallow groundwater

The fill depth ranges from between 0.0m to >2.5m with the majority of the site filled to a depth of 0.5-1m above the current level. There are 2 locations where there will be cut between 0 and 1.0m depth. In the cut area soil bores were excavate to 3.0m depth equalling the Class 3 ASS Risk Map requirements.

The ASSMP (Project # 1-17819, AWC, 19 September 2017) includes management methods for:

- 1. Exposure of PASS during bulk earthworks;
- 2. Exposure of PASS during construction activities associates with drainage for the spine roads; and
- 3. Oxidation of PASS fro the lowering of the water table

The approximate level of PASS extends from 1.52 to 2.74m AHD.

The ASSMP states that any works that occur below 2.8m AHD will invoke soil stockpiling and treatment in an ASS Containment Area in accordance with Dear et al. (2002) and detailed within a future Construction Environmental Management Plan (CEMP).

Any material excavated from below 2.8m AHD will be assumed to be PASS, unless tested to prove otherwise. This material must be neutralised using a minimum rate of 3.3 kg Ca CO3/tonne material dry weight.

Details on containment area size, catch pond size, location and specific treatment methods are to be provided in a CEMP. All excavated soil material from below 2.8mAHD must be transported to the containment area within 1 day of excavation to prevent the release of acid waters to the environment.

Verification of the successful treatment of PASS is required prior to reuse. The pH, Cl/SO4 ratio, total iron, aluminium and salinity levels of any leachate produced from the bunded areas should be measured prior to discharge.

The ASSMP states:

- that there is a moderate risk of oxidisation of pyrite due to lowering of groundwater from the broad scale pavement of soil and the resultant conveyance of rainwater normally infiltrating the soil profile to a receiving water course.
- The broad scale infiltration of rainwater post development can be achieved via the use of bioretention swales, basins and dedicated dispersion areas.
- The stormwater management strategy adopted for the development will ensure the maintenance of water tables that saturate the ASS layer found at the site
- A minimum area of 200m2 of infiltration/dispersion zones is required per ha of development to ensure the wide spread infiltration of rainwater and maintenance of groundwater levels

There is a discrepancy between infiltration rates required as noted below

The applicant is to provide details of the hydrogeological assessment that supports the view that:

• A minimum area of 200m2 of infiltration/dispersion zones is required per ha of development to ensure the wide spread infiltration of rainwater and maintenance of groundwater levels

While the Stormwater Management Strategy states that:

An area of 258m2 of infiltration / dispersion zones is needed per ha of development.

Acid Sulfate Soil Assessment (ASSA)

The Acid Sulfate Soil Assessment for the Draft West Byron Urban Release Area (Project 1-14541_C, AWC, September 2015) assesses the potential impact of planned bulk earthworks and spine road development. Additional ASS assessment will be required for subsequent development over the site.

A discrepancy exists as follows:

1. A sampling density of 1 bore per 1.5ha was adopted for assessment of PASS and AASS. The ASSMAC Guidelines stipulate a minimum of 2 bores per ha for this scale of development. AWC has justified the reduced density based on the relatively uniform site and planned lack of significant excavation and that PASS and ASS will be further investigated in detail upon the submission of individual lot/s development applications.

The Stormwater Management Strategy (Project # 1-17818-01c, AWC, August 2017) states that

During all previous site investigations, the high groundwater table on the site has been evident. The most recent Acid Sulphate Soils Assessment included sampling at a total of 40 bore locations. During those investigations groundwater varied from a minimum depth of 0.05m and a maximum depth of 1.3m below ground surface. The mean depth to water table was 0.48m.

Key recommendations of Acid Sulfate Soil Investigation

- 1. Implement a groundwater monitoring regime to assess the current quality of the groundwater and level of water table variation:
- 2. Prepare a Construction Environmental Management Plan that:
- Details the specific details in handling, storage, treating and disposing of PASS/ASS
- Based on recommendation 1, provides a framework for a groundwater quality monitoring regime that assesses likely impacts to groundwater (quality and height)

Groundwater

Groundwater levels are not to be significantly altered by stormwater works in areas of actual or potential acid sulphate soils or such impacts are appropriately managed

Under E8.10.8.3 Groundwater - Stormwater detention devices and bio-retention devices are to have a base excavation 1m above the water table, **or use impermeable liners**. The STMP relies on the use of permeable bases to all basins - demonstrate the proposed stormwater detention and infiltration devices will not have an impact on the level of the water table.

Performance Criteria

1. Groundwater to be managed in accordance with best practice guidelines including the Acid Sulfate Soils Manual.

<u>Please find below list of items that have not been provided, or not satisfactorily provided in regard to the application, which prohibits conditions being proposed as part of an approval determination.</u>

Under E8.10.8.3 Groundwater - Stormwater detention devices and bio-retention devices are to have a base excavation 1m above the water table, **or use impermeable liners**. The STMP relies on the use of permeable bases to all basins - demonstrate the proposed stormwater detention and infiltration devices will not have an impact on the level of the water table.

There is a discrepancy between infiltration rates required as noted below

The applicant is to provide details of the hydrogeological assessment that supports the view that:

	Satisfactory	Unsatisfactory	Not applicable	
A minimum area of 200m2 of infiltration/dispersion zones is required per ha of development to ensure the wide spread infiltration of rainwater and maintenance of groundwater levels				
While the Stormwater Management Strategy states that:				
An area of 258m2 of infiltration / dispersion zones is needed per ha of development.				
Contaminated Land (SEPP 55)				
Commont:	-	-		

1) Preliminary Site Investigation (Environmental Analysis Laboratory (EAL) 2010)

As part of the West Byron Rezoning Application for the subject site and adjoining site(currently being considered for subdivision under DA 10.2017.661.1) a Preliminary Contaminated Land Assessment was undertaken in 2010 (EAL, 2010) which undertook a site history review, site investigation, broad scale and targeted soil sampling and site characterisation. EAL (2010) determined that the site was largely free of contamination and suitable for urban development, however there were a few areas (identified in Figure 19) where further assessment was recommended.

BROADSCALE INVESTIGATION

Based on the results of the broadscale soil analysis effort, and the application of the adopted trigger levels relevant to the proposed land use structure, no indications of significant broadscale contamination was identified. Composite sample 19 recorded a breach of the adjusted trigger level for Lead, indicating that there is potential for Lead to be within this localised region in concentrations that may represent a risk of harm to end users.

The most likely source of Lead within soils in this area was the presence of waste stockpiles within the immediate vicinity of this particular composite sample set. No other targeted contaminant was found to exceed the adopted trigger values during the broadscale analysis effort.

TARGETED INVESTIGATION DISCUSSION

Soils surrounding the residential dwelling and associated shed within Lot 3 DP551947, and the disused shed south-east of the residence within Lot 1 DP542178 were found to contain residual Lead contamination in excess of the adopted trigger levels. The most likely source of lead within soils in this location is the degradation of lead-based paint historically applied to the structures.

Targeted sampling of waste piles and areas of machinery storage, historical vehicular storage and wrecking, disused and actively utilised structures (dwellings, sheds etc.) indicates hotspots of Lead, Copper and hydrocarbon contamination; in only one instance were all three identified contaminants in association with one another (i.e. WB269).

Concentrations of TPH above the Limits of Reporting (LOR) were recorded in the disused shed southeast of the residence within Lot 1 DP542178 and within machinery and waste storage areas observed and targeted within Lot 1 DP 780242. Significant concentrations were detected at TS16 (sheds immediately south of residence on Lot 1 DP 542178) and TS22 (shed immediately adjacent and north of residence on Lot 1 DP 542178).

RESIDENTIAL CONTAMINATED SOILS

As defined in Fig. 10 (EAL, 2010), three specific residential dwellings and their associated sheds recorded concentrations of Lead in soils surrounding the structures that breached the respective guideline values for each. Prior to development (that may include disturbance of soils identified as contaminated), further detailed testing is required to accurately define the extent and degree of contamination, and to provide suitable information to allow the production of an appropriate remediation

strategy .Specifically with regard to the above, the following actions were recommended:

- 1) Undertake further sampling of soils immediately surrounding the existing structures upon Lot 3 DP 551947, the aged shed structure immediately south of the dwelling on Lot 1 DP542178 and the dwelling and sheds within the central portion of Lot 1 DP 780242 in accordance with the sampling frequency requirements stipulated in EPA (1995);
- 2) Identify the extent of lead-based paint contamination of soils surrounding each structure via total and leachable Lead analysis; and
- 3) Prepare a suitable site specific remediation action plan for the sites (individually or concurrently), undertake the remediation works and perform the necessary site validation works to declare the site suitable.

In addition to the works stipulated above, the demolition of structures on site should be pre-empted by a hazardous building assessments to identify the presence of asbestos related building products. Further, sub slab analysis should also be conducted to confirm the absence of persistent contaminants such as termiticides historically applied to sub slab areas. Both of these actions are recommended prior to any demolition works of structures on site.

COMMERCIAL/INDUSTRIAL CONTAMINATED SOILS

As defined in Fig. 10 (EAL , 2010), shed structures within the southern portion of Lot 1 DP 780242 recorded concentrations of Copper in soils surrounding the structures that breached the respective guideline values. Prior to development (that may include disturbance of soils identified as contaminated), further detailed testing is required to accurately define the extent and degree of contamination, and to provide suitable information to allow the production of an appropriate remediation strategy. .Specifically with regard to the above, the following actions are recommended:

- 1) Undertake further sampling of soils as identified to the east of sheds within the southern portion of Lot 1 DP 780242 in accordance with the sampling frequency requirements stipulated in EPA (1995);
- 2) Identify the extent of copper contamination of soils within the identified area via total and leachable copper analysis; and
- 3) Prepare a suitable site specific remediation action plan for the sites (individually or concurrently), undertake the remediation works and perform the necessary site validation works to declare the site suitable.

WASTE PILE CONTAMINATED SOILS

As defined in Fig. 10 (EAL, 2010), areas of stockpiled wastes (building and demolition products) such as the area identified immediately south of the border separating Lot 6 DP622736 and Lot 2 DP 818403. Prior to development (that may include disturbance of soils identified as contaminated), further detailed testing is required to accurately define the extent and degree of contamination, and to provide suitable information to allow the production of an appropriate remediation strategy. Specifically with regard to the above, the following actions are recommended:

- 1) Undertake further sampling of soils as identified above in accordance with the sampling frequency requirements stipulated in EPA (1995);
- 2) Identify the extent of Lead and petroleum hydrocarbon contamination of soils within the identified area via total and leachable Lead analysis and TPH analysis; and
- 3) Prepare a suitable site specific remediation action plan for the sites (individually or concurrently), undertake the remediation works and perform the necessary site validation works to declare the site suitable.

In addition to the works stipulated above, the removal of demolition and construction wastes from site should be pre-empted by a hazardous building assessments to identify the presence of asbestos related

building products. Further, sub slab analysis should also be conducted to confirm the absence of persistent contaminants such as termiticides historically applied to sub slab areas. Both of these actions are recommended prior to any demolition works of structures on site.

Detailed Site Assessment (Australian Wetlands Consulting (AWC) September 2017)

A Preliminary Contaminated Land Assessment was undertaken in 2010 (EAL, 2010) which undertook a site history review, site investigation, broad scale and targets soil sampling and site characterisation. The report determined that the site was mostly free of contamination and suitable for urban development however there were a few areas where further assessment was recommended. This report details the additional assessment as recommended.

Targeted and systematic soil sampling was undertaken in the 'Areas of Concern' determined by EAL (2010). Analysis results were compared with Health Investigation Levels (HILs) as detailed by the National Environment Protection (Assessment of Site Contamination) Measure 1999. Targeted sampling was undertaken on Lot 2 DP 818403 where the EAL report had nominated an 'Area of Concern' where lead was potentially elevated. A total of 22 samples were collected over two sampling episodes and all results showed values below the HIL of 300mg/kg for residential land use. Based on the results of the EAL (2010) assessment and the results of the sample collection and analysis it is determined the area is suitable for the proposed development and is not constrained by contamination.

Targeted sampling was also undertaken on Lot 1 DP 780242 where the EAL (2010) report had determined the previous land use as an auto wrecker yard and automotive work shop, amongst other previous land uses, was a likely source of lead, copper and TRH contaminants. The north of the property has a land use zoning of E2 – Environmental Conservation, whereas the south of the lot has a land use zone of R2 – Low Density Residential planned. The NEPM (1999) provides HIL values for different land uses.

The sampling and analysis undertaken in the residential zone showed all valued recorded were below the HIL and therefore the area is unconstrained by contamination and suitable for the proposed residential development.

Sampling showed that three of the 46 samples analysed in the Environmental Conservation (E2) zone had lead concentrations above the HIL of 600mg/kg with a high variation in values in the remaining samples. As a result it is recommended that remediation around the dwelling and shed structures be undertaken as part of the structure removal process.

The following is recommended:

- 1. All waste materials are to be removed from the site and disposed of in accordance with the Waste Classification Guidelines (EPA, 2014) and Schedule 1 Clause 49 of the Protection of the Environment Operations Act 1997. No waste is to be buried or burned on site.
- 2. If during construction and/or excavation works unusual materials (drums, odours, stained soils, asbestos) that may indicate contamination are uncovered, works should cease and a suitably qualified consultant engaged to determine if contamination is present. This procedure should be detailed within the site based Construction and Environmental Management Plan.
- 3. Any soil imported to the site for fill material is to comply with the provisions of the West Byron Detailed Contaminated Land Investigation Australian Wetlands Consulting Pty Ltd | 1-17819_01a 39 excavated natural material exemption 2014 and the excavated natural material order 2014, under Part 9, Clause 91, 92 and 93 of the Protection of the Environment Operations (Waste) Regulation 2014
- 4. A remediation action plan is to be prepared for the removal of structures in the E2 (Environmental Conservation) zone of Lot 1 DP 780242. A number of lead analysis results were above the HIL in this zone due to the historic land use of a car wrecker yard and automotive workshop.

	Satisfactory	Unsatisfactory	Not applicable	
5. The Remedial Action Plan can be undertaked of a Construction Certificate.	en as part of a Cons	sent Condition prior t	o issue	
Additional Ground water Sampling undertaken by ENV Solutions (May 2018) for the adjoining Villa Wood Development (DA10.2017.201.1) indicates that TRH levels have desisted and that the groundwater compliant with the exception of elevated zinc for which there does not appear to be any plausible source.				
No further information is required at this s	tage.			
On-Site Sewage Management (CI 6.6 BLEP 2014			\boxtimes	
Comment:				
Food Premises			\boxtimes	
Comment:	•			
Waste Management				
Comment:				
Land Use Conflicts Comment:				
2010 was prepared to identify land use compatibility and potential conflict between neighbouring land uses, and the identification of conflict avoidance or mitigation measures. Please find below list of items that have not been provided, or not satisfactorily provided in regard to the application, which prohibits conditions being proposed as part of an approval determination. The Land Use Conflict Risk Assessment (LUCRA (Land Partners December 2010) does not consider preliminary plans provided by the applicant that indicate potential land use conflicts including (but not limited to) road pavement and attenuation mounds that encroach areas of vegetation identified on Council's GIS Mapping (Geocortex) as being HEV.				
Hazardous and Offensive Development (SEPP33)				
Comment:				
Noise Impacts				
Comment: TTM (20.09.2017) conducted an environmental noise assessment of the proposed West Byron development. The report assessed the eastern and western areas of the development known as Part A and Part B. Noise monitoring of the existing road traffic and ambient noise environment was undertaken to establish noise levels and the applicable noise criteria. In accordance with these criteria, road traffic noise impacts and noise generated by the commercial and light industrial components of the development was assessed. Discussion is provided to show that noise generated by offsite commercial premises complies with the criteria. The development is predicted to comply with the road traffic noise criteria with the inclusion of a 4m high acoustic barrier (comprising a 2m high mound + 2m high acoustic barrier) fronting Ewingsdale Road.				

Internal road traffic noise levels in single storey dwellings are predicted to comply using standard building constructions with windows and doors closed. Upper floors of any residential dwellings located in the first row of lots off Ewingsdale Road will require a lot specific acoustic report once building plans are available to determine the building treatments required for compliance with the internal noise limits.

A further acoustic assessment would be required for industrial lots within Part B to accurately determine whether noise mitigation measures are required for each specific light industrial use. The same may also apply to retail or commercial uses located within Part A to ensure noise emissions comply at the adjacent residential lots.

The NIA recommends:

- A landscaped buffer including both physical barriers and earth mounds adjacent to Ewingsdale Road to be incorporated into the subdivision design generally in accordance with Figure E8.11 for the full length of the West Byron Site zoned IN2, R2 and R3, subject to all required road, drainage, cycleway, services and landscaping being able to be located within the road reserve.
- 2. The final height and design of the barrier to be supported by an acoustic noise assessment report prepared in accordance with the NSW Road Noise Policy 2011 demonstrating that future residential dwellings will not be adversely affected by traffic noise on Ewingsdale Road.
- 3. The buffer to be landscaped with native trees and vegetation to conceal the mounds and barriers, and to provide a general visual screen to the development in West Byron. A concept landscape plan to be submitted with the development application in accordance with B9 of DCP 2014.
- 4. The buffer can be erected in stages. Details to be submitted with the Development Application as to any staging arrangements.

Comments:

The final acoustic barrier / earth mound scenario to be constructed needs to be consignant of other planning issues such as cost effectiveness of the noise mitigation strategy, community views, social implications (i.e. passive surveillance), environmental effects and visual impact of acoustic barriers / earth mounds given that the site is along the main entry roads in Byron Bay.

Whilst the NIA proposes to soften the acoustic barrier / earth mound, via landscaping treatments the impact the development will have on the Ewingsdale Road approach to the Byron Bay township with a proposed 4m barrier is significant. In addition the proposed 4m acoustic barrier will be approximately 2m higher than the preferred Scenario1 barrier of DA10.2018.201.1 at the adjoining Villawood development to the immediate east. A reduction in the acoustic barrier height would inevitably result in single storey dwellings in addition to two or three storey residential development that would require building shell treatment to comply with internal noise criteria.

It should be noted that proposed industrial land within Part B could be developed into light industrial use/s; however, at the time of the preparation of TTM (2017) no detailed plans for lot layouts, internal road design or building envelope locations have been sourced. Final uses for the future light-industrial area is also unknown therefore a detailed acoustic assessment should be undertaken at the Development Application stage of Part B to ensure acoustic treatments and management controls are put in place to mitigate noise emissions to residential lots / dwellings within the "R & D" site. An assessment of this future light-industrial area at this time would be preliminary in nature only and need to rely on acoustic treatments at residential lots and dwellings, which ultimately may not be warranted depending on the final use/s on the land. The same may also apply to retail or commercial uses located within Part A to ensure noise emissions comply at the adjacent residential lots.

Please find below list of items that have not been provided, or not satisfactorily provided in regard to the application, which prohibits conditions being proposed as part of an approval determination.

Acoustic Barrier

Detailing of acoustic wall and landscape buffer – The plans include Figure 5 'Acoustic Mound and Utilities Allocations Section' which shows the Ewingsdale Road verge interaction with the property boundary. The drawings fail to address the DCP required acoustic wall and landscape buffer as shown in Figure E8.11 of the DCP. The plans are to be amended to show the layout of this acoustic wall (in plan) as well as the positioning of the wall wholly within private property (in section). The landscaping requirements of the 2m high landscape buffer mound is also to be detailed in the plans.

E8.10.8.8 Buffer to Ewingsdale Road - The returns of the Acoustic Barriers are to extend 15m back into the new lots. There is no detail of how the earthern berms will be returned in this area. The acoustic barriers are 4m high - the returns are located within private property and there will be no opportunity to have an earthern berm to the Spine Road with the future footpaths and road reserves.

The Applicant is to provide a section showing the acoustic barrier returns within the Spine Road (Road No. 5)

The Acoustic Report shows the general design of the acoustic barrier within the future lots - Show the location of the acoustic barriers on the lot plans by demonstrating the depth that these retaining walls will extend into the lots

Construction Noise

Due to the size and scale of the proposed development extended construction activities have potential to result in noise impacts. Therefore, the applicant is requested to identify what measures are required to minimise noise impacts from the proposed works. Issues that should be considered include (but may not be limited to):

- description of the proposed works, including a discussion of alternative construction methods and justification for selected method. Clear justification of proposed works to be undertaken outside the recommended standard hours must be given;
- identification of the residences and other sensitive land uses near the works;
- description of proposed total duration of noise exposure at the identified assessment locations from the proposed works;
- discussion of expected noise or blasting impacts at the most noise-exposed residences and other sensitive land uses. If a quantitative method is used, the predicted noise levels from the proposed construction works should be presented. A discussion of any community consultation undertaken in assessing the noise impacts should be included;
- discussion of feasible and reasonable work practices and mitigation measures that will be applied to minimise noise impacts from the works; and
- changes to the proposal in response to submissions and representations received.

Note: Refer to DECC's 'Interim Construction Noise Guideline' (2009) for more information (see http://www.environment.nsw.gov.au/noise/constructnoise.htm).

Please note: It is important that stormwater, road, ecological, visual, landscaping and amenity consideration are considered in the design and placement of the proposed acoustic barriers to ensure the acoustical integrity of the barriers whilst acknowledging the competing matters to be considered. Any changes to the location of acoustical barriers will require a review by an appropriately qualified acoustic consultant.

Other Impacts (Noise, Dust, Odours, Water		
Quality, EMR, Public Health, Skin		
Penetration)		

Mosquito Management

The Mosquito Risk Assessment: West Byron Bay NSW (Sydney West Area Health Service, December 2010) is relevant to this section.

Recommendations include:

- Appropriate plant selection and management of garden vegetation to reduce habitat opportunities for mosquitoes;
- Location, design and management of any individual stormwater treatment systems;
- Leaf guard on roof guttering to reduce potential for water to pond in gutters; and
- The inlet and outlet (overflow) of rainwater tanks to be effectively screened with stainless steel or other durable materials to prevent entry to the tank by mosquitoes. Inlet filters must be readily removable for cleaning.

<u>Please find below list of items that have not been provided, or not satisfactorily provided in regard to the application, which prohibits conditions being proposed as part of an approval determination.</u>

Environmental Management Plan – Construction

Due to the size and scale of the proposed development construction works are likely to be prolonged and result in potential adverse impacts to the surrounding area. Therefore, to allow Council to assess the likely scope and duration of works associated with the proposed subdivision, the applicant is requested to provide an Preliminary Environmental Management Plan prepared by a suitably qualified Environmental Consultant. The EMP must be prepared by a suitably qualified professional and contain details of measures to be undertaken to ensure that subdivision construction works do not result in any off-site impacts that could interfere with neighbourhood amenity by reason of acid sulphate, stormwater quality, soil, noise, vibration, smell, fumes, smoke, dust, wastewater or otherwise. In addition to the proposed days/hours of construction please indicate the likely volume and extraction point of any proposed fill material. The EMP should also include a Waste Management Strategy that details the management of wastes created as a result of the subdivision works including on-site storage and disposal of wastes. The EMP must give reference to NSW WorkCover Authority.

Recommendation:

Supported	□ Not Supported		
Additional Information	☐ Information to be requested	☐ Information already	
Needed	by Planner	requested	

Additional Information Needed

Prior to further consideration of the application from an environmental viewpoint, the applicant should be requested to provide the following additional information: ((List outstanding items))

OR

Supported

The development application is supported from environmental grounds. Should consent be granted then the following environmental conditions would be applicable:

Parameters

1. Development is to be in accordance with approved plans

The development is to be in accordance with plans listed below:

Plan No.	Description	Prepared by	Dated:

The development is also to be in accordance with any changes shown in red ink on the approved plans or conditions of consent.

The approved plans and related documents endorsed with the Council stamp and authorised signature must be kept on site at all times while work is being undertaken.

The following conditions are to be complied with prior to issue of a Construction Certificate for building works

2. Terms of approval for on-site sewage management required

Refer to Local Government Act Section 68 Application No. **XX.XXXX.XXX** or Local Government Act Section 68 approvals issued subsequent to this consent.

Delete the following condition if concurrent s68 OSMS has been approved.

3. On-site sewage management facility Section 68 approval required

An approval under Section 68 of the Local Government Act 1993 for on-site effluent disposal must be obtained from Council prior to issue of a Construction Certificate. Such approval must be issued after the date of this consent. The application for Section 68 approval must be accompanied by a report prepared by a suitably qualified professional with demonstrated experience in effluent disposal matters, which addresses the site specific design of sewage management in accordance with the requirements of the NSW Local Government Act, and Approvals Regulation and Guidelines approved by the Director General.

Delete below if Rous Water connection (need S307 Certificate of Compliance issued by Rous Water condition)

4. Water and Sewerage - Section 68 approval required

An Approval under Section 68 of the Local Government Act 1993 to carry out water supply work and sewerage work must be obtained.

5. Site Waste Minimisation and Management Plan

Chapter B8 of Byron Shire Development Control Plan 2014 (DCP 2014) aims to facilitate sustainable waste management in a manner consistent with the principles of Ecologically Sustainable Development. Prior to the issue of a Construction Certificate, a Site Waste Minimisation and Management Plan (SWMMP) must be submitted outlining measures to minimise and manage waste generated during demolition, construction and the ongoing operation and use of the development. The SWMMP must specify the proposed method of recycling or disposal and the waste management service provider.

A template is provided on Council's website to assist in providing this information www.byron.nsw.gov.au/files/publication/swmmp - pro-forma-.doc

The following conditions are to be complied with prior to any building or construction works commencing

6. Erosion & sediment measures

Erosion and sedimentation controls are to be in place in accordance with the *Guidelines for Erosion* & *Sediment Control on Building Sites*. A full copy may be downloaded from Council's web site at www.byron.nsw.gov.au.

The following conditions are to be complied with during construction

7. Inspection for on-site sewage management

All plumbing and drainage works is to be installed by a suitably qualified person. The plumber must adhere to the requirements of the NSW Code of Practice and AS/NZ 3500. The plumber is to arrange for the following inspections to be undertaken:

- a) Internal drainage prior to covering of the works.
- b) External drainage prior to the covering of works.
- c) Irrigation installation prior to the covering of works.
- d) Final

8. Construction times

Construction works must not unreasonably interfere with the amenity of the neighbourhood. In particular construction noise, when audible on adjoining residential premises, can only occur:

- a) Monday to Friday, from 7 am to 6 pm.
- b) Saturday, from 8 am to 1 pm.
- c) No construction work to take place on Sundays or Public Holidays.

9. Construction noise

Construction noise is to be limited as follows:

- a) For construction periods of four (4) weeks and under, the L10 noise level measured over a period of not less than fifteen (15) minutes when the construction site is in operation must not exceed the background level by more than 20 dB(A).
- b) For construction periods greater than four (4) weeks and not exceeding twenty six (26) weeks, the L10 noise level measured over a period of not less than fifteen (15) minutes when the construction site is in operation must not exceed the background level by more than 10 dB(A).

10. Builders rubbish to be contained on site

All builders rubbish is to be contained on the site in a 'Builders Skips' or an enclosure. Footpaths, road reserves and public reserves are to be maintained clear of rubbish, building materials and all other items.

11. Maintenance of sediment and erosion control measures

Sediment and erosion control measures must be maintained at all times until the site has been stabilised by permanent vegetation cover or hard surface.

12. Prevention of water pollution

Only clean and unpolluted water is to be discharged to Council's stormwater drainage system or any watercourse to ensure compliance with the Protection of Environment Operations Act.

The following conditions are to be complied with prior to occupation of the building

13. On-site sewage management system must be completed

The on-site sewage management system is to be constructed in accordance with approved plans and in accordance with current specifications and standards. The system is not to be used and/or operated until a Council Officer has inspected the system and authorised its use.

14. Approval to Operate required

In accordance with the Local Government Act, an Approval to Operate the onsite sewage management system must be obtained from Council. Forms may be downloaded from Council's website with 'http://www.byron.nsw.gov.au/on-site-sewage'.

The following conditions will need to be complied with at all times

The following conditions will need to be complied with prior to issue of a Construction Certificate for subdivision works

The following conditions must be complied with prior to commencement of subdivision works

The following conditions must be complied with during construction of subdivision works

The following conditions must be complied with prior to issue of a Subdivision Certificate

Notes

Protection of the Environment Operations Act 1997:

It is an offence under the provisions of the Protection of the Environment Operations Act 1997 to act in a manner causing, or likely to cause, harm to the environment. Anyone allowing material to enter a waterway or leaving material where it can be washed off-site may be subject to a penalty infringement notice ("on-the-spot fine") or prosecution.

OR,

Not Supported

The development application is not supported from environmental grounds and should be refused for the following reasons: ((List Reasons for Refusal))

Mrs E L Holt Mr T Fitzroy	Click here to enter a date.
Environmental Health Officer	Date

Request for update of information on Contaminated Land Management System

To: Planning Admin Staff

From: Mr L J Munro

Date: Click here to enter a date.

Subject: Ewingsdale Road BYRON BAY, 394 Ewingsdale Road BYRON BAY, 412 Ewingsdale

Road BYRON BAY, Melaleuca Drive BYRON BAY, 364 Ewingsdale Road BYRON BAY, LOT: 1 DP: 201626, LOT: 2 DP: 542178, LOT: 1 DP: 780242, LOT: 2 DP: 818403, LOT: 1

DP: 520063, LOT: 7020 DP: 1113431

Parcel No: 21700, 151400, 21720, 152550, 114340, 241870

Please update Council's contaminated land management system in response to Council's receipt and consideration of the following reporting: (please check box)

Site contamination reports/information submitted to Council:

Preliminary Investigation
Detailed Investigation
Remedial Action Plans
Validation and Monitoring
Site Audit Statements received by Council
EPA declarations and orders issued under the CLM Act (including voluntary investigation & remediation proposals agreed by the EPA).
Prior notification of category 2 remediation works
Notification of completion of category 1 and category 2 remediation work.
Information of which Council is aware in relation to current or former land uses/pollution incidents.
Development Application

Report Details:

Input information from Environmental Assessment Report SEPP 55 findings (eg cut and paste from environmental officer's assessment).

Include document / report title

Include DA no and doc # of environmental assessment

TRIM Ref: Doc # of above report(s):

Property Description:	Ewingsdale Road BYRON BAY, 394 Ewingsdale Road BYRON BAY, 412 Ewingsdale Road BYRON BAY, Melaleuca Drive BYRON BAY, 364 Ewingsdale Road BYRON BAY, LOT: 1 DP: 201626, LOT: 2 DP: 542178, LOT: 1 DP: 780242, LOT: 2 DP: 818403, LOT: 1 DP: 520063, LOT: 7020 DP: 1113431				
Property Affected:	☐ Whole of property ☐ Adjoini		ing land	☐ Building envelope(s)	
	☐ Contamination Assess	sment	☐ Further information		
Actions required:	☐ Remediation Required	d	☐ Validation Report Required		
Actions required.	☐ Site inspection		☐ Add to 149 Certificate (*see below)		
	☐ Refer to EHO		□ Nil		

Determination (at completi	on of a	ssessn	nent):					
☐ Not contaminated		ontan	ninated	☐ Assessment required				
☐ Remediated – full	□R	emed	iated – partial 🔲 Approve	☐ Approved potential contaminating land use				
*Descriptor on s149(5) certificate ADMIN STAFF PLS ADD THIS TEXT AS A MEMO ON AUTHORITY: Environmental officers to insert details of any contamination or subsequent remediation. Refer to s149(5) certificates for the following parcels for examples of suggested wording – PN 241972, 111080, 134080, 134060, 65320, 239419, 222100, 21650- Leave blank if site is 'not contaminated'								
Health-based Investigat ☐ Residential with G ☐ Residential with M ☐ Parks Recreationa ☐ Commercial or Inc	arden inima al Ope lustria	s (NE l Acce n Spa l (NEI	HF A) ess (NEHF D) ace (NEHF E) HF F)					
Name of officer making request: Emma Holt Signature: Date: Click here to enter a date.								
Input to Authority Regis			A . 45 54			C: Current / H: I		
Activity Abattoir	C	H	Activity Fuel storage depot	C	Н	Contaminant Acids/alkalis	<u> </u>	
Abrasive blasting			Glass manufacture			Antifouling paints		
Agriculture – Banana Farm			Intensive animal			Asbestos		
Agriculture – Cattle			Landfill sites/waste depots			Fertilizer		
Agriculture – Orchards			Macadamia Farm			Flocculants		
Agriculture – Turf Farm			Market gardens			1 loodalarito		
Airport			Metal finishing			Fungicides		
Asbestos disposal			Mining and extractive industries			Herbicides		
Automotive repair/engine			Pest control depots			Hydrocarbon		
works			and the second s			,	_	
Battery			Printing shops			Inorganics		
manufacturing/recycling			Dedicative as 450			Matala		
Boat building/maintenance			Radioactive sand fill			Metals		
Breweries/distilleries			Railway yards			Organics		
Bus depot Chemical storage			Residential Scrap metal recovery			Paints – heavy metals Pesticides		
Commercial			Service stations			Pharmaceuticals		
Communication tower			Sewage treatment plant			Photography		
Compost manufacturing			Shipping facilities			Plastics		
Concrete batching			Shooting or gun clubs			Radioactive sands		
Council works depot			Spray painting			Rubber		
Defense works			Stock dipping sites	\perp		Soap/detergent		
Dip buffer			Timber preserving/treatment	+		Solvents		
Dry cleaning			Underground storage tanks					
Dry cleaning Electricity generation/power station			Underground storage tanks Unknown			Unknown Waste disposal general		

Vacant

Filling (imported soil)

DD 010.2017.00000661.001 File No.ELH/SAR/21700 x 56.2017.661.1(#A2017/31104)

Activity	С	Н	Activity		ပ	Н	Contaminant	×
Fuel storage			Waste disposal					
Risk:	□Н	igh	☐ Low			☐ Medium		
Remediation required	\square N	0	☐ Yes – Provide details (eg. Prior to issue CC)					
Validation Report	\square N	0	☐ Yes – TRIM Ref #Click here to enter text.					

Development Engineering Comments

DA No.	10.2017.661.1
Proposal:	Subdivision of Six (6) Lots into Three Hundred and Eighty Seven (387)
	Lots consisting of Three Hundred and Seventy Eight (378) Residential
	Lots, Two (2) Business Lots, Two (2) Industrial Lots, One (1)
	Recreation Lot and Four (4) Residue Lots
	LOT: 1 DP: 201626, LOT: 2 DP: 542178, LOT: 1 DP: 780242, LOT: 2
	DP: 818403, LOT: 1 DP: 520063, LOT: 7020 DP: 1113431
Property description:	Ewingsdale Road BYRON BAY, 394 Ewingsdale Road BYRON BAY,
	412 Ewingsdale Road BYRON BAY, Melaleuca Drive BYRON BAY,
	364 Ewingsdale Road BYRON BAY
Parcel No/s:	21700, 151400, 21720, 152550, 114340, 241870
Applicant:	Site R & D Pty Ltd

This engineering assessment is based on the documents in Schedule A:

Date	Description	TRIM Doc. No.
22/11/17	Part 1 - DA Form, Owners Consent	E2017/107579
Nov. 2017	Part 2 - SEE	E2017/107585
14/09/17	Part 3 – Locality Plan	E2017/107587
08/09/17	Part 4 – Proposed Plan of Subdivision 15024-8A	E2017/107588
08/09/17	Part 5 – Proposed Plan of Subdivision 15024-8B	E2017/107590
08/09/17	Part 6 – Proposed Plan of Subdivision 15024-8C	E2017/107591
11/10/17	Part 7 – Engineering Assessment & Plans	E2017/107592
31/10/17	Part 8 – Flood Impact Assessment	E2017/107593
6/10/17	Part 9 – Traffic & Transport Report	E2017/107595
12/9/17	Part 10 – Geotech Report	E2017/107596
30/10/17	Part 18 – Stormwater Management Strategy	E2017/107608
9/10/17	Part 20 – Landscape Plan Part 2	E2017/107611
13/11/17	Part 22 – Bushfire Assessment Part 1	E2017/107613
13/11/17	Part 23 – Bushfire Assessment Part 2	E2017/107615
31/10/17	Part 25 – Elec & Telecomms Infrastructure Report	E2017/107617
15/11/17	Part 26 – DCP 2014 Compliance Checklist	E2017/107618
4/9/17	Part 29 – Master Plan Layouts	E2017/107621
11/10/17	Part 30 – West Byron Design Guidelines	E2017/107622
12/1/18	RMS referral response - email	E2017/3229
19/1/18	OEH referral response - email	S2018/1518
31/1/18	Belongil Swamp Drainage Union - email	E2018/7597
2/2/18	PlanIt Submission – adjoining subdivision	E2018/8660
20/4/18	RFI sent to applicant	A2018/12354
23/4/18	Council's landowners consent	E2018/34520
1/3/18	RFS response	E2018/37398

Schedule A - List of Documents

RECOMMENDATION

Not supported from an engineering viewpoint due to the reasons provided in this report

Chris Borg	09 August 2018	

ASSESSMENT

A detailed assessment has been carried out of the applicant submitted listed documents in Schedule A, against relevant planning provisions and Council's engineering specifications. The focus of the engineering assessment can be categorised into the following engineering related matters:

- Access
- Traffic
- Road and Drainage Design
- Stormwater Management,
- Earthworks
- Geotechnical
- Flooding
- Other Engineering Matters

Below is an assessment of the engineering matters above, with reference to the relevant planning provision or Council specification to which it relates.

1.	Access (Byron Shire DCP 20	14 Chapter D6)		
		Satisfactory	\boxtimes	Unsatisfactory	Not applicable
	Comi	ments:			

The engineering plans provided propose a single access point from the proposed subdivision internal road network to the existing road network at a new roundabout located at the Ewingsdale Road/ School of Audio Engineering intersection. The Byron Shire DCP 2014 Chapter D6 Section D6.2.1.1 requires the development application consider a raft of site design issues, with sub-part (b)(iv) being site access. One aspect of site access that has not been addressed is the provision of alternate access to the development to provide for incident management and emergency access, to assist in general emergencies as well as flood and fire events. Considering the application seeks to provide nearly 380 residential land lots in a bushfire and flood prone vicinity, provision of this secondary emergency access is considered vital.

The engineering plan set includes figures that are replications of concept design longitudinal sections for Ewingsdale Road works, with the design by Lambert & Rehbein. The tie in of the entrance road to the proposed development, proposed Road 5, with Ewingsdale Road occurs at the SAE Access roundabout which is Ch 1800 of Ewingsdale Road as per the Lambert & Rehbein plans. The longitudinal section of Ewingsdale Road shows a proposed level of RL 4.895 at this chainage. Proposed Road 05 which intersects at this point is shown to have a design level of RL 6.365 – some 1500mm higher than the road it adjoins. The levels at this point are required to match to allow access to the site. The design is non-compliant with the Byron Shire DCP 2014 Chapter D6 Section D6.2.1.1 in this respect also.

Proposed lots 18 to 60 and 401 to 402 in the subject application do not have access to a public road until the neighbouring development builds the road networks fronting these lots and connecting to Ewingsdale Road as part of the adjoining development application (10.2017.201.1 – currently under assessment). Proposed lots 18 to 60 require the neighbouring development to build 'Road 01' and 'Road 02' (as noted in the subject development application) to gain access to a public road. Proposed lots 401 and 402 are shown in the engineering plans to gain access from a public road titled 'Road 03' (as noted in the subject development application) which is again a road shown to be provided as part of the neighbouring development, however the engineering plans provided for the neighbouring development do not show this road 'Road 03' being constructed. Lots 18 to 60, 401 and 402 do not have public road access hence are non-compliant with the referenced DCP clause and should not form part of a development application until arrangement for public road access has been made.

The 'construction accesses' plan provided in the engineering set shows a number of locations along Ewingsdale Road where construction access is proposed. A number of these proposed access points are via land which does not form part of this application, or from roads that require construction by others. Any access points proposed to be used for construction purposes are to be within the land subject to the application or with consent of the appropriate land owner. Consent for access over land that is not subject

to the application has not been provided, hence several the proposed construction access points are not supported.

2.	Traffic (Byron Shire DCP 201	ffic (Byron Shire DCP 2014 Chapter E8, Byron Shire DCP 2014 Chapter B4)						
	☐ Satisfactory	⊠ Uns	satisfactory [Not applicable			
	Comments:							

Byron Shire DCP 2014 Chapter E8 Section E8.10.1 and Byron Shire DCP 2014 Chapter B4 Section B4.2 require the submission of a detailed traffic impact assessment as part of the application lodgement. An original traffic study 'Traffic and Transport Report – West Byron Urban Release Area' provided by Veitch Lister Consulting dated October 2017 has been provided as part of the assessment process to quantify the expected traffic volumes that the proposed development will generate and address the acceptability of the existing and proposed road network to handle these traffic volumes. The Chapter E8 DCP requires that the traffic study is based on the full West Byron Urban Release Area being developed.

The submitted traffic impact assessment provides current traffic volumes that are in the order of the traffic expected, however notes in Table 2-3 that the forecast growth for years 2018 - 2028 would be in the order of 1.0 - 1.5%pa, see extract of table below.

Table 2-3: Forecast Traffic on Ewingsdale Rd (Without West Byron Urban Release Area)

Location	Period	Direction	2008	2018	2028	Growth 2018-2028
	A14 4 hrs	Eb	811	1,032	1,178	+1.4% pa.
	AM 1hr	Wb	374	499	554	+1.1% pa.
West of	PM 1hr	Eb	596	790	881	+1.2% pa.
Bayshore Drive	FIVI IIII	Wb	891	1,186	1,349	+1.4% pa.
Dilve	24hr	Eb	7,690	10,341	11,644	+1.3% pa.
	24111	Wb	7,420	10,143	11,418	+1.3% pa.
	AM 1hr	Eb	599	772	892	+1.6% pa.
Between		Wb	476	581	639	+1.0% pa.
Bayshore Drive and	PM 1hr	Eb	673	826	907	+1.0% pa.
Sunrise		Wb	672	912	1,046	+1.5% pa.
Boulevard	24hr	Eb	7,260	9,476	10,561	+1.1% pa.
		Wb	7,030	9,348	10,410	+1.1% pa.
	A	Eb	611	779	900	+1.6% pa.
	AM 1hr	Wb	513	621	683	+1.0% pa.
East of Sunrise	PM 1hr	Eb	707	866	955	+1.0% pa.
Boulevard	FINI IIII	Wb	690	927	1,063	+1.5% pa.
Bodioraid	24hr	Eb	7,530	9,784	11,006	+1.2% pa.
	24111	Wb	7,290	9,631	10,834	+1.2% pa.

In the external referral comments from the Roads and Maritime Services (RMS) dated 12 January 2018, the RMS have noted that the traffic forecasts used for determining the future traffic volumes on Ewingsdale Road should be based upon the Council's current and future traffic data to ensure the consent authority is satisfied with the 'base' traffic volumes and the expected increases into the future. Council's traffic data by comparison indicates that Ewingsdale Road experienced traffic growth close to 3.4%pa since 2008, a much higher increase than the modelled 1-1.5% and indicating that the applicants traffic volumes have not considered Council's available traffic data as required by the RMS.

The traffic impact assessment report provided does not include seasonal variation as per Austroads Guide to Traffic Management Part 3 for Ewingsdale Road AADR numbers and peak hour movements, and is required to do so. The report also fails to include the required additional 25% vehicle trips made from the low residential areas of the development site for trips made internal to the subdivision. This is a requirement of the RMS Guide to Traffic Generating Development – Updated Traffic Survey 4a. The traffic impact assessment is lacking information and not considered to satisfactorily address Byron Shire DCP 2014 Chapter E8 Section E8.10.1 and Byron Shire DCP 2014 Chapter B4 Section B4.2.

It is well known that the traffic on Ewingsdale Road both into and out of Byron Bay is problematic. While there are commitments to construct a Byron Bay bypass which is expected to relieve much of these traffic pressures on Ewingsdale Road, the timing of construction of this bypass is not confirmed. The additional vehicle movements on Ewingsdale Road expected and as modelled in the applicant's traffic impact assessment will only worsen the traffic situation in the local and extended area, causing further delays and extensions to traffic peak times until this bypass is operational. As a result it is vital that the traffic volume generation modelling considers all available data and incorporates best practice and industry standard quidelines to provide the most accurate traffic volume estimates.

The statement of environmental effects lodged with the application notes that 329,500m³ of fill is required to be imported to the site, which is expected to produce several hundred truck movements on Ewingsdale Road travelling to site each day for a likely period of months. In the RMS referral response, it was recommended that a Construction Traffic Management Plan (CTMP) be prepared by a suitably qualified person to manage construction traffic impacts on Ewingsdale Road during construction. As these truck movements will significantly affect the operation and traffic volume on an already congested Ewingsdale Road, this CTMP is required to outline truck routes to and from the site, quantify truck numbers per day and specify site movements once the import trucks are on site. This CTMP is required as part of the concept stage of this development application rather than being conditioned prior to the issue of a construction certificate as it is vital for the applicant to show how the construction traffic will be managed, how it will affect the traffic movements on Ewingsdale Road and show how access can be provided for the import trucks to the several stages of the proposed subdivision. The use of any of the newly built/ dedicated roads created as part of the preceding subdivision stages by these import trucks would drastically reduce the design life of these roads and is a maintenance liability for the Council, hence not supported. The engineering assessment report provided by ACOR Consultants (Document No: NE 160352 R05 - Issue 5) dated October 2017 recognises this and made note in Section 10 'Staging' that "trafficking of completed works will be minimised and avoided where possible". Since there has been no CTMP submitted, the recommendation of the RMS, which is fully supported, has not been addressed by the applicant.

3.		d and Drainage Design (Byron Shire DCP 2014 (` ,	•		
		Satisfactory	\boxtimes	Unsatisfactory	Not applicable	
	Com	ments:				

The application provides engineering plans for a road and drainage network to service their proposed subdivision layout. The Byron Shire DCP 2014 Chapter E8 provides for a rudimental road layout in Appendix B but does not specify an indicative layout plan for the internal road network, hence the applicant has provided an internal road network to suit their proposed residential development. The proposed design is however lacking in information or is not compliant with the Byron Shire policies in several aspects. Below is a list of the missing critical information or non-compliances in the plans in regard to either the road or the stormwater design:

- The subdivision is shown to be carried out in multiple stages, however the engineering requirements of staged subdivision such as temporary turning head provision and temporary drainage outlets have not been shown. The Byron Shire DCP 2014 Chapter E8 Section E8.10 (s) requires that the general timing and sequencing of the works be provided, and Byron Shire DCP 2014 Chapter D6 Section D6.3.3 (7) requires that manoeuvring areas are provided at the ends of roads. The plans are non-compliant in addressing either of these staging related requirements.
- Several of the typical road sections provided in the engineering plans does not match the road cross sections provided for road types in Appendix D of the Byron Shire DCP 2014 Chapter E8. Similarly, Road 9 is not listed in any of the typical road cross sections. The road types used by the applicant look to be in part those shown in Council's adopted 'Geometric Road Design Table D1.5', however as there is a site specific DCP (Chapter E8) the DCP specified road types should take precedence in this case.

The proposed road layout provided does not tie in with the road layout on the adjoining land, which has a Development Application lodged over it (10.2017.201.1) currently under Council assessment. There is a clear lack of information as to how the roads for the subject development connect and correlate with the proposed adjoining development, which is contrary to the Objectives and Performance Criteria of Byron Shire DCP 2014 Chapter E8 Section E8.10.1 – Staging Plan.

There are several road connections/ continuations joining the subject development to the neighbouring development across the boundary of the two sites, making design consistency at these points vital. While the subject development road design should not dictate the adjoining development road design and vise-versa, the following are a list of inconsistencies between the two designs at points where the two designs rely on each other and must show consistency:

- The subject development shows Road 05 in the typical section to be a 'Distributor Road' type with a 4m carriageway and 2.3m parallel parking lane each side of a 3m central median. This is inconsistent with the DCP road formation and with the engineering plan shown for this same road as only *part* of Road 5 is shown in plan with a median, however there is no secondary typical section for Road 05. This road connects with the adjoining development across the boundary between the two sites, and the formation of the road once the boundary is crossed is shown in application 10.2017.201.1 as a centrally-crowned road with no median made up of two 5.5m wide carriageways. The road is required to continue over the boundary seamlessly, which cannot be done with two different road formations joining as proposed.
- At the various continuations or junctions of the roads that cross the boundary between the two developments, the levels of the road centrelines at this point are to match or be very similar at concept stage. The point in the road where the two developments join is noted below, with the difference in the two design levels noted:
 - i. West Byron (subject development) Road 05 Main Drain Crossing and Harvest Estate (adjoining development 10.2017.661.1) Road 05 Main Drain Crossing – <u>road level</u> <u>difference of ~500mm</u>
 - ii. West Byron Road 22 junction with Harvest Estate Road 10 <u>road level difference of ~1000mm</u>
 - iii. West Byron Road 25 junction with Harvest Estate Road 10 <u>road level difference of</u> >500mm
 - iv. West Byron Road 26 junction with Harvest Estate Road 10 <u>road level difference of</u> >500mm
 - v. West Byron Road 06 junction with Harvest Estate Road 08 <u>road level difference of ~200mm</u>

As per above there are a number of instances where the subject development engineering plans rely on the neighbouring development road levels, and the engineering plans for the subject development shows the neighbouring developments road longitudinal sections. In the engineering plans for the subject development, the longitudinal section shown for Road 02 is the neighbouring development's 'Road 05', and there is a level difference between the two applications engineering plans on the same road in excess of 500mm. Similarly, the longitudinal section shown for Road 24 is the neighbouring developments 'Road 10', and there is a longitudinal level difference between the two engineering plans in excess of 500mm.

- The road layout across the boundary of the two developments does not match, in that road centrelines or intersection treatments are not consistent between the two applications at the boundary crossing. This is evident in the following instances:
 - At the crossing of the Main Drain, centrelines of continuing roads do not match between the two applications
 - West Byron Road 06 and Harvest Estate 'Road 08' junction the subject application shows a roundabout and the neighbouring development shows no connection at all.

The large number of inconsistencies between the plans for the subject development and the neighbouring development at points where it is critical that the designs match or are at least close to matching indicates a non-compliance with Byron Shire Council DCP 214 Chapter E8 for staging and Chapter B3 for provision

of services. The inconsistency of the road design between the two adjoining sites also creates orderly development issues, hence Byron Shire DCP 2014 E8 Section E8.10.1 Objective 1 to 'Enable the orderly development of the site' is not met.

- Obyside Shire Council DCP 2014 Chapter E8 Section E8.10.2 (7) requires that for vacant land lot R3 'small lot' subdivision that access be provided by way of a rear lane, secondary street or reciprocal right of way, and that where 4 or more small lots are proposed in a street section that the street be provided with nose-in or 45 degree parking across the frontage of those lots. Neither of these provisions looks to be applied in areas of the R3 zoning. The applicant has also failed to address the related waste collection in the R3 zoned areas where such parking provisions are provided as required by the DCP.
- Section D1.21 of the NSW Development Design Specification D1 Geometric Road Design (Urban and Rural) sets a target of 95% of the potential dwellings being within 400m of public transport access. The 'Traffic and Transport Report West Byron Urban Release Area' provided by Veitch Lister Consulting dated October 2017 provides Figure 3-4 showing that the entire West Byron subject development area is within 400m of a proposed bus stop except for Stages 7 and 8, which combined provide a proposed 54 lots which is approx. 15% of the proposed residential lots in this development application. The bus stop locations provided in Figure 3-4 show two of the three nominated bus stops within the adjoining development, where this is no certainty as to the bus stop locations. The bus stop locations are currently non-compliant with Section D1.21 referenced above, however bus stop locations are a design matter that could be conditioned in a consent.
- The Byron Shire DCP 2014 Chapter B3 Section B3.2.1.7 addresses road access to developments fronting or relying on access from a Council controlled road and specifies that construction or upgrade of the road for safety, amenity or accommodation of additional traffic generated by the development is applicable. This is directly relatable to the upgrade of Ewingsdale Road which provides access to the proposed development. The provision of two lanes in each direction on Ewingsdale Road between the proposed roundabout at Road 05/ Ewingsdale Rd intersection and the newly constructed Ewingsdale Road/ Bayshore Drive roundabout is considered reasonable upgrade to address this section of the DCP. The engineering plans and supporting reports do not address this section of the DCP or nominate any works on Ewingsdale Road beyond the roundabout which provides access to the site.
- The road design fronting lots 74 and 75 ends in a dead-end road. As noted previous, the Byron Shire DCP 2014 Chapter D6 Section D6.3.3 (7) requires that manoeuvring areas are provided at the ends of roads and this has not been provided in this area.
- A number of road sag vertical curves are shown as 15m, which is less than the required minimum vertical curve of 25 m from the NSW Development Design Specification D1 Geometric Road Design (Urban and Rural) Table D1.3. Vertical curves are required as the change in grade is > 1%. Any Collector Roads are to have a minimum sag vertical curve of is 35m (not including at intersection junctions). This matter is conditionable, however compliance with such will change the concept road design.
- The Byron Shire DCP 2014 Chapter E8 Section E8.10.6 notes that footpaths are to be provided on one side of Access Roads and both sides of Local, Collector and Distributor Roads. As the proposed road formations do not comply with the DCP standard road formations and the drawings do not label each road as a certain road 'type', the proposed footpath arrangement cannot be assessed for compliance, hence there is no evidence of compliance with the referenced DCP clause.
- The engineering plans show a 'typical swale section' for the case that the applicant proposes is a 'perimeter road'. There is no indication on the plans which roads are considered 'perimeter roads' and the stormwater infrastructure plans show many roads on the permitter of the residential subdivision, some with and some without swales.

- The applicant has failed to submit a suitable model to show compliance with the hydrological and hydraulic requirements of the NSW Development Design Specification Chapter D5 (Stormwater Drainage Design). Without such, design aspects such as those listed below cannot be assessed for compliance with Council stormwater requirements:
 - Input parameters (catchment areas, rainfall data, ground conditions)
 - Local flooding particularly due to the proposed low road grades (typically 0.5%)
 - Main Drain flow capacity/ velocity/ blockage factors
 - Freeboard afforded to the Main Drain crossing along Road 05
 - Overland flow paths
 - Upstream drainage infrastructure allowances

Without a suitable model the concept drainage design cannot be properly assessed.

- As well as the modelling required in above, a corresponding drainage catchment plan showing overland flow paths and proposed drainage pipes has not been provided and is required as per the NSW Development Design Specification D5 Section D5.22. The sub-catchment plan provided in the Stormwater Management Strategy (SMS) by Australian Wetlands Consulting dated August 2017 does not appear to correlate with the proposed stormwater layout shown within the provided engineering plan.
- The SMS does not provide details as to whether the existing Main Drain has the capacity for the additional flows generated from the developed site. Further to this, the engineering plans show one cross-section of the Main Drain with what looks to be a water level of RL 2.3. It is not clear what this water level represents in terms of a particular storm event, however is should be noted that the location of the cross-section shown in the figure corresponds with 'Reporting Location 7' in the BMT WBM 'West Byron Flood Impact Assessment' (Document R.B22567.000.01.docx) Revision 1 dated 31/10/2017, which shows that the 100-year flood level at this location in the pre-developed scenario (current climate condition) is RL 2.60 2.72 (depending on upgrade of Ewingsdale Road) and in the post-developed case is RL 2.59 2.74 (depending on upgrade of Ewingsdale Road). According to the figure provided in the plans, flood water levels above RL 2.60 would result in a breach of the Main Drain bank which is contrary to the NSW Development Design Specification D5.13 (2) which requires that major flows are to be maintained within the drain. Again, without a suitable model the concept drainage design cannot be properly assessed.
- The NSW Development Design Specification Chapter D5 Section D5.09 notes that the maximum spacing of pits where the stormwater pipes are <1200mm is 100m. There are several noncompliances to this pit spacing. This non-compliance could be addressed with a condition.

4.	Stormwater Management (Byron Shire DCP 2014 Chapter E8, Byron Shire DCP 2014 Chapter D6, Byron Shire DCP 2014 Chapter B3)							
		Satisfactory	\boxtimes	Unsatisfactory		Not applicable		
	Comn	nents:						

Byron Shire DCP 2014 Chapter E8 Section E8.10.4.1 shows the objectives of the Stormwater Management Section of the DCP to be:

Objectives

- 1. To facilitate the disposal of stormwater in a sustainable manner.
- 2. To maintain and improve the quality of water entering Belongil Creek.
- 3. To ensure groundwater levels are considered in the management of stormwater.

Byron Shire DCP 2014 Chapter E8 Section E8.10.4.1 (d) as well as Byron Shire DCP 2014 Chapter B3 Section B3.2.3.3 (c) requires that applications must show that all stormwater outlets are provided with a

lawful point of discharge. Much of the stormwater for the development is discharged into the Main Drain, and satisfactory consent from the asset owner to receive stormwater has not been received.

Discharge of stormwater is also shown onto proposed residual lots 392, 396, 397, 398 and 399 on the engineering plans. These proposed residual lots are not watercourses, public drainage or easements and the concept looks to be to allow the water to flow according to the topography of the site, and potentially onto and over adjoining sites. The applicant has not demonstrated that each point of stormwater discharge is provided with a legal point of discharge.

Further to above, rainfall over the area bound by proposed Roads 16, 23, 27 and Fire Access No.1 will be landlocked with no escape route. This area has not been shown to be provided with a legal point of discharge.

The Main Drain is shown to receive much of the flows from the proposed development. Sufficient information on the existing form of the Main Drain by way of longitudinal and cross sections, as well as details on the required upgrade works to the Main Drain have not been provided in any detail and are required as per Byron Shire DCP 2014 Chapter E8 Section E8.10.1 (h) and E8.10.4.1 (e).

Byron Shire Council DCP 2014 Chapter B3 Section B3.2.3.6 (b)(i) notes that residential, commercial and industrial developments require on-site detention (OSD). In this same section, Part (c) (i) to (vii) lists the instances where OSD is not required. In the Engineering Assessment provided by ACOR Consultants (Document No: NE 160352 R05 – Issue 5), Section 6 relating to stormwater notes that:

6.7 Stormwater detention is not required because there are no under capacity downstream drainage systems affected. Discharge is spread, dissipated and dispersed directly to the non-urban areas, mirroring the existing situation. This is in conformance with BSC NR-LG Development Design Specification D5 Stormwater Drainage Design D5.16.

Part (c) (vi) of the referenced DCP does note that OSD is not required where dispersion or infiltration is used as the means of stormwater discharge from the site. For the applicant to rely on the infiltration and dispersion of stormwater up to the major storm event (100-year ARI) to show that the downstream areas have capacity to handle this stormwater (hence are not under capacity) and avoid OSD, supporting calculations and geotechnical data should be provided to conclusively show that these methods can handle the infiltration required for up to the major storm event. It is expected that such data would include permeability tests, in-situ soil hydraulic conductivity tests and borehole logs of the downstream area – none of which have been provided to support the stormwater management concept.

The submitted SMS notes in Table 5-3 the area of infiltration/ dispersion required for each catchment to adequately disperse and infiltrate the runoff from the 50-year rainfall event. The engineering plans submitted show no evidence of achieving these infiltration/ dispersion area targets within each catchment, and more importantly Council's stormwater policy requires concept designs address the 100-year rainfall event (major event) not the 50-year rainfall event.

Alternatively to infiltration and dispersion, on-site detention can be avoided where an engineer undertakes a detailed analysis of the entire catchment by a time-area model and demonstrates that the provision of detention on the subject property, including consideration of the cumulative effect of detention provision across the catchment, will provide no benefit to any downstream drainage system for all storm frequencies up to 100-year ARI. If this approach is pursued, such study and reporting would be required to address all downstream drainage systems including the Belongil Creek which is an intermittently closed and open lagoon/ lake (ICOLL) rather than a permanently open water body discharging to the ocean. No such study has been provided.

Council document 'Handbook of Stormwater Drainage Design D5 – Stormwater Drainage Design notes in Part 1 (12) "Works which may impact on the quality and quantity of stormwater runoff discharging from a development site requires the preparation and submission for approval by the local government authority, of a SWMP that demonstrates how post-development flow volumes and stormwater quality are controlled to pre-development conditions by achieving neutral or beneficial effect (NorBE) on the natural environment and receiving constructed system, waters or wetlands."

There has been no calculations or hydrological/ hydraulic model submitted nor does the stormwater management strategy address the pre- and post- developed flow rates, demonstrating the achievement of neutral or beneficial effect on the natural environment and receiving constructed system, waters or wetlands. As such the requirements of Byron Shire Council DCP 2014 Chapter B3 Section B3.2.3.6 and Council's Handbook of Stormwater Drainage Design D5 have not been met, and the provisions of such are not considered to be conditionable aspects.

Byron Shire Council DCP 2014 Chapter B3 Section B3.2.3.7 (b) notes that "Applications for subdivisions and developments involving an area of land greater than 2,500m² must provide measures to address the "key" pollutants in accordance with Table B3.2 for all stormwater flows up to 25% of the 1-year ARI peak flow from the development site"

Table B3.2 - Pollutants and Retention Criteria

Pollutant / Issue	Retention Criteria
Litter	70% of average annual load greater than 5mm.
Coarse Sediment	80% of average annual load for particles 0.5mm
	or less.
Fine Particles	50% of average annual load for particles 0.1mm
	or less.
Total Phosphorous	45% of average annual load.
Total Nitrogen	45% of average annual load.
Hydrocarbons, motor fuels, oils & grease	90% of average annual load.

The development proposal includes stormwater management by way of bio-retention swales which are described in the SMS and shown in the engineering plans. The SMS does address the matter of pollutant loads by way of providing MUSIC model (industry standard software for stormwater quality treatment analysis) results, however applications relying on software modelling of this sort are required to submit the model for assessment and such model has not been submitted for assessment.

The SMS shows that in some of the proposed catchments the swales provided on the plans are required to be replaced or accompanied by bio-retention basins to make up the shortfall of water quality treatment area for the said catchment. The engineering plans do not show these basins or nominate areas for such, which is inconsistent with the modelling results and SMS.

The engineering drawings submitted show that to construct at least some of the swales, there is a cut depth required of up 1.5m, similarly there are stormwater dispersion areas at outlets shown to be 500mm deep. The water table has been shown in the provided supporting geotechnical report Shaw:Urquhart 'Geotechnical Investigation for proposed West Byron Development Ewingsdale Road, Byron Bay' Document 171076/1-B dated 12 September 2017 as being as high as 200mm below existing surface levels. With such high groundwater it is unclear how swales and dispersion areas will function as they could be soaked by the groundwater.

Without confidence of a working concept for stormwater quality treatment the application fails to address the stormwater quality requirements of the various DCP's mentioned above, in particular Byron Shire DCP 2014 Chapter E8 Section E8.10.4.

	5.	Earthworks (Byron Shire LEF	P 1988 F	Part 4 Division 2 CI 98	B, Byroi	n Shire DCP 2014 Chapter E8)
		Satisfactory	\boxtimes	Unsatisfactory		Not applicable
Coi	mm	ents:				

The application proposes to import a large amount of fill, noted as 329,500m³ in the Statement of Environmental Effects, to the site to lift the developable area above the flood level and provide adequate clearance (freeboard) from this flood level to roads and residential land.

Due to the large amount of fill required to be imported to the site to lift the development area above the flood level, there are existing open drains and flow paths that will be affected by the earthworks. Byron Shire LEP 1988 Part 4 Division 2 Cl 98B (3) notes that 'In deciding whether to grant development consent for earthworks (or for development involving ancillary earthworks), the consent authority must consider the following matters'. Sub-part (a) lists 'the likely disruption of, or any detrimental effect on, drainage patterns

and soil stability in the locality of the development. The engineering plans provided show no redirection of upstream flows or catch drains at batter toes to address these flows, which is contrary to the requirements of Clause 98B of the LEP. This is of concern with regard to the flows expected to come from Ewingsdale Road and north of this, and there is no information provided in the plans to suggest that the stormwater from this catchment has been accounted for and addressed appropriately.

The engineering plans provided include a 'Detailed Site Survey Plan' which shows an open stormwater channel/ swale which runs south from the west of the intersection of Bayshore Drive and Ewingsdale Road and into the area of proposed Stage 11 works. Stage 11 is shown to be filled with up to 3m of imported material and will block this open stormwater channel/ swale. No plans or supporting calculations have been provided to show how the water from this channel/ swale is redirected appropriately.

As the earthworks for the subdivision are to be staged there will be an ongoing requirement for temporary catch drains and other similar means to re-direct/ re-route upstream waters which are directed to the toe of fill batters for each stage. The Engineering Assessment provided by ACOR Consultants (Document No: NE 160352 R05 – Issue 5), aims to address this matter by noting in Section 11.3 'Earthworks filling will be undertaken to the adopted staging so that stormwater drainage is not impeded. Such catch drains have not been detailed or noted in the engineering plans or supporting reports, which is further example of unsatisfactorily addressing this LEP requirement.

Byron Shire LEP 1988 Part 4 Division 2 CI 98B (j) notes the requirement to consider 'any appropriate measures proposed to avoid, minimise or mitigate the impacts of the development'. As noted in the Traffic section of this report the additional truck movements on Ewingsdale Road as part of the fill operations on site will have a significant impact on the traffic on this road and this matter has not been addressed by the applicant.

There are several earth batters shown in the engineering plans to be constructed on land which is not part of the subject application. There is no indication that the appropriate landowner has provided consent for such batters on their land and this is also required.

6.	Geotechnical (Byron Shire DCP 2014 Chapter D6)						
	Satisfactory		Unsatisfactory		Not applicable		

Comments:

The Shaw:Urquhart 'Geotechnical Investigation for proposed West Byron Development Ewingsdale Road, Byron Bay' Document 171076/1-B dated 12 September 2017 estimates that the factor of safety of the slope face of the existing drain traversing the site (assumed to be the Main Drain) are in the order of 0.9 – 1.0. This is concerning in the existing case and cause for greater concern as the drains are expected to experience increase flows as part of the development. There are no recommended actions listed in the geotechnical study, and the Engineering Assessment provided by ACOR Consultants (Document No: NE 160352 R05 – Issue 5) is silent on the matter. The plans show no definitive works within the Main Drain, but it is expected that if the development were to be approved that the Main Drain would undergo modifications as required by The Byron Shire DCP Chapter E8 Section E8.10.4. The engineering assessment and geotechnical investigation noted above fail to provide recommendations on improving slope stability as part of the required works within the Main Drain, and these stabilisation works methodology would form the subject of a condition of consent in any future approval.

The geotechnical report referenced above notes that the factor of safety increases to >2.0 at the location 1.0m behind the excavation face of the Main Drain slope batter.

The submitted Geotechnical investigation report introduces a sufficient level of concern relating to the insitu conditions. As a result, it is anticipated that a greater amount of earthworks than the estimated import of 329,500m³ of fill may be required to prepare the site. A significant amount of unsuitable in-situ material may need to be removed before any general and structural fill can be imported and compacted. Alternatively, a structural / drainage layer may be adopted instead of unsuitable material removal and filling occur over the top of this drainage / structural layer. Such conditions may either result in a larger than expected level of construction traffic and may reasonably impact the final earthworks finished surface level

if a drainage / structural layer is introduced. Therefore, typical concept level section details and cross sections indicating preliminary profiles are required as part of the application assessment and these have not been provided.

The submitted Engineering Assessment by ACOR Consultants (Document No: NE 160352 R05 – Issue 5) does not include a section on the Geotechnical conditions of the site to tie in the findings and recommendations of the Geotechnical investigation report with the context of the project. This is required as the geotechnical constraints of the site will affect the earthworks and subsequently the short and long-term drainage patterns that the earthworks dictate.

7.	Flooding (Byron Shire DCP Council DCP 2014 C2)	2014 C	hapter E8, Byron Shir	e DCP 2	2014 Chapter D5, Byron Shire
\boxtimes	Satisfactory		Unsatisfactory		Not applicable
Comi	ments:				

The subject site is flood prone land in its existing condition, experiencing inundation to various levels as the Belongil Creek waters rise. The submitted flood impact assessment by BMT WBM dated 31 October 2017 shows that in as frequent as the 5-year rainfall event parts of the site experience inundation. As part of the proposed development, the areas of residential subdivision and road system are to be raised to be above the 100-year flood level and provide for the required freeboard. The existing peak flood level in the 100-year flood event is described to be at its highest 3.18m AHD in one location.

Byron Shire DCP 2014 Chapter E8 Section E8.10.8.1 lists the objectives of the DCP in regard to flooding as:

- 1. Minimise the flood risk to life and property associated with the use of land.
- 2. Allow development on land that is compatible with the land's flood hazard, taking into account potential changes as a result of climate change.
- 3. Avoid significant adverse impacts on flood behaviour and the environment.
- 4. Ensure that development does not have a significant impact on pre-development flood levels and flows.

Council's DCP indicates that Council will not consent to any development on flood liable land unless there is sufficient area on that land above the 1% AEP flood level on which to carry out the development.

The flood impact assessment submitted by the applicant provides information on various flood events:

- o Existing case with no Ewingsdale Road upgrade
- Existing case with Ewingsdale Road upgrade
- o Developed case with no Ewingsdale Road upgrade
- Developed case with Ewingsdale Road upgrade
- o Impact of the development on the flood behaviour in the 5, 10, 20, 50 and 100-year flood events
- Climate change effect in the 100-year flood event
- Climate change sensitivity in the 100-year flood event

Of the numerous report conclusions, the following are generally considered agreeable:

- o No adverse impacts on peak flood levels in the developed case for all events including the 1% AEP
- For Council's standard 1% AEP event (i.e. combining rainfall and ocean storm dominated events) for the current climate, 2050/2100 climate events and sensitivity tests, impacts were below 0.01m for the adjacent floodplain/wetland;
- The 1% AEP 2100 climate, sensitivity test 2 (2100 climate with 30% increase in rainfall) and sensitivity scenario 3 (sensitivity test 2 coinciding with an ocean storm surge event) are predicted to produce greater flood extents beyond the 1% AEP current climate event, however impacts are at or below 0.01 m;
- There is no significant change to the peak velocities across the development site and the adjacent floodplain across the modelled events;
- o The development pad is well above all modelled peak flood levels with localised

- areas of impact due only to the fact that the model does not contain site drainage for the development
- The post-developed flood levels within the Main Drain will be 3.2-3.3 AHD, and outside the Main Drain are <2.5 AHD

The flood impact assessment shows figures of flood inundation up to the Probable Maximum Flood in the pre and post-developed conditions in Figures A-11 and B-11. Secondary/ alternate access provisions for emergency (such as flood evacuation) have not been provided as noted in the 'Access' section of this report, and it is expected that any future consent for approval would require secondary/ alternate access via proposed Road 03 or otherwise. In any future consent an Operational Environmental Management Plan (OEMP) would be conditioned to be submitted prior to issue of CC, and this report would be required to include flood evacuation routes and processes.

The flood impact assessment has been accepted as addressing the relevant 'General Assessment Criteria' in the Byron Shire Council DCP 2014 C2 Section C2.2.

The flood reporting does not include a figure to show the drains that have been modelled in the flood assessment, including the Ewingsdale Road upgrade drainage systems. Any future consent would require conditions to this affect. Similarly, any future consent would include a condition requiring the applicant to submit engineering plans that show the extent of the 2100 flood planning level (pre- and post-development) as shown in the flood impact assessment provided, in order to confirm appropriate earthworks levels for protection of residential lots and roadside infrastructure (swales).

8.	Other Engineering Matters			
	Satisfactory	\boxtimes	Unsatisfactory	Not applicable
Comn	nents:			

The engineering plans include a figure titled 'Acoustic Mound and Utilities Allocations Section' which shows the Ewingsdale Road verge interaction with the property boundary. The drawing in inconsistent with the Byron Shire DCP 214 Chapter E8 Figure E8.11, as it does not show the required acoustic wall and landscape buffer.

As part of the external referral to the NSW Rural Fire Service (RFS), conditions were provided from this external authority relating to the development. The RFS conditions call for, amongst other things, the areas noted as BAL-FZ and BAL-40 in Figure 12 of the 'Bushfire Threat Assessment' provided by Bushfire Planning Australia (report dated November 2017) to be managed as an Inner Protection Area (IPA) in perpetuity. The engineering plans show that there will be vegetated swales within these areas required to be managed as IPA's and the suitability of the swale vegetation and the fire risk it presents has not been addressed by the applicant.

As part of the external referral to the NSW Office of Environment and Heritage (OEH), comments were provided on 19 January 2018 which recommended that the proposal be 'redesigned to avoid any intrusion into land subject to E zones and the prescribed buffer zones in the Development Control Plan for ecologically sensitive values (SEPP 14, E zones, EEC and threatened species habitat)'. The engineering plans provided shows significant drainage infrastructure within the E2 zoned proposed part lot 397, which is contrary to this OEH recommendation. The applicant has not addressed this OEH recommendation, and in doing so would require significant stormwater drainage redesign prohibiting this matter from being conditionable.

RECOMMENDATION

Not supported from an engineering viewpoint due to the reasons provided in this report

The application 10.2017.661.1 is recommended for refusal from an engineering viewpoint.

The access provisions for the development do not meet the requirement of Byron Shire DCP 2014 Chapter D6 which requires site access to be considered as part of the site design. Part of the development is not provided with public road access, there has been no consideration for emergency/ alternate access to the development, the proposed road levels at the tie in point with Ewingsdale Road are significantly different to the Ewingsdale Road upgrade design levels and construction access is shown to be through land which is not subject to the development with no evidence of consent provided.

The traffic impact assessment provided has not complied with the recommendation of the RMS to adopt Council's traffic volume forecasts for Ewingsdale Road nor the recommendation to provide a Construction Management Traffic Plan to address the expected volume of truck movements associated with fill importation. The traffic impact statements also fail to address the seasonal variations to traffic as per the Austroads Guide to Traffic Management or include the internal vehicle movements as per RMS Guide to Traffic Generating Development.

The proposed road design is inconsistent with Byron Shire DCP 2014 Chapter E8 with regards to road cross section design, addressing the access and parking requirements of the R3 zoned areas, fails to address the staging affectations of the subdivision and has not shown regard to the neighbouring development road layout and alignment.

The drainage design shown on the engineering plans is not supported by any hydrological and hydraulic modelling and does not provide for fundamental drainage assessment information such as consistent catchment plans and upstream drainage infrastructure, prohibiting these engineering aspects from assessment for compliance with the NSW Design Specifications D5 requirements. The drainage also relies on discharging into drainage infrastructure which the applicant has not shown has the capacity to receive such flows, or that the applicant is afforded with consent to discharge into, a non-compliance with Byron Shire DCP 2014 Chapter E8 Section E8.10.4.

The applicant has not met the stormwater management requirements of the Byron Shire DCP 2014 Chapter B3 which requires on-site detention be provided for the site, and the justification for not providing this is not supported by modelling or calculations to justify otherwise. The application fails to address Council's Handbook of Stormwater Drainage Design D10 in demonstrating 'how post-development flow volumes and stormwater quality are controlled to pre-development conditions by achieving neutral or beneficial effect (NorBE) on the natural environment and receiving constructed system, waters or wetlands'. Further to this there has been no stormwater quality treatment modelling provided for assessment, and the described concept for such in the Stormwater Management Strategy is inconsistent with the engineering plans. The stormwater quality treatment concept proposed by the applicant also looks to have a fundamental design flaw in that the depth of the infrastructure will be deeper than the groundwater levels, making infiltration through filter media difficult if not impossible. Furthermore, the applicant has not demonstrated that the various stormwater discharge locations are lawful points of discharge, as required by Byron Shire DCP 2014 Chapter E8 Section E8.10.4.

The earthworks proposed in the development do not satisfy the requirements of Byron Shire LEP 1988 Part 4 Division 2 Cl 98B, by way of not providing details on redirection of drainage patterns in the fill areas or considering the traffic impacts related to the fill importation procedures.

The application shows various works on land which are not subject to the proposal without providing consent for such works and is not in line with the conditions required by the RFS or the recommendations made by OEH.

The application as currently proposed cannot be approved with conditions, and hence should be refused.

BYRON SHIRE COUNCIL - MEMORANDUM

MEMO TO: Director Sustainable Environment and Economy

MEMO FROM: Principal Engineer - Systems Planning, Utilities

SUBJECT: Subdivision of Six (6) Lots into Three Hundred and Eighty Seven (387) Lots

consisting of Three Hundred and Seventy Eight (378) Residential Lots, Two (2) Business Lots, Two (2) Industrial Lots, One (1) Recreation Lot and Four (4)

Residual Lots

Development Application: 10.2017.661.1

LOT: 1 DP: 201626, LOT: 2 DP: 542178, LOT: 1 DP: 780242, LOT: 2 DP: 818403, LOT: 1 DP: 520063, LOT: 7020 DP: 1113431, Ewingsdale Road BYRON BAY, 394 Ewingsdale Road BYRON BAY, 412 Ewingsdale Road BYRON BAY, Melaleuca

Drive BYRON BAY, 364 Ewingsdale Road BYRON BAY

DATE: 5 December 2017

PLANNER: Luke Munro

FILE NO(s): PR21700, 151400, 21720, 152550, 114340, 241870, 10.2017.661.1 /#A2017/31106

Referral assessed by: Anjila Finan

Development History

88.2002.8.1 Parcels PR21700 & PR151400 Approved: 09/07/2010

Belongil Fields Conference and Holiday Centre (ET Assessment DM969650/A2017/14061)

10.2000.10.1 Parcel PR21720 Approved: 09/05/2001

Change of Use Factory Building

10.2000.519.1 Parcel PR114340 Approved Delegation:

Additions to Factory and Office – Chocolate Factory 14/11/2000

(Water only – not connected to sewer)

10.2017.201.1 **West Byron Subdivision** – Staged Development Application Approved Delegation:

Stage 1 – Villa World Subdivision of Nine (9) Lots into Two
 14/11/2000

Hundred and Ninety (290) Residential Lots in Nine (9) Sub-

Stages

Current Situation

Using the current day ET Policy 13/005, the existing bulk water, water and sewer entitlements are as follows, based on an allotment area of 1.143 Ha;

Table 1 - Calculation of Existing Water & Sewer ETs

Ref	Development Type	Standard	Quantity	ET Rate (ET/unit)		ET Load	
Ittel	Development Type	Unit	Quantity	Water	Sewer	Water	Sewer
5.6 / 6.1	PR21700 and PR151400 Belongil Fields Holiday Centre (ET Assessment DM969650/A2017/14061)	Site / Cabin	1	1	1	113.50	141.68
13.2	PR21720 Light Industrial (Factory Building) (DA 10.2000.10.1) Connection to Water only	Floor Area m ²	2275	0.003	N/A	6.825	N/A
	PR152550 Currently no connection to Water or Sewer			N/A	N/A	N/A	N/A
13.2	PR21720 Light Industrial (Factory Building -	Floor Area m ²	394.65	0.003	N/A	1.184	N/A
2.3	Chocolate) & Residence Connection to Water only	Lot	1	1.20	N/A	1.20	N/A
	PR241870 Currently no connection to Water or Sewer (Crown Land)			N/A	N/A	N/A	N/A
					TOTAL	122.709	141.680

Therefore, the existing ET entitlement for this property is:

- 122.71 ET for Water
- 122.71 ET Bulk Water;
- 141.68 ET for Sewer.

Proposed Development

Subdivision of Six (6) Lots into Three Hundred and Eighty Seven (387) Lots consisting of Three Hundred and Seventy Eight (378) Residential Lots, Two (2) Business Lots, Two (2) Industrial Lots, One (1) Recreation Lot and Four (4) Residual Lots.

Note: Where development intensity has not been defined the ET load has been designated as Equivalent Tenement Policy (13/005) – Category 1 - New Sub-division - Intensity not Defined. This includes:

- Community title (R3) lots (including lots with mixed low and medium density development designations, R2 & R3)
- Commercial (B1) lots
- Light industrial (IND2) lots.

All low density (R2) lots have been designated under Equivalent Tenement Policy (13/005) – Category 2 – Single Residential Lots.

The proposed development will generate the following load:

Table 2 - Calculation of Proposed Development Water & Sewer ETs

Ref	Development Type	Standard	Quantity		ET Rate (ET/unit)		ET Load	
		Unit	,	Water	Sewer	Water	Sewer	
Stage	1							
1.1	Community Title - Lots 107-123 & 131- 137	Lot	24	1.00	1.00	24.00	24.00	
1.2	Commercial (Business Centre) - Lot 394	Lot	1	1.00	1.00	1.00	1.00	
1.2	Commercial (Business Centre) - Lot 395	Lot	1	1.00	1.00	1.00	1.00	
Stage	2							
1.1	Community Title - Lots 124-130, 138-182	Lot	52	1.00	1.00	52.00	52.00	
Stage	3							
1.1	Community Title - Lots 183-205	Lot	23	1.00	1.00	23.00	23.00	
Stage	4							
1.1	Community Title - Lots 206-220 & 231- 253	Lot	38	1.00	1.00	38.00	38.00	
Stage			_					
1.1	Community Title - Lots 221-223 & 230	Lot	4	1.00	1.00	4.00	4.00	
2.1	Standard Residential Lots (450m² to 2,000m²) - Lots 224-229 & 261-264	Lot	10	1.00	1.00	10.00	10.00	
12.7	Recreation Zone (RE1) - Lot 393 (8,896m ²) No Irrigation	N/A	1	N/A	N/A	N/A	N/A	
Stage								
1.1	Community Title - Lots 254-257 & 273-275, 294 & 312-316	Lot	13	1.00	1.00	13.00	13.00	
2.1	Standard Residential Lots (450m ² to 2,000m ²) - Lots 258-260, 268-272, 276-280, 288-293 & 295-311	Lot	36	1.00	1.00	36.00	36.00	
2.2	Small Residential Lots (<450m²) - Lots 265-267 & 281-287	Lot	10	0.80	1.00	8.00	10.00	
Stage								
2.1	Standard Residential Lots (450m² to 2,000m²) - Lots 338-371 & 381-382	Lot	36	1.00	1.00	36.00	36.00	
Stage								
2.1	Standard Residential Lots (450m² to 2,000m²) - Lots 372-380 & 383-391	Lot	18	1.00	1.00	18.00	18.00	
Stage								
2.1	Standard Residential Lots (450m ² to 2,000m ²) - Lots 317-337	Lot	21	1.00	1.00	21.00	21.00	
2.3	Large Residential Lots (>2,000m ²) - Lots 16-17 & 397	Lot	3	1.20	1.00	3.60	3.00	
Stage								
1.1	Community Title - Lots 61-106	Lot	46	1.00	1.00	46.00	46.00	
Stage								
2.3	Large Residential Lots (>2,000m²) - Lot 18	Lot	1	1.20	1.00	1.20	1.00	
2.1	Standard Residential Lots (450m ² to 2,000m ²) - Lots 19-60	Lot	42	1.00	1.00	42.00	42.00	
1.1	Community Title - Lot 400	Lot	1	1.00	1.00	1.00	1.00	
1.3	Light Industrial - Lot 401	Gross Ha	0.5485	15.00	15.00	8.23	8.23	
1.3	Light Industrial - Lot 402	Gross Ha	0.8437	15.00	15.00	12.66	12.66	
Residi	ual Lots							

allowance applied Residual Lot 399 - Environmental			0.00		0.00	
Residual Lot 398 - Environmental Management designations - No ET	Lot	1	0.00	0.00	0.00	0.00
Residual Lot 396 - Environmental Conservation designations - No ET allowance applied	Lot	1	0.00	0.00	0.00	0.00
Residual Lot 392 Mixed Environmental Management & Environmental Conservation, SEPP 14 Wetland designations - No ET allowance applied	Lot	1	0.00	0.00	0.00	0.00

Table 3 - Calculation of Additional Water & Sewer ET Load

	Water	Bulk Water	Sewer
Existing ET Entitlements (Table 1)	122.71	122.71	141.68
Proposed Development ET loading (Table 2)	399.68	399.68	400.88
Additional ET loading	276.97	276.97	259.20

Therefore, this development generates an additional load onto Councils Water, Bulk Water and Sewer System

Council requires Payment of Developer Servicing Charges (prior to issue of a construction/subdivision certificate) of:

- **276.97 ET** for Water
- 276.97 ET Bulk Water; and
- **259.20 ET** for Sewer.

Conditions required

The following conditions will need to be complied with prior to issue of a Construction Certificate for subdivision works

Engineering Construction Plans

Three (3) copies of engineering construction plans and specifications must accompany the construction certificate application. Such plans are to provide for the following works in accordance with Council's current Design and Construction Manuals and Specifications. The submission of the design plans must be accompanied by Northern Rivers Local Government Design and Construction Manual Design Checklist in accordance with Specification DQS:

Sewerage and Water Mains

An approval is to be obtained under Section 68 of the Local Government Act 1993 to carry out water supply and sewerage works.

Sewerage and water mains are to be extended to service all residential allotments in the subdivision. All Council gravity sewerage mains are to be a minimum 150 mm diameter and water mains are a minimum 100mm diameter.

A water trunk main of 250mm diameter is to be designed to service the development from the 300mm Trunk Main located along Ewingsdale Road linking through to the adjacent development to the east and ultimately connect to the existing 400mm diameter Trunk Main running from Coopers Shoot. No water service tapping will be permitted on ≥ 250mm diameter trunk mains, all residential service tapping are restricted to water reticulations mains between 100mm diameter and <250mm in diameter.

Water supply and sewerage works are to comply with, as a minimum, Council's latest Standards and Policies including but not limited to:

- Development Design and Construction Manuals, Northern Rivers Local Government, 2009;
- Development Servicing Plan for Water Supply Services, Byron Shire Council, 2011;
- Development Servicing Plan for Sewerage Services, Byron Shire Council, 2011;
- Fire Flow Design Guidelines, Water Directorate, 2011;
- Water and Sewer Equivalent Tenement Policy (13/005), Byron Shire Council, 2013;
- Pressure Sewerage Policy (12/014), Byron Shire Council, 2012.
- Private Sewer Pump Station Policy (12/015), Byron Shire Council, 2012.

The following conditions must be complied with prior to commencement of subdivision works

Metered Stand Pipe required

Prior to the commencement of any civil works requiring water from Council water main, a metered Stand Pipe for temporary water supply must be supplied and installed by Council. Contact Council's Infrastructure Services – Utilities department to arrange for this requirement.

Note: Council may impose on-the-spot fines for non-compliance with this condition.

The following conditions must be complied with during construction of subdivision works

Council Specification

All works to be constructed to at least the minimum requirements of the "Northern Rivers Local Government Design and Construction Manual"

- Development Design and Construction Manuals, Northern Rivers Local Government, 2009;
- Development Servicing Plan for Water Supply Services, Byron Shire Council, 2011;
- Development Servicing Plan for Sewerage Services, Byron Shire Council, 2011;
- Fire Flow Design Guidelines, Water Directorate, 2011;
- Water and Sewer Equivalent Tenement Policy (13/005), Byron Shire Council, 2013;
- Pressure Sewerage Policy (12/014), Byron Shire Council, 2012.
- Private Sewer Pump Station Policy (12/015), Byron Shire Council, 2012.

The following conditions must be complied with prior to the issue of a subdivision certificate

Plan of Subdivision

An Administration Sheet (Original plus one (1) copy) and four (4) copies of the plan of subdivision, in accordance with the approved, are to be submitted with the application for a subdivision certificate. The location of all buildings and/or other permanent improvements including fences and internal access driveways/roads must be indicated on 1 of the copies.

Section 88B Instrument

A Section 88B Instrument and one (1) copy are to be submitted with the application for a subdivision certificate. The final plan of subdivision and accompanying Section 88B Instrument are to provide for:

a) Sewer Easements

The creation of easements for drainage of sewage over all sewage pipelines and structures located within the proposed allotments in accordance with Council's Building Over Pipelines Policy 4.20.

b) Water Supply Easements

The creation of easements for water supply pipelines and structures located within the proposed allotments in accordance with Council's Building Over Pipelines Policy 4.20.

Certificates for engineering works

The submission of all test certificates, owners manuals, warranties and operating instructions for civil works, mechanical and/or electrical plant, together with a certificate from a suitably qualified engineer certifying that all works have been constructed in accordance with the approved plans and Council's current "Northern Rivers Local Government Design and Construction Manuals and Specifications".

Works-As-Executed Plans

Following completion of works and prior to issue of the subdivision certificate, Work-as-Executed Drawings, together with a Work-As-Executed Certification Report, in accordance with Council's requirements are to be submitted to Council. Two categories of Work-as-Executed Drawings are to be submitted to Council, being Amended Design Work-as-Executed Drawings and Summary Work-as-Executed Drawings.

Amended Design Work-as-Executed Drawings, being certified copies of all approved design plans with as constructed departures, deletions and additions clearly noted and detailed on the plans, are to be submitted to Council in the following formats:-

- a) One (1) paper copy at the same scale and format as the approved design plans, but, marked appropriately for as constructed information and with original signatures; and
- b) An electronic copy of above in PDF format and provided to Council on CD, DVD or via email.

Summary Work-as-Executed Drawings are to be prepared on a background plan of lot layout and kerb lines with a set of separate plans for stormwater drainage, sewerage, water supply and site works. The site works drawing/s shall include the 1 in 100 year flood and flood planning level extents and levels, where relevant. Such drawings are to be submitted to Council in the following formats:-

- a) One (1) paper copy of each drawing with original signatures and in accordance with Council's requirements.
- b) Electronic copy of the above in AutoCAD DWG or DXF format and provided to Council on CD, DVD or via email. The AutoCAD (DWG or DXF) files are to be spatially referenced to MGA Zone 56.
- c) Electronic copy of above in PDF format and provided to Council on CD, DVD or via email.

Note: Council's requirements are detailed in Council's adopted engineering specifications, currently the Northern Rivers Local Government Development Design and Construction Manuals, and on Council's website.

CCTV Inspection and Report

A Closed Circuit T.V. ('CCTV') Inspection and Report, certified by a qualified engineer, is to be submitted with the application for a Subdivision Certificate for the following works:

a) Sewerage Reticulation.

Certificate for services within easements

The submission of a certificate from a registered surveyor certifying that all pipelines, structures, access driveways and/or services are located wholly within the relevant easements.

Water service and meter to be connected to each lot

A water service and water meter must be connected to all residential allotments in the subdivision using an approved backflow prevention device. It is the applicant's responsibility to engage a licensed plumber who shall liaise with council during this process.

Any new water service and meter will be at the applicants cost.

Certificate of Compliance – Water Management Act 2000

Water and sewer services are to be provided to the land in accordance with an approval granted under Section 68 of the Local Government Act 1993.

Payment of developer charges to Byron Shire Council for water supply and sewerage.

A copy of the Certificate of Compliance under Section 307 of the Water Management Act 2000 is to be obtained from Byron Shire Council prior to the issue of a Subdivision Certificate.

Application forms are available from Council's administration building or online at http://www.byron.nsw.gov.au/files/Forms/Section_305_Certificate.pdf to be submitted for a Certificate of Compliance.

Notes

Water payments under the Water Management Act 2000

Charges will be calculated based on the additional water and sewerage load that the proposed development generates, shown in Equivalent Tenements (ET) by the following table:

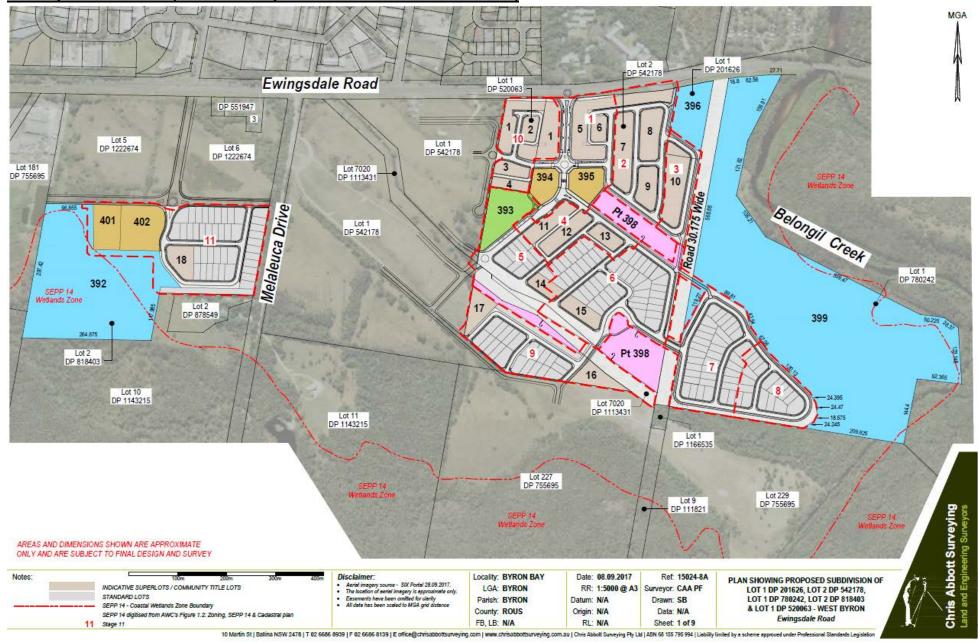
ADDITIONAL WATER & SEWER LOAD OF DEVELOPMENT (ET Policy No:13/005)

Water	276.97 ET
Bulk Water	276.97 ET
Sewer	259.20 ET

NB: Information regarding Development Servicing charges can be found on the Byron Shire Council website (http://www.byron.nsw.gov.au/development-contributions-plans-section-94-and-64). These charges will enable you to calculate the total contribution charges payable when you are ready to pay them. Developer charges will be calculated in accordance with the Development Servicing Plan applicable at the date of payment.

Anjila Finan				
Acting Principa	I Engineer -	Systems F	Planning,	Utilities

Lot Layout - Overview (detail of lot layout can be found in E2017/107588)



STAGE 1	STAGE 2			STAGE 3			STAGE 4			STAGE 5			STAGE 6			STAGE 7			STAGE 8			STAGE 9			STAGE 10	
LOT AREA-m ² ZONE	LOT AREA-m²	ZONE	LOT	AREA-m ²	ZONE	LOT	AREA-m ²	ZONE	LOT	AREA-m ²	ZONE	LOT	AREA-m ²	ZONE	LOT	AREA-m²	ZONE	LOT	AREA-m ²	ZONE	LOT	AREA-m²	ZONE	LOT	AREA-m²	ZONE
107 288 R3	124 342	R3	183	415	R3	206	446	R3	221	533	R2 R3	254	593	R3	338	628	R2	372	475	R2	16	3386	R2	61	314	R3
108 205 R3	125 353	R3	184	288	R3	207	211	R3	222	462	R2 R3	255	495	R3	339	464	R2	373	451	R2	17	3240	R2	62	204	R3
109 251 R3	126 363	R3	185	288	R3	208	257	R3	223	462	R2 R3	256	495	R2 R3	340	464	R2	374	452	R2	317	985	R2	63	204	R3
110 251 R3	127 361	R3	186	385	R3	209	243	R3	224	497	R2	257	495	R2 R3	341	525	R2	375	506	R2	318	582	R2	64	204	R3
111 205 R3 112 251 R3	128 352 129 342	R3 R3	187 188	401 307	R3 R3	210 211	232 231	R3 R3	225	840 485	R2 R2	258	495 495	R2 R2	342 343	478 478	R2 R2	376 377	593	R2	319 320	568 553	R2 R2	65 66	204 204	R3 R3
112 251 R3	130 792	R3	189	293	R3	212	235	R3	226	570	R2	259 260	495	R2	344	478	R2	378	596 528	R2 R2	321	693	R2	67	324	R3
114 400 R3	138 349	R3	190	286	R3	213	251	R3	228	462	R2	265	320	R2	345	497	R2	379	630	R2	322	693	R2	68	475	R3
115 328 R3	139 290	R3	191	286	R3	214	211	R3	229	462	R2	266	320	R2	346	575	R2	380	464	R2	323	553	R2	69	353	R3
116 328 R3	140 290	R3	192	286	R3	215	211	R3	230	529	R2 R3	267	443	R2	347	545	R2	383	772	R2	324	568	R2	70	353	R3
117 328 R3	141 290	R3	193	286	R3	216	259	R3	261	543	R2	268	531	R2	348	540	R2	384	523	R2	325	582	R2	71	353	R3
118 328 R3	142 290	R3	194	286	R3	217	259	R3	262	425	R2	269	495	R2	349	519	R2	385	487	R2	326	757	R2	72	353	R3
119 399 R3	143 290	R3	195	286	R3	218	211	R3	263	320	R2	270	495	R2	350	503	R2	386	485	R2	327	728	R2	73	350	R3
120 864 R3	144 290	R3	196	362	R3	219	211	R3	264	320	R2	271	495	R2	351	594	R2	387	464	R2	328	540	R2	74	505	R3
121 331 R3	145 290	R3	197	374	R3	220	259	R3	393	8896	RE1	272	528	R2	352	553	R2	388	1047	R2	329	499	R2	75	293	R3
122 330 R3	146 290	R3	198	286	R3	231	389	R2 R3				273	495	R2 R3	353	453	R2	389	710	R2	330	487	R2	76	293	R3
123 334 R3 131 330 R3	147 399 148 401	R3 R3	199 200	287 285	R3 R3	232 233	205 205	R3 R3				274 275	495 536	R2 R3	354 355	465 483	R2 R2	390 391	559 781	R2 R2	331 332	527 473	R2 R2	77 78	293 293	R3 R3
132 208 R3	149 290	R3	201	326	R3	234	205	R3				276	696	R2	356	492	R2	031	701	NZ.	333	634	R2	79	729	R3
133 208 R3	150 290	R3	202	301	R3	235	251	R3				277	507	R2	357	501	R2				334	477	R2	80	472	R3
134 208 R3	151 290	R3	203	310	R3	236	251	R3				278	557	R2	358	595	R2				335	512	R2	81	385	R3
135 208 R3	152 290	R3	204	319	R3	237	251	R3				279	551	R2	359	585	R2				336	574	R2	82	399	R3
136 208 R3	153 290	R3	205	438	R3	238	205	R3				280	580	R2	360	509	R2				337	858	R2	83	413	R3
137 361 R3	154 290	R3				239	205	R3				281	428	R2	361	507	R2				397	2764	R2	84	428	R3
394 3682 B1	155 290	R3				240	205	R3				282	320	R2	362	575	R2							85	586	R3
395 4390 B1	156 290	R3				241	251	R3				283	320	R2	363	479	R2							86	1194	R3
	157 290	R3				242	251	R3				284	320	R2	364	478	R2							87	252	R3
	158 318 159 372	R3 R3				243 244	251 251	R3 R3				285 286	320 320	R2 R2	365 366	478 479	R2 R2							88 89	205 281	R3 R3
	160 310	R3				245	361	R3				287	320	R2	367	463	R2							90	287	R3
	161 295	R3				246	409	R3				288	491	R2	368	500	R2							91	203	R3
	162 289	R3				247	211	R3				289	589	R2	369	500	R2							92	205	R3
	163 289	R3				248	211	R3				290	559	R2	370	598	R2							93	294	R3
	164 289	R3				249	243	R3				291	551	R2	371	665	R2							94	391	R3
	165 337	R3				250	243	R3				292	565	R2	381	464	R2							95	343	R3
	166 343	R3				251	211	R3				293	584	R2	382	534	R2							96	330	R3
	167 290	R3				252	211	R3				294	690	R2 R3										97	304	R3
	168 290	R3				253	382	R3				295	459	R2										98	280	R3
	169 337	R3										296	459	R2										99	261	R3 R3
	170 322 171 336	R3 R3										297 298	459 537	R2 R2										100	250 225	R3
	172 422	R3										299	598	R2										102	225	R3
	173 353	R3										300	528	R2										103	225	R3
	174 309	R3										301	471	R2										104	225	R3
	175 392	R3										302	502	R2										105	225	R3
	176 394	R3										303	597	R2										106	251	R3
	177 299	R3										304	719	R2												
	178 422	R3										305	527	R2												
	179 384	R3										306	462	R2												
	180 290 181 290	R3										307 308	462 528	R2 R2												
	181 290 182 334	R3 R3										309	462	R2												
												310	594	R2												
												311	588	R2												
												312	459	R2 R3												
												313	459	R2 R3												
												314	459	R2 R3												
												315	459	R2 R3												
												316	714	R3												

STAGE 11

LOT AREA-m² ZONE

2495 R2 E3

R2

R2 R2

R2

R2

R2

R2

R2

R2

R2

R2

R2

R2

R2

R2

R2

R2

R2

R2

R2

R2

R2

R2

R2

R2

R2

R2

R2

R2

R2

R2

R2 R2

R2

IN2

IN2

A Review and Ecological Assessment

Of

Development Application

DA10.2017.661.1

prepared for

Byron Shire Council

By

Mark Fitzgerald

Ecological Consultant

P.O. Box 237 Mullumbimby

NSW 2482

July 2018

DISCLAIMER

The following review and ecological assessment is based on: documents provided by Byron Shire Council, references provided within the text, field work in the location, and opinions of the author.

The review is limited to ecological matters, and to selected documents directly assessing the ecological aspects and impacts of the proposal. While documents reviewed here sometimes apply to the entire WBURA, the separate "Harvest/Villaworld DA (DA10.2017.201.1) is not specifically assessed in this review.

DOCUMENT REVIEW

VERSION	DATE	REVIEWER	SIGNED
1	11 July 2018	Sandy Pimm	
	·	-	Sadar

ACRONYMS

APZ Asset Protection Zone

BSC Byron Shire Council

BC Act NSW Biodiversity Conservation Act 2016

EPBC Act Federal Environment Protection and Biodiversity

Conservation Act 1999

SOEE Statement of Environmental Effects

WBURA West Byron Urban Release Area

GLOSSARY

Eutrophication Excessive richness of nutrients in a lake or other body

of water, frequently due to run-off from the land,

which causes a dense growth of plant life.

Philopatry the tendency of an organism to stay in or habitually

return to a particular area.

TABLE of CONTENTS

1.0 Introduction	7
1.1 Documents Reviewed	7
2.0 Review of the Ecological Documents	8
2.1 Annexure 8A: WBURA Threatened Species Management Plan	8
2.2 Review Summary: Threatened Species Management Plan	13
3.0 Annexure 8B: Koala Plan of Management	15
3.1 Review Summary: Koala Plan of Management	20
4.0 Annexure 8C: Vegetation Management Plan	20
4.1 Review Summary: Vegetation Management Plan	21
5.0 Annexure 8D: Flora and Fauna Assessment	23
5.1 Review Summary: Flora and Fauna Assessment	28
6.0 Annexure 8E: Biodiversity Conservation Management Plan	29
6.1 Review Summary: Biodiversity Conservation Management Plan	32
FIGURES	
Figure 1: Southern Myotis Myotis macropus records from OEH Bionet A	Atlas 14
TABLES	
Table 1: Applicability of the documents	7
Table 2: Threatened species recorded at the site	8
Table 3: Threatened Species Management Plan Review	9
Table 4: Koala Plan of Management Review	15
Table 5: Vegetation Management Plan Review	20
Table 6: Flora and Fauna Assessment Review	23
Table 7: Biodiversity Conservation Management Plan Review	29
APPENDICES	
Appendix A: Supplementary Material	35

EXECUTIVE SUMMARY

Principal issues associated with the ecological components of the DA include the failure to consistently consider the impacts of the entire WBURA development. The division of the proposal into two separate DAs confounds the ability to determine realistically the nature and extent of impacts of a range of key parameters, certain to produce impacts on the local ecosystem. These include the impacts on hydrology and water quality, both within the WBURA, and within the receiving environment of the nearby Belongil Creek estuary which is part of the Cape Byron Marine Park. Close proximity to SEPP 14 coastal wetlands increases the probability of off-site effects from the physical nature of the proposed development, including from extensive amounts of fill, but also the proximity of an urban residential landscape with ~670 residential lots proposed for the overall WBURA.

It is impossible, for example, to provide meaningful provisions for the management of threatened species over the entire site without considering in detail the impacts on threatened species of the other DA for the Harvest/Villaworld development.

The increased loading on the West Byron Sewage Treatment works of ~670 additional residential lots, and subsequent impacts on local hydrology is not considered in ecological impact assessment in the DA.

Normal patterns of residential behaviour include: dog ownership, gardening and lawns which will introduce ongoing and perpetual loading of water and nutrients, which are not adequately considered in the impact assessment. Sandy soils require more water to sustain lawns, fruit trees and gardens, and the existing high groundwater table will ensure continuing input of water and nutrients into groundwater. The unrestricted ownership of dogs and cats in the R & D site will unavoidably affect the fauna of surrounding habitats, as well as within the development area, and is contrary to provisions in the DCP. Peri-urban habitats around Byron Bay township are visibly affected by eutrophication, weeds and uncontrolled human ingress, and the WBURA development will inevitably produce similar off-site effects, including in the Belongil Creek estuary and in coastal SEPP 14 wetlands south of the site.

The profound ecological impacts of Ewingsdale Road are inadequately considered in assessment of impacts from the development. The increase in traffic movements and intensity from the proposed development will produce unavoidable and unmanageable impacts for fauna movements in the locality. The transformation of essentially rural land into an urban residential landscape will adversely affect the capacity of fauna to move safely in the location. The proposal to install dog or Koala exclusion fencing around the residential precinct in the R & D site will further restrict fauna movement, as will the proposed acoustic fencing along Ewingsdale Road, residential lot fences and other fencing proposed for the development.

Impacts on fauna are inadequately addressed in the DA. The proposed provision of artificial ponds to mitigate impacts for the state and federally listed Olongburra Frog/Wallum Sedge Frog is more likely to hasten its demise than to compensate for the loss of known habitat for the species. Local examples of artificial ponds provided for Wallum frog species demonstrated that the first frogs to colonise these sites are Cane Toads, followed by common local frog species, one of which is a reservoir for the Chytrid fungus (Stockwell 2011), which is listed as a key threat to the Wallum Sedge Frog. Local flooding will distribute fish, including the Plague Minnow, from local drains to these ponds, and to retention swales to ensure they remain unsuitable for the Wallum Sedge Frog.

The well-known small population paradigm or 'extinction vortex' clearly applies to the Wallum Sedge Frog populations of the development area, yet is not considered in the DA. Essentially small populations are critically at risk from the following cycle of decline: small (isolated) population leads to inbreeding; lower heterozygosity (genetic variation) and impacts of recessive alleles are reduced fecundity & increased mortality resulting in a further decline in population size, and more inbreeding.

The common tendency for philopatry or site fidelity to natal ponds in frogs is ignored.

While a Bushfire Risk Management Plan is provided in the DA it remains unclear to what extent native vegetation will be impacted by the need to provide and maintain Asset Protection Zones and fire trails for the development.

The consistent assurances within DA10.2017.661.1 of no adverse ecological impact, or of minor adverse impacts that can be easily managed, are contrary to the observable practical difficulties and failures to manage ecological impacts that affect coastal communities throughout northeastern NSW. The scale, nature and bulk of the development with 329 500m³ of unspecified fill, existing poor water quality in the main drain, and habitat loss are clearly inimical for local biodiversity, and will likely result in the extinction of at least one threatened fauna species, and the continuing degradation of both aquatic and terrestrial habitats.

Requirements in the DCP that existing groundwater levels and ph levels in the vicinity of Wallum Sedge Frog and Wallum Froglet habitats be maintained may be impossible to practically fulfil. If groundwater levels and ph become higher than pre-development regimes, it is unclear what practical and timely options are available, plausible and affordable to rectify these conditions over the life of the development. No such measures are provided in the DA.

Finally, the Assessments of Significance of impacts on threatened species required under the TSC Act & BC Act are incorrect, addressing impacts on species in the locality, rather than the likelihood of local population extinctions in the Subject Site or Study Area.

Ecological Review: DA 10.2017.661.1 P a g e | **6**

1.0 Introduction

Byron Shire Council has engaged Mark Fitzgerald Ecological Consultant to provide a review and ecological assessment of Development Application DA10.2017.661.1 (Site R & D West Byron).

1.1 Documents Reviewed

The following documents form part of a 3 volume Statement of Environmental Effects for Proposed Subdivision and Subdivision Works West Byron, prepared for West Byron by Darryl Anderson Consulting Planning Pty Ltd, Tweed Heads South, and dated November 2017.

Volume 1:

Annexure 8A: West Byron Urban Release Area Threatened Species Management Plan, February 2017

Volume 2:

Annexure 8B: Koala Plan of Management, October 2017

Annexure 8C: Vegetation Management Plan, February 2017

Annexure 8D: Flora and Fauna Assessment, October 2017

Annexure 8E: Biodiversity Conservation Management Plan, October 2017

All the above documents were prepared by Australian Wetlands Consulting Pty Ltd, for Byron Bay West Landholders Association.

Table 1: Applicability of the documents

Document	Applicability & extent
Threatened Species Management Plan	WBURA: 108ha
Koala Plan of Management	Site R & D 58ha
Vegetation Management Plan	WBURA: 108ha
Flora and Fauna Assessment	Site R & D 58ha
Biodiversity Conservation Management	WBURA: 108ha
Plan	

2.0 Review of the Ecological Documents

The ecological components of the DA are reviewed in the sequence in which they appear in the SOEE.

2.1 Annexure 8A: West Byron Urban Release Area Threatened Species Management Plan, February 2017

This plan prescribes management actions for threatened fauna species recorded at the overall WBURA site, and excludes Koalas, as a Koala Plan of Management is provided separately.

Species addressed are listed in the TSMP in the following table with their conservation status under the NSW *Threatened Species Conservation Act* 1995 and federal *Environment Protection and Biodiversity Act* 1999. Note that the TSC Act 1995 is now replaced by the NSW *Biodiversity Conservation Act* 2016.

Table 2: Threatened species recorded at the site in the TSMP. V = Vulnerable

Common Name	Scientific Name	TSC Act 1995	EPBC Act 1999
Flora			
Coolamon	Syzygium moorei	V	V
Fauna			
Black Bittern	Ixobrychus flavicollis	V	
Common Blossom Bat	Syconycteris australis	V	
Eastern Bentwing-bat	Miniopterus schreibersii oceanensis	V	
Eastern Long-eared Bat	Nyctophilus bifax	V	
Eastern Osprey	Pandion cristatus	V	
Greater Broad-nosed Bat	Scoteanax rueppelli	V	
Grey-headed Flying-fox	Pteropus poliocephalus	V	V
Koala	Phascolarctos cinereus	V	
Little Bentwing-bat	Miniopterus australis	V	
Masked Owl	Tyto novaehollandiae	V	
Olongburra Frog*	Litoria olongburensis	V	V
Wallum Froglet	Crinia tinnula	V	
Yellow-bellied Sheathtail	Saccolaimus flaviventris	V	
Bat			

Note: The Olongburra Frog *Litoria olongburensis* is also known as Wallum Sedge Frog.

Specific elements of the Threatened Species Management Plan (TSMP) are provided with responses in the following table. A review summary follows.

Table 3: Threatened Species Management Plan Review

Threatened Species Management Plan	Response
T C	
Threatened species selection Considers 13 threatened species recorded at the site	Usual practice is to assess all threatened species recorded within an area (Study Area) containing the site (Subject Site).
me sue	Using the NSW OEH Bionet Atlas search this is a 10km by 10km area with the site at its centre. This yields 64 threatened fauna species, some of which are likely to occur in the development area. See Appendix A for this list.
	There are 2 records in the Bionet Atlas, for the fishing bat (Southern Myotis) from the development site, but this species is not considered. See Figure 1.
	A suite of threatened wader species known from Belongil Creek which may be affected by increased human presence in the locality and by adverse impacts on water quality are also not considered.
Profiles Masked Owl	Earthworks proposed within 42ha of WBURA, therefore substantial loss of foraging habitat, species unlikely to forage
Foraging requirements are unlikely to be significantly restricted or affected by development	within developed residential area.
Olongburra Frog/Wallum Sedge Frog	Critical failure to acknowledge impacts of the loss of one known habitat area and population within the Harvest/Villaworld site for the remaining small population of this species in the east of the site.
Threats	Failure to identify existing and future threats from Plague Minnow <i>Gambusia</i>
Olongburra Frog/Wallum Sedge Frog	holbrooki: recorded from the main drain, and the serious implications of isolating a small population in the east of the site, and barrier effects from habitat loss.
Short Term Impacts	Ambiguous and contradictory. The reliance on "constructed habitat" is inadequate, and
Olongburra Frog/Wallum Sedge Frog	of doubtful utility given local experience

Two known habitat areas will be retained, but western habitat area will only be filled when constructed habitat within E zoned land is functional	with constructed ponds being occupied by Cane Toads, and by common frog species including a species which is known reservoir for Chytrid fungus, a Key Threat for the WSF.
Long term impacts	This is a dubious conclusion and obscures
Olongburra Frog/Wallum Sedge Frog Net gain of primary habitat by constructed	the loss of one population by filling, and the seriously threatening consequences of isolating the remaining very small population in an area with existing poor
habitat ponds within environmental zones	water quality and ongoing threats. The small population paradigm, though well precedented in ecology, is ignored.
	The common tendency for philopatry or site fidelity to natal ponds in frogs is ignored.
	See above.
Wallum Froglet	The reliance on "constructed habitat" is
	inadequate, and of highly doubtful utility
Net gain of primary habitat by constructed	given local experience with constructed
habitat ponds within environmental zones	ponds being occupied by Cane Toads, and by common frog species, including a
	species which is known reservoir for
	Chytrid fungus, a Key Threat for Wallum Frogs.
Koala	Inadequate and inaccurate. The proposed installation of an acoustic fence in
Targetted plantings of Swamp Mahogany,	Ewingsdale Road, of dog/koala exclusion
restoration over 20 ha to join fragmented	fencing around the entire residential
vegetation and improve connectivity.	precinct, fencing around Wallum Frog
	habitat and no-go areas, residential lot fences, the presence of domestic dogs in the
	residential precinct all seriously and
	adversely affect the ability of Koalas to
	move through the WBURA landscape.
	Complete omission of consideration of the
	impacts of increased traffic frequency and
	consequent road kill risk on Ewingsdale
	Road.
Mitigation Measures	Inadequate, more bat boxes are required,
	combined with a monitoring program to
Microchiropteran bats	ascertain if any occupation by target species
Installation of bat boxes (1 per ha)	takes place, and which includes measures to deal with occupation of boxes by pest and
msimimon of our oones (1 per 11a)	non-target species.
Wallum Frogs	Inadequate. See above.
wantin rogs	

Creation of artificial ponds within E zones.	
Management Strategies	Inadequate. See above.
	1
Constructed wetland habitat for Wallum Frogs	
Despite the barrier effect of Ewingsdale Road it is likely that the species (Olongburra Frog/WSF) may cross from good quality habitat adjacent to WBSTP into Melaleuca Swamp forests to the south.	Urban landscapes are present north of Ewingsdale Road, for the entire northern boundary of the WBURA area. Emigration of WSF from these areas is highly unlikely. There are no records of this species west of the chicken farm. See Appendix A. Note that many frog species are poor dispersers which remain close to the sites
	where they developed as tadpoles for their entire lives.
	Surveys from 2003-2005 in 249 Ewingsdale Road found only one Wallum Sedge Frog close to the boundary with the WBSTP. The extensive sandplain habitats of this area immediately north of Ewingsdale Road did not support the species, perched wetlands were absent, and the site comprised poor quality habitat for the species.
	This is important to accurately assess the viability of the small and isolated population of WSF in the far east of the site where emigration (recruitment from other populations) may be crucial to its persistence.
Habitat Creation	The unsuitability of proposed habitat
Habitat Creation is proposed within E zones at a number of strategic sites	creation is described above. Any parsimonious assessment of the situation leads to a conclusion of the likely extinction of two small and highly isolated populations of Wallum Sedge Frog from the development as proposed.
	The proposed creation of habitat founders on the practical difficulties of manipulating and maintaining highly specific hydrological and water chemistry parameters while simultaneously excluding pest species in perpetuity.
Habitat Loss at Lot 6	No mention or acknowledgment of the NSW OEH Hygiene Protocol for the

Translocation of tadpoles; survey and	Control of Disease in Frogs.
translocation of adult frogs; if success	
criteria are established within constructed	No acknowledgment of the risk of spreading
habitat ponds.	Chytrid fungus from this activity.
	If the constructed ponds are unsuccessful for
	any reason (drought, flooding, failure to
	achieve or maintain critical water chemistry
	parameters, hydroperiods, and pest species
	exclusion), no discussion of what happens
	to the frogs and tadpoles to be translocated.
Management Strategies—Other Fauna	Appropriate strategy, but time to production
	of Banksia blossom means that a 5 year
Common Blossom Bat	monitoring period unavoidably includes
	periods of little or no blossom (years 1 & 2).
Planting of Coast Banksia	
Hollow roosting microchiropteran bats	Appropriate strategy, but more boxes
Luctual ation of Dat Lauren Lauren Lauren	needed if any significant uptake by target
Installation of Bat boxes: 1 per hectare	species is anticipated. Recommend 3-5 boxes/ha minimum.
	boxes/na minimum.
	Monitoring needs to include measures to
	deal with occupation of boxes by Black
	Rats, ants, non-target species.
Acid Frog habitat construction	No discussion of the local significance of
	loss of this population and habitat, or of
Loss of habitat by filling within Lot 6	what ensues if constructed ponds are not
requires specific offsets prior to any filling	successful, or take years to meet water
occurring.	chemistry and hydroperiod targets.
Monitoring and Compliance	Focus on vegetation, but fails to consider
Success criteria for plantings	the management of pest species <i>e.g.</i> Plague Minnow, or of frog species which compete
success criteria for plantings	with Wallum Sedge Frog, e.g. Eastern
	Dwarf Tree Frog: see Acid Frog Recovery
	Plan.
Frog surveys at 6 monthly frequency for a	Five local constructed ponds at WBSTP
period of three years	were not occupied by Wallum Froglets for 2
	years, and then only at 1 pond. Wallum
	Sedge Frogs did not colonise these ponds.
	Monitoring may need to present for at least
	Monitoring may need to proceed for at least 5 years and be timed for after suitable
	climatic events rather than at arbitrary 6
	monthly intervals.
Frog Monitoring	No mention or acknowledgment of the
-	NSW OEH Hygiene Protocol for the
	Control of Disease in Frogs, and its
	implications for the conduct of surveys and
	monitoring.

Common Blossom Bat	I could find no reference to the Common
	Blossom Bat in the VMP.
Monitoring of restored habitat via monitoring prescriptions in the VMP; no	Monitoring of vegetation is no surrogate for
targetted trapping of field monitoring for	detecting the presence of the Blossom Bat.
this species	
	If no trapping or field monitoring occurs it
	is impossible to determine the usefulness of
	mitigation measures proposed for this
	species.

2.2 Review Summary: Threatened Species Management Plan

The Threatened Species Management Plan (TSMP) restricts its considerations to 13 species which have been recorded at the site. It omits to consider the threatened Southern Myotis or fishing bat *Myotis macropus* which is recorded from 2 locations in the WBURA, and which is likely to forage along the main drain (see Figure 1). By limiting its scope to threatened species recorded at the WBURA site, the threatened estuarine wading birds of Belongil Creek and its near vicinity are omitted from consideration. Appendix A lists the 64 threatened fauna species recorded from a 10km by 10km area with the WBURA at its centre, and some of these species are likely to occur at times on the WBURA site, but are not considered *e.g.* Pale-vented Bush-hen, Common Planigale.

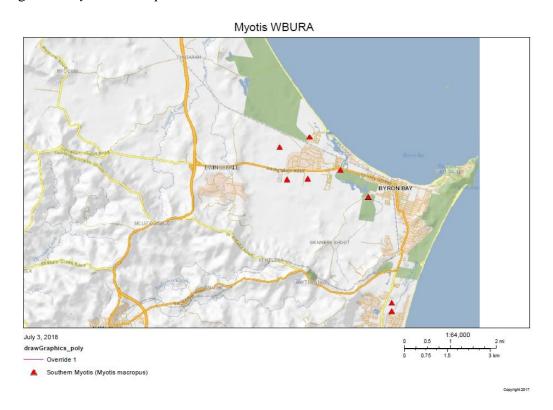
Much of the Threatened Species Management Plan is dedicated to the provision of constructed ponds as a mitigation measure for the Wallum Froglet and Wallum Sedge Frog/Olongburra Frog. Local experience in the West Byron Treatment Plant with 5 constructed ponds was that Wallum Sedge Frogs did not colonise these ponds and that Wallum Froglets took 2 years to occupy one of the 5 ponds. The failure to consider the possibility of extinction of the Wallum Sedge Frog from the site is a critical shortcoming in the TSMP. Given the predicted loss of the western population by filling, and the resultant severe isolation of the small population remaining in the far east of the site, this possibility of extinction should have been explicitly acknowledged and considered.

Water in a drain in the vicinity of the 2009 *olongburensis* record was found to be polluted by detergent and high nutrient loads when examined in June 2018, with algal blooms present and mature Swamp Mahoganies under stress and dying. While this factor (*inter alia*) signals severe practical difficulties for the proposed mitigation by habitat creation via constructed ponds, the fate of the eastern population of Wallum Sedge Frog is also severely threatened by its small population size: one record of a calling frog from 2009.

The ecological consequences for small populations are well known to be potentially severe, but are not considered for any threatened fauna species affected by the proposed development.

Other shortcomings in the TSMP are listed in the table above and reflect the consistently optimistic assumptions about the absence of significance of impacts from the development and especially regarding the practical ability to manage large scale environmental parameters. While technology proposed to monitor water chemistry and hydrology in constructed ponds are undoubtedly useful, it remains unclear how factors such as ph, high groundwater levels, and pollutant input from the main drain and from the development itself, can be practically managed in perpetuity.

Figure 1: Myotis macropus records from OEH Bionet Atlas.



Ecological Review: DA 10.2017.661.1

3.0 Annexure 8B: Koala Plan of Management, October 2017

The Koala Plan of Management (KPoM) applies only to the site R &D development.

Specific elements of the Koala Plan of Management Plan (KPoM) are provided with responses in the following table. A summary of review follows.

Table 4: Koala Plan of Management Review

Koala Plan of Management	Response
The actions proposed under the KPoM will improve the recovery of the Koala on the site and in the surrounding areas	Failure to adequately consider the existing barrier and roadkill impacts of Ewingsdale Road and the future and ongoing barrier impact of dog exclusion fences, domestic fencing within the development, an acoustic fence and significant increase in roadkill risk for local Koalas, from the increase in traffic caused by the development. An increased risk of bushfire through arson or misadventure and resultant impacts on Koalas also needs to be considered.
Urban areas are not likely to contain	These listed factors are likely to result from
habitat critical to the survival of the Koala as the existing effects of habitat loss, fragmentation, vehicle strike, dog attack and other threats are likely to continue to degrade these areas over the medium to long term*	the development: habitat loss, fragmentation, vehicle strike, dog attack, but also include barrier effects of the various fences proposed. The significant increase in traffic on Ewingsdale Road, and concomitant increase in the risk of roadkill inherent in the proposed development is ignored.
Actions proposed under the KPoM will improve the recovery of the Koala on the site and in the surrounding areas	Direct contradiction of the previous* statement: urban areas are poor habitat for Koalas. The rehabilitation of areas of native vegetation in the proposal, while well intentioned, will have to be weighed against the clearly negative factors such as the perpetual and cumulative barrier effects, isolation, impacts from the presence of dogs from 670 households in the overall WBURA, inbreeding, disease and increased roadkill in the location.
Creation of up to 16 ha of consolidated vegetation	Inadequate measure either considering "average home range size of 5ha for each animal" (Phillips and Jardine, 2013), and the barrier effects of the WBURA landscape, or the DA KPoM states 10ha as typical Koala home range in the locality.

Ecological Review: DA 10.2017.661.1

Construction of Koala proof fences to separate the urban areas from Koala habitat	In the time it takes for planted Koala feed trees to grow to a useful size, local Koalas will be adversely impacted by the loss of Koala food trees removed for the development. The death and senescence of Swamp Mahoganies observed in the site is another existing and ongoing impact on Koala habitat at the site. It is unclear whether this is a useful strategy for Koalas. It is unclear how such fences will be constructed at roads, and whether Koalas will be able to enter residential areas, with their dogs and domestic fences and swimming pools and/or leave these areas if they enter them via roads or fence breaches. Long term maintenance of fences is costly and fauna proof fences along local highways are frequently and regularly breached by tree falls, dropping branches, overgrowth of vegetation, fire and human agency.
Compliance with the <i>Threatened Species</i> Conservation Act 1995	Replaced by the <i>Biodiversity Conservation</i> Act 2016
Connectivity through these corridors will be enhanced by the provision of a Koala bridge over Belongil Creek/drain linking restored and retained habitat on the site to Koala habitat areas in SEPP 14 wetland and nature reserves to the south	It is unclear where this Koala bridge is located, since Belongil Creek is on the eastern boundary of the site. Evidence from local highway monitoring demonstrates that Koalas are slow to use dedicated crossing structures, so the connectivity suggested may be theoretical rather than practical.
There is currently no viable local Koala population within the west Byron Area Small areas of fragmented Swamp Mahogany habitat (3.7ha) are used from time to time by transient Koalas dispersing from other areas	Koala populations depend upon movement of individuals between populations. Barrier effects from the development will severely impair this ability to move through the WBURA landscape.
	See OEH Bionet Atlas Koala distribution map for the WBURA (Appendix A).
The small remnants of Swamp Mahogany on the site potentially represent a hazard to Koalas by attracting them across the busy Ewingsdale Road and exposing them to traffic	Swamp Mahogany on the site may also be used by Koalas occurring to the south and east, which do not need to cross Ewingsdale Road. Whatever the roadkill risk at present, the proposed development will significantly

	increase the roadkill risk for Koalas and other fauna by the substantial increase in traffic this development will generate. See OEH Bionet Koala distribution map for the WBURA (Appendix A).
Retention of the largest patches of Swamp Mahogany	The death and senescence of Swamp Mahoganies observed in the site is another existing and ongoing impact on Koala habitat at the site, which undermines the significance of this measure.
Construction of a Koala bridge over	This includes areas mapped as Koala Habitat in Figure 2-1. This assumes timely and significant usage
Belongil Creek/drain improves connectivity with populations to the south	of the structure by Koalas, which is optimistic given local data on the infrequent use by Koalas of purpose built fauna crossings.
Applicability of SEPP 44 to the site Koalas periodically observed on the site are	Ewingsdale Road is considered to be a high roadkill risk area, and as an existing sink for fauna.
considered to be transients that have dispersed onto the site from more extensive primary Koala habitat elsewhere, most likely to the north of Ewingsdale Road. The necessity for koalas to cross Ewingsdale Road, a potential blackspot for roadkill, to	The significant increase in traffic generated by this development will severely exacerbate this threat for Koalas and other fauna.
reach the site identifies it as a potential sink area where mortality may exceed reproduction.	The focus on primary habitat north of Ewingsdale Road ignores the large number of records southeast of the site. See Appendix A.
The plan (KPoM) will comply with the general aim of SEPP 44to encourage a permanent free-living population over their present range and reverse the current trend of koala population decline	Compliance with the aim of SEPP 44, as claimed will depend upon the future impacts of the proposed development. The impacts of a significant increase in traffic on Ewingsdale Road generated by the proposal are likely to contribute to the ongoing decline of the local Koala population, but are not considered in the DA KPoM, despite being an acknowledged threat to Koalas.
	Barrier impacts of extensive fencing, impacts from dog attacks associated with 670 households, and the threat of arson are also not considered.
Local Government Requirements	Adverse impacts on habitat and ecosystem connectivity are detailed above.
Maintain and improve habitat and	connectivity are detailed above.

ecosystem connectivity at the local and	
landscape levels.	
Matters for Consideration Habitat at the site is small in area and highly fragmented and is unlikely to support a resident koala population	The site will be further fragmented by the proposed development, habitats retained for Koalas within the site are in decline. Habitat within the site is acknowledged to be relied upon by individual Koalas, and movement through the site may contribute to the viability and persistence of Koalas in the broader location. Contemporary (June 2018) distribution of Koala records within the WBURA locality is provided at Appendix A.
Figure 3.2 Koala Records in the locality	Figure 3.2 omits the significant number of
	records southeast of the locality, but likely to be influential of Koala habitat use in the WBURA area.
	See contemporary mapping of records at Appendix A.
	This influences later discussion of Koala Density and Home Range in the DA KPOM which focus on Koala populations north of Ewingsdale Road and omits consideration of the numerous Koala records to the southeast, where no surveys were undertaken.
Koala Threat Mitigation: Dispersal	It is unclear whether the Construction of a
A fauna underpass shall be installed under Ewingsdale Road to facilitate the safe movement of Koalas to habitat areas to the north	Koala bridge over Belongil Creek/drain is separate from or instead of the underpass nominated since neither structure is shown on plans.
	If the assumptions in the DA KPoM about low Koala numbers extant within the WBURA are correct, then this measure is unlikely to provide important connectivity for the local Koala population.
	Koalas are slow to use fauna crossing structures and underpasses.
Roadkill	Stipulations regarding traffic speed limits on roads within the site are of little merit.
	The residential area is described as separate from Koalas due to exclusion fencing.

	1
	The real threat of roadkill on Ewingsdale Road is significantly exacerbated by the increased traffic generated by this development.
Dog Attack	While the DCP recommends prohibition of
Installation of exclusion fencing is recommended	dogs and cats the DA KPoM considers this to be an <i>unrealistic expectation</i> .
recommended	It is unclear and not discussed how the exclusion fencing will operate where roads enter and exit the site. What structures will be provided which allow cars and pedestrian through, but which provide barriers for dogs and Koalas at these locations?
	In the long term, exclusion fencing will be breached by local residents seeking access into the adjoining landscape, by tree falls, by overgrowth of vegetation and by neglect.
Annual inspection of fencing	Observations of the condition of fauna fencing on local highways suggest that fence monitoring and maintenance needs to be reactive to local storm events, and to be sufficiently well-resourced that it remains a significant financial burden for the life of the development.
Habitat Enhancement-existing	The existing problems of waterlogging and pollution contributing to the death and decline of Swamp Mahoganies in the site are not acknowledged or addressed in the KPoM.
	In the event that the hydrological load and poor water quality entering the site from the main drain are not remediated, Koala habitat on the site may continue to decline.
Koala Habitat Management Plan	Fails to identify the existing problems of waterlogging and pollution contributing to the death and decline of Swamp Mahoganies in the site.

3.1 Review Summary: Koala Plan of Management

The Koala Plan of Management is a requirement under SEPP 44, yet the KPoM commences with an argument that for the purpose of the EPBC Act impacts from the development on local Koalas are not important.

Statutory matters are adequately addressed, with the exception that a major and significant threat to local Koalas is ignored. The significant increase in vehicle traffic on Ewingsdale Road from the proposed development will increase the barrier effect of this road and greatly increase the risk of roadkill for local Koalas. The decision to separate the residential area from Koalas by the use of exclusion fencing will create additional barrier effects and may result in Koalas becoming trapped in the residential area. The decision to ignore the DCP recommendation regarding the prohibition of dogs and cats is also detrimental to the future persistence of Koalas in the location.

The decision to focus exclusively on Koala populations to the north of Ewingsdale Road in analysis of local Koala demography is faulty, because it omits consideration of the ecological significance of numbers of Koala records to the south and southeast of the site.

The division of the WBURA development into two separate proposal is problematic for reliably identifying the likely net impacts of the developments on the local ecosystem.

This is especially the case where some documents address the overall WBURA development and others only address the site R & D development. Without assessing the overall WBURA impacts, as well as synergistic effects *e.g.* on traffic in Ewingsdale Road, the identification and assessment of impacts are significantly underdone.

4.0 Annexure 8C: Vegetation Management Plan, February 2017

Table 5: Vegetation Management Plan Review

Vegetation Management Plan	Response
Applies to entire WBURA: 108 ha	
Acknowledges management of main and	There is no discussion about impacts of
union drain by the Belongil Drainage Union	future drainage maintenance or works, or of
	a co-operative arrangement with the BDU.
Table 2.1 Vegetation Communities	The death and senescence of Swamp
Coastal Swamp Forest: good condition with	Mahoganies observed in the site in EPZ 2D,
little weed invasion	in 2018, with extensive algal blooms and
	polluted water is contrary to the assessment
	given of condition of this community.
Vegetation Impacts	Fails to consider impacts from increased
Occupation Phase	water and nutrient loads associated with 670
	households. The proposal to install
	dog/Koala exclusion fencing around the

	T
	residential precinct encourages dumping and weed development.
	No discussion is presented on establishment and ongoing maintenance of Asset Protection Zones required for bushfire protection.
Figure 4.1 Earthworks 0-0.5m Fill areas	Extensive fill depicted in the urban zone does not include the Harvest/Villaworld Development.
	Proximity of fill areas to existing drains is likely to increase water loading in the drains and produce impacts on retained vegetation.
Table 4.1 Planting Schedule for urban zone	Generally appropriate list of species, but inclusion of Koala preferred feed trees (Swamp Mahogany) may result in Koalas entering the fenced urban precinct, and being subject to dog attack.
Vegetation Management Environmental Zones	The death and senescence of Swamp Mahoganies observed in the site in EPZ 2D, in 2018, with extensive algal blooms and
EPZ 2D	polluted water is not included in the description of vegetation in the zone.
Management Actions in EPZ 2D	Do not include addressing problems of waterlogging, eutrophication and pollution in the drain, and impacts on retained vegetation.
Belongil Creek	The three "threatened" bird species listed are Endangered. Vulnerable and
Up to 80 sea birds including three threatened species and thirteen vulnerable species	Endangered species are separate statutory categories under the umbrella classification of Threatened.
Monitoring and Compliance	Monitoring Reports should be provided to Byron Shire Council
Reporting Requirements Annual reports on the progress of on ground works should be provided to landowners	

4.1 Review Summary: Vegetation Management Plan

The Vegetation Management Plan (VMP) is generally an appropriate and thorough document listing appropriate management actions, planting species list and community identification. While purporting to address the entire WBURA, it does not include important details of fill proposed in the western Harvest/Villaworld development.

The VMP lists 16 threatened bird species from Belongil Creek, only two of these are addressed in the Threatened Species Management Plan.

Ecological Review: DA 10.2017.661.1 Page | 22

5.0 Annexure 8D: Flora and Fauna Assessment, October 2017

The Flora and Fauna Assessment is restricted to the R & D development (58ha).

Table 6: Flora and Fauna Assessment Review

Flora and Fauna Assessment	Response
Description of the Proposed Development	This text is unclear as to what actually
	happens in the drain. Neither "upgrading"
Upgrading and embellishment of the	nor "embellishment" clearly describe
existing drainage channel within Lot	proposed works on the drain.
7020DP 1113431	
	Embellishment means beautification, which
	has unclear consequences for ecological
	attributes.
Summary of Existing Ecological Surveys	Koalas were recorded from the site in 2007
	2010, and 2012.
Koalas were not recorded in any previous	
survey	Koala scats have been recorded at the site:
	2010, 2015-2017.
Vegetation Types at the site	The death and senescence of Swamp
	Mahoganies observed in the site in EPZ 2D,
Coastal Swamp Forest (Swamp Mahogany),	in 2018, with extensive algal blooms and
Good condition	polluted water is not included in the
	description of condition in this vegetation
	community.
Figure 5-1 Vegetation Communities	Unreadable
Potential for Threatened Fauna to Occur	Omission of Little Eagle and Square-tailed
	Kite which are both recorded nearby, and of
	numerous estuarine birds recorded in the
	Belongil Creek estuary. See Appendix A.
Pest Species	Failure to include the Plague Minnow
	Gambusia holbrooki recorded from the site
	(Fitzgerald 2005) and listed in the Recovery
	Plan as a significant threat for the Wallum
F 11'44	Sedge Frog.
Fauna habitat	The potential for bat roosts in the numerous
H-11	buildings on Belongil Fields should be
Hollows: scarce throughout site	investigated.
Corridors	Difficult to understand this conclusion.
The development of the site would be	The certain barrier effects of the proposed
unlikely to have any significant impact on	acoustic fence along Ewingsdale Road,
local wildlife movement	fences within the residential precinct area,
locui wiiuije movemeni	and the dog/Koala exclusion fencing
	surrounding it combine to produce
	significant impediments to fauna movement
	and should be considered as such.
	and should be considered as such.
Habitat Removal – Threatened Species	The highest quality habitat for this species
The two tests of the the tests of the tests	in the WBURA is to be filled in the
	m and it both is to be inited in the

Olongburra Frog	Harvest/Villaworld development. This strongly influences the future viability of
No habitat for the Olongburra Frog would be removed and all known habitat retained.	the eastern population, known from one call in 2009.
Habitat Removal – Threatened Species	This statement is contrary to the biology of
Olongburra Frog	the species, which does not rely on permanent water, or on watercourses for
Potential impacts on Olongburra Frog in the east of the site (eastern watercourse) are likely to be relatively low due to the retention of habitat and the presence of an established watercourse with several pools for free movement of individuals	movement. Breeding sites are seasonally dry, such that fish are not present when the preferred natural perched wetlands are sufficiently inundated for reproductive activity to take place, and for tadpoles to undergo development.
	The contemporary condition of this watercourse, was observed in June 2018 to be highly eutrophied and polluted with detergent foam. The probable presence of the Plague Minnow further degrades the watercourse as acid frog habitat.
Habitat Removal – Threatened Species	The decline in Swamp Mahoganies retained on site due to intractable waterlogging and
Koala Assisted regeneration of Swamp Mahogany in previously cleared parts of the site will result in the expansion of Koala habitat in the long term	water quality issues, and the time to establishment of regenerated Swamp Mahoganies are impacts which are inadequately assessed.
Other potential impacts to the Koala may include: Injury/mortality from vehicle strike	The contribution of this development (& the overall WBURA development) to increased roadkill pressures on Ewingsdale Road combined with barrier effects from fences and the increase in dog attacks associated with 670 households are also inadequately considered.
Fragmentation The development of the site would be unlikely to have any significant impact on local wildlife movement	The certain barrier effects of the proposed acoustic fence along Ewingsdale Road, fences within the residential precinct area, and the dog/Koala exclusion fencing surrounding it combine to produce significant impediments to fauna movement and should be considered as such.
	The reliance upon corridors or specific linkages for Koala movement is contrary to the tendency for socially driven dispersal movements by Koalas (Martin <i>et al</i> 2008). That is, if a corridor is occupied by a resident male, other males and subordinate

	animals are attacked if they enter this home range.
Impacts on Adjacent Land	The proposed development of 670 residential lots will greatly increase the
Cumbebin Nature Reserve	numbers of people and dogs/cats in the locality, therefore existing impacts
The proposed proposal has the potential for	identified here will increase proportionally,
indirect impacts to the NR, primarily from disturbance by people and risks to native	resulting in additional and ongoing degradation of habitats within the Cumbebin
fauna from straying dogs/cats. However	Nature Reserve.
these impacts already exist within the	
current context of the NR from surrounding	
urban and rural land	
SEPP 14 Wetlands	Existing water quality in drains in the site is
Maintenance of existing hydrology and	affected by stormwater drainage from the Arts and Industrial estate and the internal
water quality must be demonstrated via	drainage in Belongil Fields.
detailed monitoringsuch that	
threatening processes are not exacerbated,	Observations in June 2018 revealed water
nutrient levels are controlled and sensitive	pollution and eutrophication in one drain,
environments are not adversely affected.	and water quality throughout the site is likely to be affected by its peri-urban
	location, past and current landuses.
	, r
	Unless there is improvement in the water
	quality in the site, off site effects in Belongil
	Creek and the adjacent SEPP 14 wetlands are likely to result. It is unclear whether
	management can practically effect these
	changes in water quality or quantity.
Water Quality and Hydrology	With its highly permeable soil, high
The notantial of the muon and to alternation	groundwater levels, Wallum water
The potential of the proposal to alter water chemistry has also been addressed by the	chemistry and close proximity to sensitive receiving environments <i>e.g.</i> Belongil
Water and Carbon Group (2010), and	Creek, Cumbebin Nature Reserve, and
modelling of typical urban catchments	SEPP 14 Wetlands, the development site
applied.	may not be a typical urban catchment.
Water Quality and Hydrology	If the existing water quality is sufficiently
The proposal will also be guided by a	poor to adversely affect the survival of native vegetation in drains retained on the
stormwater management strategy which	site, a strategy which at best proposes ""no
maintains the current hydrological regime	worsening "of water quality will ensure
and no worsening in water quality post	continuing degradation of habitats at the
development.	site.
Vegetation/Habitat Buffering	Failure to acknowledge the recorded
SEPP Wetlands	presence of the Plague Minnow <i>Gambusia</i> holbrooki at the site (Fitzgerald 2005)
assessing the changes to hydrology and	ensures that the impacts of this species,
water quality will require specific	which is listed as a key threatening process

consideration. This assessment would need to determine if the impacts from changes to hydrology and water quality will lead to any threatening processes on threatened flora and fauna species at the site – and within the Belongil estuary – and propose means of preventing the impacts from occurring.	under the TSC Act and in the Acid Frog Recovery Plan, are not considered in the impact assessment for this DA.
Other Environmental Buffer Considerations Perimeter roads will be incorporated into urban design such that the potential for residential activity encroaching into areas of Koala (and other) habitat areas is minimised	It is unclear how perimeter roads will minimise the potential for residential activity (or domestic dogs) to encroach into habitat areas (if at all), and this needs to be clarified.
Threatened Species Management Plan Managing threatened species at the site by means of vegetation restoration and for acid frogs constructed wetlands	Problems with the condition of existing drain vegetation and with constructed wetlands are addressed above in the review of the Threatened Species Management Plan.
General Recommendations If the keeping of cats and dogs are permissiblestrategies such as a fencing	The keeping of cats and dogs is prohibited in the development area in the WBURA DCP.
plan will need to be developed in conjunction with Byron Shire Council and Villaworld.	It is unclear how fencing can be a useful management strategy in this case without substantially also affecting the capacity for native wildlife to move around the site.
Residents to be discouraged from creating new bush walking tracks	Since this hasn't worked in any coastal community in eastern Australia it is difficult to consider this discouraging being an effective management strategy here.
Residents to be educated on the ecological importance of their surrounding environment and be discouraged from: feeding native fauna, causing noise and light disturbance, and discarding rubbish in the surrounding vegetation communities.	See above. The proposed installation of a dog/Koala exclusion fence around the residential precinct encourages the dumping of rubbish and garden waste
Statutory Assessment Section 5A of the EP&A Act 1979 if all mitigating measures a implemented the proposed works would not result in significant impacts to any threatened species, population or community	An excessive and unjustified amount of confidence is placed in the value of constructed ponds for the Olongburra Frog in an area already occupied by the Plague Minnow which is listed as a key threat to this species. A known population of the Olongburra Frog in the Villaworld site is to be lost to filling.
	The remaining population of the Olongburra Frog in the far east of the site is based on a single call record from 2009, and is in an

area of poor water quality and vegetation decline. The viability of this small population was not considered and it must be considered at risk on the basis of population size alone. EPBC Act 1999 Uncertainties regarding the eastern population of the Olongburra Frog are not adequately addressed in the assessment. Unlikely to result in a significant on any threatened species An excessive amount of confidence is placed in the value of constructed ponds, where local experience was that the Olongburra Frog did not occupy any of 5 ponds constructed for this purpose in the WBSTP area. Threatened fauna The conclusion reached is illogical and technically incorrect for the TSC Act/BC Assessment of Significance Act requirements. The TSC Act (BC Act) defines a significant Olongburra Frog effect as... "whether the life cycle of the species is likely to be disrupted such that Restricted to the watercourse in Lot 1 DP a viable local population of a species is likely to be placed at risk of extinction". Habitat areas subject to a number of threatening processes such as altered water quality, weed invasion and invasion by It is not about the extinction of a species in species such as Cane Toads and Mosquito a locality. Thus conclusions provided for Fish. all the Assessments of Significance for threatened species are technically erroneous. As such there is no likelihood of the proposal contributing towards the local The known proposed extinction of the extinction of the species within the locality. nearest population of Olongburra Frog, by filling of its known habitat in the Villaworld proposal, the existing degradation of habitats in the DA site, and the proposal to construct ponds and retention swales where Chytrid fungus is likely to proliferate(in its carrier species the common local frog Limnodynastes peroni), in a site where flooding and high water tables are likely to ensure regular spread of Plague Minnows (Mosquito Fish) and Cane Toads, are factors which have not been adequately considered. The isolation of this population by the development is also inadequately considered. There is sufficient uncertainty regarding the

persistence of this small population of the Olongburra Frog to assume that the local population may not persist on the DA site after the development

5.1 Review Summary: Flora and Fauna Assessment

Assessments of Significance provided for threatened fauna species are all technically incorrect being predicated upon the following inappropriate conclusion:

As such there is no likelihood of the proposal contributing towards the local extinction of the species within the locality.

The TSC Act 1995 (& BC Act 2016) define a significant effect as... "whether the life cycle of the species is likely to be disrupted such that a <u>viable local population of a species</u> is likely to be placed at risk of extinction".

A significant effect is not about the risk of extinction of a **species** in a locality, but of a local population of that species, of which there may be one or many. Thus all the Assessments of Significance for threatened fauna species are technically erroneous, as they lack informed assessment and consideration of the status of local populations, and of the significance of threats at this scale.

Similarly, the term <u>locality</u> is incorrect for the terms of the TSC Act (and BC Act) where the <u>Subject Site</u> is taken to be the area directly affected by the proposal, and the <u>Study Area</u> means the <u>Subject Site</u> and any additional areas which are likely to be affected by the proposal, either directly or indirectly. The <u>Study Area</u> should extend as far as is necessary to take all potential impacts into account (DECC 2007).

6.0 Annexure 8E: Biodiversity Conservation Management Plan, October 2017

The Biodiversity Conservation Management Plan (BCMP) addresses the Site R & D area only (58 ha), however the DCP requires that the BCMP address the entire WBURA area (108ha).

Table 7: Biodiversity Conservation Management Plan Review

Biodiversity Conservation Management Plan	Response
Biodiversity at the landscape level	Wildlife corridor mapping does not confine fauna, nor exclude fauna from moving
Wildlife Corridors	through modified landscapes.
The majority of the urban zoned land is not mapped as being in a wildlife corridor, reflecting its disturbed and fragmented	Any assessment of the future barrier effects caused by the proposed development needs to acknowledge that the present landscape
nature where the majority of habitat has been cleared or modified.	within the development site presents little or no barriers to fauna movement.
Cumbebin Swamp Nature Reserve	A Bionet Atlas search in July 2018 reveals 5 threatened fauna species recorded from the
The reserve provides known habitat for 4 threatened species (OEH 2010)	reserve.
It is not intended to provide access from the development to the reserve	The Koala Plan of Management includes the following statement:
	Connectivity through these corridors will be enhanced by the provision of a Koala bridge over Belongil Creek/drain linking restored and retained habitat on the site to Koala habitat areas in SEPP 14 wetland and nature reserves to the south.
Future development of the site has potential for indirect impacts to the NR, primarily from disturbance by people and risks to	The existence of threats does not diminish the importance of increasing these threats.
native fauna from straying dogs/cats.	The provision of 359 residential lots and failure to comply with the DCP clause
However these impacts already exist	prohibiting dogs and cats within the WBURA ensure that existing threats to Cumbebin Nature Reserve will be significantly exacerbated by this development. The risk of arson will also increase.
Table 3-1 Existing Ecological Surveys	No systematic fauna survey since 2010.
Figure 3-3 Vegetation Communities Pest Species	The figure is unreadable. Failure to include the important pest Plague Minnow <i>Gambusia holbrooki</i> recorded from the site in 2005 and present in drains

Fauna	throughout the Byron area. Plague Minnow is listed as a Key Threatening Process under the NSW TSC/BC Acts, and is listed in the Recovery Plan as a significant threat for the Wallum Sedge Frog/Olongburra Frog. The species was reported from Belongil Fields (Fitzgerald 2005) which is included in references in this document. The OEH Bionet Atlas includes Southern
It is also highly probable that the Southern Myotis occurs at the site	Myotis recorded from 2 locations in the WBURA. See Figure 1.
Thirteen threatened fauna species have been confirmed at the site	No systematic fauna surveys since 2010, thus contemporary data on fauna and threatened fauna occurrence at the site and nearby was not available for this assessment.
	Impact assessment should also include fauna species known from the vicinity and for which suitable habitat is present on the site.
Environmental Management Zones	The reliance on "constructed habitat" is
Management Details Creation of Acid Frog Habitat through the creation of constructed habitat ponds	inadequate, and of doubtful utility given local experience with constructed ponds being occupied by Cane Toads, and by common frog species including a species (<i>Limnodynastes peroni</i>) which is known reservoir for Chytrid fungus, a Key Threat for the Wallum Sedge Frog/Olongburra Frog. (Stockwell <i>et al</i> 2010).
	A better strategy would be to stop slashing wetlands and sedges to allow native groundlayer vegetation to recover.
Habitat Protection	No discussion of vegetation impacts to establish and maintain Asset Protection Zones around the development.
Habitat Protection	Consideration of the barrier effects of the development must include assessment of the
Exclusion fencing is required to protect regeneration and offset areas	aggregate effects of multiple fences: namely an acoustic fence along Ewingsdale Road, dog/Koala exclusion fencing around the entire residential precinct, internal lot fencing for 359 residential lots, and this exclusion fencing (otherwise unspecified) around regeneration and offset areas.

Habitat Creation Acid Frog Ponds Requirements for constructed habitat include: A suitable hydroperiodof at least 6 weeks	If these fences are well constructed, the barrier effect resulting from the proposed development for terrestrial fauna [including the terrestrial movements of Koalas] must be substantial. No mention is made here of managing water quality, or of problems with existing groundwater levels and water pollution. No practical measures regarding how hydroperiods or water chemistry would be manipulated in dry or flooding conditions. Constructed ponds certain to be occupied by Cane Toads and local common frog species and by the Plague Minnow once flooding or inundation occurs
Bat Boxes Shall be installed at the rate of one per hectare	Inadequate, more bat boxes are required, combined with a monitoring program to ascertain if any occupation by target species takes place, which includes measures to deal with occupation of boxes by pest and non-target species.
Buffers	No mention of Asset Protection Zones required for Bushfire Risk protection
Fauna Friendly Design	Include as a mitigation measure the installation of insect screens which
Preventing Bird Strike	eliminates reflections in glass windows
Aquatic Habitat Management As Belongil Creek runs adjacent to the site environmental management must ensure no adverse impacts upon sensitive receiving	The existing poor condition of water draining through the site from stormwater from the Arts and Industrial Estate is not addressed in the DA.
environments including discharge of poor quality water	Examination of a watercourse in the far east of the site in June 2018 found it to be highly eutrophied and polluted with detergent foam. Mature Swamp Mahoganies exhibited canopy death and dead trees were present in the drain.
	No mention of how existing water quality problems are to be remediated.
Fire Management	No depiction of APZs in vegetation mapping
Provision of adequate setbacks (APZs)	This was a summary dead about the single
Funding Tenure and Long Term Implementation	It is recommended that the proponents provide an environmental fund to ensure continuation of restoration works for at least
It is envisaged that the long term	3 years after the initial 5 year program

implementation of restoration works at the	period.
site will be undertaken by the community	
Monitoring	Five local constructed ponds at WBSTP
	were not occupied by Wallum Froglets for 2
Frog Monitoring	years, and then only at 1 pond. Wallum
3	Sedge Frogs did not colonise these ponds.
	Seage 110gs are not colomise these points.
	Monitoring may need to proceed for at least
	5 years and take place after suitable climatic
	events rather than at 6 monthly intervals.
	No mention or acknowledgment of the
	NSW OEH Hygiene Protocol for the
	Control of Disease in Frogs, and
	implications for the conduct of surveys and
	monitoring.
Monitoring	A plan for monitoring must include
	measures to manage non-target and pest
Hollow roosting Microchiropteran bats	species.
Performance Criteria	It is unclear whether within 2 years means:
	within 2 years of the completion of the
Acid Frog Habitat and populations	development or within 2 years of
Tiena 1 / 08 11ae mai ama p op mantems	completion of the constructed ponds?
(from the TSMP)	completion of the constructed points:
(from the TSMP)	XX71
0	What response if neither species occupies
Olongburra Frog and Wallum Froglet	any constructed ponds after 2 years?
confirmed within constructed habitat within	
two years	Five local constructed ponds at WBSTP
•	were not occupied by Wallum Froglets for 2
	years, and then only at 1 pond. Wallum
	Sedge Frogs did not colonise these ponds.
	beage 1 rogs and not colonise these pollas.

6.1 Review Summary: Biodiversity Conservation Management Plan

The usefulness of a Biodiversity Conservation Management Plan depends upon its comprehension and analysis of the detailed ecology of species and ecosystems to be managed, including their contemporary status at the site, and in the surrounding area. This needs to be combined with an accurate grasp of the practicality of management measures proposed, and of their likely efficacy and plausibility. It is unclear whether the contemporary situation in regards to existing poor water quality entering the site is reflected in the BCMP. The possibility of this being an intractable and possibly worsening future problem is not acknowledged or examined.

The Biodiversity Conservation Management Plan incorporates the same unjustified optimism about the usefulness of constructed ponds as a mitigation measure for the Acid Frogs, fails to include the impacts and management of APZs, but does acknowledge the risks from the development to the sensitive receiving environments of the Belongil Creek estuary.

It is unclear whether the construction of a Koala Bridge across the Belongil Creek/drain will facilitate human access to Cumbebin Nature Reserve, but certain that this would be an adverse outcome if it did. The absence of contemporary systematic and targetted fauna survey data from the location since 2010 may undermine confidence in conclusions for particular species. For example the most recent record (of a single call) for the Olongburra Frog from the site is dated from 2009, and it is unclear what the status of this important species is on the site. This becomes more critical once it is acknowledged that the nearest known population of the species is to be lost under 2.5m of fill.

Ecological Review: DA 10.2017.661.1 P a g e | **33**

REFERENCES

DECC (2007) Threatened species assessment guidelines. The assessment of significance. Department of Environment and Climate Change, Goulburn Sydney. www.environment.nsw.gov.au

Fitzgerald. M. (2005) "Fauna of the Belongil Fields Property; Results of a winter survey and prediction of spring/summer results". Prepared for VillageSounds, Byron Bay.

Martin R.W., Handasyde K.A. and A. Kockenberger. (2008) "Koala" in "The Mammals of Australia". Eds Steve Van Dyck and Ronald Strahan. 3rd Edition. Reed New Holland Sydney.

Meyer W., Hero J-M., Shoo L. and Lewis B. (2006) National Recovery Plan for the wallum sedge frog and other wallum-dependent frog species. Report to the Department of Environment and Water Resources, Canberra. Queensland Parks and Wildlife Service Brisbane.

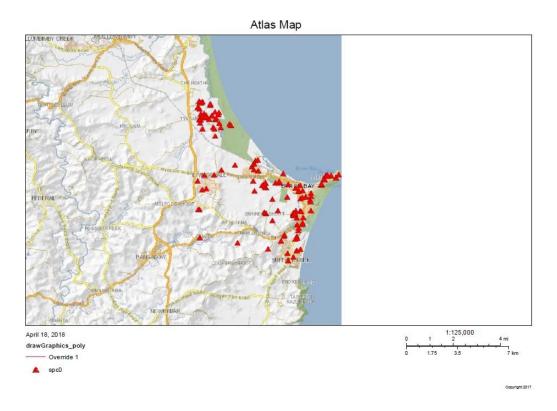
Phillips S. and Jardine D. (2013) "Draft Byron Coast Comprehensive Koala Plan of Management". Biolink Ecological Consultants

Stockwell M. (2011) Impact and mitigation of the emerging infectious disease Chytridiomycosis on the endangered green and golden bell frog. Ph D thesis University of Newcastle.

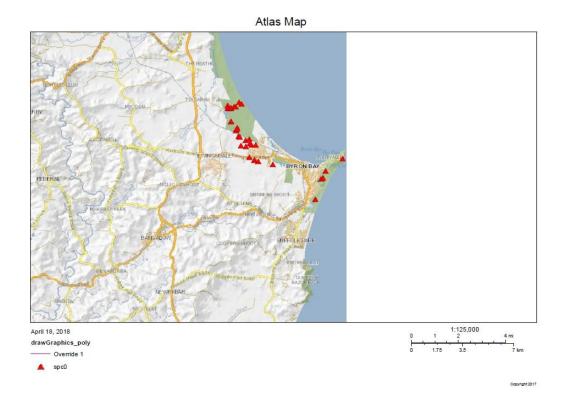
Stockwell M., Clulow S. and Mahony M. (2010) "Host species determines whether infection load increases beyond disease-casing thresholds following exposure to the amphibian chytrid fungus". Animal Conservation 13 pp32-71. The Zoological Society of London.

Appendix A: Supplementary Material

(i) Koala records from the WBURA and vicinity from OEH Bionet Atlas



(ii) Olongburra Frog/Wallum Sedge Frog WBURA distribution from OEH Atlas Search



(iii) Threatened fauna species from WBURA and vicinity from OEH Bionet Atlas

Scientific Name	Common Name	NSW status	Comm. status	Records
Crinia tinnula	Wallum Froglet	V,P		125
Litoria aurea	Green and Golden Bell Frog	E1,P	V	3
Litoria olongburensis	Olongburra Frog	V,P	V	37
Caretta caretta	Loggerhead Turtle	E1,P	Е	22
Chelonia mydas	Green Turtle	V,P	V	90
Ptilinopus magnificus	Wompoo Fruit-Dove	V,P		7
Ptilinopus regina	Rose-crowned Fruit-Dove	V,P		8
Ptilinopus superbus	Superb Fruit-Dove	V,P		2
Podargus ocellatus	Marbled Frogmouth	V,P		3
Macronectes giganteus	Southern Giant Petrel	E1,P	Е	39
Macronectes halli	Northern Giant-Petrel	V,P	V	6
Pterodroma leucoptera leucoptera	Gould's Petrel	V,P	Е	1
Pterodroma neglecta neglecta	Kermadec Petrel (west Pacific subspecies)	V,P	V	1
Pterodroma nigripennis	Black-winged Petrel	V,P		1
Ephippiorhynchus asiaticus	Black-necked Stork	E1,P		35
Botaurus poiciloptilus	Australasian Bittern	E1,P	Е	3
Ixobrychus flavicollis	Black Bittern	V,P		14
Haliaeetus leucogaster	White-bellied Sea-Eagle	V,P C		9
Hieraaetus morphnoides	Little Eagle	V,P		1
Lophoictinia isura	Square-tailed Kite	V,P,3		3
Pandion cristatus	Eastern Osprey	V,P,3		17
Grus rubicunda	Brolga	V,P		1
Amaurornis moluccana	Pale-vented Bush-hen	V,P		32
Burhinus grallarius	Bush Stone-curlew	E1,P		6
Esacus magnirostris	Beach Stone-curlew	E4A,P		12
Haematopus fuliginosus	Sooty Oystercatcher	V,P		2
Haematopus longirostris	Pied Oystercatcher	E1,P		35
Irediparra gallinacea	Comb-crested Jacana	V,P		13
Calidris ferruginea	Curlew Sandpiper	E1,P	CE,C,J,K	1
Calidris tenuirostris	Great Knot	V,P	CE,C,J,K	3
Gygis alba	White Tern	V,P		1
Onychoprion fuscata	Sooty Tern	V,P		2
Procelsterna cerulea	Grey Ternlet	V,P		1
Sternula albifrons	Little Tern	E1,P	C,J,K	11
Calyptorhynchus lathami	Glossy Black-Cockatoo	V,P,2		2
Cyclopsitta diophthalma coxeni	Coxen's Fig-Parrot	E4A,P,2	Е	1
Glossopsitta pusilla	Little Lorikeet	V,P		1
Tyto longimembris	Eastern Grass Owl	V,P,3		16
Tyto novaehollandiae	Masked Owl	V,P,3		4

Sooty Owl	V,P,3		1
White-eared Monarch	V,P		7
Diamond Firetail	V,P		46
Spotted-tailed Quoll	V,P	E	4
Common Planigale	V,P		20
Koala	V,P	V	156
Long-nosed Potoroo	V,P	V	10
Grey-headed Flying-fox	V,P	V	32
Common Blossom-bat	V,P		11
Yellow-bellied Sheathtail-bat	V,P		1
Eastern Freetail-bat	V,P		1
Little Bentwing-bat	V,P		29
Eastern Bentwing-bat	V,P		4
Southern Myotis	V,P		31
Eastern Long-eared Bat	V,P		24
Greater Broad-nosed Bat	V,P		5
Eastern Chestnut Mouse	V,P		1
Dugong	E1,P		3
Australian Fur-seal	V,P		1
Humpback Whale	V,P	V	3
Southern Pink Underwing Moth	E1	E	9
Laced Fritillary	E1	CE	1
Giant Dragonfly	E1		2
Coastal Petaltail	E1		7
Mitchell's Rainforest Snail	E1	CE	161
	White-eared Monarch Diamond Firetail Spotted-tailed Quoll Common Planigale Koala Long-nosed Potoroo Grey-headed Flying-fox Common Blossom-bat Yellow-bellied Sheathtail-bat Eastern Freetail-bat Little Bentwing-bat Eastern Bentwing-bat Southern Myotis Eastern Long-eared Bat Greater Broad-nosed Bat Eastern Chestnut Mouse Dugong Australian Fur-seal Humpback Whale Southern Pink Underwing Moth Laced Fritillary Giant Dragonfly Coastal Petaltail	White-eared Monarch Diamond Firetail V,P Spotted-tailed Quoll V,P Common Planigale V,P Koala V,P Long-nosed Potoroo V,P Grey-headed Flying-fox V,P Yellow-bellied Sheathtail-bat V,P Little Bentwing-bat V,P Eastern Freetail-bat V,P Southern Myotis V,P Greater Broad-nosed Bat V,P Eastern Chestnut Mouse V,P Dugong Australian Fur-seal V,P Southern Pink Underwing Moth Laced Fritillary Giant Dragonfly Coastal Petaltail V,P Spotted V,P Eastern V,P Eastern Ea	White-eared Monarch Diamond Firetail V,P Spotted-tailed Quoll V,P E Common Planigale V,P Koala V,P V Long-nosed Potoroo V,P Common Blossom-bat V,P Yellow-bellied Sheathtail-bat V,P Little Bentwing-bat V,P Eastern Freetail-bat V,P Eastern Bentwing-bat V,P Southern Myotis V,P Eastern Long-eared Bat V,P Eastern Chestnut Mouse V,P Little Bentwing-bat V,P Common Blossom-bat V,P Eastern Freetail-bat V,P Little Bentwing-bat V,P Eastern Bentwing-bat V,P Condition Myotis V,P Eastern Long-eared Bat V,P Coreater Broad-nosed Bat V,P Eastern Chestnut Mouse V,P Lacet Find Dugong E1,P Australian Fur-seal V,P Humpback Whale V,P V Southern Pink Underwing Moth Laced Fritillary E1 CE Giant Dragonfly E1 Coastal Petaltail



Minister for Planning and Infrastructure
ABN 38 755 709 681

and

NSPT Pty Limited ACN 103 118 190

Telicove Pty Limited ACN 078 197 707

Gousse Holdings Pty Ltd ACN 003 591 366

Anthony Roy Smith

Julia Deborah Smith

Fletcher Project Developments Pty Ltd ACN 089 163 664

David John O'Connor

Carol Fay O'Connor

Planning Agreement

Environmental Planning and Assessment Act 1979

TABLE OF CONTENTS

1	DEFIN	DEFINITIONS AND INTERPRETATION		
	1.1 1.2	Definitions Interpretation	4 7	
2	OPER	RATION AND APPLICATION OF THIS DEED	9	
	2.1 2.2 2.3	Operation Planning agreement under the Act Application	9 9 9	
3	APPL ACT	ICATION OF SECTIONS 94, 94A AND 94EF OF THE	9	
4	DEVE	LOPMENT CONTRIBUTION	g	
	4.1 4.2	Developer to provide Development Contribution Acknowledgement	9	
5	INTER	REST	10	
	5.1	Interest for late payment	10	
6	ENFO	PRCEMENT	10	
	6.1	Developer to provide security	10	
7	REGISTRATION			
	7.1 7.2 7.3 7.4		11 11 11 11	
8	DISPU	12		
	8.1 8.2 8.3 8.4 8.5 8.6 8.7	Not commence Written notice of dispute Attempt to resolve Mediation Court proceedings Not use information No prejudice	12 12 12 12 13 13	
9	GST		13	
	9.1 9.2 9.3 9.4 9.5 9.6 9.7 9.8	Definitions Intention of the parties Reimbursement Consideration GST exclusive Additional Amounts for GST Non-monetary consideration Assumptions No merger	13 13 14 14 14 14 14	

10	ASSIG	GNMENT	14
	10.1 10.2	Developer's right to assign or novate Developer's right to transfer Land	14 15
11	CAPA	CITY	15
	11.1 11.2	General warranties Power of attorney	15 16
12	REPO	RTING REQUIREMENT	16
13	GENE	RAL PROVISIONS	17
	13.1 13.2 13.3 13.4 13.5 13.6 13.7 13.8 13.9 13.10 13.11 13.12 13.13 13.14 13.15 13.16	Entire deed Variation Waiver Further assurances Time for doing acts Governing law and jurisdiction Severance Preservation of existing rights No merger Counterparts Relationship of parties Good faith No fetter Explanatory note Expenses and stamp duty Notices	17 17 17 17 17 17 18 18 18 18 18 18 19
SCH	EDULE 1		21
SCH	EDULE 2		23
SCH	EDULE 3		26
SCHE	EDULE 4		27
SCHEDULE 5			29

THIS deed is dated

PARTIES:

120 Cloward 21/10/14

MINISTER FOR PLANNING AND INFRASTRUCTURE (ABN 38 755 709 681) of Level 33, Governor Macquarie Tower, 1 Farrer Place, Sydney, New South Wales, 2000 (Minister)

NSPT PTY LIMITED (ACN 103 118 190) of "Northpoint" Suite 3204, Level 32, 100 Miller Street North Sydney, NSW, 2060

TELICOVE PTY LIMITED (ACN 078 197 707) of c/- Brock Partners Lawyers, Suite 605, Level 6, 22 Market Street, Sydney, New South Wales, 2000

GOUSSE HOLDINGS PTY LTD (ACN 001 319 651) of c/- WHK, 157 Barker Street, Casino, New South Wales, 2470

ANTHONY ROY SMITH of 37 Gloria Street, South Golden Beach, New South Wales, 2483

JULIA DEBORAH SMITH of 37 Gloria Street, South Golden Beach, New South Wales, 2483

FLETCHER PROJECT DEVELOPMENTS PTY LTD (ACN 089 163 664) of Suite 6, 13-15 Francis Street, Dee Why, New South Wales, 2099

DAVID JOHN O'CONNOR of PO Box 1036, Byron Bay, New South Wales, 2481

CAROL FAY O'CONNOR of PO Box 1036, Byron Bay, New South Wales, 2481

(together the **Developer**)

INTRODUCTION:

- A The Developer owns the Land.
- B The Developer proposes to carry out the Development on the Land.
- C The Developer has sought a change to the zoning of the Land by means of the Planning Instrument.
- D The Developer has offered to enter into this deed with the Minister to secure the Development Contribution in relation to the proposed the Planning Instrument.

IT IS AGREED:

1 DEFINITIONS AND INTERPRETATION

1.1 Definitions

In this **deed**, unless the context clearly indicates otherwise:

Act means the Environmental Planning and Assessment Act 1979 (NSW).

Address for Service means the address of each party appearing in Schedule 2 or any new address notified by any party to all other parties as its new Address for Service.

Australian Bank means an Australian-owned bank, foreign subsidiary bank, branches of foreign banks, building societies and credit unions operating in Australia as "Authorised Deposit-taking Institutions" under the *Banking Act 1959* (Cth) and prudentially supervised by the Australian Prudential Regulatory Authority.

Authority means any Federal, State or local government or semi-governmental, statutory, judicial or public person, instrumentality or department.

Bank Guarantee means an irrevocable and unconditional undertaking:

- (a) by an Australian Bank; and
- (b) on terms acceptable to the Minister (acting reasonably),

to pay the face value of that undertaking (being such amount as is required under this deed) on demand.

Base CPI means the CPI number for the quarter ending 31 March 2014.

Business Day means any day that is not a Saturday, Sunday, gazetted public holiday or bank holiday in Sydney, and concludes at 5 pm on that day.

Byron Bay bypass means the Byron Bay town centre bypass being a facility identified in the Urban and Rural Roads Works Schedule in the Byron Contribution Plan.

Byron Contribution Plan means the *Byron Shire Developer Contribution Plan* 2012.

Conservation Contribution means the preparation and implementation of the vegetation management plan in accordance with Schedule 4.

Conservation Land means the site comprising approximately 35 hectares of the Land to be zoned E2 Environmental Conservation.

Contribution Amount means the amount of the monetary contribution to be paid by the Developer as described in Schedule 4.

CPI means the Sydney Consumer Price Index (All Groups) published by the Commonwealth Statistician, or if that index no longer exists, any similar index which the Minister determines in its sole discretion.

CPI Adjustment Date means 1 July 2014 and each anniversary of 1 July 2014 thereafter.

Current CPI means the CPI number for the quarter ending immediately before 31 March in the relevant adjustment year.

Development means the subdivision of the Land to achieve approximately 1100 Urban Lots.

Development Application has the same meaning as in the Act.

Development Consent has the same meaning as in the Act.

Development Contribution means the:

- (a) Contribution Amount; and
- (b) Conservation Contribution

Secretary

Secretary

Secretary

Director-General means the Director-General of Planning and Infrastructure from time to time.

Explanatory Note means the note exhibited with a copy of this deed when this deed when this deed is made available for inspection by the public pursuant to the Act, as required by the Regulation.

General Register of Deeds means the land register maintained under the *Conveyancing Act 1919* (NSW) and so titled.

GST means any form of goods and services tax payable under the GST Legislation.

GST Legislation means the *A New Tax System (Goods and Services Tax) Act* 1999 (Cth).

Land means the land described in Schedule 3 of this deed.

Mediation Program means the Mediation Program of the Law Society of New South Wales as published on its website and as varied from time to time.

Notified means the commencement of the Planning Instrument in accordance with section 34(5) of the Act.

Plan of Subdivision means a registered plan of subdivision under Part 23 Division 3 of the *Conveyancing Act 1919* (NSW).

Planning Application means:

- (a) a Development Application; or
- (b) any other application required under the Act,

which seeks approval for the subdivision of the Land.

Planning Instrument means any draft environmental planning instrument within the meaning of the Act that seeks to rezone the Land for residential and other urban purposes.

Real Property Act means the Real Property Act 1900 (NSW).

Register means the Torrens title register maintained under the Real Property Act.

Regulation means the *Environmental Planning and Assessment Regulation 2000* (NSW).

Security means a Bank Guarantee or any other form of security for an amount equivalent to \$20,000 that is agreed with the Minister.

Strata Certificate has the same meaning as in the Strata Schemes Act.

Strata Plan means a strata plan or strata plan of subdivision within the meaning of the Strata Schemes Act.

Strata Schemes Act means the *Strata Schemes (Freehold Development) Act 1973* (NSW).

Subdivision Certificate has the same meaning as in the Act.

Super Lots means a lot located on the Land which, following the registration of a Plan of Subdivision, is intended for further subdivision for residential purposes.

Tax means a tax, duty (including stamp duty and any other transaction duty), levy, impost, charge, fee (including a registration fee) together with all interest, penalties, fines and costs concerning them.

Urban Lot means a lot located on the Land to be created by the registration of a:

- (a) Plan of Subdivision and is intended to be developed for residential purposes, or
- (b) Strata Plan and has been or is being developed for residential purposes, but excluding any Super Lots.

1.2 Interpretation

In this deed unless the context clearly indicates otherwise:

- (a) a reference to **this deed** or another document means this deed or that other document and any document which varies, supplements, replaces, assigns or novates this deed or that other document;
- (b) a reference to **legislation** or a **legislative provision** includes any statutory modification, or substitution of that legislation or legislative provision and

- any subordinate legislation issued under that legislation or legislative provision;
- (c) a reference to a **body** or **authority** which ceases to exist is a reference to either a body or authority that the parties agree to substitute for the named body or authority or, failing agreement, to a body or authority having substantially the same objects as the named body or authority;
- (d) a reference to the **introduction**, a **clause**, **schedule** or **annexure** is a reference to the introduction, a clause, a schedule or an annexure to or of this deed:
- (e) **clause headings**, **the introduction** and the **table of contents** are inserted for convenience only and do not form part of this deed;
- (f) the **schedules** form part of this deed;
- (g) a reference to a **person** includes a natural person, corporation, statutory corporation, partnership, the Crown or any other organisation or legal entity;
- (h) a reference to a **natural person** includes their personal representatives, successors and permitted assigns;
- a reference to a corporation includes its successors and permitted assigns;
- (j) a reference to a right or obligation of a party is a reference to a right or obligation of that party under this deed;
- (k) an **obligation** or **warranty** on the part of 2 or more persons binds them severally and an obligation or warranty in favour of 2 or more persons benefits them severally;
- (I) a requirement to do any thing includes a requirement to cause that thing to be done and a requirement not to do any thing includes a requirement to prevent that thing being done;
- (m) **including** and **includes** are not words of limitation;
- (n) a word that is derived from a defined word has a corresponding meaning;
- (o) monetary amounts are expressed in Australian dollars;
- (p) the singular includes the plural and vice-versa;
- (q) words importing one gender include all other genders;
- (r) a reference to a thing includes each part of that thing; and

(s) neither this deed nor any part of it is to be construed against a party on the basis that the party or its lawyers were responsible for its drafting.

2 OPERATION AND APPLICATION OF THIS DEED

2.1 Operation

- (a) This deed, other than clause 10, will commence from the date that is the later of the date that:
 - (i) this deed is signed by all the parties; and
 - (ii) the Planning Instrument is Notified.
- (b) Clause 10 commences when this deed is signed by all of the parties.

2.2 Planning agreement under the Act

This deed constitutes a planning agreement within the meaning of section 93F of the Act.

2.3 Application

This deed applies to:

- (a) the Land; and
- (b) the Development.

3 APPLICATION OF SECTIONS 94, 94A AND 94EF OF THE ACT

The application of sections 94, 94A and 94EF of the Act are excluded to the extent stated in Schedule 1.

4 DEVELOPMENT CONTRIBUTION

4.1 Developer to provide Development Contribution

The Developer undertakes to provide to the Minister or the Minister's nominee, the Development Contribution in accordance with the provisions of Schedule 4 to this deed.

4.2 Acknowledgement

The Developer acknowledges and agrees that the Minister:

- (a) must comply with section 93E of the Act but has no obligation to repay the Development Contribution to the Developer; and
- (b) in circumstances where the Development Contribution is transferred to any Authority, has not made any representation or warranty that the Development Contribution will or must be used for a particular purpose by that Authority.

5 INTEREST

5.1 Interest for late payment

- (a) If the Developer fails to pay a Contribution Amount due to the Minister on the due date for payment in accordance with Schedule 4, the Developer must also pay to the Minister interest at a rate of 2% above the corporate loan reference rate charged by the Commonwealth Bank of Australia from time to time.
- (b) Interest will be payable on the daily balance of amounts due from the due date for payment of those amounts until all outstanding amounts (including interest on those amounts) have been paid to the Minister.

6 ENFORCEMENT

6.1 Developer to provide security

- (a) The Developer has agreed to secure the performance of the Developer's obligations under this deed by:
 - (i) registering this deed on the title to the Land, in relation to the Contribution Amount; and
 - (ii) providing the Security to the Minister in accordance with Schedule 5, in relation to the Conservation Contribution.
- (b) The parties agree that the requirement to make a payment under Schedule 4, to the extent that it relates to an application for a Subdivision Certificate, is a restriction on the issue of a Subdivision Certificate within the meaning of section 109J(1)(c1) of the Act.

7 REGISTRATION

7.1 Registration of deed

Within 30 Business Days of receiving a copy of this deed executed by the Minister, the Developer at its own expense will take all practical steps and otherwise do anything to procure, in relation to the Land:

- (a) the consent of each person who:
 - (i) has an estate or interest in the Land registered under the Real Property Act; or
 - (ii) is seized or possessed of an estate or interest in the Land; and
- (b) the execution of any necessary documents; and
- (c) the production of the relevant certificates of title; and
- (d) the lodgement and registration of this deed, by the Registrar-General in the relevant folio of the Register, or in the General Register of Deeds if this deed relates to land not under the Real Property Act.

7.2 Evidence of registration

The Developer will provide the Minister with a copy of the relevant folio of the Register and a copy of the registered dealing within 10 Business Days of registration of this deed.

7.3 Release and discharge of deed

- (a) The Minister agrees to do all things reasonably required by the Developer to:
 - (i) execute the relevant forms to remove the registration of this deed from any or all folios of the Register in relation to the relevant Land; and
 - (ii) release and discharge this deed with respect to any part of the Land,

upon the Developer satisfying all of its obligations under this deed in respect of that part of the Land, including without limitation, providing the Developer with any deed of release executed by the Minister.

7.4 Developer's interest in Land

The Developer represents and warrants that it is:

- (a) the owner of the Land; or
- (b) legally and beneficially entitled to become the owner of the Land and will become the legal and beneficial owner of the Land, prior to the date that this deed is required to be registered under clause 7.1 of this deed; and
- (c) legally and beneficially entitled to obtain all consents and approvals and to compel any person referred to in or contemplated by clause 7.1(a) to assist, cooperate and to otherwise do all things necessary for the Developer to comply with its obligations under clause 7.

8 DISPUTE RESOLUTION

8.1 Not commence

A party must not commence any court proceedings relating to a dispute under or in relation to this deed unless it complies with this clause 8.

8.2 Written notice of dispute

A party claiming that a dispute has arisen under or in relation to this deed must give written notice to the other party specifying the nature of the dispute.

8.3 Attempt to resolve

On receipt of notice under clause 8.2, the parties must endeavour in good faith to resolve the dispute expeditiously using informal dispute resolution techniques such as mediation, expert evaluation or other techniques agreed by them.

8.4 Mediation

If the parties do not agree within 21 Business Days of receipt of notice under clause 8.2 (or any further period agreed in writing by them) as to:

- (a) the dispute resolution technique and procedures to be adopted;
- (b) the timetable for all steps in those procedures; or
- (c) the selection and compensation of the independent person required for such dispute resolution technique,

the parties must mediate the dispute in accordance with the Mediation Program. The parties must request the president of the Law Society of NSW or the president's nominee to select the mediator and determine the mediator's remuneration.

8.5 Court proceedings

If the dispute is not resolved within 60 Business Days after notice is given under clause 8.2 then any party which has complied with the provisions of this clause 8 may in writing terminate any dispute resolution process undertaken under this clause and may then commence court proceedings in relation to the dispute.

8.6 Not use information

The parties acknowledge the purpose of any exchange of information or documents or the making of any offer of settlement under this clause 8 is to attempt to settle the dispute. No party may use any information or documents obtained through any dispute resolution process undertaken under this clause 8 for any purpose other than in an attempt to settle the dispute.

8.7 No prejudice

This clause 8 does not prejudice the right of a party to institute court proceedings for urgent injunctive or declaratory relief in relation to any matter arising out of or relating to this deed.

9 GST

9.1 Definitions

Words used in this clause that are defined in the GST Legislation have the meaning given in that legislation.

9.2 Intention of the parties

The parties intend that:

- (a) Divisions 81 and 82 of the GST Legislation apply to the supplies made under and in respect of this deed; and
- (b) no additional amounts will be payable on account of GST and no tax invoices will be exchanged between the parties in relation to the Development Contribution.

9.3 Reimbursement

Any payment or reimbursement required to be made under this deed that is calculated by reference to a cost, expense, or other amount paid or incurred will be limited to the total cost, expense or amount less the amount of any input tax credit to which any entity is entitled for the acquisition to which the cost, expense or amount relates.

9.4 Consideration GST exclusive

Unless otherwise expressly stated, all prices or other sums payable or consideration to be provided under this deed are GST Exclusive. Any consideration that is specified to be inclusive of GST must not be taken into account in calculating the GST payable in relation to a supply for the purposes of this clause 9.

9.5 Additional Amounts for GST

To the extent an amount of GST is payable on a supply made by a party under or in connection with this deed (**GST Amount**), the Recipient will pay to the Supplier the GST Amount. However, where a GST Amount is payable by the Minister as Recipient of the supply, the Developer will ensure that:

- (a) the Developer makes payment of the GST Amount on behalf of the Minister, including any gross up that may be required; and
- (b) the Developer provides a Tax Invoice to the Minister.

9.6 Non-monetary consideration

Clause 9.5 applies to non-monetary consideration.

9.7 Assumptions

The Developer acknowledges and agrees that in calculating any amounts payable under clause 9.5 the Developer will assume the Minister is not entitled to any input tax credit.

9.8 No merger

This clause will not merge on completion or termination of this deed.

10 ASSIGNMENT

10.1 Developer's right to assign or novate

- (a) Prior to seeking the consent of the Minister to a proposed assignment or novation of its rights or obligations under this deed, the Developer must:
 - (i) satisfy the Minister (acting reasonably) that the person to whom the Developer's rights or obligations are to be assigned or novated (Incoming Party) has sufficient assets, resources and expertise required in order to perform the Developer's obligations under this deed insofar as those obligations have been novated to the Incoming Party; and

- (ii) procure the execution of an agreement by the Incoming Party with the Minister on terms satisfactory to the Minister (acting reasonably) under which the Incoming Party agrees to comply with the terms and conditions of this deed as though the Incoming Party was the Developer.
- (b) The Developer will pay the Minister's reasonable legal costs and expenses incurred under this clause 10.1.

10.2 Developer's right to transfer Land

- (a) The Developer must not sell or transfer the whole or part of any part of the Land:
 - (i) for which a Development Contribution has not been paid or performed and a release and discharge has not been given under clause 7.3; or
 - (ii) unless prior to the proposed sale or transfer, the Developer:
 - (A) satisfies the Minister (acting reasonably) that the person to whom that Land is to be transferred (**Transferee**) has sufficient assets, resources and expertise required in order to perform the Developer's obligations under this deed insofar as those obligations apply to the part of the Land the subject of the sale or transfer; and
 - (B) procures the execution of an agreement by the Transferee with the Minister on terms satisfactory to the Minister (acting reasonably) under which the Transferee agrees to comply with the terms and conditions of this deed as though the Transferee was the Developer.
- (b) The Developer will pay the Minister's reasonable legal costs and expenses incurred under this clause 10.2.

11 CAPACITY

11.1 General warranties

Each party warrants to each other party that:

- this deed creates legal, valid and binding obligations, enforceable against the relevant party in accordance with its terms; and
- (b) unless otherwise stated, it has not entered into this deed in the capacity of trustee of any trust.

11.2 Power of attorney

If an attorney executes this deed on behalf of any party, the attorney declares that it has no notice of the revocation of that power of attorney.

12 REPORTING REQUIREMENT

(a)

On each anniversary of the date of this deed or as otherwise agreed with the Director General, the Developer must deliver to the Director General a report which must include those matters set out in clauses (b) and (c), as applicable.

- (b) If the Developer has not provided a Contribution Amount in the 12 month period immediately preceding the relevant anniversary of this deed, the report must include:
 - (i) a description of the status of the Development;
 - (ii) a forecast in relation to the anticipated progression and completion of the Development; and
 - (iii) an estimated date for when the Developer expects to lodge the first Planning Application.
- (c) If the Developer has provided one or more Contribution Amounts under this deed, the report must include:
 - (i) details of all Development Consents granted in relation to the Development;
 - (ii) a schedule that details all Contribution Amounts provided under this deed as at the date of the report; and
 - (iii) an estimated date for when the Developer expects to lodge the next Planning Application.
- (d) Within 10 Business Days after receiving the Director-General's written request, the Developer must deliver to the Director-General all documents and other information which, in the reasonable opinion of the Director-General are necessary for the Director General to assess the status of the Development.

13 GENERAL PROVISIONS

13.1 Entire deed

This deed constitutes the entire agreement between the parties regarding the matters set out in it and supersedes any prior representations, understandings or arrangements made between the parties, whether orally or in writing.

13.2 Variation

This deed must not be varied except by a later written document executed by all parties.

13.3 Waiver

A right created by this deed cannot be waived except in writing signed by the party entitled to that right. Delay by a party in exercising a right does not constitute a waiver of that right, nor will a waiver (either wholly or in part) by a party of a right operate as a subsequent waiver of the same right or of any other right of that party.

13.4 Further assurances

Each party must promptly execute all documents and do every thing necessary or desirable to give full effect to the arrangements contained in this deed.

13.5 Time for doing acts

- (a) If:
 - (i) the time for doing any act or thing required to be done; or
 - (ii) a notice period specified in this deed,

expires on a day other than a Business Day, the time for doing that act or thing or the expiration of that notice period is extended until the following Business Day.

(b) If any act or thing required to be done is done after 5 pm on the specified day, it is taken to have been done on the following Business Day.

13.6 Governing law and jurisdiction

- (a) The laws applicable in New South Wales govern this deed.
- (b) The parties submit to the non-exclusive jurisdiction of the courts of New South Wales and any courts competent to hear appeals from those courts.

13.7 Severance

If any clause or part of any clause is in any way unenforceable, invalid or illegal, it is to be read down so as to be enforceable, valid and legal. If this is not possible, the clause (or where possible, the offending part) is to be severed from this deed without affecting the enforceability, validity or legality of the remaining clauses (or parts of those clauses) which will continue in full force and effect.

13.8 Preservation of existing rights

The expiration or termination of this deed does not affect any right that has accrued to a party before the expiration or termination date.

13.9 No merger

Any right or obligation of any party that is expressed to operate or have effect on or after the completion, expiration or termination of this deed for any reason, will not merge on the occurrence of that event but will remain in full force and effect.

13.10 Counterparts

This deed may be executed in any number of counterparts. All counterparts taken together constitute one instrument.

13.11 Relationship of parties

Unless otherwise stated:

- (a) nothing in this deed creates a joint venture, partnership, or the relationship of principal and agent, or employee and employer between the parties; and
- (b) no party has the authority to bind any other party by any representation, declaration or admission, or to make any contract or commitment on behalf of any other party or to pledge any other party's credit.

13.12 Good faith

Each party must act in good faith towards all other parties and use its best endeavours to comply with the spirit and intention of this deed.

13.13 No fetter

Nothing in this deed shall be construed as requiring either the Ministers to do anything that would cause the Minister to breach any of the Minister's obligations at law and without limitation, nothing in this deed shall be construed as limiting or fettering in any way the discretion of the Ministers in exercising any of the Minister's statutory functions, powers, authorities or duties.

13.14 Explanatory note

The Explanatory Note must not be used to assist in construing this deed.

13.15 Expenses and stamp duty

- (a) The Developer must pay its own and the Minister's reasonable legal costs and disbursements in connection with the negotiation, preparation, execution and carrying into effect of this deed.
- (b) The Developer must pay for all costs and expenses associated with the giving of public notice of this deed and the Explanatory Note in accordance with the Regulation.
- (c) The Developer must pay all Taxes assessed on or in respect of this deed and any instrument or transaction required or contemplated by or necessary to give effect to this deed (including stamp duty and registration fees, if applicable).
- (d) The Developer must provide the Minister with bank cheques in respect of the Minister's costs pursuant to clauses 13.15(a) and (b).
 - where the Minister has provided the Developer with written notice of the sum of such costs prior to execution, on the date of execution of this deed; or
 - (ii) where the Minister has not provided the Developer with prior written notice of the sum of such costs prior to execution, within 30 Business Days of receiving a written demand by the Minister for payment.
- (e) The Developer must pay its own and the Minister's reasonable legal costs and disbursements in connection with the negotiation, preparation and execution of any documentation required in relation a release of this deed for the purpose of clause 7.3.

13.16 Notices

- (a) Any notice, demand, consent, approval, request or other communication(Notice) to be given under this deed must be in writing and must be given to the recipient at its Address for Service by being:
 - (i) hand delivered; or
 - (ii) sent by facsimile transmission; or
 - (iii) sent by prepaid ordinary mail within Australia.
- (b) A Notice is given if:

- (i) hand delivered, on the date of delivery;
- (ii) sent by facsimile transmission during any Business Day, on the date that the sending party's facsimile machine records that the facsimile has been successfully transmitted; or
- (iii) sent by prepaid ordinary mail within Australia, on the date that is 2 Business Days after the date of posting.

Table 1 – Requirements under section 93F of the Act (clause 2.2)

The parties acknowledge and agree that the table set out below provides for certain terms, conditions and procedures for the purpose of the deed complying with the Act.

REQUIREMENT UNDER THE ACT		THIS DE	EED
Planning instrument and/or development application – (section 93F(1))			
The Developer has:			
• •	ight a change to an environmental nning instrument.	(a)	Yes
, ,	de, or proposes to make, a velopment Application.	(b)	Yes
oth	ered into an agreement with, or is erwise associated with, a person, to om paragraph (a) or (b) applies.	(c)	No
Description - (section 93	of land to which this deed applies F(3)(a))	See Sch	nedule 3
Description of change to the environmental planning instrument to which this deed applies – (section 93F(3)(b))			oning of the Land for residential and other urposes.
The scope, timing and manner of delivery of contribution required by this deed – (section 93F(3)(c))		See Sch	nedule 4
Applicability of sections 94 and 94A of the Act – (section 93F(3)(d))			olication of sections 94 and 94A of the Act kcluded in respect of the Development.
Applicability of section 94EF of the Act – (section 93F(3)(d))		The application of section 94EF of the Act is not excluded in respect of the Development.	
Consideration of benefits under this deed if section 94 applies – (section 93F(5))		No	
Mechanism (Mechanism for Dispute Resolution – (section 93F(3)(f))		use 8
Enforcement	t of this deed - (section 93F(3)(g))	See cla	use 6
No obligation to grant consent or exercise functions – (section 93F(10))		See cla	use 13.13

Table 2 - Other matters

REQUIREMENT UNDER THE ACT OR REGULATION	THIS DEED
Registration of the Planning Agreement – (section 93H of the Act)	Yes (see clause 7)
Whether the Planning Agreement specifies that certain requirements of the agreement must be complied with before a construction certificate is issued – (clause 25E(2)(g) of the Regulation)	No
Whether the Planning Agreement specifies that certain requirements of the agreement must be complied with before an occupation certificate is issued – (clause 25E(2)(g) of the Regulation)	No
Whether the Planning Agreement specifies that certain requirements of the agreement must be complied with before a subdivision certificate is issued – (clause 25E(2)(g) of the Regulation)	Yes (see Schedule 4)

Address for Service (clause 1.1)

Minister

Contact:

Director-General Secretary

PSY 2/10/14

Planning and Infrastructure Department of Planning
and Environment

and Environment Address:

SYDNEY NSW 2000

Facsimile No: (02) 9228 6191

Developer

Contact: **NSPT Pty Limited**

Address: "Northpoint" Suite 3204, Level 32, 100 Miller Street,

North Sydney, NSW, 2060

Facsimile No: (02) 9923 1233

Contact: The Company Secretary, Telicove Pty Limited

Address: c/- Brock Partners Lawyers, Suite 605, Level 6, 22 Market Street,

Sydney, New South Wales, 2000

Facsimile No: (02) 9299 7151 Contact: The Company Secretary, Gousse Holdings Pty Ltd

Address: c/- WHK, 157 Barker Street, Casino, New South Wales, 2470

Facsimile No: (02) 6662 7688

Contact: Anthony Roy Smith

Address: 37 Gloria Street, South Golden Beach, New South Wales, 2483

Contact: Julia Deborah Smith

Address: 37 Gloria Street, South Golden Beach, New South Wales, 2483

Contact: The Company Secretary, Fletcher Project Developments Pty Ltd

Address: Suite 6, 13-15 Frances Street, Dee Why, New South Wales, 2099

Contact: David John O'Connor

Address: PO Box 1036, Byron Bay, New South Wales, 2481

Contact: Carol Fay O'Connor

Address: PO Box 1036, Byron Bay, New South Wales, 2481

Land (clause 1.1)

1 Lots proposed for development

Lot	Deposited Plan	Folio Identifier	Landowner
5	622736	5/622736	NSPT Pty Limited
6	622736	5/622736	NSPT Pty Limited
1	542178	1/542178	NSPT Pty Limited
227	755695	227/755695	NSPT Pty Limited
229	755695	229/755695	NSPT Pty Limited
9	111821	1/111821	NSPT Pty Limited
1	1166535	1/1166535	NSPT Pty Limited
1	201626	1/201626	Telicove Pty Limited
2	542178	2/542178	Telicove Pty Limited
1	780242	1/780242	Gousse Holdings Pty Ltd
2	818403	2/818403	Anthony Roy Smith
			Julia Deborah Smith
			Fletcher Project Developments Pty Ltd
1	520063	1/520063	David John O'Connor
			Carol Fay O'Connor

Development Contributions (clause 4)

1 Development Contribution

The Developer undertakes to make the Development Contribution:

Development Contribution	Timing
Contribution Amount - Cash contribution towards urban roads	The Developer must pay to the Minister or the Minister's nominee each Contribution Amount prior to the issue of the relevant Subdivision Certificate or Strata Certificate (as the case may be) in accordance with the requirements of clause 2 of this Schedule.
Conservation Contribution – Contribution towards the conservation of the Conservation Land	In accordance with the requirements of clause 3 of this Schedule.

2 Calculation of the value of a Contribution Amount

(a) Each Contribution Amount will be an amount equal to the sum represented by "X" in the following formula:

$$X = (N \times \$7,000) - A$$

"N" means the number of Urban Lots proposed in each Subdivision Certificate application or Strata Certificate application (as the case may be).

"A" means:

- (i) any section 94 contribution paid in relation to the Land for the funding of the Byron Bay bypass; or
- (ii) any other amount agreed with the Director-General.
- (b) On each CPI Adjustment Date, the value of X in clause 2(a) will be adjusted by multiplying X by an amount equal to the Current CPI divided by the Base CPI.

3 Conservation Contribution

(a) This clause only applies to subdivision that requires development consent under the Act.

- (b) The Developer must, prior to the issue of each Subdivision Certificate that includes any part of the Conservation Land, commission a suitably qualified person to prepare a vegetation management plan for the Conservation Land that includes:
 - (i) a program for proposed environmental management works;
 - (ii) the identification of relevant environmental management works;
 - (iii) details of any staging of the environmental management works;
 - (iv) methodologies for the implementation of the environmental management works in perpetuity.
- (c) A vegetation management plan may relate to all or part of the Conservation Land and a vegetation management plan may be relied on in respect to one or more Subdivision Certificates.

Security (clause 6)

1 Security

- (a) The Developer undertakes to provide the Security in order to secure the payment and performance of the Conservation Contribution in the manner set out in the table below.
- (b) The Minister has agreed to:
 - (i) accept the Security as security for the payment and performance of the Conservation Contribution; and
 - (ii) return the Security to the Developer upon certain Trigger Events, in the manner set out in the table below.

Security	Value	Date to be provided by Developer	Trigger Event
1. Conservation Contribution	\$20,000	Prior to the issue of the first Subdivision Certificate for a Plan of Subdivision that includes any part of the Conservation Land	When each landowner comprising the Developer has complied with their several obligations in relation to the Conservation Contribution, the Minister must return the Security to each landowner in the following proportions: \$10,034.00 to NSPT Pty Limited being 50.17% of the value of the Security; \$6,100.00 to Telicove Pty Limited being 30.50% of the value of the Security; \$1,630.00 to Gousse Holdings Pty Ltd, being 8.15% of the value of the Security; \$1,694.00 to AR & JD Smith & Fletcher Project Developments Pty Ltd, being 8.47% of the value of the Security; and

\$542.00 to DJ & CF O'Connor, being 2.71% of the value of the Security.

(c) If the Security is in the form of a Bank Guarantee, it must:

(i) name the "Minister for Planning and Infrastructure ABN 38 755 709 681" as the relevant beneficiaries; and

(ii) not have an expiry date.

2 Developer to provide Security

- (a) The Developer will provide security to the Minister for the value specified in column 2 in the table in clause 1 of this Schedule 5 (**Table**).
- (b) From the date of this deed up until each corresponding Trigger Event, the Minister will be entitled to retain the Bank Guarantee.

3 Claims under the Security

- (a) The Minister may:
 - (i) call upon the Security where the Developer has failed to perform the Conservation Contribution by the date for performing the Conservation Contribution under this deed; and
 - (ii) retain and apply such monies towards the costs and expenses incurred by the Minister in rectifying any default by the Developer under this deed.
- (b) Prior to calling upon the Security the Minister must give the Developer not less than 10 Business Days written notice to perform the required Conservation Contribution.
- (c) If:
 - (i) the Minister calls upon the Security; and
 - (ii) applies all or part of such monies towards the costs and expenses incurred by the Minister in rectifying any default by the Developer under this deed; and
 - (iii) has notified the Developer of the call upon the Security in accordance with clause 3(b) of this Schedule 5,

then the Developer must provide to the Minister replacement Security to ensure that at the relevant time, the Minister is in possession of the required Security.

4 Release of Security

If the monies secured by the Security have not been expended and the monies accounted for in accordance with clause 3 of this Schedule 5, then the Minister will promptly return the Security to the Developer on the Trigger Event shown in the Table.

EXECUTED as a deed

Signed sealed and delivered for and on behalf of the Minister for Planning and Infrastructure in the presence of: PPU WWW

Signature of Witness

Signature of the Minister for Planning and Infrastructure PRY 2/10/14

Name of Witness in full

Minister for Planning and Infrastructure

Signed sealed and delivered by NSPT Pty Limited (ACN 103 118 190) in accordance with Section 127 of the Corporations Act:

Signature of sole director and secretary

Name of sole director and secretary

Signed sealed and delivered by Telicove Pty Limited (ACN 078 197 707) in accordance with section 127 of the Corporations Act:

Signature of Director

Name of Director / SECRETARY

Signature of Director/Secretary

Name of Director/Secretary

Signed sealed and delivered by Gousse Holdings Pty Ltd (ACN 003 591 366) in accordance with section 127 of the Corporations Act: Signature of Director PETER CROKE Name of Director	Signature of Director/Secretary HOLLE CROE Name of Director/Secretary
Signed sealed and delivered by Anthony Roy Smith in the presence of: Signature of Witness Penerope Robinson Name of Witness in full	Signature Ann+ony Smi774. Name
Signed sealed and delivered by Julia Deborah Smith in the presence of: Signature of Witness Pence Pence Pence Name of Witness in full	Signature 50 Ira Sn. H. Name

Signed sealed and delivered by Fletcher Project Developments Pty Ltd (ACN 089 163 664) in accordance with section 127 of the Corporations Act:)))
Signature of Director Name of Director	Signature of Director/Secretary ALAN HEATHLOTE Name of Director/Secretary
Signed sealed and delivered by David John O'Connor in the presence of: Signature of Witness	} Dolows Signature
PENELOPE ROS,N50N Name of Witness in full	DAVID O'CONNOR Name
Signed sealed and delivered by Carol Fay O'Connor in the presence of: Signature of Witness))) Signature
Pさいにしゅう RoB/NSがい	CAKON O'CONNOR Name

West Byron Submissions

Table of Contents

SUBMISSIONS OF OBJECTIONS	3
Environmental	3
Belongil Creek/Estuary/Cape Byron Marine Park/	3
Flora and Fauna	11
Sustainability	31
Weather/Water/Sewer/Drainage	32
Climate Change	32
Flooding	37
Stormwater	48
Sewer	56
Acid Sulfate Soils/Groundwater	59
Amenity within the Proposed Development	83
Immediate Neighbourhood	
Character & Community of Byron	96
Economy of Byron	104
Affordable Housing	109
Services/Infrastructure and Social Impact	
Aesthetics	119

Heritage	119
Fill and Construction	121
Lack of Consistency with Other Policy	128
Best Practice	144
Issues within the DA	145
Combined Issues 661 & 201	145
Stand Alone Submissions to be reviewed	160
SUBMISSIONS OF SUPPORT	162

SUBMISSIONS OF OBJECTIONS

Environmental

Belongil Creek/Estuary/Cape Byron Marine Park/

Issue
The site is a low lying wetland that feeds directly into Belongil Creek. It is
directly adjacent to the Belongil Creek, close to the estuary and the
Cumbebin Swamp Nature Reserve. The drains in and around the site are
tidal and thus part of the Belongil Estuary. The Cumbebin swamp,
adjoining peat bogs and Belongil creek delta, together drain the lowlands
surrounding Cape Byron and the current township. Many hundreds of
millions of years ago the Cape would have been an island.
The land developers are now considering building over marine silt that

The land developers are now considering building over marine silt that has infilled as the sea withdrew. This area forms a very sensitive wetland, wildlife corridor and ecosystem drained by the Belongil creek into a protected marine harbour. Water levels in this swampland are barely a meter below the surface and during the rainy season, the entire area goes underwater until the swamp and creek can do their job.

Belongil Estuary is a Special Purpose Zone for environmental rehabilitation in the Cape Byron Marine Park. It is an important place for flora and fauna.

The Belongil Estuary and Creek is now surrounded by a large industrial area and a large housing estate and is already impacted by these existing developments; adding another development of this size is scandalous.

10.2017.201.1 & 10.2017.661

DA

The Belongil beach is a well loved and used beach that will irrevocably be negatively changed with the amount of run-off from the West Byron site that will inevitably flow into/onto it and even out to Julian Rocks. Belongil creek is completely silted up.

The Estuary is already degraded by major pollutants from the West Byron Sewerage Treatment Plant, stormwater runoff, point sources such as Sunnybrand Chicken Factory, leachate from the old Byron Bay tup, and runoff from ASS and agricultural lands. It is in need of environmental repair and is in such perilous state that it cannot cope with further degradation. The Office of Environment and Heritage's Water and Coastal Science Section (Scanes, P. 2009,pers.comm.) at that time, considered Belongil Creek among the most severely disturbed estuarine systems in NSW based on the

results of water quality sampling by Australian Wetlands (2009) (as in Cumbebin Swamp Nature Reserves – Plan of Management 2012). This DA will greatly exacerbate this situation.

A 2001 study noted that the estuary is impacted by poor quality stormwater originating from urban and rural precincts, by acid runoff from rural areas during adverse seasonal conditions and by potential point sources of pollution (Parker and Pont, 2001).

A 1999 report notes fish kills in the creek have been attributed to high levels of dissolved aluminium and high acidity. (Tulau) Fish deaths have also been noticied more recently in Suffolk.

Considering that the Belongil is known by water authorities to be 'stressed' and in danger of further degradation we certainly need more scientifically collected/collated data to be able to even consider that this

system could handle an increase in run off from new residential housing properties.

The required baseline studies to assess the current health of the Belongil estuary need to be undertaken and a Belongil Creek Plan of Management prepared in accordance with DCP - before the pollution from the development can be considered in context. A Plan of Management for Belongil must be created prior to approval.

The development should not be allowed to direct runoff from the site directly into a central drain which is part of the Belongil Estuary. Drainage is bound to end up in Belongil Creek and into the Marine Park – causing Environmental problems. The likelihood of acid sulphate soil being released into local waterways is huge negative impact and will kill marine life. The quality of the fill is of particular concern as the potential of it will go into the Belongil Creek – particularly at the building phase – is a genuine concern. Belongil Creek and Estuary should not be allowed to be contaminated. A detailed assessment of the current health of the Belongil estuary and all waterbodies and groundwater on the site is needed. To identify the potential extent of disturbances to, and drainage of, ASS and to estimate the likely impact various development scenarios will have on the Estuary. Impacts and solutions need to be considered on a whole of site basis.

The creek will start to drain even more heavily polluted water into Byron Bay coastal water. Polluting the bay is contrary to NSW Government Policy. The State Government recognises the importance of protecting our natural environment, specifically referencing activities that this deveopment is clearly a threat to. To quote the NSW DPI: "Important aspects of conserving marine biodiversity include marine

pollution reduction programs, climate change responses, marine biosecurity, threatened species recovery, resource use and boating management, land-use planning and catchment management.'

NSW Dept of Primary Indusries - [accessed 28/3/18]

https://www.dpi.nsw.gov.au/fishing/marine-protected-areas

Thus, it is apparent that NSW Plannng is contravening NSW DPI within this DA should therefore be rendered void.

The DA has insufficient information as to how pollution to the waterways will be managed.

Belongil Estuary is a Coastal Environment Area under the 2016 draft Coastal Management SEPP.

The site contains land identified as Coastal Wetlands Area and Coastal Wetlands Proximity Area which falls within Coastal Management Area 1: Coastal Wetlands and Littoral Rainforests Area – SEPP Coastal Management. The discussion paper states: "Development consent must not be granted to development on land within the 100m perimeter area of a coastal wetland unless the consent authority is satisfied that the development will not significantly impact on: -the biophysical, hydrological or ecological integrity of the adjacent coastal wetland, or – the quantity and quality of surface and ground water flows to the coastal wetland if the development is on land within the catchment of the coastal wetland. This DA has not given due consideration to the draft State Environment Planning Policy (Coastal Management) 2016, with 2.1 ha of mapped SEPP Coastal

Wetlands proposed to be filled and extensive works undertaken within their 100m proximity areas and a Coastal Environment Area. Proposed lot 401 sits partly within land marked as proximity area for coastal wetlands under the Draft State Environmental Planning Policy (Coastal

Management) 2016 (Draft SEPP).	
Intent to construct drainage works and potentially undertake some fill	
works within the mapped coastal wetlands, and outside the 'low density	
residential zone' must be considered. The impact of urban and flood	
runoff being discharged directly into the Coastal Wetlands and Coastal	
Wetlands Proximity Area must be considered.	
Villa World has not considered the impacts they will have on the mapped	
coastal wetlands and littoral rainforest area as the south-eastern part of	
the development is mostly within the coastal wetlands proximity area.	
It seems some fill works will take place within the mapped Coastal	
wetlands. There will be significant effects resultant from urban and flood	
runoff being discharged directly into the Coastal Wetlands and Coastal	
Wetlands Proximity Area that must be considered.	
Natural systems - have "tipping points" beyond which damaging change	10.2017.201.1 & 10.2017.661.1
becomes irreversible (e.g. species loss, climate change, groundwater	
depletion, land degradation). However, these thresholds are in many	
cases not yet fully understood, nor are the environmental, social and	
economic consequences of crossing them (OECD, 2012, p. 4). The West	
Byron Development must be stopped, because it's approval will	
undoubtedly speed up the tipping point for this region. The	
environmental crisis originates with the inability to think about ecological	
patterns, systems of causation, and the long-term effects of human	
actions. Eventually these are manifested as soil erosion, species	
extinction, deforestation, ugliness, pollution, social decay, injustice and economic efficiencies. (1994, p. 2).	
Ευστοπτία επταεπαίες. (1334, μ. 2).	
This area has been defined by a commitment to Ecologically Sustainable	

Development since 1996.	
Rubbish – developments cannot mediate against all rubbish being disposed of in the proper way from any area. A new and large residential area on the banks of the Belongil can only increase the rubbish finding its way into the creek. There is considerable scientific evidence which now demonstrates the huge impact rubbish can have on both the birdlife and on the fish and turtles in the waterways.	10.2017.201.1 & 10.2017.661.1
Belongil Creek's eco system will be damaged beyond recovery during the construction period.	10.2017.201.1 & 10.2017.661.1
Can Council afford to keep mitigating beach erosion on Belongil Beach as demanded by private landholders in that vicinity?	10.2017.201.1 & 10.2017.661.1
It is clear that these are lands best returned to wetlands, rehabilitated as wild floodplains. Intensive residential and industrial development exacerbates conditions and degrades waters. The Belongil and the Cape Byron Marine Park are part of the whole-of-catchment planning which must be accounted for first. The developer's reports do not address these issues in the detail required and yet a DA such as this, drawing its authority from these inadequate reports is to be taken seriously?	10.2017.201.1 & 10.2017.661.1
This area is important to aquatic life freshwater and marine. Pollution via the industrial estate drain (actually a channel) and the overall flow throughout the site is a serious issue and what the DA proposes will exacerbate this with widening, deepening, and facilitating a rapid flow through this already troubled channel. Some of the responsibility for better management and better outcomes for not only water flow but aquatic wildlife is part of the brief for the newly revived Union Drain Trust. The DA ignores its impacts on the channels of the Trust and of the waters of the catchment. The DA ignores the important requirements of buffer zones full of trees and extending 50-100 metres along each bank.	10.2017.201.1 & 10.2017.661.1
Our wetlands are precious and must be protected, area is SEPP 14 . Byron	10.2017.201.1 & 10.2017.661.1

is part of the Northern Rivers – gaining its regional name from the regular & heavy rains we receive. The Plan of Management Cumbebin Swamp Nature Reserve February 2012 states that this reserve was established in 1999 to protect a significant component of the Belongil-Cumbebin wetland. The proposed West Byron development is sited on part of the last active floodplain in the area. These wetland areas act like a sponge to absorb these rains & filter them before releasing clean water to the ocean. Therefore this area is integrally linked to our beaches, coastline & fishing resources.

The DAs show a lack of information and understanding of impacts of fill and resultant drainage on SEPP 14 wetlands and Belongil creek catchment. Swamplands are wonderful areas to be kept as National Parks.

Runoff from 19% of the urban area will be discharged directly into the Belongil Special Purpose Zone of the Cape Byron Marine Park, and 37% will be discharged into SEPP 14 wetlands, with 44% discharged into the central drain and thence into Belongil Creek.

The only regeneration project that has been implemented in over a decade is the West Byron Wetlands and the Melaleuca Plantation (Extraordinary Water, Waste & Sewer Advisory committee meeting, December 2017).

Creating potential new urban areas in a swamp northern sub tropics has the potential for heightened risk for Tick Typhus, Ross River and other insect borne diseases.

Wetland, with the effects of increasing climate change, is destined to become a coastal swamp. This land will return to swampland regardless of how much fill is dumped.

Locals are working to regenerate the wetlands along with guidelines and	
the help of "land for wildlife" or "Wetland Care Australia" while the	
developer next door should be allowed to commit environmental	
vandalism.	
These swamps are imperative for Nature to function healthily, as they are	
the balancer of the salty ocean waters and the inland sweet watersplus	
all the animal life in it. There is NO soil that can be spared to fill a	
swampthis is all estuary up and down the coast too. australia is the	
flattest and driest continent on earth.	
2.1 ha of mapped SEPP Coastal Wetlands proposed to be filled and	10.2017.201.1 & 10.2017.661.1
extensive works undertaken within their 100m proximity areas and a	
Coastal Environment Area. The DA's must consider their impacts on	
currently mapped Coastal Wetlands (and the requirement for an EIS) and	
the Coastal Environment Area.	
The area considered for development was once part of the Cumbebin	10.2017.201.1 & 10.2017.661.1
Swamp. Before European settlement the proposed area was a paperbark	
wetland and a crucial component of the Belongil Creek ecosystem,	
reducing runoff and water flow from storm events, filtering the water and	
providing habitat for a myriad of terrestrial and aquatic creatures. The	
area was drained to provide pastures for grazing in the first half of the	
20th century when no controls were placed on such significant works, and	
there was little understanding of the impact this would have on wetland	
ecosystems.	
Despite this, the area still retains many of its previous attributes:	
absorbing rainwater, reducing run-off and ameliorating flood events,	
locking up acid-sulphate soils thus preventing the leaching of acidic water	
into the estuary, and providing habitat for vitally important species.	

How will the leeching of fill into the wetland be managed?	10.2017.201.1 & 10.2017.661.1
The applicant appears to have falsely or incorrectly marked 'NO' for excavation or filling of a waterway [most likely marginal wetland when sea level rise is factored in].	10.2017.201.1
Flora and Fauna	
The site is part of a larger eco-system that will be affected. Previous State government studies and the award winning Biodiversity Conservation Strategy have identified this land as a regional wildlife corridor, containing high conservation value vegetation.	
Development will have negative impact on biodiversity, on the delicate ecology of the site and on the areas environmental diversity. Lack of realistic consideration for the protection of the flora, fauna and hydrological features of this vulnerable wetland site. Many species are at danger. Two threatened species (Wallum Froglet, Olongburra Frog) and three vegetation communities (Swamp sclerophyll forest, Freshwater wetland, Fernland) at the site are considered groundwater dependent (Australian Wetlands Consulting Pty Ltd 2010).	
Residents of the shire over many years have invested money and time to prevent the destruction of habitats for our flora and fauna, they understand the connectivity in the landscape for biodiversity survival, any native vegetation is important as habitat for a multitude of species that support biodiversity – it should not be available for the developer to destroy.	
Flora- The NSW Office of Environment & Heritage profiles the Coastal	10.2017.201.1 & 10.2017.661.1
floodplain forest of the NSW north coast bio-region as an endangered	
ecological community and its list of threats include further clearing for	
urban and rural development; flood mitigation and drainage works;	

management of water and tidal flows; landfilling and earthworks associated with urban and industrial development; changes in water quality, particularly increased nutrients and sediments; activation of acid sulfate soils; and climate change.

The proposal will directly and indirectly adversely affect a number of Threatened Ecological Communities (NSW *Biodiversity Conservation Act* 2016), particularly *Freshwater wetlands on coastal floodplains of the NSW North Coast, Sydney Basin and South East Corner bioregions* and *Swamp sclerophyll forests on coastal floodplains of the NSW North Coast, Sydney Basin and South East Corner bioregions*;

Seven vegetation associations: Littoral rainforest, Swamp forest, Mangrove forest, Frontal Dune complex, and Grassland; and five species of flora in the catchment listed as threatened under the Threatened Species Conservation Act: Stinking Cryptocarya (*Cryptocarya foetida*), Red Liily Pilly (*Syzygium hodgkinsoniae*), Durroby (*Syzgium moorei*), Arrowhead vine (*Tinospora tinosporoides*) and Swamp Orchid (*Phaius tancarvilleae*). Four Endangered Ecological Communities have been identified in the catchment by IERM (2005): Saltmarsh, Freshwater wetlands on coastal floodplains, Littoral rainforest, Lowland rainforest on floodplain, and Swamp Schlerophyll Forest.

The flora that grows in this area is specific to the ecology that exists and is needed for this highly wet low lands. The fauna seen on these wetlands, the swamp, the creek and the flats are native and have evolved to grow here to hold the balance of power.

The DAs should provide appropriately biologically-sensitive responses to the issues that will inevitably impact on the area, as listed below. Countries around the world are recognising the rights of Nature, as is the UN. The rights of this ecosystem as well as the community of the Byron area who are united in our opposition to this unsustainable development need to be respected.

It is not to audacious a claim to say that Trees evolved on this planet before human beings and they made it possible for the conditions that gave rise to our existence. (refer to Morris Lake QQDMs' publication 'Australian Rainforest Woods')

We have all but destroyed the Big Scrub in the past 150 years since settlement on the North Coast. Only a few scattered small remnants remain, and they are not secured. Bell Minor die back threatens 37,000 hectares currently of our surrounding forests. The road to Tweed which early settlers said they could "barely see the sky" for trees is now stripped bare of this once great forest.

Australia is a cradle of biodiversity, with world significance. Our trees have had a continuous presence in our rainforests for over 240 million years. Australia has about 5300 native wood producing trees, of which approximately 1200 are found in our rainforests. By comparison, the UK has 47 indigenous tree species, Western Europe North of the Pyrenees and the Alps contains 67 indigenous tree species. Add to this the fact that Australian rainforests contain representatives of 12 of the world's 19 living primitive plants, plus 65% of our ferns and 30% of our orchids. That we know of.

These forests once covered 60% of Australia. Today however they cover a mere 0.12% of the continent.

Local landholders are proposing to clear 1.8ha of Environmental Zones,

10.2017.661.1

10.2017.661.1
10.2017.
10.2017.
10.2017.
10.2017.
10.2017.
40 2047 204 4 0 40 2047 664 4
10.2017.201.1 & 10.2017.661.1

humans but also the flora and fauna living in and along it. There are migrating shorebirds (Pacific Golden Plovers, and others travelling long distances) and resident shorebirds (eg the threatened Beach-stone Curlew, Red-capped plovers, Pied Oystercatchers) which live on the banks of the Creek.

Increased numbers at Belongil mean less undisturbed habitat for shorebirds and terns; disturbance decreases the bird's ability to nest and produce young and maintain population, disturbance reduces the ability to feed and roost properly. Feeding and resting is very important to a migrating shorebird's ability to make a successful migration to their breeding grounds in the Arctic.

The DAs fail to protect and enhance threatened species and habitat. Development will take away the natural habitat of many native species. 48 threatened species, 39 migratory species and 2 endangered ecological communities are present on site.

Regular heavy rains regularly top-up the water table and the sight of the wetlands after a big rain is breathtaking - rapid increases in bird-life population in surrounding areas to the development proposal are regularly evident.

There has been campaigns to save the Little Tern which nests in the mouth of the Belongil against Club Med and for the proper protection of the Belongil ecosystem for many years.

You should be strongly reminded that local councils have a responsibility under several international agreements for the conservation outcomes for migratory birds.

Threatened species - have not been addressed. Fifteen Threatened fauna species under the NSW TSC Act 1995 have been recorded on West Byron, with 4 of these listed under the Commonwealth EPBC Act 1999. There has not been an attempt to consider impacts on threatened species and ecological communities in accordance with the Biodiversity Conservation Act 2016 instead of the repealed Section 5A of the Environmental Planning and Assessment Act 1979.

Coastal Petaltail Petalura litorea Mitchell's Rainforest Snail Thersites mitchellae Wallum Sedge Frog Litoria olongburensis Wallum Froglet Crinia tinnula Black Bittern Ixobrychus flavicollis Pale-vented Bush-hen Amaurornis moluccana Grass Owl Tyto longimembris Common Planigale Planigale maculata Koala *Phascolarctos cinereus* Grey-headed Flying-fox Pteropus poliocephalus Eastern Blossom-bat Syconycteris australis Eastern Long-eared Bat Nyctophilus bifax Little Bent-winged Bat Miniopterus australis Greater Broad-nosed Bat Scoteanax rueppellii Southern Myotis Myotis macropus; Most of these animals will be affected to varying extent by the development.

Other species that will be impacted by the development:

Echidnas

Wallabies

Possums Bandicoots Spoonbills Cranes Jacana Swamp hens Tawny frogmouth Blue heron turtles, goannas, black swans Swamp Wallaby's Jabiru Fish Eels Water dragons Freshwater turtles Sugar gliders Bats snakes Important insects And all the microorganisms that allow the balance of nature to exist We cannot afford to lose any of these; already the Green Tree Frog has become a rarity here as a result of glyphosate spraying. Four species, the Coolamon tree, Grey Headed Flying Fox, koala and Wallum Sedge Frog are listed as 'vulnerable' under the Environment Protection Biodiversity Conservation Act 1999(Cth) (EPBC Act)

The impacts on these species by the development are significant and	
therefore may require approval by the Federal Minister under s67 of the	
EPBC Act and should be referred by the proponent.	
No dogs and cats should be allowed due to the adjacent wildlife, some	
endangered and threatened. Domestic dogs—alone and in packs—are	
already seen in the Belongil area and on our property mauling and killing	
wildlife (e.g. wallabies).	
Villa World are proposing eliminating a population of wallum froglet and	10.2017.201.1
wallum sedge frog. They will be removing koala habitat and feed trees in	
part of an area representing core habitat for the nationally vulnerable	
koala. This needs to be referred to the federal minister in accordance with	
the Act.	
Koalas: Koalas are vulnerable species under the NSW Threatened Species	10.2017.201.1 & 10.2017.661.1
Conservation Act 1995 and Federal Environmental Protection and	
Biodiversity Conservation Act 1999.	
West Byron contains core Koala Habitat and is a pivotal link in a corridor	
for movement of Koalas within the larger population between North and	
South. Council identified primary koala habitat within the West Byron	
development site well over a decade ago, classifying it as High	
Conservation Value Native Vegetation in the Byron Shire Biodiversity	
Conservation Strategy (2004). There is evidence of a resident population	
of koalas centred on Belongil Fields with 5 systematic koala scat searches	
since 2010 and they all indicate a widespread and permanent koala	
presence on the site. Council's mapping identifies 3.3ha of Class one	
habitat and 3.4 ha of class two habitat at West Byron. Mapping criteria is	
consistent with SEPP 44. The 2010 Biolink study identified two areas of	
core Koala habitat extending onto the Villa World lands. Biolink 2012	
study identified significant patches of primary Koala habitat as occurring	

at West Byron.

The Ecological Assessment West Byron Project (Australian Wetlands Consulting 2010) concluded the likelihood of core koala habitat and therefore requirement of a Koala Plan of Management as per SEPP 44 for the future development of the site, "... once the rezoning process had been finalised". The Byron Coast Koala Habitat Study (Biolink 2012) identified significant patches of primary koala habitat at West Byron. Further, it identified a koala population "cell" west of the Byron Bay urban centre and extending towards Ewingsdale, through the Cumbebin Swamp to the site of the proposed suburb. Byron's Koala population comprises some 240 individuals. koalas have been recorded in this area consistently over a number of years which, according to SEPP 44, means it qualifies as Core Koala Habitat.

The following points are of serious concern;

- Loss of koala habitat and food trees;
- Fragmentation of koala habitat due to buildings, roads and fencing;
- Physical injury to koalas during tree clearance;
- Lack of food available to koalas in the period between clearance of existing food trees and development of new tree planting to provide suitable browse;
- Increased car hits of koalas due to the number of new cars driving along Ewingsdale Road;
- Increased mortality due to dog attacks on local koalas from new pets moving into the area;
- Increased disease due to the stress associated with habitat loss and the proximity of new development; and
- Insufficient duration of monitoring to be able to properly assess

the impacts from the development.

West Byron has 5.5ha of scattered patches of core Koala habitat of which 2ha (37%) is intended to be cleared, with the remnants fragmented by houses, roads and fences. In the current wildlife corridor ticks travel with animals through the corridor, when the corridors are destroyed by land clearance & building estates, toxic tick populations increase therefore running a high risk of affecting humans & leading to potential sickness & disease, eg 'Lime like disease'.

Anyone who understands koalas knows that they are deeply attached to their food trees and their ranges, and that its removal will expose them to significant stress. From our perspective, the stress caused by habitat removal is a significant factor in koala diseases such as Retrovirus and Chlamydia. It therefore fails to meet the SEPP 44 objective of encouraging 'the proper conservation and management of areas of natural vegetation that provide habitat for koalas to ensure a permanent free-living population over their present range and reverse the current trend of koala population decline'. We are most concerned that it proposes fencing of unspecified areas to exclude Koalas/dogs, ignoring the potential impact of fences on koalas rather than excluding dogs from the development, which we believe is essential if the development proceeds.

Friends of the Koala's Inc. particular opposition to the West Byron proposal is founded on the adverse impact it will have on the koala population. West Byron Site is essential for maintaining connectivity between koalas in the north and south. The proposed development would undoubtedly displace the koalas that presently use the site for occupation and dispersal, isolating those in the north from those in the south and potentially making those populations unviable. This would more than

likely lead to the demise of koalas south of Ewingsdale Road. Friends of the Koala - is a voluntary regional community group whose mission is conserving koalas, particularly in the Northern Rivers region, in recognition of the contribution the species makes to Australia's biodiversity. We're licensed by the Office of Environment & Heritage to rescue, rehabilitate and release koalas in the region, and are also engaged in habitat protection and enhancement, community education, policy reform and research. We maintain a database of koala records, both sightings and rescues, from 1989 which includes over 1776 from Byron Shire. We are more than happy to provide you with our data if requested.

Habitat for koalas is rapidly disappearing. Lilli Pilli alone has regular tree removal occurring due to a change in fire regulations. In Lilli Pilli Drive, I have witnessed at least 12 large habitat trees removed during the last six months.

A variety of standard mitigation measures of unknown veracity are proposed for internal roads, and from our perspective, we believe that as well as speed signs there should also be speed humps that limit speeds to below 20km per hour where roads are adjacent to, or cross, environmental zones.

Currently the increase in sub-urbanisation means destruction of koala habitat.

Domestic pets play a significant role in this as does traffic movement.

DoPE ignored the Byron Coastal Koala Plan of Management and did not gain independent advice on koalas.

The developers should be required to remake their plans so that they are consistent with the Byron Coast Comprehensive Koala Plan of Management, Byron Shire Development Control Plan 2014. A Koala corridor, 200m wide, should be a vital requirement.

There needs to be a Koala plan of management for the whole site (both DA's) that identifies stands of Koala habitat, location of all feed trees >20cm dbh, and actual Koala movement corridors through the site. Impacts of clearing, fill drainage, roads, tracks and development on Koala habitat, koala feed trees , koala movements and koala mortality need to be detailed and specific protection and mitigation measures identified. The establishment of a 100m wide Koala corridor through the site that maximises the inclusion of core Koala habitat and avoids unsuitable habitat and lands subject to inundation due to climate change is considered a vital requirement for the persistence of Byron's Koalas.

We believe a robust Individual Koala Plan of Management with a focus on connectivity enhancement prepared under NSW law and Federal law (we have written to Minister Frydenberg reminding him of his predecessor's assurance that his Department will continue to engage with the proponents in regard to the potential for impact on the Federally-listed vulnerable koala) is the only chance that animals using West Byron for occupation and dispersal will have for their future survival. When stressed, koalas become more vulnerable to chlamydia. Habitat destruction and fragmentation are both extremely stressful to these protected and iconic native animals.

There are many other inadequacies in this plan and we believe that it meets the referral guidelines for the vulnerable koala and should

therefore be referred to the Federal Environment Minister for	
consideration under the EPBC Act.	
It will take us one stan closer to the directivation in the Tweed coast	
It will take us one step closer to the dire situation in the Tweed coast where koalas are now officially classified as 'endangered', with "a	
government-appointed scientist warning no such population has yet	
recovered from the grim label" ("Tweed koala population is officially	
'endangered'.", Tweed Daily News, 9th May 2016).	
The work associated with the drainage system will pass through	10.2017.201.1
significant stands of Class 1 koala habitat. Villa World propose to remove	10.2017.1201.1
1.22ha of vegetation that is class two habitat. The increase in traffic will	
also significantly increase the risk of vehicle strike for the local koala	
population.	
The impact statements prepared for the developments argue that there is	10.2017.201.1
no core koala habitat within the development boundaries and that koalas	
recorded in this area are transient. We are astounded that the ecological	
assessment report prepared for the proponent's development application	
by Planit Consulting Pty Ltd concludes that the site under consideration	
does not contain potential koala habitat and therefore a Koala Plan of	
Management (KPoM) is not necessary. We can only surmise that being	
Gold-Coast based, their knowledge of the requirements of State	
Environmental Planning Policy no. 44 – Koala Habitat Protection (SEPP 44)	
including the calculation methodology for assessing the quantum of koala	
food trees, is lacking. However there can be no excuse for ignoring the	
requirement in Council's West Byron Development Control Plan (DCP) for	
preparation of a KPoM. What both consultants fail to acknowledge is that	
much of the original koala habitat in the area has been removed over the	
years for other developments. Therefore, the local koala population is	

now forced to reside in what may be considered sub-optimal habitat, but	
which is critical for the survival of the local population. Although much of	
the site is dominated by grassland with scattered trees, these scattered	
trees are an important habitat resource for koalas, particularly in highly	
fragmented landscapes such as occur in the West Byron area. This means	
the scattered swamp mahogany trees are of greater significance for the	
local koala population than may otherwise be the case in a heavily	
forested landscape. Although the assessments may have been	
undertaken in accordance with certain relevant guidance, such as that	
habitat protection and mitigation should focus on habitat areas that are	
large and well connected, this fails to take account of the fact that the	
existing pressures on these koalas have forced them to live in increasingly	
smaller pockets of habitat. Therefore, removal of any of these food trees	
for the development cannot fail to impact on the local koalas, which are	
already struggling for survival due to urban expansion.	
The DA fails to adequately address koala impacts on site through the	
submission of a Koala Plan of Management for the site and its	
development, including dealing with potential threats to connectivity and	
the failure to protect and enhance threatened species and habitat. Koalas are currently active on the site and travel from Brunswick to Broken Head.	
The DA proposes to remove 13 Swamp Mahogany Trees (key Koala feed)	10.2017.??
though does not identify these and their sizes. Proposing to replace these	
with seedlings that will take decades to grow large enough to function as	
feed trees is nonsense. Such a proposal needs to be clearly identified	
within the context of a Koala Plan of Management.	
The AWC Koala Plan of Management (which incidentally only covers the	10.2017.661.1

private landholder application) is inadequate in that not only does it fail to recognise this core koala habitat but also proposes the removal of 37% of it on the site. It fails on many grounds, and is not a management plan, but a species eradication blueprint. It fails to recognise core habitat, and endorses the removal of core Koala habitat and feed trees in Ezones. The PoM does not give regard to the whole site, and fails to identify the location and size of Koala feed trees throughout the site to enable a proper assessment of impacts and mitigation measures It ignores requirements in the draft Byron Coast Comprehensive Koala Plan of Management (2015) for 50m buffers around core Koala habitat, and fails to account for the time lag of decades between planting trees and their providing significant browse for the animals, and the increased use of trees with age. Is inconsistent with Byron Shire Development Control Plan 2014 - Chapter E8 - West Byron Urban Release Area. Although mitigation proposed for koalas includes retention of certain areas of habitat and new planting of swamp mahogany trees, this does not take into account the time lag between the planting of new trees and them becoming suitable to provide food and shelter to koalas. Also the retained areas of habitat will be totally surrounded by development, isolating the koalas even further. The mitigation proposed is based largely on keeping the koalas and their habitat separate from the developed area, as it is unrealistic to exclude dogs and cats from the development. I agree that excluding dogs and cats is unrealistic, as there is neither the will nor the manpower to enforce such a restriction. However, one section of the KPoM says that fencing will be used to prevent dogs accessing koala habitat, while another says that "fencing of residential lots must not impede movement of koalas bottom of the fence must be a minimum of 300mm above ground to let koalas move beneath......" These two statements severely conflict with each other.

The proposed mitigation also includes a Construction Environment Management Plan (CEMP) which requires that an ecologist must check the site immediately prior to any trees being removed. However, these checks are often ineffective as koalas can be difficult to see and are often missed, as evidenced by a number of koalas that have been taken into care at Friends of the Koala as a result of being injured when the tree they were sitting in has been cleared for felling by an ecologist. In addition, the CEMP is apparently only relevant when clearing in Preferred Koala Habitat or clearing Preferred Koala Food Trees, it does not take into consideration the fact that koalas regularly use non-food trees during the day for shelter, so these would also require checking prior to felling.

Monitoring of mitigation measures is proposed for a five year period following granting of planning permission, or commencement of works. Five years is not sufficient for the new tree planting to benefit koalas and is also not sufficient to determine any impacts on the local koala population from construction or post construction once the development is occupied and more dogs and cats are brought into the area.

Frogs: There are two local populations of the nationally vulnerable Wallum Sedge Frog (Olongburra Frog) on West Byron, a western population in a 0.65ha wetland that is known to have been present for the past 8 years and an eastern population known from one individual found in 2010. Wallum Frog and Wallum Sedge Frog is at risk and insufficient information is given as to how this issue will be addressed.

Changes in hydrology, habitat eutrophication and pollution, use of biocides in weed and mosquito control, vehicular traffic will all impact the frog populations.

The National Recovery Plan guidelines states preference for:

10.2017.201.1

- -the remnant patch of fernland within which the Wallum Sedge Frog resides to be retained and provided with a 50m buffer within which regeneration of wetland species is encouraged.
- -establishment of a 20m buffer on the western drainage line encompassing wallum froglet habitat and fernlands
- -the drainage line to act as a link for the wallum sedge frog back to the SEPP coastal wetland and through a road underpass through to the industrial estate and beyond,
- -design of surrounding development to ensure maintenance of current water tables and water quality in retained habitat.

The National Recovery Plan for the wallum sedge and other wallum-dependent frog species, identifies that in northeast NSW "habitat loss and fragmentation due to urban development remains one of the main threats to wallum frog species" it is noted that "habitat has become highly fragmented leaving many small isolated populations. It is the loss of the wallum habitat on freehold land that is of most concern. With population growth in coastal areas on the increase, much of the remaining habitat on freehold land may be lost to residential development and associated infrastructure". The National Recovery Plan gives guidelines for habitat management and should be followed. It is likely that the site is important for the dispersal of wallum frogs, though this hasn't been assessed. There has been no attempt to identify the status of the surrounding populations of wallum frogs, the relative importance of the villa world populations, the importance of the site for dispersal, the suitability of alternative sites (soil structure, acidity, water permanence etc.)

The commonwealths draft referral guidelines for the vulnerable wallum sedge frog make it abundantly clear that this development should be referred to the federal minister in accordance with the EPBC Act

The wetland within which the Wallum Sedge Frog occurs, along with an adequate buffer, needs to be identified for protection, along with a corridor along the stream linking this wetland to other wetlands. At the very least, no roading or development affecting this area should be undertaken until protection and mitigation measures are identified.	
For Wallum Sedge Frog is it just stated "A bio-baking assessment report is	10.2017.?
currently being undertaken for the wallum sedge frog".	
Removing frogs with bio-banking agreement is not an appropriate offset	
mechanism. We still do not fully appreciate the impact of removal or	
destruction of fragile eco-systems and potentially endangered species	
should be protected at all costs.	

The Wallum Sedge Frog has been recorded in small wetland on Lot 6 in the west of the approved development and the State Vulnerable Wallum	10.2017.201.1
Froglet is common around drainage lines and swamps in the West of the	
site. There are two mapped drainage lines that are likely to be corridors	
for the dispersal of frogs between Cumbebin and Tyagrah. The DA	
appears unclear of exactly how much habitat they will destroy, variously	
stating it as 0.57ha or 0.65ha. I assess the remnant patch of wetland and	
fernland as 0.68ha. The habitat of the western population of the Wallum	
Sedge Frog will be eliminated by covering its wetland with 3m of fill,	
houses and roads. This population needs to be protected with 50m	
buffers along with a dedicated corridor linking its habitat through to the	
SEPP 14 wetland to the south and under Ewingsdale Road through to the	
habitat near the sports-field to the north. The Eastern population needs	
to be resurveyed and appropriate mitigation measures identified. It is	
submitted that under the current proposal the Eastern population's	
habitat will be so changed by fill and stormwater that it cannot survive.	
The State Significant Site approval was based on the premise that both	
these populations will be protected.	
Failure to protect and enhance the existing Wallum Froglet populations,	10.2017.201.1
which is Council's preferred action, the result of;	
i)There is a lack of 50 metre buffer and linkage along drain and	
watercourse lines; and	
ii)Removal of the key Wallum Frog habitat is inappropriate; and	
iii)Failure to adhere to the National Recovery Plan for the Wallum Sedge	
Frog and other Wallum dependent frog species.	
The proposal provides inadequate protection. There is no intent to	
establish 50m minimum buffers, provide vegetated links to other habitat,	
minimise soil disturbances in the vicinity, prevent nutrient enrichment	
from runoff, limit the use of biocides, manage recreational use or	

undertake monitoring.	
Suggestions –	10.2017.201.1 & 10.2017.661.1
Biodiversity Development Assessment Report needs to be done	
Environmental Impact Study needs to be done. An EIS should also ensure	
that the major components of development should be considered for the	
whole area and include plans that are applicable for all the lands for such	
key issues such as environment, traffic, stormwater and drainage,	
bushfire and emergency management.	
Species Impact Statements must be prepared for the Wallum Sedge Frog	
and Koala and these should be referred to the Commonwealth for	
consideration under the EPBC Act 1999.	
The sound buffer wall is to be "free of gaps and holes", effectively	
blocking any movement of native animals.	
The plan does not allow for wildlife corridors and it should.	
Developers to provide overpass to the Arts and Industry Estate.	
Development area to have access to Skinnars Shoot Road also	
DAs are based on out-dated survey data and does not understand the	10.2017.201.1 & 10.2017.661.1
science and actual topography of the land itself and its wider location	
within the surrounding landscape. The impacts of the proposal on the	
biodiversity attributes of the site and surrounding lands have been	
inadequately assessed and mitigated, with the design of protected areas	
and wildlife corridors significantly flawed and against the most basic	
principles of biodiversity conservation planning;	

Sustainability	
Development not in line with sustainability agenda and ethos of the Shire. The Building industry is one of the most intensive greenhouse gas intensive in Australia and any conventional building practices should be ceased and a focus on better quality design, building materials, and planning needs to come into play right now. We must protect the earth, we only have one planet!	10.2017.201.1 & 10.2017.66.1
How can the development be considered without requirements for solar power, sustainable building and environmental amalgamation? If we must build on our living swamps and peat marshes, we can only reasonably look at highly innovative building designs that take the floodplain and fragile ecosystem into account at all levels - structural, plumbing and drainage, solar, water gardens, soil revitalization etc. In amongst the unique houses that could be developed, there would still be room for affordable housing should the designers become creative with their planning. Any housing on this site should be designed to world class sustainability standards.	
the DA ignores sustainability principles and best practice: the plans are to create a new type of slum: there is no emphasis on 'green' options: solar power, rain water collection, grey water plumbing, recycled water provisions and uses, whole-of-site drainage issues, social and ecological amenities and respect for site and community.	
Our community is working towards Zero Emissions by 2025 – this development will not help us.	10.2017.201.1 & 10.2017.66.1
There is more than enough evidence to show us that if we are to not only survive, but thrive as a species, we need to caretake the environment, not destroy it.	10.2017.201.1 & 10.2017.66.1

I would only support an environmentally sensitive, sustainable, low-	10.2017.201.1 & 10.2017.66.1
density development on naturally high ground, not requiring fill or	
minimal fill. Byron Bay does not have the infrastructure for the proposed	
Gold Coast-style mega-suburbia development.	
The proposed development is in denial of geo science and a world	
increasingly affected by Global Warming, rising oceans, increased	
flooding, extreme weather events, etc. Only best-practice sustainable	
housing should be considered. The developers' greed to maximize profits	
at all cost will destroy Byron Bay's amenity for residents and visitors alike.	
Byron Bay's point of difference, uniqueness and attraction is based on our	
natural beauty and our regard for it.	
The Australian School curriculums (ACARA) major focus on sustainable	10.2017.201.1 & 10.2017.66.1
living and sustainable communities. What is proposed to happen with the	
West Byron development contravenes the principles of sustainability	
taught to all Australian students. The development contravenes the	
ACARA teachings in the following ways; <u>Sustainable Transport</u> ;	
Healthy Water Systems; Sustainable Ecology; Engineering and Landfill	
Weather/Water/Sewer/Drainage	
Climate Change	
Prior to rezoning the property owners thought only a small section of the	
site was flood prone and only a small amount of fill would be required –	
now with a re-assessment of the effects of climate change the whole site	
would seem to be considered flood-prone land. Many houses on flood	
prone areas already exit – new ones should not be allowed which will	
increase the risk to others. Will future landowners be able to get	
insurance to protect their investment or will it be the future taxpayer's	
that will need to compensate the land owners after each flood and storm	
event? Do residents and businesses in West Byron have a case to sue for	
damages?	
uailiages:	

Sea-level rise - The current CSIRO projections are for a 3.25 Centigrade temperature rise, which correlates to an approx. 6.5 Metre sea level rise, when the sea level rise comes into a final equilibrium with the temperature increase (and note that the sea level rise will likely be higher as the Federal Governments Greenhouse Gas quarterly Reports show that Australia's Greenhouse Gas levels have increased over the last 6 Quarters). This DA is based on a false allegation of a 2 degree rise by century end and on false eventual sea level rise statistics. This site will be inundated by the projected sea level rise, with the subsequent impact that owners will loose their land title, which will go back to the Crown. The State Government is acting like crooked car salesmen.

As sea-level rise it will become increasingly difficult to maintain the estuary at its reduced height. Belongil Estuary is naturally an Intermittently Closed and Open Lake and Lagoon. That natural height to which water would rise behind the sand bar at Belongil before it breached has been variously claimed as being 1.8, 2.3 and 2.6m, whatever height it reached it which would have resulted is a very extensive wetland system upstream covering a significant part of West Byron. For the past two decades the mouth of the Belongil Estuary has been artificially manipulated, initially to open the estuary mouth when the water level behind reached a height of 1.2m above MSL, which was recently reduced to 1.0m above MSL. This will have had major and profound effects on the estuary and greatly reduce the habitat available for water birds.

The latest sea-level projections provided by the American Association for the Advancement of Science (Climate Science Special Report: Nov 2017) show an increasing trend towards higher sea-level scenarios than previously predicted, with probable sea-level rises by the turn of the century of between 1m and 2.5m. Current 5-year flood events will occur every 0.2 years; and minor tidal flood days per year will increase to more than 200 days.

According to the AAAS Climate Change Report:

'Under the representative concentration pathways-based probabilistic relative sea level projections of Kopp et al. 2014, at tide gauge locations along the contiguous U.S. coastline, a median 8-fold increase (range of 1.1- to 430-fold increase) is expected by 2050 in the annual number of floods exceeding the elevation of the current 100-year flood event (measured with respect to a 1991–2009 baseline sea level). Under the same forcing, the frequency of minor tidal flooding (with contemporary recurrence intervals generally <1 year) will increase even more so in the coming decades, and eventually occur on a daily basis.'

We can expect a similar scenario in Australia. By the turn of the century large areas of Byron Bay will be subject to constant or permanent flooding (see sea-level rise maps produced by the Australian Government), including the proposed development area. This is an incremental process, and serious flooding issues will eventuate at an increasing frequency over the coming decades.

Geoff Summerhayes is an Executive Board Member of the Australian Prudential Regulation Authority (APRA), a leading Australian regulator. In an Insurance Council of Australia Annual Forum, held in Sydney last February Mr Summerhayes raised the matter in a speech, entitled 'Australia's new horizon: climate change challenges and prudential risk'. Mr. Summerhayes, described his remarks as "absolutely consistent with the approach that is being taken overseas" and

that leading global regulators including the Bank of England, the Financial Stability Board and others have been at pains to emphasise both the physical risks associated with climate change (which include the direct business impacts of a changing climate). His speech reiterated that approach and highlighted the importance of predictable, effective policy responses to meet emissions reductions commitments, noting that policy uncertainties, delays, and reversals make transition risks larger and more difficult to deal with. The latest report, from the US National Oceanic and Atmospheric Administration, cites studies that argue a sea level rise of between 2 and 2 point 7 metres is now a 'plausible worst case scenario'. Mapping tools like Coastal Risk Australia from geographical services company, NGIS, suggest a 2-metre rise would render most of the West Byron project unliveable.

Mr. Summerhayes made clear that APRA expects regulated financialsector entities like insurers and banks to consider the impact of climaterelated risks on their actions. Does this also apply to consent authorities like the JRPP?

The location of the proposed development is predicted to be inundated by sea water due to climate change if the planet warms at current predictions. So within 100 years this development will be defunct and the approval of it is not justified. (see image below- Source - Coastal Risk Australia http://coastalrisk.com.au/).

As per the extract from Councils Rural land use strategy "Constrained Land", the proposed West Byron area is in the '1:100yr flood or climate change risk" area, so it should not be allowed on that point alone.

Planning authorities have a moral if not legal obligation to take into account the projected effects of sea-level rise and disallow development in areas that are subject to increasing inundation.

The precautionary principal must apply. We cannot allow development in circumstances that will inevitably lead to homeowners investing in properties that will be subject to the catastrophic events outlined above. Sea-level rise is not a matter of debate, it is clearly laid out in thousands of peer-reviewed scientific papers and is taken deadly seriously by cities and communities in coastal areas in the United States and around the world.

Weather Change - Increase of storms and adverse weather due to global changes should be factored into the assessment. National Ocean Service (2017) "To ensure consistency with these recent updates to the peer-reviewed scientific literature, we recommend a revised 'extreme' upper-bound scenario for GMSL rise of 2.5 m by the year 2100". there is only 500mm freeboard on the site after fill is brought in makes it quite likely that in the long term with climate change there will be more frequent and severe flooding events such that flooding of the site will be increasingly frequent and will put at risk the whole development.

With increasing ocean level and storm surge events predicted this is not a responsible addition to the load of potential impact on the Belongil coastal esturine system. The flood modelling underestimates the future increases in storm intensities and sea-levels likely to result from global warming and thus significantly underestimates the potential heights of floodwaters and the risk of inundation of the development later this century (or earlier). Similarly the stormwater

modelling makes no attempt to account for increasing rainfall intensities.	
Likely climatic changes on flooding and stormwater need to be fully	
accounted for. Sensitivity analyses need to be undertaken that account	
for realistic worst case scenarios, rather than just optimistic ones.	
The development will increase the temperature of the whole area.	10.2017.661.1 & 10.2017.661.1
Flooding	
Flooding – Water levels in this swampland are barely a meter below the surface and during the rainy season, the entire area goes underwater until the swamp and creek can do their job.	10.2017.201.1 & 10.2017.661.1
Wetlands are precious and must be protected- if they are not, flooding is inevitable. It rains here every year and every year that site is flooded all the way back to the highway. The proposed area already has to cope with excess water flows generated by the hard surfaces/concrete/roads of the Arts & Industry estate. By adding more development in West Byron, the sponge effect will be lost & there will be an increase in hard surfaces, therefore increasing the amount of water running off & increasing the speed this water travels at, which in turn increases its erosive & destructive impacts.	
There has been no evaluation or study done regarding flooding. There has been no accounting for role the area already plays in flood mitigation. Run-off from increasing hard surfaces such as roads and slabs decreases the capacity of the land to absorb water	
Our community concern is that the West Byron Development Applications is sited within the Belongil Creek Floodplain Risk Management Study and Plan Summary. Three facts identified in Belongil Creek Floodplain Risk Management Study and Plan Summary that have impact on Cumbebin	

Swamp.

Much of the proposed site is a swamp. It is low lying and flood prone. It is the kidneys for the town of Byron Bay. As stated in The Belongil Creek Catchment Management Study and Plan 2015.

"it is important that the cumulative impact of progressive development be evaluated, particularly with respect to floodway and flood storage areas. Whilst the impact of individual developments may be small, the cumulative effect of the ultimate development of an area can be significant and may result in unacceptable increases in flood levels and flood velocities elsewhere in the floodplain."

Recurrent flooding of roads in the nearby Arts & Industrial Estate as well as underground parking in town are examples of the flood sensitive nature of this area. There are many times of the year when you can kayak across the lands that are currently proposed to become residential. The Cavanbah Sporting Centre, which is on the fringes of these wetlands cancels sporting events on a regular basis because the grounds are flooded and unusable.

Proposed fill will result in flooding. For decades there has been a policy not to increase the level of the flood plain. These DAs are basically putting an extra storey on it. Once its covered by concrete, the water has nowhere to go. Not rocket science. The Byron Shire has an above average percentage of unemployed, under-employed and residents which live on below average levels of income which makes them particularly sensitive to crises such as flooding. The introduction of vast amounts of fill will not only alter the floodplain but displace water back into the town of Byron Bay via the Belongil Creek and associated wetlands of the Cumbebin Swamp. This is a gross violation of accepted flood plain management

guidelines and will do enormous harm to the local area by threatening the habitat of numerous species associated with the Belongil Creek and Estuary, and the people, infrastructure, surrounds and town of Byron Bay.

Replacing the natural landscape with hard surfaces will by definition create direct runoff into the nearest watercourse, Belongil Creek, causing major flooding, erosion, and damage to the estuary and foreshore where the creek meets the ocean. Runoff from 19% of the urban area will be discharged directly into the Belongil Special Purpose Zone of the Cape Byron Marine Park, and 37% will be discharged into SEPP 14 wetlands, with 44% discharged into the central drain and thence into Belongil Creek (including car washing effluent, fertilizers from gardens, etc). See- Figure 1 - Illustration of relationship between impervious surfaces and surface runoff February 2003, U.S. Environmental Protection Agency, Washington, D.C. https://www3.epa.gov/npdes/pubs/nps urban-facts final.pdf

1/Catchment Pg 5 Speaks of restricted outflow from floodplain. The transport of catchment runoff to the creek is influenced by numerous manmade drains and infrastructure. These include the Union Drain, the Byron Bay town drain(or Butler Street Drain), the North Coast Railway line, Ewingsdale Road and numerous bridges and culverts.

Belongil Creek Entrance Opening - Belongil Creek operates as an intermittently closed and open lake or lagoon (ICOLL) system. When the creek entrance is closed, the Belongil Creek is separated from the ocean by a sand beach barrier (or berm). Following heavy rainfall, water levels in the closed creek system can rise rapidly and cause flooding in nearby properties. If the water level gets high enough, water will spill over the entrance sand berm and drain to the ocean. For the purpose of

this assessment, it has been estimated that the indicative cost associated with the design and construction of a trained entrance at the Belongil Creek entrance is likely to be in the order of \$10,000,000. On-going maintenance costs (eg. dredging) will be in addition to this.

2/ Catchment Pg 5 Speaks Already large areas of the flood plain has been filled. The township of Byron Bay is situated towards the eastern boundary of the catchment with a large proportion of the township development on higher ground. Parts of the catchment area have undergone urban development, but over one-third of the catchment area is covered by the Cumbebin Swamp. Large areas of swamp near the town have been reclaimed and developed.

Existing Flooding Model Results - The critical storm duration for the Belongil Creek catchment is 12 hours. In the 12 hour storm approximately 55% of the total rainfall falls within the first 3 hours. The Belongil catchment has a history of frequent moderate flood events, including 1974, 1984, 1995, 1998, 2003 and 2005.

Cost of Flooding - The cost last year of the flood in Lismore from bad planning was in the millions. Does the government seriously want to add to its yearly budget for flood protection and SES expenditure on the North coast so one developer can profit ? Who will pay to remediate homes built in an area that goes underwater with a rise in sea levels? It is not a satisfactory solution to sue Council down the track 'sometime' for inaction in the planning stages — as appears to be the case by some current residents at Belongil Beach!

Flooding impact on adjacent areas - Of major concern is the flooding of adjacent areas, including the industrial estate, Byron Bay town, Skinners

Shoot Road, Lilli Pilli residential community, the Belongil Estuary and the Cumbebin Swamp Nature Reserve. Flooding of the dead end Skinners Shoot Road across Cumbebin Swamp will be more likely, risking the isolation of the residence. Back up of water in this system affects flooding in the town centre already. The town of Byron Bay already floods in a small rain event. The entrance to Byron Bay at the Woolworths service station (opposite entry to the Belongil Beach area/Kendall St.) floods regularly limiting or excluding access altogether. The westward flow of flood water was so strong a few years back that a pedestrian was drowned trying to get across the main road into Byron Bay at the Cumbebin Swamp. He was swept off his feet and became entangled in a barbed wire fence. The impact of the West Byron site being filled will exacerbate occurrences and gravity of flooding in the area. If the West Byron site needs to be filled so as to facilitate development as it is too low-lying, then Byron Bay will end up being the swamp. The berm will be higher than the town of Byron Bay itself.

Will potential for flooding impact Byron CBD which is already now starting to flood and the surrounding areas? Look at Byron Bay town now in a heavy rain and businesses flood as there is nowhere for the water to go now that all the impervious surfaces in the CBD have been sealed. Consideration needs to be given to the operational needs of the electrical sub-station (Skinners Shoot) during major storm events or emergencies should black outs or other equipment defects occur in other words, flooding / inundation of Skinners Shoot road could impact on the whole town regarding power source during emergencies due to its inaccessibility.

The Belongil Creek Catchment Management Study and Plan 2015 - "it is important that the cumulative impact of progressive development be

evaluated, particularly with respect to floodway and flood storage areas.	
Whilst the impact of individual developments may be small, the	
cumulative effect of the ultimate development of an area can be	
significant and may result in unacceptable increases in flood levels and	
flood velocities elsewhere in the floodplain."	
Although the Flood Impact Assessment (FIA)- Harvest Estate Portion of	10.2017.201.1
WBURA 2017 includes Councils flood model of Belongil Creek, overlaid	
with a series of development scenarios there is inadequate information	
regarding parameters of these "design scenarios".	
Paragraphs of the Flood Impact Statement	
2.4.2 Topography	
"Topography in the vicinity of the proposed development is proposed to	
undergo change as a result of several concurrent developments. As such,	
BMT WBM has accounted for the cumulative impact of the Harvest Estate	
development in combination with external proposed developments A	
design surface was provided for each of these elements for inclusion in	
the hydraulic model. The approach to consider potential cumulative	
impacts was discussed with Council in a meeting on 19 September 2017."	
Question- What is the approach to consider potential cumulative impact?	
3.1.1 General Flood Behaviour	
"During the modelled AEP events flow is contained within the Main Drain	
that traverses the site. Conversely, during the modelled AEP events	
floodwater overtops the banks of the Union Drain located south of the	
site. Floodwater within this floodplain area flows in a south-easterly	
direction along the south-western boundary of the existing fill pad	
following the natural floodplain topography. Flood water ponds in the	
low-lying floodplain surrounding the site, particularly to the south-west of	
the site, to a peak depth of 1.6 m during the 1% AEP event."	

<u>"Floodwater encroaches on the existing sites during all of the AEP design events assessed, to varying extents.</u> The majority of the proposed development site, with the exception of the proposed Stage 1, 5 and 6 areas, remains relatively free of floodwater during the modelled events, with increasing areas of the site becoming inundated with depths up to 0.8 m (in Stages 1 and 6) during the 1% AEP event with the Ewingsdale Road upgrade, and 0.4 m (in Stage 5) with the current road alignment. Due to the relatively flat grade of the site, flood water ponds in topographic depressions with greater peak flood depths modelled in areas adjacent to the Main Drain channel."

Comment- It appears the underlined sections of the 2 above paragraphs contradict each other.

"Flow paths across the development sites are activated during the 20% AEP event, and all subsequent events, connecting flows under Ewingsdale Road to Belongil Creek (see Figure A-1 in Appendix A). So too, a major flow path across the BBP site and the western boundary of the western development site is activated during the modelled AEP events, flowing in a south-easterly direction into the adjacent floodplain."

Question- Is this another inconsistency referred to in the previous comment?

"During the PMF, greater inundation of the surrounding floodplain and development site occurs than the modelled AEP events. The capacity of the Main Drain across the site is exceeded resulting in out of bank flooding in the areas adjacent to the drain, particularly on the eastern side. Greater connectivity between flowpaths and Belongil Creek activated during the AEP events occurs."

Comment. Although this is for a peak event It is still flawed planning that the site has been selected for residential development when there are

higher areas in the shire that are more appropriate for development.

3.2 Developed Case Flood Behaviour

"Across the modelled developed case scenarios, inundation of topographical low-points across the fill platform occurred, particularly across Stage 7, as an artefact of the direct rainfall method used in the hydraulic model. This is a misrepresentation of inundation across the fill platform. In reality, rainfall falling directly onto the proposed development fill platform will be drained by the stormwater network (gutters, pits and pipes) across the proposed development. However, the stormwater network is not included in the hydraulic model as this assessment is concerned only with regional flood behaviour. Thus, the areas of inundation that are shown on the developed case maps can be disregarded for the purposes of regional flood assessment. The modelling technique of applying direct rainfall should be refined as part of the detailed design phase to provide greater clarity to the real flood free nature of the proposed development lots."

Comment. The above appears to be inconclusive and confusing information. Such lack of clarity brings concern about all the modelling to be used to assess the impact of the 500,000m3 of fill. There are likely to be excessive "unseen" costs that will potentially burden the council with responsibility.

I believe these issues have not been dealt with using any scientifically quantifiable methodology in the development proposal.

If any increased impacts from flooding are a result of the development

processes or drainage adjustments, pre-existing residents and land owners should have their land tenure and existence protected under common law. They have a right to not be impacted without consideration.

All the flood studies seem to have been prepared by BMT WBM. It would be good to get a professional review of these reports - say from a university. The results in these studies seem to come from computer models - MUSIC and TUFLOW are mentioned. Does anyone (Council included) know if these models are appropriate, if the correct data has been used and how much confidence can be placed on the results.

The rainfall data in figure 4 on page 10 of the Stormwater Management Plan Harvest Estate appears NOT to include the effects of future climate change which would add about 100mm to the 12 hour figure.

Flood Study - The west Byron Area currently acts as a buffer and reservoir for flood waters during extreme events. These flood waters will need to find alternative space once the land is raised above the required AHD levels for development, posing an additional flood risk to low lying areas around the shire, including Sunrise and Lilli Pilli. It is apparent that the flood study has relied upon low estimates of a wide range of parameters known to affect flood levels in their flood modelling, including the effects of highest tides, extreme wave heights and potential sea-level rise on water levels, and increases in rainfall intensities due to climate change, on runoff.

With very high tides and rain events the situations is compounded as the tide acts as a head of water and moves it back through the storm water outlets as it backs up causing serious flooding in perhaps other areas of Byron. Insurance and litigation are the problems that follow.

10.2017.201.1 & 10.2017.661.1

The design does not adequately consider the 1:100 year flood events and Probably Maximum Floods.	
It is not accepted that the WBM 2010 Flood Study relied upon adequately considered flood risk and climate change increases in sea level rise and rainfall intensity.	
During a severe storm the combination of storm surges can result in sea levels rising by 1.1 to 2.1 metres for several hours. Wave uprush can reach 3-6m higher. When this coincides with a high tide it forms an effective barrier for floodwaters and cause them to back-up, significantly raising flood levels.	
The sea level at the mouth of the estuary is referred to as the tail water level, the height of which depends on the intensity of the storm.	
A new flood study, which takes into account vulnerability of the site to climate change, should be carried out. We need an independent flood study on the impact of this development.	
Given that CSIRO long-term climate mapping for the region predicts reductions in overall rainfall and greater variation of periods of rain and drought – the population increase proposed will result in significant water restrictions for the whole region.	
Maleleuca Drive/Drainage A large part of the storm water is directed	10.2017.201.1
along Melaleuca Drive. Melaleuca Drive does <u>not</u> have a drainage design on either side of it. The road floods in wet weather events and the road	
stops on private land. Once again, the excess water will be directed onto	
private land, undoubtedly leading to flooding of that land.	
The swales, retention sites, water tanks proposed in the DA will not be	

enough to deal with the runoff in wet weather conditions. The proposed swales are inadequate to protect water quality and do not have the full suite of ecological benefits provided by treed buffers. More substantial effective riparian buffers are required, including to maintain aquatic ecosystems. Particularly important so close to the Cape Byron Marine Park. A large part of the stormwater is directed along Melaleuca Drive. Melaleuca Drive does not have a drainage design either side of it: the road floods in wet weather events and the road stops on private land. The excess water will be directed onto private land, undoubtedly resulting in flooding of that land. There are no easements on our land to allow for drainage or stormwater discharge from the proposed development. The stormwater is not directed or connected to a proper drainage system. We cannot and will not accept any additional storm water onto our property. The development will also result in importing more water from the Rocky Creek system into the area. Most of the water will be treated by the West Byron Sewerage treatment plant which will discharge the treated water into the drainage area. This will put even more stress onto the drainage system. More information and further studies are required to deal with the vast amounts of stormwater/water discharge, which will be generated by the development and place neighbouring properties under a direct threat of flooding. Suggestions - (a) Modify the layout of lots intended for structures and 10.2017.201.1 & 10.2017.661.1 open spaces to sympathise with major flood flowlines. (b) Maintain at least statutory buffer zones around the boundary to protect Belongil Creek and wetlands. (c) Fence off the site from the edge of the watercourse buffer zones to

protect the native flora and flora. Most species will retreat from the urban	
environment. Access from the site to the protected areas can then be	
managed with a system of gates and designated trails.	
Stormwater	
Stormwater - We only have 1 main storm water channel, the Belongil	10.2017.201.1 & 10.2017.661.1
creek.	
The development will result in stormwater drainage systems that will	
significantly alter overland flows and transport a large variety of urban	
pollutants. Uncontrolled stormwater can degrade land and downstream	
environments through erosion, sedimentation, altering of nutrient levels,	
increasing levels of pollution, the spread of weeds, and exacerbated	
flooding. The design of stormwater systems must be part of an overall	
stormwater management plan based on an assessment of potential	
impact on adjoining land. This must be done before any work is	
considered on the site.	
Drainage issues not sufficiently addressed. Where will stormwater go?	
The shallow depth of groundwater needs to be accounted for in the	
stormwater assessment particularly in discharge areas. Rainwater will no	
longer seep into the ground because of the concrete, roads, brought in fill	
and storm drains, the volume of waste water - once the development is	
finalised and in use - being passed through the nearby treatment plant	
and back into the catchment area will increase significantly. The urban	
area will generate a suite of pollutants, while reducing infiltration and	
concentrating runoff. The principal measures relied upon to mitigate	
runoff impacts are rainwater tanks and swales (infiltration drains) around	
the periphery of the development, on their own these have limited ability	

to reduce runoff and pollution, particularly during periods of high flows and frequent low flows due to saturation, which means that at times untreated stormwater will be discharged into the Belongil estuary. Swales can be effective in reducing some pollutants, though not others.

How will it stormwater and sewage issues affect neighbours, the Cumbebin Swamp and the nature reserve towards the Lilli Pilli area? Hundreds more houses and concrete directing rain into the creek will worsen the situation. The applicant appears to have falsely or incorrectly stated that there will not be pipes or pumps to carry water. I also request clarification on this.

Water movement along the wetland is already not functioning properly as its unable to uptake the water past the nearby farms. Until the alternative flow path has been implemented to go further past the farms no new development should go ahead as the water problem is already unmanageable for the farms. Having the whole surrounding area to the farms raised of 3 metres will increment the water flowing into their properties to a level that is unpredictable.

Any runoff above a 1:10 year event is proposed to be dealt with by overland flow, quickly overwhelming the capacity of the swales and running straight into the streams and estuary. The Belongil estuary is already heavily degraded and cannot accommodate any increase in pollutants and has been identified as in need of environmental repair. The proposed drainage works should not be acceptable.

It is doubtful that the swales will cope with runoff in heavy events and thus it is likely that polluted storm runoff from roads and houses will directly enter the drains, SEPP wetlands and estuary. The existing western

drainage line is to be buried under a couple of metres of fill, roads and houses.

There is a necessity to incorporate the full suite of Water Sensitive Urban Design measures to reduce runoff volumes and pollutants to safer levels (such as roadside swales and porous surfaces in urban areas, check dams on swales, and bio retention basins below them).

There needs to be a single Stormwater Plan prepared that addresses the cumulative impacts of runoff and associated pollutants in discharge areas that takes into account the current health of the receiving waters. The high groundwater needs to be accounted for in the stormwater assessment, particularly in discharge areas.

Drainage - The enlarged storm drain the developers propose will be of not much use until and if the neighbouring property on the East side continues this drain at the proposed capacity as they only indicate that it will be enlarged up to their eastern border. What if this land next to it is not developed? Will this be taken into consideration when they put their DA through?

Drainage is bound to end up in Belongil Creek and out into the Marine Park causing further environmental problems.

The intent for drainage is to direct increase water volumes from a deepened and widened drain into the same drainage line as at present. This is an absurd proposal.

The drainage works need to be re-visioned to slow the movement of water through the site, improve infiltration, remove the need to deepen

drains, increase the ability to trap pollutants, sediments and rubbish during periods of high flow, and expand riparian buffers to improve their capture of pollutants while providing ecological benefits to stream biota. The impacts and solutions need to be considered on a whole of site basis and not in a piecemeal manner.

The proposed urban area will generate a suite of pollutants, while reducing infiltration and concentrating run-off. The principal measures relied upon to mitigate run-off impacts are rainwater tanks and swales (infiltration drains) around the periphery of the development. On their own these measures have limited ability to reduce runoff and pollution particularly during periods of high flows and frequent low flows. At times of high inundation it therefore highly likely untreated stormwater will be discharged into the Belongil estuary.

There is no single Stormwater Plan that addresses the cumulative impacts of this runoff or assessment of the current health of the receiving waters. Additionally without the required baseline monitoring having been undertaken of key water quality parameters in the drainage lines and the Belongil estuary, the consent authorities do not as yet have sufficient information to consider the proposed development. There needs to be a single Stormwater Plan prepared that addresses the cumulative impacts of runoff and associated pollutants in discharge areas and takes into account the current health of the receiving waters.

There is a compelling need to incorporate the full suite of Water Sensitive Urban Design measures to reduce runoff volumes and pollutants to safer levels (such as roadside swales and porous surfaces in urban areas, check dams on swales, and bio-retention basins below them).

Proposal includes on site detention and infiltration and dispersion methods for storm events. However when groundwater is near the surface it is hard to fathom how infiltration into waterlogged soils can be relied upon, while dispersal through the proposed swales is unlikely to be able to cope with high rainfall events.

If any increased impacts from flooding are a result of the development processes or drainage adjustments, pre-existing residents and land owners should have their land tenure and existence protected under common law.

Untreated stormwater discharge must not be allowed to discharged into the Belongil Special Purpose Zone, Wetlands or drain to the Belongil Creek, because those areas are barely able to cope with heavy rains now, let alone if there tidal/storm surges or any sea level rises.

We maintain that flood studies undertaken for the 'Harvest West Byron' project have inadequately addressed hard water runoff, storm water surges, and flood water retention in the Cumbebin Swamp. As a result of the proposed expansion of residential development increases the hard surface areas from concrete and roof coverage area will contribute significantly to increasing the velocity and volume of storm water run- off. These factors must be taken into account especially when considering the potential impact on existing low areas of Sunrise and Belongil beach. This issue also has potential impacts to be considered regarding increasing turbidity, nutrient and facecal -coliforms on upstream landholdings, down- stream residential areas and connecting marine park areas. There is also potential for increasing saline disbursement upstream into brackish/freshwater wetlands systems impacting on existing vegetation and impact on native species such as the Wallum Sedge frog.

10.2017.201.1

The expansion of a connected set of drainage works to drain this proposed development has the potential to increase the" hydrolic head" of a totally new set and scale of adjustments of the Belongil esturine system with the potential to deepen the existing channel allowing higher levels of saline water to flow upstream on a twice daily frequency which could change the existing above high tide baseline levels with impacts to all surrounding lands.

201.1 - I note the amended report but I fail to see how recommendations are put into action in any of the modified plans. The recommendations say 'take advantage of site sands ...avoid detention basins' and use 'lot based pits and rainwater tanks' – how does this fit with plans for fill? For acid sulphate soil hazards? Isn't 'lot-based' suggesting that each new landowner has option to do something – this is not an integrated whole of site plan for stormwater management.

A single whole of site stormwater management is required.

Villaworld note, in relation to construction of a huge drain: "Disturbance of the existing natural surface would generally be less than one metre, except along the alignment of the existing stormwater drain. It is proposed to widen and deepened the drain to achieve stormwater management capacities"

There has been no attempt to assess the effects that this drain will have on the surrounding water table and the quality of water that drains into the Belongil Estuary.

Drainage - Under the Water Management Act (Part 3 S214&215) a new subdivision is not entitled to be connected to a Private Drainage Board. 'If a holding is subdivided, a new holding resulting from the subdivision is

10.2017.661.1

not entitled to be connected to a PDBs drainage works until a date determined by the board'. It further states that: "All works to be constructed must be constructed in accordance with the approval in writing of the board in respect of location, design, form, dimensions and construction". In regards to DA 10.2017.661.1, located within the drainage district, the BSDU was neither consulted nor informed.

Neither the previous board nor the DPI received correspondence from the developer or council on the matter. A letter written by Colin Draper, falsely claiming to be secretary of the Belongil Swamp Drainage Union, was submitted by the developer with the DA. The letter was subsequently declared illegal by the board of directors (see correspondence with council 31/01/2018).

In the public interest the board of directors of the BSDU cannot approve the connection of any new holdings created by the proposed subdivision until it is satisfied that this will not negatively impact on the efficient workings of the Union Drain system.

DA 10.2017.661.1 will require extensive works which may adversely affect the flow hydrology for the catchment, increase the potential for acid sulphate within the drainage system (with subsequent adverse environmental impacts), reduction in the ability for the drain to effectively accommodate drainage from the catchment, affect existing land uses and increase the macro porosity of the catchment.

The information given in the DA is not sufficient. It has not been demonstrated that storm water runoff is being directed into legal points of discharge. Detailed reports of acid sulphate soil management, runoff management during and after construction in regards to the imported soil

	,
and the management of storm water and waste water including as to how	
it will impact on the discharge of the West Byron STP into the drainage	
system are required. We believe an EIA (Environmental Impact	
Assessment) will be required due to the proposed drainage scheme of the	
proposed development. The currently submitted DA does not include	
such a statement. An EIS should also ensure that the major components	
of development should be considered for the whole area and include	
plans that are applicable for all the lands for such key issues such as	
environment, traffic, stormwater and drainage, bushfire and emergency	
management.	
A council report, presented to the Coastal Estuary Catchment Panel in	
March 2017, recommends that feasibility plans for the development of an	
additional flow path to deal with the outflow of the West Byron Sewer	
Treatment Plant should commence. It further recommends feasibility	
studies for the recommended STP 2025 upgrade.	
It is the strong belief of the BSDU board that the construction of the	
additional flow path and the STP upgrade must be undertaken before any	
new developments of considerable size are approved.	
Both storm water run off and sewerage together in a flood event, if not	10.2017.201.1 & 10.2017.661.1
properly addressed could present a massive health and hygiene	
catastrophe. (We have already seen this happen in South Golden Beach	
and other low lying areas of the Shire, where the sewerage system and	
the storm water system adversely collided and raw sewerage entered the	
streets.)	
Floodplain Hydrology - Any works proposed upon the drain have the	10.2017.661.1
potential adversely affect the hydrology of the floodplain. As part of the	
Management Plan preparation, detailed consideration of all potential	
management options for the drain will be required to be assessed against	

this scale. With the current tourist visitation with or without a wet weather event, I believe the STP has already reached its capacity. The surrounding land is saturated most of the time. The ponds, within the wetlands, are also full of water most of the time, contrary to a rotational management plan alternating wet and dry ponds to maintain their long term viability.

The increase on the demand for sewerage will erode significantly all the possibility of granny flats in all of the Bay area. The third stage of Byron Bay's 2004 Sewage Treatment Plan (STP) plan is still incomplete. The redistribution network of treated water from the STP was supposed to include distribution of effluent to recreation grounds, nearby farms and (re)constructed wetlands (alongside regeneration of backswamp and wetlands with acid sulfate soils created by existing drains), but this is still unfinished. No decision about development at West Byron was supposed to happen before this system was completed. The lands supposed to be regenerated as part of the STP include the proposed site of the West Byron development. The inflow capacity of the STP is growing, but the redistribution of outflow is not. How is that vital community infrastructure is left incomplete for a decade? The only regeneration project that has been implemented in over a decade is the West Byron Wetlands and the Melaleuca Plantation (Extraordinary Water, Waste & Sewer Advisory committee meeting, December 2017).

That the submission reference land holders and take into account concerns on the capacity of the receiving environment of the Byron STP for the extra sewage effluent that would be generated by development of West Byron. DoPE note that overload of the receiving environment has been an issue for landholders on the flow path from the STP to Belongil Creek, since sewage from the old South Byron STP was diverted to the

current Byron STP a decade ago.

The West Byron Sewerage works has been reported to be releasing treated effluent in excessive amounts. A full investigation of the existing plants ability to cope with extra population needs to be undertaken.

Since the augmentation of the South Byron STP in the early 2000's, the treated effluent discharge from the West Byron STP has been impacting our Agricultural lands, neighbouring lands and the Cumbebin catchment with treated effluent. This discharge has been escalating rapidly due to the increase in development in the Byron Bay area, resulting in parts of our 35-acre portion of effected agricultural land now being in such a degraded state that grass will no longer grow. Our property is currently receiving over 3 Olympic swimming pools of water per day and we have a water table of only 200 mm below ground level in dry weather. Byron Shire Council has started to work towards reducing the impact on our land although this process has already taken them at least 2 years with no end in sight. The flow path of this treated effluent runs through the union drain which was originally built to drain farm land but is over loaded with treated effluent that enters the Belongil Creek via the West Byron proposed development site. Any increase in outputs from the West Byron STP will affect not only our lands and neighbouring properties but also the development itself.

Council commissioned a study to (at a cost of \$350 000) investigate the on-the-ground claims and to establish the sustainable capacity of the Belongil catchment to accept treated effluent discharge with the finding presented in March 2017. After 15 years, the report showed cleary that there is ongoing effect on neighbouring landholders from having water released into their properties and it shouldn't continue. Byron Shire

Councillors have only recently become aware of the findings of this	
report. The study was prepared by consultants chosen by staff who have	
much experience in the catchment. See report on Byron Shire Council	
website.	
http://byron.infocouncil.biz/Open/2017/03/COA 16032017 AGN 651	
AT_WEB.htm	
Investigations into the preferred flow path option and the exact details of	
this flow path are still slowly progressing and the summary	
recommendation of the Catchment Panel was that either a strategy be	
found to achieve the level of reuse required OR for Council to consider	
calling a moratorium on development until the issues are resolved.	
Due to this ongoing issue with no immediate resolution in site, the	
development of West Byron Harvest Estate must be postponed until such	
time as these issues are resolved and an appropriate working alternative	
flow path is licensed and built.	
This situation is totally unacceptable and must be rectified before any	
increase in STP flows are accepted. Approval of this development should	
not be considered whilst these environmental issues remain unresolved.	
This development is going to exacerbate an already bad situation where 3	
megalitres of effluent are flowing through private land in breach of 1998	
LEP.	
The developer should be in charge to treat its sewerage itself on-site.	
Acid Sulfate Soils/Groundwater	
Acid sulphate soils – will always be a risk necessitating management -	10.2017.201.1 & 10.2017.661.1
disruption to the current soil has the potential to trigger release of acidic	

waters from acid sulphate soils, which cause fish kills & spread other pollutants already on site (zinc, copper, lead, & petroleum hydrocarbons). Remember the mess at Ocean Shores as it was being constructed!

Opposition to all further building on acid sulphate soil due to potential of pollution. Any removal or use of existing soil structure is an unacceptable risk of releasing potential acid sulphate soils and subsequent impact of soil or water ph with the potential to contribute to fish and micro invertebrate kills.

There needs to be accurate and comprehensive mapping of groundwater and associated pollutants across the site. The likely impacts of the development on groundwater needs to be detailed. As part of this development process baseline water quality monitoring and a model for hydrological projections taking in all factors should be undertaken prior to any stage approved

There needs to be further sampling undertaken to clearly identify the extent of PASS in areas where they are likely to be disturbed or drained. All areas affected by the drainage of.

The depth of the current water table ranges from the surface down around a metre, and this groundwater is contaminated with aluminium, copper, iron, lead, zinc and petroleum hydrocarbons. Underlying the groundwater are Actual and Potential Acid Sulfate Soils which will generate sulphuric acid if drained and increase the contamination of groundwater.

The mobilisation of dissolved metals such as aluminium, iron, manganese and cadmium may have serious toxicological impacts upon aquatic and

terrestrial biota exposed to suitably high concentrations of such	
substances. Elevated levels of mobilised trace heavy metals in soil and	
water can be toxic to aquatic life if released into the drainage system	
during high flow events or a rise in the local groundwater table.	
There is no plan for toxic runoff.	
The DA also says 12,800 m3 of the fill will be found on site which means	
that some areas will be excavated up to 2m. This is especially concerning	
in a known acid sulfate hot spot.	
Groundwater 201 - The property has shallow groundwater with depths	10.2017.201.1
generally ranging from 0-1m below the ground surface. These	
groundwater depths vary with rainfall, tides and the opening of the	
estuary mouth. The groundwater is already polluted with aluminium and	
iron from acid sulfate soils though unsafe levels of Zinc, Lead, Copper and	
petroleum hydrocarbons also exist. The existing shallow groundwater	
levels help protect the underlying PASS from oxidising but also limit	
infiltration of stormwater into the soils.	
Comprehensive and accurate mapping of groundwater and associated	
pollutants needs to be undertaken across the site. Likely impacts of the	
development on groundwater need to be detailed.	
The shallow depth of groundwater needs to be accounted for in the	
stormwater assessment particularly in discharge areas.	
, , , , , , , , , , , , , , , , , , , ,	
The proposal is to construct a large drain though the site, as well as a	
variety of swales, which will likely activate Potential Acid Sulfate Soils and	
drain polluted groundwater into the estuary. There must be further	
assessments to identify the extent of AASS and PASS and quantify the	
•	1

extent of soils to be drained and the likely consequences for pollution of the estuary.

There has been no attempt to consider how the deepening on the drain will affect the depth of groundwater, the dewatering of surrounding soils, the generation of Actual ASS soils, or the quality of runoff of both polluted groundwater and acidic runoff.

The drain (30m wide and 4m deep) will have the effect of exposing large areas of Potential Acid Sulfate Soils and Actual Acid Sulfate Soils to the air, which will result in oxidation of the Acid Sulfate Soils, the consequent generation of sulphuric acid, and the mobilisation of toxic concentrations of aluminium, iron and heavy metals into Belongil Creek. Dewatering and drains associated with the development, excavation of soils, along with changes to surface and subsurface flows due to hard surfaces and vegetation changes will also significantly affect Acid Sulfate Soils.

Only the western part of the drain has been subject to soil testing and identified for works within the Villa World Assessment. Yet the whole of the drain is required to facilitate the proposed works, and the deepening and widening of the upper reaches cannot be undertaken in isolation of the other works required further downstream to accommodate the increased runoff being directed into the drain and the runoff from the upstream works.

For Villa World HMC undertook 8 additional soil samples, identifying widespread acidity. Seven of the eight sites have readings "indicative of ASS/PASS or exceed action criteria". Sites BH7a, BH7B and BH6B were all located near the central drain, this indicates significant acidity problems. This warrants more details investigations.

The DA says 12,800 m3 of the fill will be found on site which means that some areas will be excavated up to 2m. This is especially concerning in a known acid sulfate hot spot. Excavation of the main drain is proposed well below 2m AHD which will result in the excavation of significant volumes of AASS and PASS. Villa Worlds response is to treat the excavated soil with lime. It is not known if this includes the likely volumes from the swales and drainage works along the southern boundary which are also likely to intersect PASS and AASS. ASS 201 - Mapping for Acid Sulfate Soils relied upon by the DA is out-10.2017.201.1 dated. The West Byron Clause inserted into the 2014 BLEP relies upon the ASS mapping from the 1988 LEP – identifying the bulk of the site as Class 3, with patches of class 2 ASS around the margins. Mapping of ASS relied upon for West Byron in accordance with Minister for Planning's insertion into the BLEP. This mapping belongs to a world of its own, and doesn't even cover the whole of the Villa World Lands. BSC's 2014 BLEP has its own regulatory maps. These simply don't make sense as they have used cadastre boundaries as boundaries of ASS soils, such as the boundaries of he Cumbebin Swamp Nature Reserve ad the boundary of West Byron to the north. These are clearly a fabrication, though are the regulatory mechanism relied upon by the LEP. Different mapping of ASS was prepared by the *Preliminary Acid Sulfate* Soil Assessment, though is not included in villa worlds reports. It is totally different from the out-dated map relied upon. The preliminary Acid Sulfate Soil Assessment recommended that "Maintenance of existing water table heights is recommended during

both construction phase and operational phase of any proposed	
development of the investigation area". This is clearly unattainable if the	
drain is to be deepened to lower the water table. Good ASS management	
requires less drainage, not more, thus keeping subsoils in the floodplain	
moist.	
ASS 661 - 75% of the area is acid sulphate affected	10.2017.661.1
Groundwater 661 - It is known that development within a catchment can	10.2017.661.1
result in changes in general groundwater behaviour from proposed	
hydraulic loading. In swamp areas such as Belongil any significant	
increases in overburden or increased drainage can affect acid	
groundwater storage and increases in discharge rates. Increases in	
groundwater levels are likely to affecting local landuses such as	
agricultural activities utilising low-lying farm lands.	
Considering those key issues and the size and impact of the development	
the board of directors of the BSDU suggests postponing a decision on the	
DA until the document being prepared by Southern Cross GeoScience is	
available and a Drainage Management plan is in place.	
Maintenance of groundwater has important ecological functions which	10.2017.201.1 & 10.2017.661.1
will be affected by changed drainage patterns.	
Ewingsdale road is the only access to the CBD from the M1, Hospital and	10.2017.201.1 & 10.2017.661.1
Ewingsdale. It is the primary access road for supply and for entry by	
people working in or visiting Byron. It is also the only viable road	
connecting the main population centres of Byron and Suffolk with the	
Industrial park, in which many of our services are located. Extra	
congestion on this road will cut off many residents, some aged and	
unwell, from accessing vital services. You can make Ewingsdale road as	
many lanes as you want. But there will always be a bottle neck when the	
traffic reaches the town	
Ewingsdale road is a classified road, as such consent authorities must not	

grant consent unless it is satisfied that "the safety, efficiency and ongoing operation of the classified road will not be adversely affected by the development".

The current infrastructure cannot accommodate the existing traffic flow. Opus 2009 main road study (and other studies) identified that networks are already showing signs of operating close to or beyond capacity and more. Increasing congestion has exceeded predictions and estimates need revision. Ewingsdale Road already congested all year long and highly congested at peak times. Development at North Byron already going to negatively impact the traffic on Ewingsdale road. Cyclists are being seriously injured and even maimed due to the number and depth of potholes on our roads, one has recently died. Traffic volumes on Ewingsdale Rd / Shirley St already exceeding 22,000 vehicles per day¹ (projected to reach 26,000 vehicles per day by 2025²) an additional 14,000 vehicles per day from the West Byron Development could see 40,000 vehicles per day on Ewingsdale Rd within 7 years. These are traffic volumes similar to the M2 motorway in Sydney, and only slightly less than Military Rd. These are multi-lane roads in a city of five million people compared with a single lane rural road servicing a town of 10,000 people.

It can take one hour to get from the ozigo to the town centre! People living in Ewingsdale wanting to get to the town are having to spend long times in traffic jams already. Traffic is already gridlocked from town to the highway. During holiday times and on weekends gridlocked traffic is to be expected throughout the day, not just peak hours.

Community Nurses/service providers etc are already taking the poorly maintained back roads in order to facilitate efficient services. These roads are narrow and unsealed and are themselves busy during severe traffic

congestion times, raising once again the issue of decreased safety with the rise in traffic movements

To illustrate this further, this is a quote from the blog of the mayor of Byron Bay, Simon Richardson

'Aside from resident's frustrations, either trying to move through Byron Bay for work purposes or simply to access the beach and town, the current traffic problems particularly along Ewingsdale Road/Shirley Street are seen very negatively by visitors. A recently commissioned visitor satisfaction report illustrated the negative impact traffic and parking has on visitors. The two highest areas of dissatisfaction for visitors surveyed were 'parking' and 'level of local traffic in Byron Bay'.[6] Doing nothing could jeopardize a nearly half a billion dollar a year industry.

It is clear that traffic is one of the constraints on the number of visitors Byron Bay can handle. There is only so much traffic Byron can handle before the very things that attracts visitors to Byron in the first place is destroyed. For residents, there is only so much traffic we will tolerate before we feel the tourism industry is impinging unacceptable on our quality of life.'

http://mayorsimonrichardson.com/council-actions/sustainable-traffic-parking-project-park-and-ride-pedestrian-zones-parking-management/

Evidence on the internet is huge that people are already being kept away by this:

Don't come to Byron by car. You'll sit in a line of other cars between 2 and 5 km long. All possible solutions to the problem have been exhausted - as I was by the time I got into town after 25 minutes crawling bumper to bumper. Lots of other drivers gave up and turned around and went somewhere else. Next time I'll take the bus. It's a pity they axed the train

service a few year back.

http://www.tripadvisor.com.au/ShowUserReviews-g528934-r48026032-Byron Bay New South Wales.html

State of roads already poor. Who will maintain it as Council does not have funds to. Byron Shire Ratepayers have just agreed to over 33% in rate hikes in an attempt to catch up with the failing state of the roads. The proposed project makes no provision toward contributing to the rebuilding and widening of Ewingsdale road, which would be a normal expectation for a project of this scale.

Entering onto Ewingsdale Road from various streets is currently dangerous It is not uncommon to wait at the end of Quarry Lane to merge right onto Ewingsdale Road for 20 minutes to find "a gap" in traffic.

Since the introduction of the roundabout at the hospital entrance along Ewingsdale Road, congestion of traffic is so bad of an afternoon that traffic heading to the highway is usually at a standstill. This once again presents us with life threatening situations as we have to contend with the excess traffic going back into Byron at 80km/h as well as the blocked intersection turning right from traffic trying to make its way to the Highway.

The proposed bypass will not help and cost way too much for the little help it will offer. Bypass will do little to alleviate this problem, as the vast number of vehicle trips are by people accessing Byron's CBD and beaches, i.e. not passing through. Both the so-called 'long bypass' from the Butler Street to Browning Street and 'short bypass' from Butler Street to Marvell Street are located several kilometres past the point at which traffic jams form. The current plans for these so-called bypasses are not bypasses, but

are planned as roundabouts that will slow traffic flows rather than increase their speed. We read that the current VPA states that each of the 387 lots pay \$7000 each to aid in the bypass. What happened to that? Surely the traffic problems should be dealt with before you build houses for more people?

The Byron Bay LES 2005 recognises that there are major infrastructure constraints on further development of Byron Bay, including;

- -"Narrow bridge over Belongil creek being an obstacle for emergency vehicles;
- -The increase in traffic on Ewingsdale road being 20% between 2000 and 2002;
- -Additional intersections will exacerbate existing problems and may require significant capacity upgrades;
- -Development that increases car dependency should be discouraged".

Byron Bay does not have the infrastructure nor a sufficient way to upgrade the infrastructure to deal with the increased traffic generated by the development. An appropriate traffic study needs to be prepared.

Lack of sensible traffic flow solution and indeed the inevitable compounding of the current utterly unsatisfactory Byron (and Skinners Shoot) access and egress

In the absence of a workable traffic solution the developments needs to be scaled back to a level where the safety, efficiency and ongoing operation of Ewingsdale Road will not be adversely affected by the development.

Jevons Paradox: when progress increases the efficiency, but the rate of

consumption rises as per an increase in demand. Adding more	
roundabouts or lanes will not make the roads more efficient – rather they	
-	
will increase demand and congestion.	40 2047 204 4 0 40 2047 664 4
Pollution - Vehicle engines already sit idling and causing maximum	10.2017.201.1 & 10.2017.661.1
atmospheric pollution – more traffic means more congestion and more	
emissions.	
Incorrect Application - On the DA Application Form it asks the question	10.2017.201.1 & 10.2017.661.1
under heading Roads - Will your development affect a public road and it	
is ticked No. The only access into the proposed subdivision is from	
Ewingsdale Road so it should be ticked Yes.	
The Planning Minister granted rezoning based on a report that	10.2017.201.1 & 10.2017.661.1
underestimated the new traffic load from the proposed estate – therefore	
the 'State Significant Approval' (the rezoning) should be rescinded.	
Assessment - The Zenith Model Scenario used to compare the daily	10.2017.201.1 & 10.2017.661.1
development traffic generation and the forecast daily traffic on	
Ewingsdale Road assumes the following development and infrastructure	
projects are included:	
②West Byron Development (all stages);	
②Ewingsdale Road Four Lane Upgrade;	
Mini-Bypass (Butler Street to Jonson Street / Marvell	
Street); and	
DLong-Bypass (Butler Street to Jonson Street / Browning	
Street).	
Figure 2.9 represents the percentage traffic generated only by the	
development in comparison to the total 2028 daily traffic forecast on	
Ewingsdale Road.	
There is inadequate information available to assess this or the impact on	
the main road and other streets in town. There has been no study that	
has considered the full development. Development will impact	

surrounding road network, contrary to their belief it won't.

The traffic study undertaken by the proponents is limited to only the western part of West Byron and the partial impacts on one of the two roundabouts. The traffic study does not include the impact of already approved and yet to be completed developments such as the North Byron Beach site, Bayshore Village, the new sports fields and the new hospital.

Medium density, Super-lot and Industrial areas lack any meaningful detail, so cannot be assessed.

Traffic assessment fails to consider the likely traffic generation from the eastern part of West Byron. The final stages of the development need to be taken into consideration when assessing the traffic impacts. As there are currently very limited details on the further stages of development, it is impossible to make an effective plan for future traffic flows.

There has been no study that has considered the full development and that fully or accurately identifies the likely consequences that West Byron will have on "the safety, efficiency and ongoing operation" of Ewingsdale Road, Shirley Street or the town centre or roundabouts. There is objection to the proposed relocation of Melaleuca Drive. The proposed elevation of the road and how the road will continue onto the existing part of the road is not addressed at all.

The proposal is based on **one car per house/unit making one trip** in and out of West Byron daily – this is an absurd underestimate. It doesn't include residents out of the planned estate to travel to & from schools & services throughout the day.

In the latest census it was recorded that 36.4% of houses in Byron Bay have 2 cars and that 18% has 3 or more cars - yet this DA implied there is

only one car per household. Most houses are likely to have 2 cars, and if there is a granny flat, and some blocks are big enough to make that probable, the real car usage is likely to be up to 4 times greater. High costs of housing in the Shire also lead to multiple occupancy, which means multiple cars for one dwelling. Take a look on most streets in Byron Bay and it is filled with cars because the house is filled with 3, 4, 5 or more people, each of who have a vehicle. Further future individual subdivision and building of granny flats on larger blocks also needs to be taken into account to traffic plans. The pattern established across the Shire of significant numbers (approximately one third) of properties operating as B&B establishments would logically be replicated in the new West Byron Estate. This would push up traffic movements higher than currently estimated, with the additional guest vehicles over and above the residents' own vehicles. Unemployment levels in the area will also contribute to more traffic as more people will have to find work elsewhere - Commuting to neighbouring areas such as Tweed, Ballina, Mullumbimby or Lismore to work increases traffic on our local roads and highways, not an environmentally wise move because of the petrol and fuel needed and carbon emissions that would result in these commutes.

The RMS Guide to Traffic Generating Developments – which the DA claims to use – says that regional dwellings in regional areas generate **7.4 traffic movements per day, not 1** as in this DA. This would result in 6000 trips per day for 856 dwellings with ONLY 1 car - not the 595 claimed in the DA. Furthermore, The Veitch Lister 2011 study is based on 856 dwellings, which is a major flaw, as 1100 are now proposed.

A report from CRG traffic and transport engineering consultants was included in the 2011 submission by Design Collaborative P/L. This report concluded that the traffic generation estimates produced by Veitch

Lister's model appear to be substantially lower than those derived manually using trip generation rates recommended by the RTA.

Using NSW RTA guide to Traffic Generating Developments, using the now proposed 1100 dwellings, the proposed development could generate in the order of 21,412 vehicle trips per day (2-3 cars per dwelling, 7.4 trips per day). This is over three times as much traffic as considered by Veitch Lister. This will be around 100,000 extra vehicle movements per week. Calculations talk about 230% traffic increase.

The rezoning of this area was approved by the Minister for Planning on the premise of an estimated traffic increase of 6,000 vehicle movements per day for the whole West Byron area.

Council and State should require a peer review of the traffic report supporting the rezoning as the traffic report appeared to underestimate traffic generation numbers from the site and the impacts on the major traffic blockages in Byron Bay. The consultant's rezoning report opined that the total west Byron development would increase traffic across the railway crossing into Byron Bay by less than 800 trips per day. Estimates of total traffic generated by West Byron vary between 6500 -9000 trips per day depending on density and the amount of internal "re-subdivision" undertaken after initial development. These values equate to approximately a third or half of the total load on Ewingsdale Road at the moment. The rezoning traffic report required increasing the capacity of Ewingsdale Road to four lanes to cover existing and long term capacity shortcomings and assumed this work and the current mini bypass proposal would be undertaken. I understand that the dual lane work will be a Council responsibility with some funding provided by the State and developers. Currently however the required upgrades are not funded. The geometrical incorporation of these upgrades into the development layout, their sequencing and funding arrangements together with the reliance of future developments such as West Byron on these upgrades are not investigated nor discussed in the report. It is therefore understandable that the community remains concerned and suspicious as to whether the logistics of such infrastructure has been considered and if it can be funded and therefore built

Capacity of Roads - Dual laneways would be needed (prior to approval) to cope with the extra traffic. However, a larger road on Ewingsdale road will only increase the congestion at the Butler St roundabout.

Veitch Lister 2011 traffic study identifies existing chronic traffic problems and predicts rapidly deteriorating conditions as traffic volumes increase. This study is based upon Ewingsdale Road being four lanes, two new roundabouts (SAF and Ozigo), reduced speed limits and a town bypass

Veitch Lister 2011 traffic study identifies existing chronic traffic problems and predicts rapidly deteriorating conditions as traffic volumes increase. This study is based upon Ewingsdale Road being four lanes, two new roundabouts (SAE and Ozigo), reduced speed limits and a town bypass being in place. The cost estimates for the town bypass have so far doubled and there is no funding source yet identified for the project. Its completion before Villa World cannot be assured and thus should not be assumed. Byron Shire Council was recently unsuccessful in an \$8M Commonwealth Government grant to complete the bypass⁴. It is unlikely that the Byron Bay Bypass will be adequately funded for the foreseeable future unless state and federal governments make substantial contributions.

The location of West Byron eliminates many potential bypass routes which Byron Shire Council Infrastructure Services Director Phil Holloway says will be required in the future.⁵

"With one road in and one road out, the existing road network has reached its capacity and the Byron Bay Butler Street Bypass is part of the

10.2017.201.1 & 10.2017.661.1

solution to help ease the pressure" "In the longer term an additional stage	
two bypass option further along Ewingsdale Road will need be explored"	
A stage two hypers is not nessible if West Dygon is built, because the only	
A stage two bypass is not possible if West Byron is built, because the only	
feasible locations are south of Ewingsdale Rd.	
Any DA of such magnitude can be approved, the traffic problem will need	
to be solved, not just mentioned. This means implementing any proposed	
bypass and/or road widening solutions for Byron Bay and determining	
wether this has solved our problem BEFORE new subdivisions of this	
magnitude are approved.	
Road Reserve - The sound buffer should <u>not</u> be proposed on Council Road	10.2017.201.1
Reserve. This places upkeep costs upon rate - and tax payers!! Let the	
developer incorporate this onto their own land!! We should be reserving	
Council owned road reserve for future needs!!	
Four lanes (3.5m each) with 2.5m shoulders, 3m swales and 2.5m bicycle	
tracks on each side represents 30m, without allowing traffic separation or	
other infrastructure needs into the future. Ewingsdale Road is 28m-40m.	
It is unreasonable and unacceptable for Council to propose using the	
public road reserve to buffer the development.	
Across from the development on Ewingsdale Road setbacks from the road	
reserve of 20-40m have been applied to both industrial and residential	
areas. These do help obscure development where densely planted,	
though need to be expanded to effectively shield West Byron. The EPA	
recommended a 50m buffer to Ewingsdale Road to attenuate noise	
impacts on residents. A 50m buffer, on the developer's land, is supported.	
DCP general buffer design for Ewingsdale Road is for a 13m wide mound,	

with almost half this within the road reserve. It is truly outrageous that Council is proposing that most of the noise barrier be within the road reserve, with only 7 metres of the developers' noise attenuation barrier actually situated on their land. This is an irresponsible proposal. Ewingsdale Road should be fully retained as a public transport route. All of the noise buffer, including the bicycle track, should be on the developers land.

Wider Impact - There is no management plan to cope with increased traffic in town, causing delays in town and the detrimental effects likely to flow on to businesses in the town. The housing subdivision will be built before a shopping centre is constructed, which means residents will have to drive into Byron Bay CBD for all services, adding to traffic.

The congestion on Ewingsdale Road is also impacting the safety of the highway. Traffic is often at a standstill way before the Byron Bay exit when heading in from the north. Ewingsdale Road is a nightmare now at any time of the day but it is frightening sitting on the freeway, unable to move while huge trucks keep hurtling down the freeway at 110kph. This is not safe. Therefore some of the traffic management for West Byron should be the extension of several kilometres of highway off ramps for Byron Bay, to reduce congestion and a subsequent risk of accidents on the Pacific Highway. The result of traffic banking up onto the southbound side of the M1 would not be good for the Byron Shire, it raises CONTINGENT LITIGATION issues for the shire council.

But traffic chaos will extend much beyond Ewingsdale Rd, as residents will need to reach services, such as primary schools and Byron Bay High School. As it is at the moment, traffic near those schools is at a standstill during the school drop off and pick up periods. Turning right into Bangalow Rd from Old Bangalow Rd during those times is impossible or

10.2017.201.1 & 10.2017.661.1

10.2017.201.1 & 10.2017.201.1
10.2017.201.1

bottom of St Helena Ridge that connects to all the roads that dead end	
that way to reroute traffic	
Safety/Network - Safe linkages across busy Ewingsdale Road to major	10.2017.201.1
attractors such as retail, employment, educational, recreational and	
entertainment sites have not been provided. The T intersection at the	
Industrial Estate is also inadequate for the amount of traffic that the	
estate attracts. Trying to head to the highway from the estate is very	
dangerous during every afternoon. It is already very dangerous for the	
school buses to get in and out of Mcgettigans lane. These developments	
will only add to the danger of attempting to turn right back out of	
McGettigans Lane into Ewingsdale Road to head back towards the tow	
What about safe passageway for the cyclists and pedestrians currently	
using and crossing Ewingsdale road? How will they be affected? As a	
wheelchair user it is already very difficult to cross Ewingsdale Rd.	
Development should not be considered without a separate access to the	
highway and through to the Suffolk Park area.	
How will this development and increased congestion impact the	
emergency and evacuation plans? If there was a natural disaster then	
we'd have no way out of Byron bay	
Ability for Council Clean Up/ maintenance.	
Increased traffic on Ewingsdale Road will be detrimental for emergency	
access to the hospital. The hospital does not have helicopter access.	
I live with a life threatening condition and often need ambulance	
service. On one occasion it took them one hour and a half hours to	
get from the base at Ewingsdale to my home in Suffolk Park.	

• I am a disabled person and a carer for two others. We often need fast access to the Byron central hospital. Already it can be very slow to access the hospital but with a new development and the vastly increased traffic i can envision tragedies on the way.

Statistically alone, there will be an increase in accidents causing damage to property and injuries to residents and tourists just from the increase in traffic.

Public Transport - There should be a bus stop on both sides of Ewingsdale road with either a pedestrian crossing or a pedestrian overpass. No Bus stop should mean no development at all especially as this is only stage 1. What connection will there be to the "Elements" train?

Bus lanes must be implemented before West Byron starts and a public bus system running during peak work start and finish times must be implemented. At present the public buses don't run during school start and finish times leaving huge gaps in workers transport times . 1/2 hourly buses between 6.30am and 10am plus 3pm to 5pm between Ocean Shores and Ballina will get people out of cars. Ensure that a either a bus lane or light rail can be run between Byron Bay CBD and Ewingsdale interchange within the Ewingsdale Road corridor. Looking 50 years ahead is required now.

The West Byron development does not include any alternative means of transport connecting the CBD to the development. Any bus service will have to use the already congested single-lane road. There is no cycleway on the southern side of Ewingsdale Rd for residents of the West Byron development to use, and the development is too far from the Byron Bay Railroad Company train station to be practical. Will more and regular public transport going via the freeway to either Brunswick, Lennox/Ballina

10.2017.201.1

to lessen the traffic going through Byron and along Ewingsdale Rd?	
There's really only one way out in my humble opinion if and god forbid it	
gets approved then we must put in place three things:	
A) a bypass that bypasses the entire town	
B) car parks around Byron with shuttles for tourists	
C) make the heart of Byron a pedestrian only zone	
Melaleuca Drive & Internal Roads- We do not agree to any change in the	10.2017.201.1
way that the current access road to our property (Melaleuca Drive) is	
designed. The proponent's proposal of a new ring road and the deletion	
of a significant part of the currently existing Melaleuca Drive is	
unacceptable. Together with the adjoining landowners at the end of	
Melaleuca Drive, we request that the road will be retained in its current	
form including a vegetation buffer to any new development on either	
side, providing direct and straight access to Ewingsdale Road.	
We currently access our property by turning off Ewingsdale Road onto	
Melaleuca Drive and drive down the end where we live and have our	
approved Bed & Breakfast. On the plans included in the DA it is shown	
that the northern most part of Melaleuca Drive will be closed off and we	
will no longer have direct access to Ewingsdale Road. This is not	
acceptable to us and our neighbours.	
In 2017 the NCW Describes and of London after additional areas of the development	
In 2017 the NSW Department of Lands refused the developers' request to	
close the mouth of Melaleuca Drive (corner Ewingsdale Road and	
Melaleuca Drive).	
The Department of Lands recognised the need for Melaleuca Drive to stay	
in its current form, that is, for the mouth of Melaleuca Drive to be open	
and no re-routing to occur. This is imperative for the following reasons:	
and the feet of th	

- Melaleuca Drive is our <u>only road access.</u> We are otherwise surrounded by bushland without access to roadways.
- Maintain <u>direct access</u> for residents of Melaleuca Dr instead of detouring through the suburbia established by the development
- Ensure that longstanding <u>businesses</u> (Planula Bed&Breakfast, Temple Byron) at the southern end of Melaleuca Drive, which attract guests with their unique natural setting, will not incur financial damage
- Allow quick access for fire fighting vehicles in the event of bushfires and a quick escape route for residents and their families, and also for overnight guests at Planula Bed & Breakfast and the many attendees of daytime/evening activities at Byron Temple. Our house and property is comprehensively surrounded by hectares of Melaleuca forest, other bush vegetation and combustible peat. A quick and direct route is imperative as no other access or exit exists. Closing the mouth of Melaleuca and rerouting could have dire consequences in the event of a bushfire.
- Quick entry and exit in the case of <u>medical emergencies</u>. For examples, ambulances should be able to quickly reach the area.
 This is not only critical for my family but also our neighbours, their families and their clients. As stated, our neighbours conduct businesses (Planula Bed&Breakfast, Temple Byron) with varying numbers of guests staying overnight or attending day/evening activities.

The Department of Lands has now entrusted Byron Shire Council with the management of Melaleuca Drive. <u>I ask Byron Shire Council to honour the decision by the NSW Department of Lands to keep Melaleuca Drive open in its current shape, that is, with direct/straight access from Ewingsdale Road.</u> Even if Byron Shire Council could be convinced by the developers to apply to the crown to close a significant part of Melaleuca Drive, amongst

others, the <u>Council must provide written consents/agreements of **ALL** owners and holders of interests in lands adjoining the road(s). See webpage:</u>

http://rgdirections.lpi.nsw.gov.au/deposited plans/roads/closing roads/c ouncil public roads

Application to close a Council public road

The Council must complete the required Application to Close Public Road form CL31-30 (PDF 59.3 KB) and lodge it with the nearest regional office of Crown Lands. For more information see www.crownland.nsw.gov.au.

The Council must attach a diagram showing:

- dimensions and area of road to be closed
- adjoining property information
- location of any existing public utilities
- location and type of any fences, buildings or structures on or near the road.

The Council must pay the required deposit and provide a statement with the following information, regarding road construction:

- evidence of construction which has taken place
- the unnecessary nature of the road
- any alternate public access, if relevant
- any intentions regarding disposition of the land
- the name and phone number of a council contact officer
- any proposal for public display.

The Council must provide written consents/agreements of:

- all owners and holders of interests in lands adjoining the road(s)
- any affected public authorities
- NSW Fisheries (where the road adjoins or gives access to a river or lake)
- Roads and Maritime Services (where the closing affects or forms a junction with a State Highway, Trunk Road or Main Road)

- The Land Information Unit, RailCorp Property (where the road adjoins	
railway land).	
In conclusion to this point: Dyron Shiro Council will not goin our written	
In conclusion to this point: Byron Shire Council will <u>not</u> gain our written	
consent if it pursues the closure of the mouth of Melaleuca Drive.	
A variety of standard mitigation measures of unknown veracity are	
proposed for internal roads, and from our perspective, we believe that as	
well as speed signs there should also be speed humps that limit speeds to	
below 20km per hour where roads are adjacent to, or cross,	
environmental zones. We certainly support the proposed Koala underpass	
under Ewingsdale Road near Sunrise Boulevard.	10.0017.001.1
Obtain commitments from the developer to contribute to additional	10.2017.201.1
improvements to the serviceability of Ewingsdale Road beyond the site	
frontage. For example, the road bridge across Belongil Creek will need to	
be widened to at least two lanes each way.	
Suggestions –	10.2017.201.1
It is suggested that we use a 'locals only' zone like the city of London, UK	
does. We can create a zone in which local traffic is permitted. Any other	
· · · · · · · · · · · · · · · · · · ·	
traffic will incur a \$10-15 a day fee by scanning their number plate (like	
tolls). This is in addition to parking fees. We offer free parking out near	
the cavanbah centre and free bus in. This will reduce the traffic for locals,	
keep the traffic pollution down and make money for the conservation of	
Byron.	
The block bounded by Lawson, Fletcher, Marvell and Jonson Streets	
should be made two lane, one way for car traffic, with two way on road	
separated bike lanes to increase movement through the Lawson and	
Jonson Street roundabout;	

2) Build the Butler Street bypass with town access next to Mitre 10 and a	
second bypass connection to Cemetery Road via the rail corridor for	
Suffolk Park access. A roundabout would be needed at the corner of	
Cemetery and Bangalow Roads;	
3) Build the bus terminus on the rail reservation behind the Rails Hotel	
with access via Butler Street only;	
4) Link any future West Byron development into the road network via	
Skinners Shoot Road west of Cumbebin Swamp Nature Reserve so that	
residents can get into, through and around town without having to use	
Ewingsdale Road. The proposal is very close to that location already and	
no consideration has been given to it. Substantial overdue resurfacing	
works would have to be undertaken and some minor land acquisition.	
This suggestion would have significant benefits in an emergency situation	
as there would be multiple egress points for residents, such as during an	
approaching bushfire. (Note: I have 17 years experience as an officer in	
the fire service.)	
Byron's one Road in and out is in need of some Strategic Plan these	
Developments must be a key contributor those the long term plan (20-50	
year) State funding?? These major developments should be a key starter	
for Extra Contributions; as a result of their impact on the Town and Shire	
Amonitor within the Duenesed Development	
Amenity within the Proposed Development	
The DAs have not been appropriately integrated into the area.	10.2017.201.1 & 10.2017.661.1
	40.0047.004.4.0.40.0047.664.4
Development lacks sufficient green space. This is an unhealthy living	10.2017.201.1 & 10.2017.661.1
environment for growing families. how about having a mandate that all	
medium strips are planted with fruit bearing trees or trees that give	
shade how about green bitumen instead of black	

Where are the community gardens? I would be keen to see some future	
planning allocation for a local retail outlet/s, PO, and other facilities	
which could be shared by residents of both Lots. Making them more	
commercially viable. Reducing concerns of the wetlandseg	
enforcing stringent Detention Ponds to every Building (plus rain water	
tanks?) As above supporting raised floors above ground to assist in water	
penetration of soil Some restricted % of the area of hard surfaces,	
roads, paving per Lot etc to allow optimum rain penetration to each	
building site. There should be provisions for child play/ minding/school	
centres across the two lots again an advantage to have links There should	
be Cycle ways, walking tracks There should be provision for construction	
of Community Hall, public access spaces There should be Bus terminal	
Car pool area.	
The two Das should have sufficient linkage!!	
Lack of information on actual complete number of additional dwellings	10.2017.201.1
given.	
Concern of the number of narrow blocks in one locality prefer spreading	10.2017.201.1 & 10.2017.661.1
these small lots inter mingling them (in small groups)to allow more fluid	
integration of various Architecture Styles and greater social mix. Potential	
for Govt and or Affordable Housing	
There is a very constrained streetscape. Roads which serve an area of very	10.2017.201.1
small blocks appear to have no provision for on street parking. This is	
unrealistic.	
Plan for 4 metre high wall along the road boundary uses council land	10.2017.201.1
without permission	
Development lacks land sensitive design such as eco-housing	10.2017.201.1
Design is overpopulated	10.2017.201.1
No neighbourhood employment or leisure opportunities the for West	10.2017.201.1 & 10.2017.661.1
Byron inhabitants, All the things that make a village more liveable, Like a	

corner store, child centre, school, community space eg. Hall, N hubs for community gardens or open spaces, sports or playgrounds for children or Tree Buffers for noise pollution. It's just a hot mess of tin roofs, no trees or gardens or visually pleasing space. It would form a ghetto type feeling, without basic facilities and no one would be truly happy unless they are desenstitised to the natural environment. Although the proponents claimed the development would be designed to encourage bicycle use, there are no bike paths (except for a tiny part around the community use area), presumably to increase block yields. The internal roads are marked at 50 km/h and there are no shared use 10 km/h zones. The lack of designated pedestrian and bike pathways means more vehicle use and for those that are walking or bike riding more risks in competition with vehicles. All streets must have footpaths. As this development proposed on a flood prone site, slab construction is opposed and buildings should be pier constructed. Social amenity is too minimal. Minimal open space and no shopping areas will lead to detrimental effect of amenity. There are no community halls or non-commercial spaces. Design lacks inclusion of commercial infrastructure It should reflect a density that allows environmental controls and building type specification (I am aware this is Council directive after the rezoning, but should be planned from day one to create a unique development that has a natural fit in a extremely wet environment) and passive solar design made of environmentally sustainable building materials that are low impact high yielding so as to protect the natural habitat. The design principles, including height of structures, are negative. Unless houses are restricted to one level, they will exceed the building height requirement of two floods above NATURAL ground level, as the fill will be 3m high. The proposal includes duplex lots less than the minimum 600m2. Why		
Tree Buffers for noise pollution. It's just a hot mess of tin roofs, no trees or gardens or visually pleasing space. It would form a ghetto type feeling, without basic facilities and no one would be truly happy unless they are desensitised to the natural environment. Although the proponents claimed the development would be designed to encourage bicycle use, there are no bike paths (except for a tiny part around the community use area), presumably to increase block yields. The internal roads are marked at 50 km/h and there are no shared use 10 km/h zones. The lack of designated pedestrian and bike pathways means more vehicle use and for those that are walking or bike riding more risks in competition with vehicles. All streets must have footpaths. As this development proposed on a flood prone site, slab construction is opposed and buildings should be pier constructed. Social amenity is too minimal. Minimal open space and no shopping areas will lead to detrimental effect of amenity. There are no community halls or non-commercial spaces. Design lacks inclusion of commercial infrastructure It should reflect a density that allows environmental controls and building type specification (I am aware this is Council directive after the rezoning, but should be planned from day one to create a unique development that has a natural fit in a extremely wet environment) and passive solar design made of environmentally sustainable building materials that are low impact high yielding so as to protect the natural habitat. The design principles, including height of structures, are negative. Unless houses are restricted to one level, they will exceed the building height requirement of two floods above NATURAL ground level, as the fill will be 3m high.		
or gardens or visually pleasing space. It would form a ghetto type feeling, without basic facilities and no one would be truly happy unless they are desensitised to the natural environment. Although the proponents claimed the development would be designed to encourage bicycle use, there are no bike paths (except for a tiny part around the community use area), presumably to increase block yields. The internal roads are marked at 50 km/h and there are no shared use 10 km/h zones. The lack of designated pedestrian and bike pathways means more vehicle use and for those that are walking or bike riding more risks in competition with vehicles. All streets must have footpaths. As this development proposed on a flood prone site, slab construction is opposed and buildings should be pier constructed. Social amenity is too minimal. Minimal open space and no shopping areas will lead to detrimental effect of amenity. There are no community halls or non-commercial spaces. Design lacks inclusion of commercial infrastructure It should reflect a density that allows environmental controls and building type specification (I am aware this is Council directive after the rezoning, but should be planned from day one to create a unique development that has a natural fit in a extremely wet environment) and passive solar design made of environmentally sustainable building materials that are low impact high yielding so as to protect the natural habitat. The design principles, including height of structures, are negative. Unless houses are restricted to one level, they will exceed the building height requirement of two floods above NATURAL ground level, as the fill will be 3m high.		
without basic facilities and no one would be truly happy unless they are desensitised to the natural environment. Although the proponents claimed the development would be designed to encourage bicycle use, there are no bike paths (except for a tiny part around the community use area), presumably to increase block yields. The internal roads are marked at 50 km/h and there are no shared use 10 km/h zones. The lack of designated pedestrian and bike pathways means more vehicle use and for those that are walking or bike riding more risks in competition with vehicles. All streets must have footpaths. As this development proposed on a flood prone site, slab construction is opposed and buildings should be pier constructed. Social amenity is too minimal. Minimal open space and no shopping areas will lead to detrimental effect of amenity. There are no community halls or non-commercial spaces. Design lacks inclusion of commercial infrastructure It should reflect a density that allows environmental controls and building type specification (I am aware this is Council directive after the rezoning, but should be planned from day one to create a unique development that has a natural fit in a extremely wet environment) and passive solar design made of environmentally sustainable building materials that are low impact high yielding so as to protect the natural habitat. The design principles, including height of structures, are negative. Unless houses are restricted to one level, they will exceed the building height requirement of two floods above NATURAL ground level, as the fill will be 3m high.	·	
desensitised to the natural environment. Although the proponents claimed the development would be designed to encourage bicycle use, there are no bike paths (except for a tiny part around the community use area), presumably to increase block yields. The internal roads are marked at 50 km/h and there are no shared use 10 km/h zones. The lack of designated pedestrian and bike pathways means more vehicle use and for those that are walking or bike riding more risks in competition with vehicles. All streets must have footpaths. As this development proposed on a flood prone site, slab construction is opposed and buildings should be pier constructed. Social amenity is too minimal. Minimal open space and no shopping areas will lead to detrimental effect of amenity. There are no community halls or non-commercial spaces. Design lacks inclusion of commercial infrastructure It should reflect a density that allows environmental controls and building type specification (I am aware this is Council directive after the rezoning, but should be planned from day one to create a unique development that has a natural fit in a extremely wet environment) and passive solar design made of environmentally sustainable building materials that are low impact high yielding so as to protect the natural habitat. The design principles, including height of structures, are negative. Unless houses are restricted to one level, they will exceed the building height requirement of two floods above NATURAL ground level, as the fill will be 3m high.	or gardens or visually pleasing space. It would form a ghetto type feeling,	
Although the proponents claimed the development would be designed to encourage bicycle use, there are no bike paths (except for a tiny part around the community use area), presumably to increase block yields. The internal roads are marked at 50 km/h and there are no shared use 10 km/h zones. The lack of designated pedestrian and bike pathways means more vehicle use and for those that are walking or bike riding more risks in competition with vehicles. All streets must have footpaths. As this development proposed on a flood prone site, slab construction is opposed and buildings should be pier constructed. Social amenity is too minimal. Minimal open space and no shopping areas will lead to detrimental effect of amenity. There are no community halls or non-commercial spaces. Design lacks inclusion of commercial infrastructure It should reflect a density that allows environmental controls and building type specification (I am aware this is Council directive after the rezoning, but should be planned from day one to create a unique development that has a natural fit in a extremely wet environment) and passive solar design made of environmentally sustainable building materials that are low impact high yielding so as to protect the natural habitat. The design principles, including height of structures, are negative. Unless houses are restricted to one level, they will exceed the building height requirement of two floods above NATURAL ground level, as the fill will be 3m high.	without basic facilities and no one would be truly happy unless they are	
encourage bicycle use, there are no bike paths (except for a tiny part around the community use area), presumably to increase block yields. The internal roads are marked at 50 km/h and there are no shared use 10 km/h zones. The lack of designated pedestrian and bike pathways means more vehicle use and for those that are walking or bike riding more risks in competition with vehicles. All streets must have footpaths. As this development proposed on a flood prone site, slab construction is opposed and buildings should be pier constructed. Social amenity is too minimal. Minimal open space and no shopping areas will lead to detrimental effect of amenity. There are no community halls or non-commercial spaces. Design lacks inclusion of commercial infrastructure It should reflect a density that allows environmental controls and building type specification (I am aware this is Council directive after the rezoning, but should be planned from day one to create a unique development that has a natural fit in a extremely wet environment) and passive solar design made of environmentally sustainable building materials that are low impact high yielding so as to protect the natural habitat. The design principles, including height of structures, are negative. Unless houses are restricted to one level, they will exceed the building height requirement of two floods above NATURAL ground level, as the fill will be 3m high.	desensitised to the natural environment.	
around the community use area), presumably to increase block yields. The internal roads are marked at 50 km/h and there are no shared use 10 km/h zones. The lack of designated pedestrian and bike pathways means more vehicle use and for those that are walking or bike riding more risks in competition with vehicles. All streets must have footpaths. As this development proposed on a flood prone site, slab construction is opposed and buildings should be pier constructed. Social amenity is too minimal. Minimal open space and no shopping areas will lead to detrimental effect of amenity. There are no community halls or non-commercial spaces. Design lacks inclusion of commercial infrastructure It should reflect a density that allows environmental controls and building type specification (I am aware this is Council directive after the rezoning, but should be planned from day one to create a unique development that has a natural fit in a extremely wet environment) and passive solar design made of environmentally sustainable building materials that are low impact high yielding so as to protect the natural habitat. The design principles, including height of structures, are negative. Unless houses are restricted to one level, they will exceed the building height requirement of two floods above NATURAL ground level, as the fill will be 3m high.	Although the proponents claimed the development would be designed to	10.2017.201.1
internal roads are marked at 50 km/h and there are no shared use 10 km/h zones. The lack of designated pedestrian and bike pathways means more vehicle use and for those that are walking or bike riding more risks in competition with vehicles. All streets must have footpaths. As this development proposed on a flood prone site, slab construction is opposed and buildings should be pier constructed. Social amenity is too minimal. Minimal open space and no shopping areas will lead to detrimental effect of amenity. There are no community halls or non-commercial spaces. Design lacks inclusion of commercial infrastructure It should reflect a density that allows environmental controls and building type specification (I am aware this is Council directive after the rezoning, but should be planned from day one to create a unique development that has a natural fit in a extremely wet environment) and passive solar design made of environmentally sustainable building materials that are low impact high yielding so as to protect the natural habitat. The design principles, including height of structures, are negative. Unless houses are restricted to one level, they will exceed the building height requirement of two floods above NATURAL ground level, as the fill will be 3m high.	encourage bicycle use, there are no bike paths (except for a tiny part	
km/h zones. The lack of designated pedestrian and bike pathways means more vehicle use and for those that are walking or bike riding more risks in competition with vehicles. All streets must have footpaths. As this development proposed on a flood prone site, slab construction is opposed and buildings should be pier constructed. Social amenity is too minimal. Minimal open space and no shopping areas will lead to detrimental effect of amenity. There are no community halls or non-commercial spaces. Design lacks inclusion of commercial infrastructure It should reflect a density that allows environmental controls and building type specification (I am aware this is Council directive after the rezoning, but should be planned from day one to create a unique development that has a natural fit in a extremely wet environment) and passive solar design made of environmentally sustainable building materials that are low impact high yielding so as to protect the natural habitat. The design principles, including height of structures, are negative. Unless houses are restricted to one level, they will exceed the building height requirement of two floods above NATURAL ground level, as the fill will be 3m high.	around the community use area), presumably to increase block yields. The	
more vehicle use and for those that are walking or bike riding more risks in competition with vehicles. All streets must have footpaths. As this development proposed on a flood prone site, slab construction is opposed and buildings should be pier constructed. Social amenity is too minimal. Minimal open space and no shopping areas will lead to detrimental effect of amenity. There are no community halls or non-commercial spaces. Design lacks inclusion of commercial infrastructure It should reflect a density that allows environmental controls and building type specification (I am aware this is Council directive after the rezoning, but should be planned from day one to create a unique development that has a natural fit in a extremely wet environment) and passive solar design made of environmentally sustainable building materials that are low impact high yielding so as to protect the natural habitat. The design principles, including height of structures, are negative. Unless houses are restricted to one level, they will exceed the building height requirement of two floods above NATURAL ground level, as the fill will be 3m high.	internal roads are marked at 50 km/h and there are no shared use 10	
in competition with vehicles. All streets must have footpaths. As this development proposed on a flood prone site, slab construction is opposed and buildings should be pier constructed. Social amenity is too minimal. Minimal open space and no shopping areas will lead to detrimental effect of amenity. There are no community halls or non-commercial spaces. Design lacks inclusion of commercial infrastructure It should reflect a density that allows environmental controls and building type specification (I am aware this is Council directive after the rezoning, but should be planned from day one to create a unique development that has a natural fit in a extremely wet environment) and passive solar design made of environmentally sustainable building materials that are low impact high yielding so as to protect the natural habitat. The design principles, including height of structures, are negative. Unless houses are restricted to one level, they will exceed the building height requirement of two floods above NATURAL ground level, as the fill will be 3m high.	km/h zones. The lack of designated pedestrian and bike pathways means	
As this development proposed on a flood prone site, slab construction is opposed and buildings should be pier constructed. Social amenity is too minimal. Minimal open space and no shopping areas will lead to detrimental effect of amenity. There are no community halls or non-commercial spaces. Design lacks inclusion of commercial infrastructure It should reflect a density that allows environmental controls and building type specification (I am aware this is Council directive after the rezoning, but should be planned from day one to create a unique development that has a natural fit in a extremely wet environment) and passive solar design made of environmentally sustainable building materials that are low impact high yielding so as to protect the natural habitat. The design principles, including height of structures, are negative. Unless houses are restricted to one level, they will exceed the building height requirement of two floods above NATURAL ground level, as the fill will be 3m high.	more vehicle use and for those that are walking or bike riding more risks	
opposed and buildings should be pier constructed. Social amenity is too minimal. Minimal open space and no shopping areas will lead to detrimental effect of amenity. There are no community halls or non-commercial spaces. Design lacks inclusion of commercial infrastructure It should reflect a density that allows environmental controls and building type specification (I am aware this is Council directive after the rezoning, but should be planned from day one to create a unique development that has a natural fit in a extremely wet environment) and passive solar design made of environmentally sustainable building materials that are low impact high yielding so as to protect the natural habitat. The design principles, including height of structures, are negative. Unless houses are restricted to one level, they will exceed the building height requirement of two floods above NATURAL ground level, as the fill will be 3m high.	in competition with vehicles. All streets must have footpaths.	
Social amenity is too minimal. Minimal open space and no shopping areas will lead to detrimental effect of amenity. There are no community halls or non-commercial spaces. Design lacks inclusion of commercial infrastructure It should reflect a density that allows environmental controls and building type specification (I am aware this is Council directive after the rezoning, but should be planned from day one to create a unique development that has a natural fit in a extremely wet environment) and passive solar design made of environmentally sustainable building materials that are low impact high yielding so as to protect the natural habitat. The design principles, including height of structures, are negative. Unless houses are restricted to one level, they will exceed the building height requirement of two floods above NATURAL ground level, as the fill will be 3m high.	As this development proposed on a flood prone site, slab construction is	10.2017.201.1 & 10.2017.661.1
will lead to detrimental effect of amenity. There are no community halls or non-commercial spaces. Design lacks inclusion of commercial infrastructure It should reflect a density that allows environmental controls and building type specification (I am aware this is Council directive after the rezoning, but should be planned from day one to create a unique development that has a natural fit in a extremely wet environment) and passive solar design made of environmentally sustainable building materials that are low impact high yielding so as to protect the natural habitat. The design principles, including height of structures, are negative. Unless houses are restricted to one level, they will exceed the building height requirement of two floods above NATURAL ground level, as the fill will be 3m high.	opposed and buildings should be pier constructed.	
or non-commercial spaces. Design lacks inclusion of commercial infrastructure It should reflect a density that allows environmental controls and building type specification (I am aware this is Council directive after the rezoning, but should be planned from day one to create a unique development that has a natural fit in a extremely wet environment) and passive solar design made of environmentally sustainable building materials that are low impact high yielding so as to protect the natural habitat. The design principles, including height of structures, are negative. Unless houses are restricted to one level, they will exceed the building height requirement of two floods above NATURAL ground level, as the fill will be 3m high.	Social amenity is too minimal. Minimal open space and no shopping areas	10.2017.201.1 & 10.2017.661.1
It should reflect a density that allows environmental controls and building type specification (I am aware this is Council directive after the rezoning, but should be planned from day one to create a unique development that has a natural fit in a extremely wet environment) and passive solar design made of environmentally sustainable building materials that are low impact high yielding so as to protect the natural habitat. The design principles, including height of structures, are negative. Unless houses are restricted to one level, they will exceed the building height requirement of two floods above NATURAL ground level, as the fill will be 3m high.	will lead to detrimental effect of amenity. There are no community halls	
It should reflect a density that allows environmental controls and building type specification (I am aware this is Council directive after the rezoning, but should be planned from day one to create a unique development that has a natural fit in a extremely wet environment) and passive solar design made of environmentally sustainable building materials that are low impact high yielding so as to protect the natural habitat. The design principles, including height of structures, are negative. Unless houses are restricted to one level, they will exceed the building height requirement of two floods above NATURAL ground level, as the fill will be 3m high.	or non-commercial spaces. Design lacks inclusion of commercial	
type specification (I am aware this is Council directive after the rezoning, but should be planned from day one to create a unique development that has a natural fit in a extremely wet environment) and passive solar design made of environmentally sustainable building materials that are low impact high yielding so as to protect the natural habitat. The design principles, including height of structures, are negative. Unless houses are restricted to one level, they will exceed the building height requirement of two floods above NATURAL ground level, as the fill will be 3m high.	infrastructure	
but should be planned from day one to create a unique development that has a natural fit in a extremely wet environment) and passive solar design made of environmentally sustainable building materials that are low impact high yielding so as to protect the natural habitat. The design principles, including height of structures, are negative. Unless houses are restricted to one level, they will exceed the building height requirement of two floods above NATURAL ground level, as the fill will be 3m high.	It should reflect a density that allows environmental controls and building	10.2017.201.1 & 10.2017.661.1
has a natural fit in a extremely wet environment) and passive solar design made of environmentally sustainable building materials that are low impact high yielding so as to protect the natural habitat. The design principles, including height of structures, are negative. Unless houses are restricted to one level, they will exceed the building height requirement of two floods above NATURAL ground level, as the fill will be 3m high.	type specification (I am aware this is Council directive after the rezoning,	
made of environmentally sustainable building materials that are low impact high yielding so as to protect the natural habitat. The design principles, including height of structures, are negative. Unless houses are restricted to one level, they will exceed the building height requirement of two floods above NATURAL ground level, as the fill will be 3m high.	but should be planned from day one to create a unique development that	
impact high yielding so as to protect the natural habitat. The design principles, including height of structures, are negative. Unless houses are restricted to one level, they will exceed the building height requirement of two floods above NATURAL ground level, as the fill will be 3m high.	has a natural fit in a extremely wet environment) and passive solar design	
The design principles, including height of structures, are negative. Unless houses are restricted to one level, they will exceed the building height requirement of two floods above NATURAL ground level, as the fill will be 3m high. 10.2017.201.1 & 10.2017.661.1	made of environmentally sustainable building materials that are low	
houses are restricted to one level, they will exceed the building height requirement of two floods above NATURAL ground level, as the fill will be 3m high.	impact high yielding so as to protect the natural habitat.	
requirement of two floods above NATURAL ground level, as the fill will be 3m high.	The design principles, including height of structures, are negative. Unless	10.2017.201.1 & 10.2017.661.1
3m high.	houses are restricted to one level, they will exceed the building height	
	requirement of two floods above NATURAL ground level, as the fill will be	
The proposal includes duplex lots less than the minimum 600m2. Why 10.2017.201.1	3m high.	
	The proposal includes duplex lots less than the minimum 600m2. Why	10.2017.201.1

would this precedent be accepted? No details have been given on what will comprise the "village centre". No details have been given on what will comprise the "village centre". No details have been provided of the commercial developments. Poorly built homes (on wetlands) means mould and mould means ill health. Immediate Neighbourhood Detrimental to neighbouring property value. The destruction of the wet lands will consequentially effect the Belongil creek and draining, resulting in a high flood risk zone which we have already have been zoned as. The flooding directly effects our properties and would ruin the place we call home. (Shirley Lane houses) The reasonable peace and enjoyment of residents in surrounding areas will be denied for an ongoing lengthy period. Traffic noise - as it is, the noise of the cars coming to/from Byron is off-putting when staying at Belongil. The proposed development will make this noise significantly worse and i believe will make residing in Belongil unappealing. There are approximately 10 properties between Skinners Shoot and Ewingsdale that are prime agricultural farmlands from beef & dairy cattle, believe the server when the state of the cattle control of the cattle cattle, but the state of the cattle catt
details have been provided of the commercial developments. Poorly built homes (on wetlands) means mould and mould means ill health. Immediate Neighbourhood Detrimental to neighbouring property value. The destruction of the wet lands will consequentially effect the Belongil creek and draining, resulting in a high flood risk zone which we have already have been zoned as. The flooding directly effects our properties and would ruin the place we call home. (Shirley Lane houses) The reasonable peace and enjoyment of residents in surrounding areas will be denied for an ongoing lengthy period. Traffic noise - as it is, the noise of the cars coming to/from Byron is off-putting when staying at Belongil. The proposed development will make this noise significantly worse and i believe will make residing in Belongil unappealing. There are approximately 10 properties between Skinners Shoot and Ewingsdale that are prime agricultural farmlands from beef & dairy cattle,
Poorly built homes (on wetlands) means mould and mould means ill health. Immediate Neighbourhood Detrimental to neighbouring property value. The destruction of the wet lands will consequentially effect the Belongil creek and draining, resulting in a high flood risk zone which we have already have been zoned as. The flooding directly effects our properties and would ruin the place we call home. (Shirley Lane houses) The reasonable peace and enjoyment of residents in surrounding areas will be denied for an ongoing lengthy period. Traffic noise - as it is, the noise of the cars coming to/from Byron is offputting when staying at Belongil. The proposed development will make this noise significantly worse and i believe will make residing in Belongil unappealing. There are approximately 10 properties between Skinners Shoot and Ewingsdale that are prime agricultural farmlands from beef & dairy cattle,
Immediate Neighbourhood Detrimental to neighbouring property value. The destruction of the wet lands will consequentially effect the Belongil creek and draining, resulting in a high flood risk zone which we have already have been zoned as. The flooding directly effects our properties and would ruin the place we call home. (Shirley Lane houses) The reasonable peace and enjoyment of residents in surrounding areas will be denied for an ongoing lengthy period. Traffic noise - as it is, the noise of the cars coming to/from Byron is off-putting when staying at Belongil. The proposed development will make this noise significantly worse and i believe will make residing in Belongil unappealing. There are approximately 10 properties between Skinners Shoot and Ewingsdale that are prime agricultural farmlands from beef & dairy cattle,
Immediate Neighbourhood Detrimental to neighbouring property value. The destruction of the wet lands will consequentially effect the Belongil creek and draining, resulting in a high flood risk zone which we have already have been zoned as. The flooding directly effects our properties and would ruin the place we call home. (Shirley Lane houses) The reasonable peace and enjoyment of residents in surrounding areas will be denied for an ongoing lengthy period. Traffic noise - as it is, the noise of the cars coming to/from Byron is off-putting when staying at Belongil. The proposed development will make this noise significantly worse and i believe will make residing in Belongil unappealing. There are approximately 10 properties between Skinners Shoot and Ewingsdale that are prime agricultural farmlands from beef & dairy cattle,
Detrimental to neighbouring property value. The destruction of the wet lands will consequentially effect the Belongil creek and draining, resulting in a high flood risk zone which we have already have been zoned as. The flooding directly effects our properties and would ruin the place we call home. (Shirley Lane houses) The reasonable peace and enjoyment of residents in surrounding areas will be denied for an ongoing lengthy period. Traffic noise - as it is, the noise of the cars coming to/from Byron is offputting when staying at Belongil. The proposed development will make this noise significantly worse and i believe will make residing in Belongil unappealing. There are approximately 10 properties between Skinners Shoot and Ewingsdale that are prime agricultural farmlands from beef & dairy cattle,
Detrimental to neighbouring property value. The destruction of the wet lands will consequentially effect the Belongil creek and draining, resulting in a high flood risk zone which we have already have been zoned as. The flooding directly effects our properties and would ruin the place we call home. (Shirley Lane houses) The reasonable peace and enjoyment of residents in surrounding areas will be denied for an ongoing lengthy period. Traffic noise - as it is, the noise of the cars coming to/from Byron is offputting when staying at Belongil. The proposed development will make this noise significantly worse and i believe will make residing in Belongil unappealing. There are approximately 10 properties between Skinners Shoot and Ewingsdale that are prime agricultural farmlands from beef & dairy cattle,
The destruction of the wet lands will consequentially effect the Belongil creek and draining, resulting in a high flood risk zone which we have already have been zoned as. The flooding directly effects our properties and would ruin the place we call home. (Shirley Lane houses) The reasonable peace and enjoyment of residents in surrounding areas will be denied for an ongoing lengthy period. Traffic noise - as it is, the noise of the cars coming to/from Byron is offputting when staying at Belongil. The proposed development will make this noise significantly worse and i believe will make residing in Belongil unappealing. There are approximately 10 properties between Skinners Shoot and Ewingsdale that are prime agricultural farmlands from beef & dairy cattle,
creek and draining, resulting in a high flood risk zone which we have already have been zoned as. The flooding directly effects our properties and would ruin the place we call home. (Shirley Lane houses) The reasonable peace and enjoyment of residents in surrounding areas will be denied for an ongoing lengthy period. Traffic noise - as it is, the noise of the cars coming to/from Byron is off-putting when staying at Belongil. The proposed development will make this noise significantly worse and i believe will make residing in Belongil unappealing. There are approximately 10 properties between Skinners Shoot and Ewingsdale that are prime agricultural farmlands from beef & dairy cattle,
already have been zoned as. The flooding directly effects our properties and would ruin the place we call home. (Shirley Lane houses) The reasonable peace and enjoyment of residents in surrounding areas will be denied for an ongoing lengthy period. Traffic noise - as it is, the noise of the cars coming to/from Byron is offputting when staying at Belongil. The proposed development will make this noise significantly worse and i believe will make residing in Belongil unappealing. There are approximately 10 properties between Skinners Shoot and Ewingsdale that are prime agricultural farmlands from beef & dairy cattle,
and would ruin the place we call home. (Shirley Lane houses) The reasonable peace and enjoyment of residents in surrounding areas will be denied for an ongoing lengthy period. Traffic noise - as it is, the noise of the cars coming to/from Byron is off-putting when staying at Belongil. The proposed development will make this noise significantly worse and i believe will make residing in Belongil unappealing. There are approximately 10 properties between Skinners Shoot and Ewingsdale that are prime agricultural farmlands from beef & dairy cattle,
The reasonable peace and enjoyment of residents in surrounding areas will be denied for an ongoing lengthy period. Traffic noise - as it is, the noise of the cars coming to/from Byron is off-putting when staying at Belongil. The proposed development will make this noise significantly worse and i believe will make residing in Belongil unappealing. There are approximately 10 properties between Skinners Shoot and Ewingsdale that are prime agricultural farmlands from beef & dairy cattle,
will be denied for an ongoing lengthy period. Traffic noise - as it is, the noise of the cars coming to/from Byron is off- putting when staying at Belongil. The proposed development will make this noise significantly worse and i believe will make residing in Belongil unappealing. There are approximately 10 properties between Skinners Shoot and Ewingsdale that are prime agricultural farmlands from beef & dairy cattle,
Traffic noise - as it is, the noise of the cars coming to/from Byron is off- putting when staying at Belongil. The proposed development will make this noise significantly worse and i believe will make residing in Belongil unappealing. There are approximately 10 properties between Skinners Shoot and Ewingsdale that are prime agricultural farmlands from beef & dairy cattle,
putting when staying at Belongil. The proposed development will make this noise significantly worse and i believe will make residing in Belongil unappealing. There are approximately 10 properties between Skinners Shoot and Ewingsdale that are prime agricultural farmlands from beef & dairy cattle,
this noise significantly worse and i believe will make residing in Belongil unappealing. There are approximately 10 properties between Skinners Shoot and Ewingsdale that are prime agricultural farmlands from beef & dairy cattle,
unappealing. There are approximately 10 properties between Skinners Shoot and Ewingsdale that are prime agricultural farmlands from beef & dairy cattle,
unappealing. There are approximately 10 properties between Skinners Shoot and Ewingsdale that are prime agricultural farmlands from beef & dairy cattle,
Ewingsdale that are prime agricultural farmlands from beef & dairy cattle,
, , ,
alive and city or groves. Any change or alteration of the victor table visually
olive and citrus groves. Any change or alteration of the water table would
decimate these activities, rendering prime agricultural land useless.
The Villa World D.A. proposes that the main collector road from 10.2017.201.1
Melaleuca Drive linking through to the Bayshore Drive / Ewingsdale Rd
intersection be completed in stage 6.
This could take some years to complete and we would prefer to see the
road coming in from the Bayshore Drive / Ewingsdale Rd intersection to
run through to Melaleuca Drive in stage 1. The reasons for this are:
* It would provide a safer and less inconvenient exit for Melaleuca Drive
Aikido and guests / Planula & B&B guests / Vidal / T & J Smith / Fletcher

along an <u>11m wide Collector Rd</u> then into the <u>13 m wide Distributor Rd</u> to Ewingsdale Rd. The alternative proposed by VW is a convoluted changing pathway along 7m wide local roads to be shared with construction vehicles and truck deliveries.

- * The draft DCP identifies stage 1 as being all west of Melaleuca Dr and the eastern third.
- * The current plan (VW DA SEE p24 "Staging Plan") stage 1a stops only one house short of going right through to the collector road.
- * This would enable the Melaleuca Dr / Ewingsdale Rd intersection to be closed at a very early stage.
- * This is only a staging change for Villa World with no change required to the road layout or subdivision design.

The Ultimate Staging Plan – A (Drawing A101, 7 April 2017) indicates that Lot 2 DP 81803 owned by AR & JD Smith and Fletcher Project Developments Pty Ltd will not be provided with road access (and a service corridor) until Stage 1F is completed. This means that 150 lots will have been created in Harvest before Lot 2 DP 818403 can be developed. We consider that this staging arrangement is unreasonable given the need to provide a diverse range of residential product and the need for flexibility. These owners and three others to the south of the proposed development rely on access via Melaleuca Drive at present and that the proposed cascading access to the south would not be conducive to the owners who rely on the direct access they currently enjoy.

The Staging Plan indicates that Lot 2 DP 542178 (Telicove Pty Lts) will not be provided with road access through the Villa World Site until Stage 1G, which equates to 209 lots. Whilst Lot 2 has frontage to Ewingsdale Road and can be accessed and serviced from that road, it is nevertheless highly desirable that road access from the Harvest site also be provided at an

10.2017.201.1

early stage to improve connectivity and permeability and facilitate more	
efficient servicing.	
The West Byron Master Plan Belongil Land Holdings, Areas for Co-	
ordination shows three areas at the interface between the Villa World	
land and the Belongil land where relatively minor amendments to the	
Villa World layout will be required to integrate with the proposed street	
layout and geometry on adjoining Belongil Land.	
Plans, Conclusions etc all attached (E2017/71654, Telicove submission)	
There is a lack of consideration of the proposed development for	10.2017.201.1
potential impacts on Lot 3 DP 551947. The development proposal seeks to	10.2017.201.1
raise neighbouring land levels in the order of 0.5m (pale green) to 1m	
(dark green) as per cut fill proposals on Drg No 30 Rev A. This is also	
confirmed via the Road No 2 Long section which indicates a centreline	
raising of levels by 0.49m. It is not clear how the development proposes	
to resolve to collect and dispose stormwater runoff from Lot 3 DP551947,	
without affecting the use of the land. The development proposes a	
retaining wall with noise barrier located upon such wall about the	
perimeter of Lot 3 DP 551947. As illustrated in Drg No. 04 Rev A – Roads	
and Drainage below, the wall shown in green encloses the subject site.	
The height of the wall will range in the order of 2.6m to 3.1m above the	
current ground level (Drg No 29 – Acoustic Wall Sections). Such heights	
are well in excess of normal maximum 1.8m high neighbourhood fencing.	
It would seem that the existing Lot 3 DP 551947 is being turned into an	
'enclave' with such imposing boundary structures that have no buffering /	
articulation or other setback to lessen the visual impact.	
The site will be 'boxed in' and no assessment of the impact of the wall on	
the amenity or development potential of our client's land has been made.	
It is unclear how it is proposed to undertake the construction of Road 2	

without acquiring part of Lot 3 DP 551947. Refer Drawing No 04 Rev A with area of lands not owned by development shown in RED. Of concern is no discussion has been entered into with owner of land as to such matters. Further, as is evident from the above plan, the construction of the acoustic wall structure (which appears to be within our client's property boundary) would prevent any access from Lot 3 to the proposed road. Given the potential for the restriction of access from Ewingsdale Road likely to be imposed as a result of the West Byron development, it is important that the proposed Road 2 and the acoustic wall be designed, in consultation with our clients, to provide for access to Lot 3 DP 551947. We question whether the application in its current form is 'properly' made given that it proposes works on our client's land and no landowner authority from the owners of Lot 3 DP 551947 has been provided? We submit that the application in its current form fails to adequately address the potential impacts of the development on Lot 3 DP 551947 and we would welcome the opportunity to discuss these matters with the developer.

(E2017/71609)

Planula B&B Retreat attracts guests that are looking for a Retreat, they come for the native wildlife such as our wallabies, over 9 different frog species and dozens of bird species - they don't want to stay in a suburb of Byron Bay, but within close proximity. For over 17 years this has been our selling point and the reason why this property was developed into a nature-friendly B&B Retreat. Designating 50 acres of our property officially as 'Land for Wildlife' should prove this point. Being 'pushed' to the edge of a huge new suburb of Byron Bay will destroy our business in its current form. For the sake of our Bed & Breakfast development it would unduly alter the nature of our business if our Bed & Breakfast was to be reached after driving through suburban development. The 'remote oasis' feeling that we have been developing for the last 17 years would be

10.2017.201.1

gone and our business would undoubtedly be negatively impacted financially.

The proposed roads that lead eventually to the truncated Melaleuca Drive on the concept plan will be 50 km/h roads and there are no cycle paths proposed in the residential areas. We fear for the safety of our children when the cycle down what was an empty unsealed road to join the official bicycle path into town and to school.

The import of such enormous amounts of fill right next to our property, earthworks and construction will create massive problems for our business, which is a Bed & Breakfast Retreat where people come to find peace and quiet, not dust and noise.

Considering the size of this development, our 17 year old business might not survive the strain that such overdevelopment would mean.

Who will compensate us for the loss of income and any effects on our physical and mental health due to the construction of this new suburbia? Villa World has not made any approach to discuss their plans or the impact of their construction phase on our business.

The proposal of a Light Industrial Zone to within 50m of our property boundary will severely impact our current development and any future plans of eco-tourism development on our property. The main impact we predict will be from noise as well as the overall 'ambience' of the area which is important for our clients. Who wants to book accommodation near an industrial area of any kind.

The roundabout to access the new Light Industrial Zone on the concept plan (Page 14 document 'Plans 1') is deep into the development, which makes absolutely no sense. It would bring trucks and other industrial

traffic right into the residential area and close to our home. The entry to the new Light Industrial Zone would be a lot more suitably located in close vicinity to the entry at Ewingsdale Road.

We request connection points and inclusion of our property if any improved infrastructure is to be constructed as part of any new development. This includes upgrades to telecommunication infrastructure, connection to town waste water / sewerage as well as any road upgrades.

Traffic into Byron Bay has become one of the most significant problems for the area. It already significantly impacts our business when our Bed & Breakfast guests can get to Byron Bay faster on a bicycle than by car. Our 2 minute, 3 km trip into town these days takes 30 minutes. Guests have cancelled their accommodation booking with us due to this and we are therefore financially already impacted by the traffic problems. The impact on the environment, economy and sanity of everybody involved is already enormous.

53 Melaleuca Drive The Storm water management plan of the DA is insufficient and misleading. Examples relating directly to my property are as follows:

- Some figures (Page 8 figure 2 and 3) are nonsensical.
- Point 2.3., "Description of Subject", states the following: "... will require an internal drainage network that will be aligned to discharge into proposed treatment devices which enter the Union Drain passing through the centre of the site, or overland flow out to the south to an existing overland flow path". This is false and misleading. The Union Drain does not pass through the centre of

- the site. There is no existing flow path to the south of the site.
- Point 5.1 Storm water Considerations Overland flow paths (Page 18) the document states: "Stages 1A, 1F, 1E most of 1I and part of 1D will be directed to the existing drainage flow paths in environmental area in the south". There is no existing flow path in 1A, 1D, 1E, 1F. The water will be directed towards private land, our land. The law of private nuisance strongly suggests that our land is not a legal point of discharge.
- The storm water assessment drawings also show storm water directed onto our land.
- The illustration "West/Byron/Belongil Fields Site observation Locations" shows as Location #32 a "vegetated drainage swell". This is also false and misleading. The "drainage swell" is neither gazetted nor functioning and stops at my property; it is unconnected to any drainage system. Once again: This is not a legal point of discharge and unacceptable.

To consolidate my point, I refer to the following advice of the EDO (Environmental Defenders Office):

The Byron Shire Council Development Control Plan (Part B section B3.2.3) makes provision for Stormwater Management. Clause 2 of B3.2.3 contains requirements for stormwater management for properties adjacent to, or containing, waterways. The terms "waterways" includes wetlands (see definition of waterways in the Byron LEP, which applies to the term as used in the DCP). The requirements regarding the proposed development are as follows:

 Site drainage shall be in accordance with the Northern Rivers Local Government Development Design and Construction Manuals, Byron Shire Council Comprehensive Guidelines for Stormwater Management and relevant Australian Standards.

- b) For building works, the piped property drainage system is to capture and convey to a lawful point of discharge all stormwater runoff from the following areas of the development site:
 - i) impervious areas including roofs, paved areas and driveways
 - ii) areas subject to changes to ground level (existing) including excavation or filled areas
 - iii) areas where the natural or pre-development overland flow regime is disrupted to the potential detriment of an adjoining property.
- c) The development must not introduce, impede or divert stormwater runoff in such a manner as to increase stormwater flow across a boundary onto adjoining property. Concentrated, collected or diverted stormwater flow onto an adjoining property must be at a lawful point of discharge.

Section B3.2.3, clause 4 provides that a lawful point of discharge exists at a particular location, if:

i) the location of the discharge is under the lawful control of the Council or other statutory authority from whom permission to discharge has been received;

and

ii) in discharging in that location, the discharge will not cause an

actionable nuisance.

Further, the Byron Shire Council Comprehensive Guidelines for Stormwater Management referred to in (a) above provide that:

Legal Points of Discharge include (but are not limited to):

a. existing Council infrastructure such as kerb & gutter, open channel or stormwater pipeline
b. unformed road reserve
c. public stormwater infrastructure via private property in an existing stormwater easement
d. defined natural waterway controlled by the NSW Department of Natural Resources. [1]

In regards to discharge over private land, the council will require the developer to enter into a deed of agreement with that landholder and enter into any necessary drainage easements with that landholder. [2] E2018/21193

Lack of information and understanding of impacts of fill and resultant drainage on adjoining neighbours' properties and the industrial estate and town centre. The obvious increase in stormwater run-off due to sealed surfaces such as roofs, roads etc., that can not all be contained on the proponents lands. We are not in a financial position to offer a 'counterstudy' to show that significant filling of the proponents land would negatively impact our own, but simple logic dictates that a proposal of fill of such magnitude would have a significant effect on adjoining lands, not

10.2017.201.1

^[1] Northern Rivers Local Government, Handbook of Stormwater Drainage Design, cl 16(5).

Northern Rivers Local Government, Handbook of Stormwater Drainage Design, cl D5.20(4).

to mention displacement of groundwater.	
What will happen at Melaleuca drive South end, where development ends	10.2017.201.1
and fill height proposed is a minimum of 1.5m? How will that continue to	
OUR access road, the end of Melaleuca Drive? As there is no site wide	
plan we have no idea what is planned and we request that a solution is	
presented that shows that no additional water will enter our property and	
our access road.	
Buffer zones to protect surrounding areas are totally inadequate	10.2017.201.1
Stormwater configuration impacting on neighbours land (300 Ewingsdale	10.2017.201.1
Road)	
What will happen to Malaleuca Drive and all the neighboring properties,	10.2017.201.1
once all that land has been raised of 3 meters in height? Are we going to	
have a wall of soil, with Malaleuca drive 3 meters below on one side and a	
sound wall 4 meters high on the other side?	
This development will reduce the quality of life to neighbouring residents.	10.2017.201.1
DA is socially destructive	10.2017.201.1
Increase the buffer zones to protect the stillness and peace for my yoga	10.2017.201.1
and meditation classes to continue at the centre at Temple Byron from	
suburban noise and passing traffic.	
Widening the road into Byron would not be an option.	10.2017.201.1
The land along both sides of the road into Byron is mostly peat swamp.	
Therefore, it will require major works to widen this road, and the costs	
would be prohibitive. The new hospital is built very close to the road,	
leaving no room to widen it.	
We have been landowners in this area since 2000 and run a licensed B&B	10.2017.201.1
establishment as an Eco Retreat very much in tune with the environment.	
We own a > 20 hectare block of land in the South of the study area of	
which approximately 3 acres are part of the West Byron State Significant	
Site area and most of the remaining land is SEPP14 protected wetlands.	

10.2017.201.1
10.2017.201.1 & 10.2017.661.1

and needs to be protected.

We are the region that prides itself in nature's biodiversity and protection and restoration and this forms our character. The environmental connection the locals have with this beautiful area contributes to the character also. People come here for this character, for the nature and natural feel. It is this character that makes Byron so loved and visited — therefore fuelling our livelihoods. It is a spiritual home. We have a unique way of living and our life is enriched through the spiritual grounds of the area and also the strong sense of indigenous history, both past and present

So far Byron shire has not been turned into another gold coast type overdevelopment, Byron has retained its character as an alternative to the main stream.

Ecotourism Tourism Australia describes this region, Australia's Green Cauldron, as one of Australia's 16 <u>National Landscapes</u> - the southern hemisphere's largest extinct shield volcano. To quote from

http://www.greencauldrontours.com.au/ "From the beaches to the villages to the hinterland beyond, Australia's Green Cauldron is filled with special places and hidden gems." Artists, naturalists and industry creatives have been attracted to the remarkable natural environment of Byron Shire as a place to observe, study and celebrate the environmental diversity of the Shire. More recently over the past 60 odd years, the burgeoning surfing community and maritime enthusiasts have been attracted by Byron Bay's surfing beaches and marine life. Dolphin and whale watching has become a critical part of Byron Bay culture and economy over this period. A great many videos, books, poetry, songs and festivals have been created inspired by the topography and culture of the Byron Bay and it's surrounding region.

We as a community are also the custodians of one of the most beautiful places on earth! We are charged with the protection of our Aboriginal heritage and significant places, the majesty of the Cape Byron Marine Park and all the marine species that inhabit it and the biodiversity hot spots throughout the shire. We are blessed with clean water and incredible soils for food growing that has spurned innovative and planet conscious food growing and eco-businesses. We are a hub for artists and world renowned thinkers, writers, academics, health practitioners and entrepreneurs. We as a community are doing more and more every day to reduce our consumption footprint on a warming planet and we want to be able to set that tone for our visitors.

The community of Byron Shire has distinctive shared values and priorities, which include environmental protection, ecological sustainability and community support, resilience and creativity. It seems clear that this development, as currently proposed is not at all consistent with the sustainability of local ecology – either natural or social. The proposed development would change the flavour of Byron Bay, having a strong negative impact on its natural ecology, its distinctive 'feel', its functionality, its community frameworks, its natural beauty, and its economy.

Unchecked development is likely to put more stress and pressure on Byron Bay and leave impatient drivers with the all too familiar and depressing 'Queue up, Speed up, Stress out' experienced on the Gold Coast. Keep Byron Bay as the sign says entering into the town "chill out, slow down, relax". We have a wonderful community here in Byron and surrounds and this development will be negative for that community.

Any new residential development in Byron Bay should reflect what the

community has worked so hard for so long on: protecting biodiversity, encouraging alternative energy & water sources and housing design styles.

So far from expecting "The hippie haven of Byron Bay" (Destination NSW quote) visitors will be welcomed with a gridlock road surrounded by a massive suburb that bears no resemblance to what the town is promoted as or its "ethos". This not only damages the "international brand" that Byron Bay has developed over the decades but the credibility of Destination NSW and the tourism products it promotes in NSW

With this development Australia will loose a landmark. There are few places left on this planet as beautiful as Byron bay – its worth saving! Byron Bay is an iconic town and is famous worldwide.

The attraction of Byron has been not only the natural beauty of the coastline and hinterland but also its low key physical character and environmental focus. The 2006 to 2031 Far North Coast Regional Strategy was designed to ensure that "Coastal towns such as Byron Bay, known as a national and international tourism destination, will have retained their village character while still providing a gateway to many regional assets and attractions."

In 2017 the North Coast Regional Plan 2036 was released and clearly identifies "Byron Shire as one of Australia's most visited local government areas, with stunning beaches, beautiful hinterland and vibrant centres like Byron Bay" and that "Byron Shire is known for its natural beauty and character. Unique environmental features such as the Arakwal National Park and the Cape Byron Marine Park will continue to draw domestic and international tourists, contribute to attractive lifestyles and grow the local

economy	,	"
CCOHOIN	, .	

Our community is genuinely concerned that the development of the West Byron lands will ruin the key points of attraction for Byron Bay as an iconic destination.

There is a long history of protecting the core values of Byron Shire that have been recognised as the key factors that influence the desirability of Byron Bay as a tourism and lifestyle destination, this should not be undermined by approval of inappropriate West Byron developments at the entrance to Byron Bay.

As both the State and Federal governments have invested in the promotion of Byron to the world, it is reckless that the state government has allowed this development to get the point where the community lives with the fear of this mega development and how it will destroy their home.

Byron Bay is a popular tourist destination and adding traffic, polluted waterways, and a common suburb will damage its beauty and character affecting tourism. The character and the fabric of the town would be threatened by this project. Byron Bay's success is based on the towns naturally attractive and environmentally sensitive positioning in the market place. This is underlined by the stated 1.5 million plus visitors attracted to the Byron Bay annually. It is one of the last unique townships on the NSW coast. In the recent NSW Rural Residential Strategy it was noted that tourists are attracted to the Byron Shire for its "natural beauty". I object to any development that would destroy this natural beauty or compromise our very unique and precious environment. The natural beauty and environmental benefits the site brings contribute to our mental health.

10.2017.201.1 & 10.2017.661.1

	,
The approach after turning off the Highway onto Ewingsdale Rd is the	
main entrance to town. "At last I'm here, beautiful Byron" The lighthouse	
on the horizon the green fields on the right and left and gradually the	
approach to the town, the tall pine trees and the entrance to the town.	
The approach gives a sense that one is entering a coastal country town,	
with a human scale. Without doubt the brutally designed and	
unsympathetic imposition of a huge development on this land will	
negatively impact on the 'romance' of Byron Bay and ultimately destroy	
it's unique tourist identity.	
to a unique to uniterial transfer in the same trans	
Byron Shire is proud of its natural beauty and forward- thinking	
demographic, and this D.A. appears to be at odds with these local values.	
Byron Bay has a unique history and philosophy of life that people here	
wish to preserve.	
Unacceptable sprawl of suburbia, not keeping to the spirit and character	10.2017.201.1 & 10.2017.661.1
of this town. The development is out of scale with the character of Byron	10.2017.201.1 & 10.2017.001.1
·	
Bay and detrimental to the lifestyle of the Shire. The DA does not accord	
with alternative, well-designed, low impact on the environment homes	
that reflect the vibe of our town. Development is counteractive to the	
wellness of the community as a whole. There is no innovation or point of	
difference about this subdivision; the block size is small, so the visual	
impact will be a sea of roofs and ugly. The amount of green space among	
the houses is minimal; it is clearly laid out for maximum density on the	
site. The scope and design are totally out of character with the rest of	
Byron Bay and its surrounds. It would be held up within and outside this	
district as a town planning aberration and a cynical commercial	
exploitation of the careful work and care of past generations.	
The proposal will have detrimental impacts on both visitor experiences	10.2017.201.1 & 10.2017.661.1
and resident's who have made past decisions to invest in the character of	
Byron Bay.	

The plan to build a noise wall 4 - 6 meters high on the main road into town, is an insult to the style and beauty of this town. Ewingsdale Road is the principal entry to town and thus provides visitors with their first impression of Byron Bay. The current rural landscape is an important aspect of its tourism appeal. Fences are normally restricted to 1.2m. The acoustic wall will create a corridor effect which is against the natural, open character of Byron. The added issue of vast areas of fill along the Ewingsdale Rd boundary require the developer to set back the barrier so as to avoid creating a looming wall adjoining the road reserve. It appears from fill maps that there will be up to 3 metres of fill opposite the SAE College.

Clearly there needs to be a considerable set-back here for the barrier and considerable landscaped area to hide this 5-6 m. wall at this point.

A vegetated buffer to Ewingsdale Road is required to obscure the proposed massive and dense housing estates to help maintain Byron's tourism appeal. With increased congestion visitors will have ample opportunity to take in the view.

The acoustic report identifies that further consideration should be given to the cost effectiveness of the noise mitigation strategy, **community views**, **social implications**, **environmental effects and visual impact** of acoustic barriers given that the site is along the main entry roads in Byron Bay. Also, how will it affect water flow from the site?

Proposed buffer is not in line with the character of the area - Across from the development on Ewingsdale Road setbacks from the road reserve of 20-40m have been applied to both industrial and residential areas. These do help obscure development where densely planted, though need to be

10.2017.201.1

	,
expanded to effectively shield West Byron. The EPA recommended a 50m	
buffer to Ewingsdale Road to attenuate noise impacts on residents. A 50m	
buffer, on the developer's land, is supported.	
Firstly, the visual amenity of a berm of this height will be unsightly and an	
abomination and NOT what the main road into Byron Bay should look like.	
The Arts and Industrial Estate and SAE on the other side of the road show	
how good development can look – eg landscaping at ground level. Given	
that the landowners have plenty of land to develop upon, why would they	
need to encroach upon Council (being us) owned land? Let them use their	
own land. Keep Council's land free and open and spacious and treed and	
respectfully, generously set back from the Ewingsdale Road itself. Keep	
the road reserve as a reserve. If the development needs that much fill and	
a berm to hold it in then perhaps the development should not be	
considered in the form as we submitted. The berm will be higher than the	
town of Byron Bay itself.	
This development has nearly all 450 sqm lots; more dense than most of	10.2017.201.1
Byron. Some blocks will be only 200 or so square metres leading to	
overcrowding, noise issues and the development of a potential ghetto.	
Small lot development not in line with natural beauty and character of	
town. Mass housing estates with generic housing does not fit the	
character of Byron.	
The village components appear to be within Stage 2 and no detail is	
provided.	
Will the increase in people (no doubt a lot of investors?) encourage more	10.2017.201.1 & 10.2017.661.1
commercial franchises, less of the current healthy lifestyle kind of	
shopping and create a more Gold Coast style town?	
This site is the current Green Belt for the town	10.2017.201.1 & 10.2017.661.1

Economy of Byron	
The size of our economy is pressing on the earth's biophysical limits, and	10.2017.201.1 & 10.2017.661.1
continuing to grow the economy only makes it worse "Unsustainable	
growth cannot continue indefinitely" – Martin Parkinson (2011), former	
Treasury Secretary and now Secretary of Prime Minister & Cabinet.	
The latest <i>Destination Byron</i> statistics show that the Shire is currently	10.2017.201.1 & 10.2017.661.1
experiencing 2.1 million annual visitors per year, with the overwhelming	
proportion of that number visiting Byron Bay.	
The following highlighted statements come directly from Destination NSW	
and demonstrates that tourism in Byron Bay is not just important for the	
local economy but for the whole of NSW. It also confirms the domestic	
and international tourism market is attracted to Byron Bay with its unique	
qualities "Tourism is a significant part of the NSW economy. In 2014-15,	
tourism contributed \$37.1 billion (Tourism Consumption) to the NSW	
economy and employed 269,600 people	
"Tourism in regional NSW outperformed regional Australia and	
experienced growth in nights of 15.1 per cent, and expenditure grew 30.2	
per cent"	
"The international appeal of regional NSW destinations including Byron	
Bay on the North Coast have encouraged significant growth in	
international visitor numbers"	
Destination NSW website also states "It's pleasing to see the whole State	
benefit from regional NSW's thriving visitor economy"	
Destination NSW describes and promotes Byron Bay, our important	

regional tourism destination as follows.

"The hippie haven of <u>Byron Bay</u> has long been a popular summer holiday destination, with visitors enticed by its golden beaches, surf breaks and shopping. In more recent times its reputation as a foodie hub has also flourished. Whites Beach — One of the country's best kept secrets at Broken Head near Byron Bay offers a piece of secluded paradise with rocky cliffs, palm trees and pristine waters."

The proposed development in its scale and form contrasts the image that is promoted by the NSW Government and is the total opposite to what attracts tourism to the area. Tourism is a long term sustainable industry for the local area and while this proposed development may create a short-term boost for the local economy it will soon pass, but the damage caused will ultimately destroy a long term sustainable industry. Tourism is a long term sustainable industry for the local area and while this proposed development may create a short-term boost for the local economy it will soon pass, but the damage caused will ultimately destroy a long term sustainable industry.

Byron Bay is a booming tourist destination where the beaches and natural beauty attract international and Australia wide attention. To introduce the scale of development proposed by this DA would be a lost opportunity for Byron Bay and Byron Shire. If the Byron Shire is to continue inspire growth and economic development, it will need to reject lack cluster proposals such as this and promote creative and unique ideas for the future.

The traffic and deterrent from the character of Byron will kill the viability of the area. Tourists will stop coming. The long term affect on Byron as a

tourism destination worldwide would be placed under pressure due to congestion, loss of environment and the sewerage overload with an already under financed system. Development will deter tourism which is the main industry for our economy. The development will ruin the reputation of Byron. Potential Damage to "Brand" Byron - as illustrated by the successful 'Byron Naturally' campaign launched by the Byron Bay Chamber of Commerce. This development is the antithesis of what the brand is all about. most of our local businesses rely on tourist dollars to survive and thrive - increased traffic congestion, polluted waterways & a generic mega suburb at our entrance will damage our reputation as a unique holiday destination — hindering local business and economy.

There will be damage to local businesses with the loss of the tourism dollar as Byron Bay becomes another generic coastal town. A mega suburb at our entrance will damage our reputation as a unique holiday destination.

The Environment of Byron Bay holds <u>inherent value</u> but also economic value. The natural beauty of Byron Bay is another key attribute for tourism. I would like to see a detailed assessment of the impact on tourism on Byron Bay and how this will be mitigated.

Byron Bay is the economic Jewell in the Crown of Nth NSW. It is an unrivalled economic powerhouse drawing people from near and abroad. We should understand what is unique and working here and nurture that. It creates businesses that provide employment and ongoing investment for people throughout the region. It can be (and already is) a leader in developing sustainable and innovative businesses and products for the future. This development in no way enhances Byron's economic future except for a few landholders and property developers. It actually puts at

risk what is already working.

There is a very real risk that the development of the West Byron lands, and the proposed mega development applications by Local Landowners and Villa world, will severely impact upon the desirability of Byron Bay as a tourism destination. Tourism provides a significant value for the shire and region by attracting people and then dispersing them to the surrounding area. There is an estimated value of tourism to the Byron Shire of \$328m according to the *National Institute of Economic and Industry Research* (NIEIR) 2016. This represents the largest economic contributor to the shire and provides significant employment. The fragility of destination based tourism must be recognised and supported, not destroyed by inappropriate development such as West Byron.

Many tourists themselves have written in to object to the developments –

- "Over the past 30 years I have spent tens of thousands of dollars in the local Byron Bay economy. If this DA proceeds and the town's appeal is destroyed then I will not return- instead I will spend my holidays elsewhere, to the cost of the Byron local economy. I am sure there are many thousands of other vistors who would take similar action".
- "As a tourist I can say such megadevelopments are quite the opposite of what tourists want to enjoy at such a travel destination. Since Byron Bay is quite a tourist destination this development would do more harm than good."

Byron Bay's unique natural and cultural heritage belongs not just to the local residents, but to ALL of us citizens of NSW and Australia.

Quite a few shops have already closed due to lack of parking availability and introduction of paid parking which is deterring people wanting to

10.2017.201.1 & 10.2017.661.1

	<u></u>
have a meal and do some shopping. This is only going to be exacerbated if	
this DA is approved.	
The efficiency of service delivery for local trades people and business is	
becoming untenable at current traffic rates.	
If these developments were to go ahead the businesses in the Arts and	
Industrial Estate will suffer from more people not being prepared to take	
on the traffic, as locals are already beginning to drive to Ballina rather	
than sit in the traffic on Ewingsdale Road.	
Great and Great	
The proposed developments will in no way help the community to grow in	
a sustainable way. Focus on a local economy and less development.	
There is no management plan to cope with increased traffic in town,	10.2017.201.1 & 10.2017.661.1
causing delays in town and the detrimental effects likely to flow on to	
businesses in the town.	
Additionally, local builders most likely won't get picked first with these	10.2017.201.1 & 10.2017.661.1
mega development companies. They will be brought in from the cities.	
Tourists like me will choose to spend our money elsewhere as Byron will	10.2017.201.1 & 10.2017.661.1
no longer be enjoyable.	
Already some of the Byron appeal has been lost. We now attract more	10.2017.201.1
backpackers, schoolies and van people. The tourists who actually spend	
money in the town have been lost now attracted tourists who use our	
resources(water etc) and provide little money into the town in return.	
Vans in particular, free camp in streets, defecate on verges, leave rubbish	
behind and are abusive if you point out that red devil park has reasonable	
overnight fees. Often these tourists party till late and wake residents	
when they retreat to sleep in the early hours, slamming van doors loudly	
after relieving themselves nearby. They do not contribute to our town at	
all.	
un.	I

The cost to support increased unemployment, healthcare, and lost	10.2017.201.1 & 10.2017.661.1
vacation revenue will be a long term cost.	
Affordable Housing	
Need for more housing - We do not need such a number of new houses, all we need is prices to go down, or air bnb/holiday letting to be regulated and controlled. It is not fair that Sydney keeps promoting Byron without dealing with illegal holiday letting and not letting us charge a bed tax. 25% of the existing houses on census night were not occupied (i.e. they were used as holiday properties). If we have already met the required growth, it makes no sense what so ever to approve it the way it is. There has been a failure to look at other 'in-fill' options within Byron town. It will be the largest new urban area for Byron Bay for 40 years and we do not need new residential homes in Byron Bay — we need <i>affordable</i> and secure long term rentals and <i>affordable</i> homes to buy and we all know that the land values in the 2481 postcode will preclude this. With current Byron Bay land values even the smallest house build on the site will cost close to 1 Million dollars.	10.2017.201.1 & 10.2017.661.1
If holiday lettings were controlled there would be enough homes for everyone.	
There is no identified demand for a development of the scale proposed - up to 1,000 lots. There is no proven need for over 1000 new houses in the West Byron mega development for the Byron Bay area. The State Government Planning Department set a 25 year target of about 3500 new houses for the Shire from 2011-2036. Much of this target goal has already been built or approved. There are also many built and to be built secondary dwellings that are not even factored in making the housing objectives set for the Shire. These objectives are set by the State so as to	

prevent a situation of overbuilding resulting in too much supply and not enough demand. If Council and the State really assesses the current and forecasted new homes to be built, especially after the completion of the Byron Shire Residential Strategy, it will be clear that the 1000 new houses proposed for West Byron will likely not be needed. Developments won't be affordable — Where is the affordable housing in this development proposal? Development will not address the problem of affordable housing. Proposal that dwellings will be 'affordable' is unlikely considering the huge cost involved in the preparation of the land which the developer will no doubt try to get back through land sales. Terry Agnew the Owner, who has engaged Villaworld has said himself that houses on this site cannot be affordable due to the difficulty and complexity of the site adding cost to the project. The cost of insurance would be a good indicator of the likelihood of flooding. If obtainable it could be over \$100/week. This would probably push housing there out of the "affordable" bracket. Any development in this area would need to have a strict exclusion of holiday letting as this would work against any proposal to create affordable housing, further increase traffic movements, neighborhood noise and all the other problems that have been discussed at length in our community (and remain unsolved). The term 'affordable housing' needs to be locked into real dollar numbers. Or, a certain % of the homes need to be reserved for local/low income purchase/tenancy – like in Europe.		
forecasted new homes to be built, especially after the completion of the Byron Shire Residential Strategy, it will be clear that the 1000 new houses proposed for West Byron will likely not be needed. Developments won't be affordable – Where is the affordable housing in this development proposal? Development will not address the problem of affordable housing. Proposal that dwellings will be 'affordable' is unlikely considering the huge cost involved in the preparation of the land which the developer will no doubt try to get back through land sales. Terry Agnew the Owner, who has engaged Villaworld has said himself that houses on this site cannot be affordable due to the difficulty and complexity of the site adding cost to the project. The cost of insurance would be a good indicator of the likelihood of flooding. If obtainable it could be over \$100/week. This would probably push housing there out of the "affordable" bracket. Any development in this area would need to have a strict exclusion of holiday letting as this would work against any proposal to create affordable housing, further increase traffic movements, neighborhood noise and all the other problems that have been discussed at length in our community (and remain unsolved). The term 'affordable housing' needs to be locked into real dollar numbers. Or, a certain % of the homes need to be reserved for local/low	prevent a situation of overbuilding resulting in too much supply and not	
Byron Shire Residential Strategy, it will be clear that the 1000 new houses proposed for West Byron will likely not be needed. Developments won't be affordable – Where is the affordable housing in this development proposal? Development will not address the problem of affordable housing. Proposal that dwellings will be 'affordable' is unlikely considering the huge cost involved in the preparation of the land which the developer will no doubt try to get back through land sales. Terry Agnew the Owner, who has engaged Villaworld has said himself that houses on this site cannot be affordable due to the difficulty and complexity of the site adding cost to the project. The cost of insurance would be a good indicator of the likelihood of flooding. If obtainable it could be over \$100/week. This would probably push housing there out of the "affordable" bracket. Any development in this area would need to have a strict exclusion of holiday letting as this would work against any proposal to create affordable housing, further increase traffic movements, neighborhood noise and all the other problems that have been discussed at length in our community (and remain unsolved). The term 'affordable housing' needs to be locked into real dollar numbers. Or, a certain % of the homes need to be reserved for local/low	enough demand. If Council and the State really assesses the current and	
Developments won't be affordable – Where is the affordable housing in this development proposal? Development will not address the problem of affordable housing. Proposal that dwellings will be 'affordable' is unlikely considering the huge cost involved in the preparation of the land which the developer will no doubt try to get back through land sales. Terry Agnew the Owner, who has engaged Villaworld has said himself that houses on this site cannot be affordable due to the difficulty and complexity of the site adding cost to the project. The cost of insurance would be a good indicator of the likelihood of flooding. If obtainable it could be over \$100/week. This would probably push housing there out of the "affordable" bracket. Any development in this area would need to have a strict exclusion of holiday letting as this would work against any proposal to create affordable housing, further increase traffic movements, neighborhood noise and all the other problems that have been discussed at length in our community (and remain unsolved). The term 'affordable housing' needs to be locked into real dollar numbers. Or, a certain % of the homes need to be reserved for local/low	forecasted new homes to be built, especially after the completion of the	
Developments won't be affordable – Where is the affordable housing in this development proposal? Development will not address the problem of affordable housing. Proposal that dwellings will be 'affordable' is unlikely considering the huge cost involved in the preparation of the land which the developer will no doubt try to get back through land sales. Terry Agnew the Owner, who has engaged Villaworld has said himself that houses on this site cannot be affordable due to the difficulty and complexity of the site adding cost to the project. The cost of insurance would be a good indicator of the likelihood of flooding. If obtainable it could be over \$100/week. This would probably push housing there out of the "affordable" bracket. Any development in this area would need to have a strict exclusion of holiday letting as this would work against any proposal to create affordable housing, further increase traffic movements, neighborhood noise and all the other problems that have been discussed at length in our community (and remain unsolved). The term 'affordable housing' needs to be locked into real dollar numbers. Or, a certain % of the homes need to be reserved for local/low	Byron Shire Residential Strategy, it will be clear that the 1000 new houses	
this development proposal? Development will not address the problem of affordable housing. Proposal that dwellings will be 'affordable' is unlikely considering the huge cost involved in the preparation of the land which the developer will no doubt try to get back through land sales. Terry Agnew the Owner, who has engaged Villaworld has said himself that houses on this site cannot be affordable due to the difficulty and complexity of the site adding cost to the project. The cost of insurance would be a good indicator of the likelihood of flooding. If obtainable it could be over \$100/week. This would probably push housing there out of the "affordable" bracket. Any development in this area would need to have a strict exclusion of holiday letting as this would work against any proposal to create affordable housing, further increase traffic movements, neighborhood noise and all the other problems that have been discussed at length in our community (and remain unsolved). The term 'affordable housing' needs to be locked into real dollar numbers. Or, a certain % of the homes need to be reserved for local/low	proposed for West Byron will likely not be needed.	
affordable housing. Proposal that dwellings will be 'affordable' is unlikely considering the huge cost involved in the preparation of the land which the developer will no doubt try to get back through land sales. Terry Agnew the Owner, who has engaged Villaworld has said himself that houses on this site cannot be affordable due to the difficulty and complexity of the site adding cost to the project. The cost of insurance would be a good indicator of the likelihood of flooding. If obtainable it could be over \$100/week. This would probably push housing there out of the "affordable" bracket. Any development in this area would need to have a strict exclusion of holiday letting as this would work against any proposal to create affordable housing, further increase traffic movements, neighborhood noise and all the other problems that have been discussed at length in our community (and remain unsolved). The term 'affordable housing' needs to be locked into real dollar numbers. Or, a certain % of the homes need to be reserved for local/low	Developments won't be affordable – Where is the affordable housing in	10.2017.201.1 & 10.2017.661.1
Proposal that dwellings will be 'affordable' is unlikely considering the huge cost involved in the preparation of the land which the developer will no doubt try to get back through land sales. Terry Agnew the Owner, who has engaged Villaworld has said himself that houses on this site cannot be affordable due to the difficulty and complexity of the site adding cost to the project. The cost of insurance would be a good indicator of the likelihood of flooding. If obtainable it could be over \$100/week. This would probably push housing there out of the "affordable" bracket. Any development in this area would need to have a strict exclusion of holiday letting as this would work against any proposal to create affordable housing, further increase traffic movements, neighborhood noise and all the other problems that have been discussed at length in our community (and remain unsolved). The term 'affordable housing' needs to be locked into real dollar numbers. Or, a certain % of the homes need to be reserved for local/low	this development proposal? Development will not address the problem of	
huge cost involved in the preparation of the land which the developer will no doubt try to get back through land sales. Terry Agnew the Owner, who has engaged Villaworld has said himself that houses on this site cannot be affordable due to the difficulty and complexity of the site adding cost to the project. The cost of insurance would be a good indicator of the likelihood of flooding. If obtainable it could be over \$100/week. This would probably push housing there out of the "affordable" bracket. Any development in this area would need to have a strict exclusion of holiday letting as this would work against any proposal to create affordable housing, further increase traffic movements, neighborhood noise and all the other problems that have been discussed at length in our community (and remain unsolved). The term 'affordable housing' needs to be locked into real dollar numbers. Or, a certain % of the homes need to be reserved for local/low	affordable housing.	
huge cost involved in the preparation of the land which the developer will no doubt try to get back through land sales. Terry Agnew the Owner, who has engaged Villaworld has said himself that houses on this site cannot be affordable due to the difficulty and complexity of the site adding cost to the project. The cost of insurance would be a good indicator of the likelihood of flooding. If obtainable it could be over \$100/week. This would probably push housing there out of the "affordable" bracket. Any development in this area would need to have a strict exclusion of holiday letting as this would work against any proposal to create affordable housing, further increase traffic movements, neighborhood noise and all the other problems that have been discussed at length in our community (and remain unsolved). The term 'affordable housing' needs to be locked into real dollar numbers. Or, a certain % of the homes need to be reserved for local/low		
Terry Agnew the Owner, who has engaged Villaworld has said himself that houses on this site cannot be affordable due to the difficulty and complexity of the site adding cost to the project. The cost of insurance would be a good indicator of the likelihood of flooding. If obtainable it could be over \$100/week. This would probably push housing there out of the "affordable" bracket. Any development in this area would need to have a strict exclusion of holiday letting as this would work against any proposal to create affordable housing, further increase traffic movements, neighborhood noise and all the other problems that have been discussed at length in our community (and remain unsolved). The term 'affordable housing' needs to be locked into real dollar numbers. Or, a certain % of the homes need to be reserved for local/low	Proposal that dwellings will be 'affordable' is unlikely considering the	
Terry Agnew the Owner, who has engaged Villaworld has said himself that houses on this site cannot be affordable due to the difficulty and complexity of the site adding cost to the project. The cost of insurance would be a good indicator of the likelihood of flooding. If obtainable it could be over \$100/week. This would probably push housing there out of the "affordable" bracket. Any development in this area would need to have a strict exclusion of holiday letting as this would work against any proposal to create affordable housing, further increase traffic movements, neighborhood noise and all the other problems that have been discussed at length in our community (and remain unsolved). The term 'affordable housing' needs to be locked into real dollar numbers. Or, a certain % of the homes need to be reserved for local/low	huge cost involved in the preparation of the land which the developer will	
houses on this site cannot be affordable due to the difficulty and complexity of the site adding cost to the project. The cost of insurance would be a good indicator of the likelihood of flooding. If obtainable it could be over \$100/week. This would probably push housing there out of the "affordable" bracket. Any development in this area would need to have a strict exclusion of holiday letting as this would work against any proposal to create affordable housing, further increase traffic movements, neighborhood noise and all the other problems that have been discussed at length in our community (and remain unsolved). The term 'affordable housing' needs to be locked into real dollar numbers. Or, a certain % of the homes need to be reserved for local/low	no doubt try to get back through land sales.	
houses on this site cannot be affordable due to the difficulty and complexity of the site adding cost to the project. The cost of insurance would be a good indicator of the likelihood of flooding. If obtainable it could be over \$100/week. This would probably push housing there out of the "affordable" bracket. Any development in this area would need to have a strict exclusion of holiday letting as this would work against any proposal to create affordable housing, further increase traffic movements, neighborhood noise and all the other problems that have been discussed at length in our community (and remain unsolved). The term 'affordable housing' needs to be locked into real dollar numbers. Or, a certain % of the homes need to be reserved for local/low		
houses on this site cannot be affordable due to the difficulty and complexity of the site adding cost to the project. The cost of insurance would be a good indicator of the likelihood of flooding. If obtainable it could be over \$100/week. This would probably push housing there out of the "affordable" bracket. Any development in this area would need to have a strict exclusion of holiday letting as this would work against any proposal to create affordable housing, further increase traffic movements, neighborhood noise and all the other problems that have been discussed at length in our community (and remain unsolved). The term 'affordable housing' needs to be locked into real dollar numbers. Or, a certain % of the homes need to be reserved for local/low	Terry Agnew the Owner, who has engaged Villaworld has said himself that	
The cost of insurance would be a good indicator of the likelihood of flooding. If obtainable it could be over \$100/week. This would probably push housing there out of the "affordable" bracket. Any development in this area would need to have a strict exclusion of holiday letting as this would work against any proposal to create affordable housing, further increase traffic movements, neighborhood noise and all the other problems that have been discussed at length in our community (and remain unsolved). The term 'affordable housing' needs to be locked into real dollar numbers. Or, a certain % of the homes need to be reserved for local/low		
flooding. If obtainable it could be over \$100/week. This would probably push housing there out of the "affordable" bracket. Any development in this area would need to have a strict exclusion of holiday letting as this would work against any proposal to create affordable housing, further increase traffic movements, neighborhood noise and all the other problems that have been discussed at length in our community (and remain unsolved). The term 'affordable housing' needs to be locked into real dollar numbers. Or, a certain % of the homes need to be reserved for local/low	complexity of the site adding cost to the project.	
flooding. If obtainable it could be over \$100/week. This would probably push housing there out of the "affordable" bracket. Any development in this area would need to have a strict exclusion of holiday letting as this would work against any proposal to create affordable housing, further increase traffic movements, neighborhood noise and all the other problems that have been discussed at length in our community (and remain unsolved). The term 'affordable housing' needs to be locked into real dollar numbers. Or, a certain % of the homes need to be reserved for local/low		
push housing there out of the "affordable" bracket. Any development in this area would need to have a strict exclusion of holiday letting as this would work against any proposal to create affordable housing, further increase traffic movements, neighborhood noise and all the other problems that have been discussed at length in our community (and remain unsolved). The term 'affordable housing' needs to be locked into real dollar numbers. Or, a certain % of the homes need to be reserved for local/low	The cost of insurance would be a good indicator of the likelihood of	
Any development in this area would need to have a strict exclusion of holiday letting as this would work against any proposal to create affordable housing, further increase traffic movements, neighborhood noise and all the other problems that have been discussed at length in our community (and remain unsolved). The term 'affordable housing' needs to be locked into real dollar numbers. Or, a certain % of the homes need to be reserved for local/low	flooding. If obtainable it could be over \$100/week. This would probably	
holiday letting as this would work against any proposal to create affordable housing, further increase traffic movements, neighborhood noise and all the other problems that have been discussed at length in our community (and remain unsolved). The term 'affordable housing' needs to be locked into real dollar numbers. Or, a certain % of the homes need to be reserved for local/low	push housing there out of the "affordable" bracket.	
affordable housing, further increase traffic movements, neighborhood noise and all the other problems that have been discussed at length in our community (and remain unsolved). The term 'affordable housing' needs to be locked into real dollar numbers. Or, a certain % of the homes need to be reserved for local/low	Any development in this area would need to have a strict exclusion of	10.2017.201.1 & 10.2017.661.1
noise and all the other problems that have been discussed at length in our community (and remain unsolved). The term 'affordable housing' needs to be locked into real dollar numbers. Or, a certain % of the homes need to be reserved for local/low	holiday letting as this would work against any proposal to create	
noise and all the other problems that have been discussed at length in our community (and remain unsolved). The term 'affordable housing' needs to be locked into real dollar numbers. Or, a certain % of the homes need to be reserved for local/low	affordable housing, further increase traffic movements, neighborhood	
The term 'affordable housing' needs to be locked into real dollar numbers. Or, a certain % of the homes need to be reserved for local/low		
numbers. Or, a certain % of the homes need to be reserved for local/low	community (and remain unsolved).	
numbers. Or, a certain % of the homes need to be reserved for local/low		
· · · · · · · · · · · · · · · · · · ·	The term 'affordable housing' needs to be locked into real dollar	
income purchase/tenancy – like in Europe.	numbers. Or, a certain % of the homes need to be reserved for local/low	
	income purchase/tenancy – like in Europe.	

The Council should first negotiate with the relevant government bodies to together subsidise by an agreed sum the purchase of a number of residential lots for the purpose of social housing in a Housing Commission model.

(b) That Council and relevant Government bodies negotiate inclusion in the developer's plan the number of lots set aside from public sale to be purchased by the Government for the purpose of low cost Government subsidised housing.

Incorporation of Affordable Housing Principles listed under State Environmental Planning Policy No 70 – Affordable Housing (Revised Schemes) – Schedule 2. These principles are consistent with the aspirations of the NSW State Government and should be incorporated into the DA approval process, the final levels of affordable housing to be negotiated with the DA proponents to ensure the development is still commercially viable. The present percentages of medium density and duplex lots are very small relative to the entire development. This is NOT acceptable and must be amended to better reflect the need for affordable housing in both the Shire and the State. Incorporation of these principles into the DA would make Byron Shire the first non-urban scheme covered under the SEPP no. 70 and would be a strong endorsement of the State Government's commitment to Affordable Housing. AND

Acceptance of the amended DA (see above) should coincide with adoption of a strong policy of curtailment and legal enforcement against illegal holiday letting in the Shire. This should be targeted at least to the level proposed by the BSC to the State Government in their recent submission, but ideally providing a stronger requirement that all accommodation included in holiday letting be in council approved buildings with appropriate safeguards for use by members of the public.

10.2017.201.1 & 10.2017.661.1

Services/Infrastructure and Social Impact	
Funding for the infrastructure required is non-specific and spread over	10.2017.201.1 & 10.2017.661.1
twenty years.	
Current infrastructure is limited in coping with the millions of tourists	10.2017.201.1 & 10.2017.661.1
visiting each year. There will be a loss of Ambience. The centre of Byron	
Bay is already too small for the current numbers trying to use it and these	
numbers of new residents will irretrievably affect accessibility and	
usefulness of the town. Increasing the population of Byron Bay by up to	
3000+ residents over time without first improving infrastructure, schools,	
parking, roads, the Butler St bypass and amenities is folly. Each rental	
property has 5-6 people living in it, so 1000 more homes could	
accommodate for 6000 additional people. The degree of population	
increase (estimated at 25%) is too high for current infrastructure, social	
services and social wellbeing.	
The following services have been mentioned as insufficient to handle the	
increase in population from these developments:	
-schools	
-parking in town	
-parking in National Park Locations	
-parking at beaches	
-restaurants	
-water	
-sewerage (Which is in crisis)	
-electricity	
-telecommunications	
-internet connectivity & broadband speeds	
-beaches, especially Belongil beach	
-the hospital	

- -the roads
- -waste system and rubbish tips
- -social services
- -aged care facilities
- -community facilities
- -banks
- -postal services
- -recreation
- -employment
- -space in the surf
- -public toilets and beach showers
- -dog beaches
- -parks and public spaces
- -cash in ATMS (this has run out before)
- -police/security
- -emergency services
- -compliance

The Byron Shire has an above average percentage of **unemployed**, underemployed and residents which live on below average levels of income which makes them particularly sensitive to crises such as flooding. Not having employment potential for these thousands of new residents would be a disaster as it would make it even more difficult for new and long term residents to find a job, and put even more people in the ranks of the unemployed and receiving the dole.

Byron's **schools** are already full and refusing locals— where will children go? Without a commitment to additional school resources (teachers, space, perhaps new schools) it is difficult to view this proposed DA as anything but detrimental to the educational opportunity of current and

future children of the area.

Byron Central Hospital is already a busy emergency department with limited staffing and resources. A 15-25% increase in population would be catastrophic and stretch our already maxed out ability service the community. This development will result in poorer health for the community. Community Nurses' duties are already under strain due to wasted time they have to spend waiting in traffic queues. NSW health will not provide funding for more community nurses which means we will not be in a position to service the community. The efficiency of service delivery for local trades people and business is becoming untenable at current traffic rates. As the community nurse covering the Byron town and the west of the shire I am forced to manage my patients as determined by traffic conditions with the current traffic situation. During peak times I take the very poorly maintained back roads in order to facilitate an efficient service. These roads are narrow and unsealed and are themselves busy during severe traffic congestion times, raising once again the issue of decreased safety with the rise in traffic movements. Our local central hospital already experiences difficulty maintaining smooth operation as demand has exceeded expectations since it opened 2 years ago. An extra 1000 residences developed in such a short time can be expected to place this facility under strain and increase the risk of poor performance.

There is already a 1-6 week wait to book in to see a **GP**, this sends us to the Emergency Department.

How will the garbage and recycling collection be affected?

Lack of sufficient information regarding services such as water (water use

and storage) and **energy**—there is a clear necessity to move toward renewables and this is not addressed by the DA. Byron itself has regularly had water restrictions. If you dramatically increase the population then this will exacerbate the problem. In fact, currently van drivers queue up and wash with soap at the beach showers. These should be coin operated as the visitors have little care that we regularly have water restrictions.

Parking is already a well researched problem in Byron Bay and can only expect to increase in difficulty with the new development. This is not only an issue for residents of the town but will also impact on businesses / local economy. It has become almost impossible for locals to enjoy community leisure areas due to the difficulty of finding any car space within the town precincts and extending to the more out of town beaches. The level of frustration already witnessed in travel through town raises concerns around safety with the pending increase in traffic that will be generated from the proposed West Byron Development.

Families in all their rainbow iterations in our shire rely more and more on free **public spaces** to recreate; which they share with over 2 million tourists. This is due to the high cost of rent/mortgage and the low cost of income – residents can't afford the extra-curricula services already.

Increased Beach Users People who will reside in this urban development will want to access the beach. Unless people go into the main beaches of Byron, (highly unlikely due to traffic congestion) they will utilise the Belongil beach.

Increased non-compliance -as always, with an increase in human numbers there will be a related increase of non-compliances. Despite the

adequate signage, compliance officers, media and education, dogs' off-leashes are already a large and increasing problem at all Shire's beaches. There should be a restriction on dog and cat ownership on this development.

Any developments that decrease the resilience of the Shire and its infrastructure will almost certainly create an increase on emergency assistance and social services, including financial aid, required in the future.

For years we have been told that more dwellings equals more rate payers better council services, this has not happened, in fact the opposite for some one living in the shire hinterland our services are diminished.

DA there is not enough consideration/planning for the social and community infrastructure required for a residential development of this size. A development of this size requires the provision of social and community infrastructure needs commensurate with the development potential allowed by the zoning: a village of 3000 people. This requires schools, childcare, youth activities centre, post office, police station, medical centre, seniors housing, halls, community centre, recreation facilities, adequate and useable open space. Towns in our shire with far smaller populations than what is proposed at West Byron have far more community/social infrastructure than is proposed here. At the 2011 Australian Bureau of Statistics census of population and housing the town of Mullumbimby in Byron Shire had an estimated resident population of 3,172 persons. It is described as a town, not a village and not a suburb and it is a smaller population than potentially West Byron is. Even when the village of Bangalow was 822 people in 1982 it had a police station, fire station, hospital, community health, primary school, Masonic

hall, Catholic Church, Uniting Church, sports fields, A&I Hall, showground (where the markets are held and the Bangalow show is held), three banks, post office, parks and newsagency. It will lead to an increase of existing high levels of public disorder. There is already aggression on the roads and in the water and backpackers sleeping in cars and local streets, leaving too much rubbish behind. There are no plans afoot to indicate that required additional infrastructures will be provided. There is an obvious risk of destroying the amenity and functionality of the town. Byron Shire Council has a legal and moral responsibility not to approve new developments in Byron Bay because allowing the development to go ahead would add more people to the already dangerous beach and surf environment. This is a legal duty of care issue because It is publically and nationally well known that the surf in Byron Bay is already over-crowded and dangerous. If Byron Shire council or the NSW State Government approve the apposed DAs, knowing full well that increased population will increase the risk to life in the surf, then they will be liable under the laws of negligence when injuries or deaths occur in the surf in Byron Bay. A longer time period for development, to allow infrastructure to keep pace with population growth, as outlined in the Council's 20 year development plan, is far more realistic approach. Byron Bay is already too crowded. 10.2017.201.1 & 10.2017.661.1 According to ABS Byron has an annual growth of 1% - this development is unwarranted and oversized. How will Council deal with influx of an increase of 24% of the population?

The impact of folding so many new residents into this area will dramatically change the social fabric of the beach side town (more party goers, more people on the beaches and in the pubs, more alcohol fuelled violence in the streets at night and more drugs coming in (Byron already has a problem with Ice)- a second Gold Coast vibe on its way for sure also more kids going to schools which facilities are already stretched, more hospital care which currently has no surgical theatre, more house hold rubbish to dump where, more demands social services - most likely in the drug and alcohol area, then eventually more Aged Care facilities -Byron Bay town will be even more crowded). Its size and density is abhorrent to the current liveability within Byron Bay and will destroy the natural balance the town has been trying to retain for decades. I fear crime and social problems will increase significantly and the precious daily joys of living here in the rainbow region will diminish. We have a lot of homeless people / ice problems etc. to deal with - we really don't need this massive intrusion into an already somewhat socially fragile and at times quite challenging situation. Roads have not been updated in 37 years yet three huge developments have been approved in the last 30 years. This will be by far the largest development that the Shire has had. With more people living in the swamp, the impact of water sport in our 10.2017.201.1 & 10.2017.661.1 fragile Belongil lagoon has not been considered. The development will have negative effects on me and my children recreational health with destruction of the Belongil creek and ability for

water recreation activities. The Byron Bay Scouts use the Belongil Creek

and area.	
Aesthetics	
Development proposal does not fit with local aesthetics.	10.2017.201.1 & 10.2017.661.1
There is an enchanting natural thread of visual beauty and magnificent natural impact running through the presence of Byron Bay and this is an essential part of the town's make up and very presence – this represents a common thread through the shire that would be disrupted by this development.	
Sound Wall - Instead of providing the "Great Wall of Byron" along Ewingsdale Road there should be a buffer zone, bird feeding native trees, same as provided along the Industrial Estate a 13 mt wide mound on the developers land not on public road reserve. Much more economical to build and maintain over time i.e. no graffiti to remove constantly.	10.2017.201.1 & 10.2017.661.1
This is a country town with a rural landscape lets keep it that way while blocking out the housing estate hence blocking out the view of traffic for the home owners.	
This wall will be the first sight for people entering Byron and is not in accordance with the character and aesthetics of the town and Shire. This will deter tourists.	
Any development should reflect the unique aesthetics of Byron Bay that make this town so popular. The housing arrangements are very conventional but not in keeping with the existing Byron Shire suburbs.	10.2017.201.1 & 10.2017.661.1
Many of the more vibrant aspects of the local economy are strongly associated with, and reliant upon the town's natural beauty and these developments will destroy this.	10.2017.201.1 & 10.2017.661.1
Heritage	

This development will be a threat to the heritage and amenity. Byron has	10.2017.201.1 & 10.2017.661.1
long been perceived as being in step with preserving sensitive natural	10.2017.201.1 & 10.2017.001.1
heritage.	
The Byron Shire and its Bay have a rich Australian history and its history	10.2017.201.1 & 10.2017.661.1
and significance in time if it is preserved to continue to develop as an	10.2017.201.1 & 10.2017.001.1
environmentally secure world reserve and destination.	
	10.2017.201.1 & 10.2017.661.1
Byron Council's long history of protecting the environment and	10.2017.201.1 & 10.2017.661.1
undertaking detailed and principled strategic planning for the future	
growth of the shire has created an iconic residential and tourism	
destination hallmarked by ecologically sustainable development.	
Byron Bay is a historical site that should be preserved with the highest	
integrity.	
Cultural – has the development consulted with the Arakwal association?	10.2017.201.1 & 10.2017.661.1
It is an important part of Country to the Bundjalung of Byron Bay	
(Arakwal) people and is subject to an Indigenous Land Use Agreement	
(ILUA), signed in 2008, which more than doubled the size of Cumbebin	
Swamp Nature Reserve from its original 40 hectares. Cumbebin Swamp	
Nature Reserve also conserves wetlands of state significance, sensitive	
coastal dunes, coastal swamp forests and riparian areas.	
The Arakwal Corporation are not in support of this application.	
We also value the traditional owners of the land, their custodianship of	
the environment, and the way in which so much of the area has been	
preserved by those who have lived in the area before us for al of us to	
enjoy today and tomorrow.	
I have great respect for the Arakwal people's custodianship of the place	
many of us now call home. None of them support this development. At	
every West Byron community meeting I have attended, our local Arakwal	

spokesperson, Delta Kay, has spoken passionately about these values. It is time they were given the highest consideration.	
The baseline study that has been undertaken that shows the health of the Belongil Creek so as to assess what the impact would be of this proposed development is contained within the Plan of Management Cumbebin Swamp Nature Reserve February 2012. This Plan states that this reserve was established in 1999 to protect a significant component of the Belongil-Cumbebin wetland. It is an important part of Country to the Bundjalung of Byron Bay (Arakwal) people and is subject to an Indigenous Land Use Agreement (ILUA), signed in 2008, which more than doubled the size of Cumbebin Swamp Nature Reserve from its original 40 hectares. Cumbebin Swamp Nature Reserve also conserves wetlands of state significance, sensitive coastal dunes, coastal swamp forests and riparian areas. It contains three endangered ecological communities, which provide habitat for a wide range of native animals including threatened species. Sections of Belongil Creek and its tributaries are within the reserve.	10.2017.201.1 & 10.2017.661.1
Fill and Construction	
Sourcing of the necessary fill - is concerning. There is a lack of information regarding the fill, where it will come from and how it will get to the site. The engineering report indicates that a total of 168,800m3 of fill material will need to be imported to the site for the Stage 1 development (no indication is given for total fill amount for overall Concept Plan). There is no indication of the volumes of fill required for the whole site and the consequences of other fill works occurring concurrently.	10.2017.201.1 & 10.2017.661.1
There are significant areas missing from the fill map so the volume may be intended to be higher.	

It is intended to import some 500,000 m3 of fill estimated to weigh around one million tonnes. Extra volumes will be required when the industrial area is developed. **The State Significant Site approval was obtained based on half the amount of fill.**

Da proposes: Fill material will be imported to the site from local quarries. The imported fill volume is calculated to be 168,800 cubic meters to raise the pad height to RL 3.6m (this is just for stage 1). The DA also states they have no idea of the permeability of the imported fill to be used on site. This seems to indicate that they actually do not know what fill they will be using.

The only two operating quarries in Byron Shire are: Leela Quarry and Palmwoods Quarry. Neither of these two quarries are likely to be able to source the required amount of fill required for Harvest Estate and as they are both Chert quarries producing road base they would usually not be the best sort of fill used for simple land fill.

The only remaining identified quarry resources that are protected in Byron Shire under S117 are: Wiltons Pit, Skinners Shoot and the Abandoned Railway Quarry

None of these remaining three potential quarry sites have completed Environmental Impact Assessments or Review of Environmental Factors. No existing use rights exist on these three sites as no Development Applications were lodged under SEPP 37. If any of these three sites are intended for use as fill material for Harvest Estate then they will need to complete Development Applications and as designated developments they will also need to complete an Environmental Impact Assessment. The Abandoned railway quarry is a hard stone basalt quarry

so is not usually suitable for fill. The remaining two sites: Wiltons Pit and Skinners Shoot are the only two real possibilities for locally sourced fill in Byron Shire. As potential sand resources they are the best type of fill as it is free draining. The Department of industry estimated the resources of Wiltons Pit at 60,000 tonnes and Skinners Shoot at 900,000 tonnes.

If the fill is sourced from Ballina or Tweed Shires then it is not locally sourced fill and the Statement of Environmental Effects should be modified accordingly to state that fill will be sourced regionally.

Before Byron Council approves this DA the proponent should be clear about which quarries they will be sourcing their fill from. This will have a big impact on the community as hundreds of dump trucks will be using either Left Bank Road, Main Arm Road, Myocum Road, Tandys Lane or Skinners Shoot Road and then Shirley Street. The local community should be consulted about any such increase in heavy vehicle movements on small rural and urban roads.

Alternatively if the Harvest proponents intend to source sand fill from Skinners Shoot and bring it through the back of their property they will be passing directly through the protected E2 zone which needs to be prohibited right from the beginning.

Traffic impact - Very strict conditions need to be imposed on the transport of fill to the site. Transport should only be via the Pacific Highway and then Ewingsdale Road. It should be prohibited to be transported along Skinners Shoot Road and Johnson Street. It should also be prohibited from being transported along Myocum Road, Left Bank Road, Main Arm Road or Tandys Lane without a full traffic assessment and environmental impact assessment being carried out for any of these routes that are proposed to be used. Any damage to these rural roads

10.2017.201.1 & 10.2017.661.1

will have to be paid for by the Byron Council and as a consequence will be paid for by the community.

The amount of fill alone would in any other location require the construction company to provide an alternative access road to and from the major highway to minimise the traffic impact and degradation of the current road infrastructure. Has anyone really thought about what impact a loaded 20 Tonne bulk semi-trailer EVERY 5 MINUTES for 10 hours / day, 6 days / week for 18 months is going to have on the road surface, traffic conditions and the risk to public safety? Byron's road surfaces are already some of the worst in the country and to put this extra pressure on them is outrageous. Statistically alone, there will be an increase in accidents causing damage to property and injuries to residents and tourists just from the increase in traffic. Has anyone thought about what would happen if the site was temporarily closed for just 2 hours simply due to a safety or environmental concern? That would mean that 22 full semi trailers would build up along Ewingsdale road, likely pulled over on the shoulder causing even more safety issues and damage to the road!

Lack of information regarding the number of trucks, haul routes and other potential impacts of bringing that quantity of fill to the site. Estimates show 16,900 trips (33,800 truck movements along Ewingsdale Road) would be needed just to bring the required fill of 168,800m3 of fill — although estimates from various submissions differ.

Estimate example: For a fleet of 10 trucks, If each truck were able to make 3 deliveries per day (depending on where the earth to be used is coming from) it would take 1,280 days (or 3.5 years!) to move the earth into place.

Estimate example: To provide the fill necessary - 18 months (72 weeks) by 20 trucks and dogs a day, by 6 days a week is 93,600 truck-fulls. But that figure does not say how many truck trips per day. If you assume that the site where they're picking up the fill is within half an hour's distance of the site, it works out it somewhere between 300,000 and 500,000 trips. But since the trips, to and from, the total number of trips will be somewhere between 600,000 and 1 million trips. And that is possible, because if they had two drop-off sites on West Byron land and the contractors allow three and a half minutes per drop-off, it can be done. The fudge factor between the two quotes is by taking into allowance bad weather interruptions and holidays, which is round about 20% in Byron Shire.

The interruptions to traffic flow in Ewingsdale Road, are obvious. Ratepayers will be asking themselves: Given that it very heavy vehicles, like a fully loaded truck and dog, not light cars that make Byron Shire's roads the pothole capital of Australia, why should ratepayers have to pay for road damage the project will create? Is this also a question for the consent authority, the JRPP? will Byron's famous roads be able to bear the load and the congestion?

Damage to the roads from fill period - I believe pavement damage is proportional to the fourth power of the axle weight. Now 7 (tonnes) to the power 4 times 7 (axles) times 25000 (movements) equals 420,175,000. Add to this a conservative estimate of 60,000,000 for the unladen return trip and the total is about 480 million. For an average 2 tonne car the damage is 1 (tonne) to the power 4 times 2 (axles) which equals 2. This means that the damage to Ewingsdale Road by these 25,000 round trips is equivalent to 240 million times the damage from one trip by the average 2 tonne car. Ratepayers of Byron Shire should not have to pay for this damage. It is not part of the normal commerce of the

community but a one off profit driven enterprise.	
Pollution - from the massive amount of fill required to raise the land	10.2017.201.1 & 10.2017.661.1
above flood height that will exacerbate run off. Placing hard surfaces on	
the wetland will decrease the capacity of the land to absorb water which	
has to find a way to drain, eventually into the Belongil. Apart from the	
erosion from fill, the stormwater drainage from all of the hard surfaces,	
including roads and pavements, oil runoff from the roads driveways etc.	
will contain chemical pollution, weeds and solid waste, garden fertilisers etc.	
etc.	
The quality of the fill is of particular concern as the potential of it to go	
into the Belongil – particularly at the building phase – is a genuine	
concern. This is a site that drains to Belongil Creek and Estuary which is a	
Special Purpose Zone of the Cape Byron Marine Park and an important	
fish breeding and bird roosting area that cannot be allowed to be	
contaminated.	
Council would be left in a position of litigation if in the future fill was found to be contaminated.	
Illegal extraction - As Wiltons Pit was illegally quarried in 2016 and early	10.2017.201.1 & 10.2017.661.1
	10.2017.201.1 & 10.2017.001.1
2017 with fill stockpiled next to Wards landscaping on Myocum road the	
Council should impose a condition that this illegally sourced fill may not	
be used on Harvest Estate. Council was provided with significant evidence	
that the sand fill extracted from Wiltons Pit was extracted illegally without	
approvals. Even the NSW EPA contacted the Council to inquire about this	
activity. Yet Council has refused to take any action regarding this illegal	
quarrying activity or the illegal sand stockpiling taking place at	
Myocum. The community has no confidence that the Byron Council will	
stop illegal quarrying activities taking place to generate the fill for harvest	

estate so the source of the fill that will be used needs to be clearly articulated in the Development Application	
As per Byron Shire Council recommendations: The filling of developable areas is not necessarily preferred in all instances. Not filling and the developing of buildings on poles/stumps/posts is a better solution because it is adaptable in the face of future possible climate change risks. Not filling also maintains the available flood storage areas which will become more and more important under climate change. Areas which are not currently flood prone don't need to be filled, houses can be built on stumps and elevated above possible flood planning levels.	10.2017.201.1 & 10.2017.661.1
Filling of the site will result in significant changes to site hydrology and impact on a variety of habitat including habitat for threatened species such as wallum froglets. Filling of the site will result in loss of specialised habitat for wallum froglet which are notoriously difficult to replicate. Considering that the development of the site will result in a significant increase in stormwater runoff, the suggested improvement in water quality flowing to Belongil Creek cannot be assured as a result of the proposed environmental rehabilitation of the central drain.	
Other Impacts - The amount of fill is of serious concern, because of the impacts that raising the level in one area will have on drainage to adjacent areas – has the off-site impacts been determined?	10.2017.201.1 & 10.2017.661.1
With the expected rise in sea levels and increase of extreme weather events we are experiencing I believe this a most concerning issue. I would suggest that scientifically it has not been demonstrated that such an amount of landfill would not affect the total areas of the wetlands that surround the town of Byron Bay to the effect of causing major and damaging flooding in the future.	

Lack of information and understanding of impacts of fill and resultant drainage on adjoining neighbours' properties, the service on Ewingsdale Road and on the road pavement.	
The up-to-3m fill will have a major impact on ground water levels and therefore the drainage system. In developing the sports fields along	
Ewingsdale Road, known as Cavanbah Centre, the fill amount was limited	
to 30cm for hydraulic and environmental reasons. The same should apply	
for this development and/or development limited to naturally raised land	
which requires no or little imported fill.	
Amount of Fill - The West Byron area is surrounded by tidal waters as the	10.2017.201.1 & 10.2017.661.1
Union drain is tidal to Ewingsdale road. Spring tides now are over 2.0m.	
Add 0.9m sea level rise, 1.0m storm surge, a 5m swell (typical for strong	
gales), 300mm rainfall and 3.6m which is the proposed level of fill doesn't	
seem enough.	
Construction - Where will the waste from the construction go?	10.2017.201.1 & 10.2017.661.1
Lack of Consistency with Other Policy	
Byron Bay DCP 2010 -	10.2017.201.1 & 10.2017.661.1
Chapter 1 Part B	
D 01: D00004	10 2017 201 1 0 10 2017 661 1
Byron Shire DCP 2014-	10.2017.201.1 & 10.2017.661.1
Chapter 1 Part K clearly states that 'Development must not	
increase the level of flooding on other land in the vicinity. The	
huge extent to which fill is proposed with most certainly increase	
the level of flooding on our land. It is also stated in K2.2 that	
'Council will not support filling beneath the building footprint of	
Council will not support mining serieuth the sunding rootprint of	

the proposed development unless it can be demonstrated it will not impact on the floodplain'. The proponents have not been able to demonstrate that the proposed filling will not impact on the floodplain. We are currently investigating how council and/or the NSW Department of Planning can be held responsible if the proposed development should go ahead and our property is to be impacted by flooding events in the future. (*DA Part 8 (Document Plans 2) Page 43 -*)

Chapter E8.- West Byron

- It is not acceptable that Villa World can submit this DA without the DCP West Byron first being prepared
- Preliminary and Temporary DCP for West Byron Urban release
 Area as part of Planning proposal 2010
- DCP West Byron Draft 2013
- stated in the Preamble at Page 9:- The proposal strives to maximise the positive aspects, and minimise the negative impacts, of urban development. This is reflected in the desired future character statement and in the various development control elements in this DCP, and in the various mitigation and compensatory habitat measures which will yield net ecological gains in West Byron.
- Chapter E8, particularly, E8.10.5.1 requires the preparation of a Koala Plan of Management (KPoM) and for 50m buffers around core Koala habitat
- The West Byron DCP asserts that the development would be "a vibrant mixed use village centre to provide a community meeting place and to provide retail and commercial opportunities." Stage 1 of this development does not meet that aspiration – the housing

- arrangements are very conventional yet different from the existing Byron Shire suburbs. This development has nearly all 450 sqm lots; more dense than most of Byron. The village components appear to be within Stage 2 and no detail is provided.
- The DA fails to adequately address the design principles as outlined within the approved Byron Development Control Plan 2014 Chapter 8 West Byron Urban Release Area including all matters included in E8.10.
- The West Byron DCP asserts that the development would be "a vibrant mixed use village centre to provide a community meeting place and to provide retail and commercial opportunities." Stage 1 of this development does not meet that aspiration the housing arrangements are very conventional yet different from the existing Byron Shire suburbs. This development has nearly all 450 sqm lots; more dense than most of Byron. The village components appear to be within Stage 2 and no detail is provided.
- The DA fails to adequately address the design principles as outlined within the approved Byron Development Control Plan 2014 Chapter 8 West Byron Urban Release Area including all matters included in E8.10.
- E8.10.3 requirements relating to street layout by not allowing space for incorporation of swales into road verges, and in the proposed medium density lots by not allowing space for nose in parking, and in places any rear access or street parking at all.
- E8.10.4 Storm Water Management there is no DA submitted for the Industrial Zone as required rather 2-3 lots (depending on which map) are proposed with only an indicative outline of what could go on the sites one of the lots intrudes into a coastal

wetland!!!

- E8.10.5.1 requires the preparation of a Koala Plan of
 Management (KPoM) and for 50m buffers around core Koala
 habitat. The 20m buffers have not been outlined in a number of
 areas and relevant management plans not prepared. This DA
 ignores requirements for 50m buffers around core koala habitat –
 201.1.
- E8.10.10.4 There has clearly been no single DA submitted for the Industrial Zone as required. Instead the industrial lots are only vaguely indicated with an outline of what could go on the sites. This clearly does not satisfy planning requirements and should be refused. Particularly as one of the lots intrudes into a Coastal Wetland. This is in contravention of the State Environmental Planning Policy, (SEPP 14). The Industrial Zone needs a single DA for the entire area rather than the current proposal of 2-3 lots. This is the requirement of DCP E8.10.10.4. There should be a clear indication of what is to go on this site. One of the lots encroaches on a Coastal Wetland and therefore it should be removed from this sensitive area.
- It is not acceptable that Villa World can submit this DA without the DCP West Byron first being prepared
- Preliminary and Temporary DCP for West Byron Urban release
 Area as part of Planning proposal 2010 should be considered
- DCP West Byron Draft 2013 should be considered

Byron LEP 1988 -

- Aim: to promote sustainable development in Byron
- 98B, 3(f): The DA fails to identify the quality and source of the fillin contravention of Local Environmental Plan (LEP) 1988, 98B

10.2017.201.1 & 10.2017.661.1

Earthworks 3(f).

- The fill works will irreparably change these modified wetlands which now act as a great sponge for the rain waters of the rest of Byron. This breaches the 1988 LEP which applies to this DA. The panel cannot be satisfied, in the words of the LEP that this development would not "restrict the flow characteristics of floodwaters" or the development would not "increase the level of flooding of other lands in the vicinity".
- Part 3, Division 5, clause 45 "Provision of services" "(1) The Council shall not consent to the carrying out of development on any land to which this plan applies unless it is satisfied that prior adequate arrangements have been made for the provision of sewerage, drainage and water services to the land."
- (1b ix) The type, bulk, scale and size of development as currently proposed is totally inappropriate for the location.
- 88(3) Mitigation measures such as swales and rainwater tanks are not evidence in the planning
- Part 4
- This DA (201.1) is proposing subdivision into lots smaller than allowed for by LEP 1988 Division 2 (81) in the R2 zone, with 4 duplex lots less than 600m2. This is in contravention of the Byron Bay Shire Council's LEP requirements.
- This development contravenes the requirements of LEP 1988 Division 2 (81) in the R2 zone. This DA is proposing medium density residences and possible high-density development in unspecified "Super lots". It is proposing this development in a Low Density R2 area, which is non-compliant with the LEP. The DA is proposing 4 duplex lots less than 600m2 and this must not be allowed to proceed. The lot sizes and proposed development within the "Super lots" in the DA must also be specified before this

- current DA can be approved.
- Intrusion into the Environmental zones for the bicycle track, footpaths, fill batters and an unexplained clearing would appear to be prohibited and contrary to the allowable uses specified in the LEP (78 and 79).
- It is considered that the impacts of stormwater intrusions into E2 and E3 zones have not been appropriately identified and justified in accordance with the LEP (98A(3)(a)).
- Some of the lot sizes in the R2 zone are smaller than allowed by LEP 1988 Division 2(81). There is not enough parking spaces in the proposed medium density lots. The plans showing lots should be redrawn.

Byron LEP 2014 -

- R2 Zone: The plans are for medium density (in a low density zone). The density proposed is against the LEP.
- Building Height: proposal of three storey and 13.6 metres high. The height limit in the Byron LEP is 9m.
- All Aims 1.2
- Aims: 1.2 (2)(a)(i)" Precautionary Principle..." i.e. Infrastructure is to be restored and not destroyed
- Aims: 1.2 (2)(a)(ii) the principle of intergenerational equity—this principle means that the present generation must ensure that the health, integrity, ecological diversity, and productivity of the environment is at least maintained or preferably enhanced for the benefit of future generations. I.e. If the tourism industry of Byron Bay is reduced due to these DA's, unemployment would increase & lead to social & economic disadvantages.
- Aims: 1.2(2)(a)(v) the principle of eliminating or reducing to harmless levels any discharge into the air, water or land of substances or other effects arising from human activities that are

10.2017.201.1 & 10.2017.661.1

likely to cause harm to the environment, Aims: 1.2 (2)(i) to protect, manage and restore the natural environment and biodiversity of Byron There are many intrusions into the native habitat that represent breaches of the LEP (78 and & (E8.10.5.1) DCP's (DCP 8.10.5.1) requirements to protect the values of the Ezones has not been observed. As outlined in the Council's 20 year development plan, a longer time period for development, to allow infrastructure to keep pace with population growth is far more realistic approach. Council's current vegetation mapping 10.2017.201.1 & 10.2017.661.1 Byron Bay Town Centre Masterplan - recognises that public amenity, safety and affordable housing can be catered for within the existing residential and town-centre areas. Aquatic Assessment of West Byron Urban Land Release Program (2010) 10.2017.201.1 & 10.2017.661.1 10.2017.201.1 & 10.2017.661.1
environment and biodiversity of Byron • There are many intrusions into the native habitat that represent breaches of the LEP (78 and & (E8.10.5.1) DCP's (DCP 8.10.5.1) requirements to protect the values of the Ezones has not been observed. As outlined in the Council's 20 year development plan, a longer time period for development, to allow infrastructure to keep pace with population growth is far more realistic approach. Council's current vegetation mapping Duce 10.2017.201.1 & 10.2017.661.1 Byron Bay Town Centre Masterplan - recognises that public amenity, safety and affordable housing can be catered for within the existing residential and town-centre areas. Aquatic Assessment of West Byron Urban Land Release Program (2010) Final Report - March 2005 Restoration Strategy Belongil-Cumbebin 10.2017.201.1 & 10.2017.661.1 10.2017.201.1 & 10.2017.661.1
 There are many intrusions into the native habitat that represent breaches of the LEP (78 and & (E8.10.5.1) DCP's (DCP 8.10.5.1) requirements to protect the values of the Ezones has not been observed. As outlined in the Council's 20 year development plan, a longer time period for development, to allow infrastructure to keep pace with population growth is far more realistic approach. Council's current vegetation mapping Byron Bay Town Centre Masterplan - recognises that public amenity, safety and affordable housing can be catered for within the existing residential and town-centre areas. Aquatic Assessment of West Byron Urban Land Release Program (2010) Final Report - March 2005 Restoration Strategy Belongil-Cumbebin 10.2017.201.1 & 10.2017.661.1 10.2017.201.1 & 10.2017.661.1 10.2017.201.1 & 10.2017.661.1
breaches of the LEP (78 and & (E8.10.5.1) DCP's (DCP 8.10.5.1) requirements to protect the values of the Ezones has not been observed. As outlined in the Council's 20 year development plan, a longer time period for development, to allow infrastructure to keep pace with population growth is far more realistic approach. Council's current vegetation mapping Byron Bay Town Centre Masterplan - recognises that public amenity, safety and affordable housing can be catered for within the existing residential and town-centre areas. Aquatic Assessment of West Byron Urban Land Release Program (2010) Final Report - March 2005 Restoration Strategy Belongil-Cumbebin 10.2017.201.1 & 10.2017.661.1 10.2017.201.1 & 10.2017.661.1 10.2017.201.1 & 10.2017.661.1
requirements to protect the values of the Ezones has not been observed. As outlined in the Council's 20 year development plan, a longer time period for development, to allow infrastructure to keep pace with population growth is far more realistic approach. Council's current vegetation mapping Byron Bay Town Centre Masterplan - recognises that public amenity, safety and affordable housing can be catered for within the existing residential and town-centre areas. Aquatic Assessment of West Byron Urban Land Release Program (2010) Final Report - March 2005 Restoration Strategy Belongil-Cumbebin 10.2017.201.1 & 10.2017.661.1 10.2017.201.1 & 10.2017.661.1
observed. As outlined in the Council's 20 year development plan, a longer time period for development, to allow infrastructure to keep pace with population growth is far more realistic approach. Council's current vegetation mapping Byron Bay Town Centre Masterplan - recognises that public amenity, safety and affordable housing can be catered for within the existing residential and town-centre areas. Aquatic Assessment of West Byron Urban Land Release Program (2010) Final Report - March 2005 Restoration Strategy Belongil-Cumbebin 10.2017.201.1 & 10.2017.661.1 10.2017.201.1 & 10.2017.661.1 10.2017.201.1 & 10.2017.661.1
As outlined in the Council's 20 year development plan, a longer time period for development, to allow infrastructure to keep pace with population growth is far more realistic approach. Council's current vegetation mapping Byron Bay Town Centre Masterplan - recognises that public amenity, safety and affordable housing can be catered for within the existing residential and town-centre areas. Aquatic Assessment of West Byron Urban Land Release Program (2010) Final Report - March 2005 Restoration Strategy Belongil-Cumbebin 10.2017.201.1 & 10.2017.661.1 10.2017.201.1 & 10.2017.661.1 10.2017.201.1 & 10.2017.661.1
period for development, to allow infrastructure to keep pace with population growth is far more realistic approach. Council's current vegetation mapping 10.2017.201.1 & 10.2017.661.1 Byron Bay Town Centre Masterplan - recognises that public amenity, safety and affordable housing can be catered for within the existing residential and town-centre areas. Aquatic Assessment of West Byron Urban Land Release Program (2010) 10.2017.201.1 & 10.2017.661.1 Final Report - March 2005 Restoration Strategy Belongil-Cumbebin 10.2017.201.1 & 10.2017.661.1
Council's current vegetation mapping 10.2017.201.1 & 10.2017.661.1 Byron Bay Town Centre Masterplan - recognises that public amenity, safety and affordable housing can be catered for within the existing residential and town-centre areas. Aquatic Assessment of West Byron Urban Land Release Program (2010) 10.2017.201.1 & 10.2017.661.1 Final Report - March 2005 Restoration Strategy Belongil-Cumbebin 10.2017.201.1 & 10.2017.661.1
Council's current vegetation mapping 10.2017.201.1 & 10.2017.661.1 Byron Bay Town Centre Masterplan - recognises that public amenity, safety and affordable housing can be catered for within the existing residential and town-centre areas. Aquatic Assessment of West Byron Urban Land Release Program (2010) Final Report - March 2005 Restoration Strategy Belongil-Cumbebin 10.2017.201.1 & 10.2017.661.1 10.2017.201.1 & 10.2017.661.1
Byron Bay Town Centre Masterplan - recognises that public amenity, safety and affordable housing can be catered for within the existing residential and town-centre areas. Aquatic Assessment of West Byron Urban Land Release Program (2010) Final Report - March 2005 Restoration Strategy Belongil-Cumbebin 10.2017.201.1 & 10.2017.661.1 10.2017.201.1 & 10.2017.661.1
Byron Bay Town Centre Masterplan - recognises that public amenity, safety and affordable housing can be catered for within the existing residential and town-centre areas. Aquatic Assessment of West Byron Urban Land Release Program (2010) Final Report - March 2005 Restoration Strategy Belongil-Cumbebin 10.2017.201.1 & 10.2017.661.1 10.2017.201.1 & 10.2017.661.1
safety and affordable housing can be catered for within the existing residential and town-centre areas. Aquatic Assessment of West Byron Urban Land Release Program (2010) 10.2017.201.1 & 10.2017.661.1 Final Report - March 2005 Restoration Strategy Belongil-Cumbebin 10.2017.201.1 & 10.2017.661.1
residential and town-centre areas. Aquatic Assessment of West Byron Urban Land Release Program (2010) 10.2017.201.1 & 10.2017.661.1 Final Report - March 2005 Restoration Strategy Belongil-Cumbebin 10.2017.201.1 & 10.2017.661.1
Aquatic Assessment of West Byron Urban Land Release Program (2010) 10.2017.201.1 & 10.2017.661.1 Final Report - March 2005 Restoration Strategy Belongil-Cumbebin 10.2017.201.1 & 10.2017.661.1
Final Report - March 2005 Restoration Strategy Belongil-Cumbebin 10.2017.201.1 & 10.2017.661.1
,
Wetland Complex
Affordable Housing Strategy 2002 10.2017.201.1 & 10.2017.661.1
Belongil Creek Flood Study, 2009 10.2017.201.1 & 10.2017.661.1
Belongil Estuary Study and Management Plan should be considered 10.2017.201.1 & 10.2017.661.1
Bike Strategy and Action Plan 10.2017.201.1 & 10.2017.661.1
Biodiversity Conservation Strategy, 2004 10.2017.201.1 & 10.2017.661.1
Biodiversity in Byron Shire 10.2017.201.1 & 10.2017.661.1
Byron Bay and Suffolk Park Settlement Strategy, 2002 10.2017.201.1 & 10.2017.661.1
Byron Coast Comprehensive Koala Plan of Management (2015), 10.2017.201.1 & 10.2017.661.1
Byron Coastline Values Study 2000 10.2017.201.1 & 10.2017.661.1
Byron Flora and Fauna Study 1999 10.2017.201.1 & 10.2017.661.1
Byron Shire Urban Affordable Housing Strategy 10.2017.201.1 & 10.2017.661.1
Camphor Laurel Management in Byron Shire 10.2017.201.1 & 10.2017.661.1

Climate Change Adaptation Implementation Schodule	10.2017.201.1 & 10.2017.661.1
Climate Change Adaptation Implementation Schedule	
Coastal Zone Management Plan for Byron Shire Coastline (draft 2013)	10.2017.201.1 & 10.2017.661.1
Coastline Hazard Definition Study	10.2017.201.1 & 10.2017.661.1
Coastline Management Study	10.2017.201.1 & 10.2017.661.1
Community Based Heritage Study	10.2017.201.1 & 10.2017.661.1
Community Profile	10.2017.201.1 & 10.2017.661.1
Community Satisfaction Research	10.2017.201.1 & 10.2017.661.1
Community Strategic Plan: The recently published draft CSP includes key	10.2017.201.1 & 10.2017.661.1
objectives and supporting strategies which cannot be reconciled with the	
proposed development. Specific objectives aim to protect and enhance	
our natural environment, and to manage growth and change responsibly.	
These are sensible objectives which may get minimal recognition in an	
application review process. A critical examination of CSP objectives and	
supporting strategies is therefore recommended as part of the approval	
process for this DA.	
Does not accord with any of Byron Council's sustainability planning	10.2017.201.1 & 10.2017.661.1
documents.	
Draft Byron Rural Land Strategy 2017 (relating to impacts on surrounding	10.2017.201.1 & 10.2017.661.1
rural lands)	
Emergency Action Sub Plan	10.2017.201.1 & 10.2017.661.1
Emergency Risk Management Study	10.2017.201.1 & 10.2017.661.1
Far North Coast Bush Fire Management Plan	10.2017.201.1 & 10.2017.661.1
Greenhouse Action Strategy	10.2017.201.1 & 10.2017.661.1
Heads of Agreement between Council and the Arakwal Aboriginal People	10.2017.201.1 & 10.2017.661.1
1998	
Integrated Waste Management Strategy 2007-2009	10.2017.201.1 & 10.2017.661.1
Integrated Water Cycle Management Plan	10.2017.201.1 & 10.2017.661.1
Local Environmental Study 2008	10.2017.201.1 & 10.2017.661.1
Planning Proposal E2016/27205 Amendment of BLEP 1988 – West Byron	10.2017.201.1 & 10.2017.661.1
Bay, 2016.	

Residential Strategy: This document has now reached the preliminary	10.2017.201.1 & 10.2017.661.1
draft stage and identifies a number of areas throughout the shire for	
potential residential development. Such areas do not include the	
proposed development area and use of this particular site is strongly	
opposed by Byron Council and regional politicians. The clear intention of	
the residential is to satisfy state residential growth objectives consistent	
with community expectations.	
The Council historically proceeded with stringent planning for best	10.2017.201.1
practice STPs determined by detailed growth planning and respectful	
community engagement to determine the future character of the	
shire. In doing the planning it was determined that future growth should	
prioritise urban infill not sprawl. It was the 2002 Settlement Strategy for	
Byron Bay and surrounds that determined the 20 year growth that could	
be undertaken with higher densities in the existing urban areas which	
included the opportunities for existing landowners to undertake dual	
occupancies and medium density. This was to be growth based on local	
based development but still meeting the growth targets that the state	
governments imposed. The planning and capacity for the new West	
Byron STP was determined on the basis of the strategies.	
The Councils Rural Land Strategy shows the site "Constrained Land" for	10.2017.201.1 & 10.2017.661.1
flood risk,	
Tourism Management Plan 2008-2018	10.2017.201.1 & 10.2017.661.1
Urban Stormwater Management Plan	10.2017.201.1 & 10.2017.661.1
Waste Disposal Strategy	10.2017.201.1 & 10.2017.661.1
Waste Education Strategy	10.2017.201.1 & 10.2017.661.1
West Byron outcomes report 2009	10.2017.201.1 & 10.2017.661.1
West Byron Consultation report 2009	10.2017.201.1 & 10.2017.661.1
Cultural policy and the Cultural Plan	10.2017.201.1 & 10.2017.661.1
NOTE* In accordance with the NSW Environmental Planning and	10.2017.201.1 & 10.2017.661.1
Assessment Act 1979 (that has since been superseded by the 2017	

10.2017.201.1 & 10.2017.661.1
10.2017.201.1 & 10.2017.661.1
10.2017.201.1
10.2017.201.1 & 10.2017.661.1
10.2017.201.1 & 10.2017.661.1

SEPP Coastal Wetlands - There has not been any attempt to consider the	10.2017.201.1 & 10.2017.661.1
impacts on currently mapped Coastal Wetlands (and the requirement for	10.2017.201.1 & 10.2017.001.1
an EIS) or the Coastal Environment Area.	
SEPP Koala Habitat Protection 2016 - Draft	10.2017.201.1 & 10.2017.661.1
SEPP Coastal Management Draft	10.2017.201.1 & 10.2017.661.1
The Draft SEPP requires that development in areas of proximity must not	
be granted approval unless the council is satisfied that:	
" the proposed development will not significantly impact on:	
(a) the biophysical, hydrological or ecological integrity of the adjacent	
coastal wetland or littoral rainforest, or	
(b) the quantity and quality of surface and ground water flows to the	
adjacent coastal wetland or littoral rainforest if the development is on	
Land within the catchment of the coastal wetland or littoral rainforest."	
2016 Draft Coastal Management SEPP which had been publicly exhibited	
should have been considered in accordance with S79C (c).	
SEPP Infrastructure 2007 Clause 101	10.2017.201.1 & 10.2017.661.1
The NSW Government's High Environmental Value criteria	10.2017.201.1 & 10.2017.661.1
Quality Protection Policy	10.2017.201.1 & 10.2017.661.1
the NSW Groundwater Quality Protection Policy	10.2017.201.1 & 10.2017.661.1
Coastal Design Guidelines for NSW, 2003	10.2017.201.1 & 10.2017.661.1
Development does not meet goals of sustainability as highlighted in the	10.2017.201.1 & 10.2017.661.1
Regional Strategy Plan. A breach of democracy.	
This development ignores the community consulted Town and Population	
Planning decisions of our elected Shire Council. This development ignores	
the State Governments own North Coast Strategy, in terms of projected	
required housing numbers, and the Strategies direction that 40% of	
development should be inland, and the 60% of Shire development on our	
coast should be spread along our coast.	

	,
Draft referral guidelines for the Wallum Sedge Frog	10.2017.201.1 & 10.2017.661.1
Environment Protection and Biodiversity Conservation Act 1999: Draft	10.2017.201.1 & 10.2017.661.1
referral guidelines for the vulnerable wallum sedge frog, litoria	
olongurensis, Australian Government, Department of Sustainability,	
Environment, Water, Population and Communities.	
Environmental criteria for road traffic noise, EPA, 1999	10.2017.201.1 & 10.2017.661.1
Far North Coast Regional Conservation Plan, NSW Department of	10.2017.201.1 & 10.2017.661.1
Environment, Climate Change and Water, NSW, 2010	
Far North Coast Regional Strategy 2006-2031, NSW Department of	10.2017.201.1 & 10.2017.661.1
Planning. (if DA submitted prior to approval of North Coast Regional Plan	
2016)	
North Coast Regional Plan 2036, NSW Planning and Environment (or	
North Coast Regional Plan 2016)	
Koala Populations in QLD, NSW and the ACT and National Environmental	10.2017.201.1 & 10.2017.661.1
Law, Australian Government, Department of Sustainability, Environment,	
Water, Population and Communities	
National Koala Conservation and Management Strategy 2009-2014	10.2017.201.1 & 10.2017.661.1
National Recovery Plan for the Wallum Sedge frog and other wallum-	10.2017.201.1 & 10.2017.661.1
dependent frog species, Department of Environment and Conservation,	
2006	
North Coast Farmland Protection Project 2005	10.2017.201.1 & 10.2017.661.1
North Coast Regional Environmental Plan	10.2017.201.1 & 10.2017.661.1
North Coast Urban Design Guidelines	10.2017.201.1 & 10.2017.661.1
North Coast Urban Design Guidelines, NSW Department of Planning, 2008	10.2017.201.1 & 10.2017.661.1
Northern Rivers Catchment Action Plan 2013-2023: Setting the direction	10.2017.201.1 & 10.2017.661.1
for natural resource management in the northern rivers region, NSW	
Government, Catchment Management Authority Northern Rivers, 2013.	
Northern Rivers Farmland Protection Project: Final Recommendations,	10.2017.201.1 & 10.2017.661.1
Department of Infrastructure, Planning and Natural Resources and NSW	

DPI, 2005.	
Northern Rivers Regional Biodiversity Management Plan, NSW	10.2017.201.1 & 10.2017.661.1
Government Environment, Climate Change and Water, 2010.	
Northern Rivers development and design manual	10.2017.201.1 & 10.2017.661.1
NSW Acid Sulfate Soils Assessment Guidelines must be followed	10.2017.201.1 & 10.2017.661.1
NSW Road Noise Policy, NSW Environment, Climate Change and Water	10.2017.201.1 & 10.2017.661.1
Department, 2011	
NSW Threatened Species Priorities Action Statement, Department of	10.2017.201.1 & 10.2017.661.1
Environment and Climate Change, 2007	
Planning Guidelines for Koala Conservation and Recovery	10.2017.201.1 & 10.2017.661.1
Recovery Plan for the Koala, (Approved Recovery Plan) Department of	10.2017.201.1 & 10.2017.661.1
Environment and Climate Change NSW, 2008.	
Report of the Independent Review into the Decline of Koala Populations	10.2017.201.1 & 10.2017.661.1
in Key Areas of NSW – NSW Chief Scientist and Engineer, NSW	
Government, 2016.	
Settlement Planning Guidelines: Mid and North Coast Regional Strategies,	10.2017.201.1 & 10.2017.661.1
NSW Department of Planning, 2007	
The AUS-SPEC, NSW Guide, Guidelines for Development and Subdivision	10.2017.201.1 & 10.2017.661.1
of Land, 2006	
Native Vegetation Act 2003	10.2017.201.1 & 10.2017.661.1
Threatened Species Conservation Act 1995	10.2017.201.1 & 10.2017.661.1
National Parks and Wildlife Act 21974	10.2017.201.1 & 10.2017.661.1
Fisheries Management Act 1994 on riparian buffers. According to the	10.2017.201.1 & 10.2017.661.1
Fisheries Management Act 1994, riparian habitats include wetlands on	
river floodplains that interact with the river in times of flood. The	
guidelines of this Act should be followed when considering buffers. More	
substantial effective riparian buffers are required, including to maintain	
aquatic ecosystems.	
Ep&a Act 1979	10.2017.201.1 & 10.2017.661.1

• 1.3 Objects of Act

The objects of this Act are as follows:

- -to <u>promote the social and economic welfare of the community</u> <u>and a better environment by the proper management,</u> <u>development and conservation</u> of the State's natural and other resources,
- -to <u>facilitate ecologically sustainable development</u> by integrating relevant economic, environmental and social considerations in decision-making about environmental planning and assessment,
- -to promote the orderly and economic use and development of land,
- -to promote the delivery and maintenance of affordable housing,
- -to protect the environment, including the conservation of threatened and other species of native animals and plants, ecological communities and their habitats,
- -to promote the sustainable management of built and cultural heritage (including Aboriginal cultural heritage),
- -to promote good design and amenity of the built environment,
- -to promote the proper construction and maintenance of buildings, including the protection of the health and safety of their occupants,
- -to promote the sharing of the responsibility for environmental planning and assessment between the different levels of government in the State,
- -to provide increased opportunity for community participation in environmental planning and assessment.

Given these objectives, and given that the Climate Change Mapping for 2100 is recognised by the NSW Government, and this mapping shows much of the subject land under the sea, then how is it responsible planning to permit such a large scale development, and the capital works associated with it, and the human and physical capital it will contain, to be permitted on an area of the Shire so likely to be impacted by Sea Level Rises.

NSW Part 3A, approval consent condition (AKA State significant infrastructure assessment systems) with strong consideration given to the operational needs of the electrical sub-station during major storm events or emergencies should black outs or other equipment defects occur. In other words, flooding / inundation of Skinners Shoot road could impact on the whole town regarding power source during emergencies due to its inaccessibility. In 2009 the Skinners Shoot Community were successful in obtaining recognition, for the need to upgrade the road to a flood free all weather access to service a major electricity substation, via the NSW Part 3A major infrastructure approval for Country Energy under application number 08-0044. The West Byron Flood impact study fails to mention the peak flow volumes generated by rain runoff from roofs, roads, driveways, footpaths and other impervious or hard surfaces. The hydrology of the Belongil Creek Floodplain heads excess water to the lowest point being the Cumbebin Swamp and here is where our NSW 3A approval kicks in. If land fill works proposed by this development application adversely affect Skinners Shoot Rd, currently an all weather access road, by rising and lengthening the flood level in the Cumbebin swamp potentially increasing the duration of the flood retention time, then our Community would have strong lawful case against the development approval. In conclusion, our objection submits. a/ That a condition of consent protects the Current NSW 3A approval

consent condition as an 'All weather access' on Skinners Shoot road by increasing the height of the road above inundation levels.	
b/ Or a condition be imposed to undertaking a new flood study	
specific to considerations and mitigation of flooding of Skinners	
Shoot Rd	
(E2018/15803, Skinners Shoot Resident Group)	
The DA is not compliant with Section 79C of the EPA Act in that it	
has not fully considered "any proposed instrument that is or has	
been the subject of public consultation".	
•	
EPBC Act 1999	10.2017.201.1 & 10.2017.661.1
referral guidelines for the vulnerable Koala, Australian	
Government, Department of the Environment	
The Environment Protection and Biodiversity Conservation Act	
1999 is triggered and the proposal needs to be referred to this Act	
in that it proposes significant impacts on vulnerable species and is	
likely to increase risks to these species	
protection of wallum sedge frog and koala	
Biodiversity Conservation Act 2016	10.2017.201.1 & 10.2017.661.1
There has not been an attempt to consider impacts on threatened	
species and ecological communities in accordance with the	
Biodiversity Conservation Act 2016 instead of the repealed Section	
5A of the Environmental Planning and Assessment Act 1979.	
There is non-compliance with the Biodiversity Conservation Act	
2016A therefore a Species Impact Statement or a Biodiversity	
Development Assessment Report needs to be prepared. During	
the rezoning process for these lands, undertakings where given to	

protect both Wallum Froglet populations. This commitment is not	
now being honoured.	
NSW TSC Act 1995 –	10.2017.201.1 & 10.2017.661.1
 Thirteen Threatened fauna species under the NSW TSC Act 1995 	
have been recorded on West Byron, with 4 of these listed under	
the Commonwealth EPBC Act 1999.	
Lack of required Community Consultation. The Planning Laws stipulate	10.2017.201.1 & 10.2017.661.1
Community Consultation. There has been no legitimate or meaningful	
community input into this development. I was a Community	
Representative on the Community Consultation panel. The developers,	
with their State Govt backers, purely told the community representatives	
what they were going to develop. The State Govt/Developers refused to	
take minutes of community opposition, only providing Meeting Notes.	
The Meeting Notes are purely prejudicial propaganda designed to pursue	
development. Community representatives complaints that the Meeting	
Notes were unrepresentative of the Meetings were met with a promise	
that Community Reps would be given time to give a presentation of their	
constituents concerns, but were then refused "as the Meeting had run out	
of time".	
Best Practice	
Living and working in rural areas handbook (relating to buffers with	10.2017.201.1 & 10.2017.661.1
surrounding rural land users)	
Technical Fact Sheet – Biodiversity Assessments	10.2017.201.1 & 10.2017.661.1
Byron Coast Comprehensive Koala Plan of Management 2016 (draft)	10.2017.201.1 & 10.2017.661.1
Best Practice Guidelines for Greener Subdivisions, Blacktown City Council,	10.2017.201.1 & 10.2017.661.1
2002	
Designing Safer Subdivisions: Guidance on Subdivision Design in Flood	10.2017.201.1 & 10.2017.661.1
Prone Areas, Collaboration, 2006 © Hawkesbury-Nepean Floodplain	
Management Strategy Steering Committee	
<u> </u>	

Ecological Assessment West Byron Project, Australian Wetlands	10.2017.201.1 & 10.2017.661.1
Consulting Pty Ltd, 2010	
Land Use Conflict Risk Assessment: In support of a State Significant Site	10.2017.201.1 & 10.2017.661.1
study for the West Byron Urban Land Release Area, Land Partners built	
environment consultants, 2010.	
Living and Working in Rural Areas: A Handbook for managing land use	10.2017.201.1 & 10.2017.661.1
conflict issues on the NSW North coast, NSW DPI, 2007.	
NSW Koala Population Case Studies, Martin Predavec, 2016	10.2017.201.1 & 10.2017.661.1
Olongburra Frog Priorities Action Statement	10.2017.201.1 & 10.2017.661.1
Planning Guidelines for Koala Conservation and Recovery: A guide to best	10.2017.201.1 & 10.2017.661.1
planning practice 2007 (Matthew O'Reilly)	
Preliminary Ecological Assessment, Land Partners 2010	10.2017.201.1 & 10.2017.661.1
Proposed Priorities Action Statement amendment, Saving Our Species	10.2017.201.1 & 10.2017.661.1
conservation project (Existing PAS was adopted by the OEH 2014.	
Securing the Koala in the Wild in NSW for 100 Years, Saving Our Species	10.2017.201.1 & 10.2017.661.1
(Saving our species iconic koala project), NSW OEH	
Draft West Byron Urban release Area DCP 2013 as released by the	10.2017.201.1 & 10.2017.661.1
Department of Infrastructure and Planning as part of the Planning	
Proposal approval.	
West Byron urban Land Release Project Report, The Water and Carbon	10.2017.201.1 & 10.2017.661.1
Group, 2010	
West Byron/Belongil Fields, Letter of Advice, Peter Parker Environmental	10.2017.201.1 & 10.2017.661.1
Consultants, 2010.	
Issues within the DA	
Combined Issues 661 & 201	
There is a need to rectify the gross incompatibilities between the 2 DAs	10.2017.201.1 & 10.2017.661.1
for road works, drainage works, services, fill plans, Koala management,	
Wallum Sedge Frog management, and numerous other attributes. The	

items on this DA do marry up with the DA 10.2017.66.1 eg road works, drainage works, services, plans for fill. Eg the problem of street layout – there is no space for swales (drainage) for nose in parking & some sites have no rear access or street parking at all which are required by DCP E8.10.3 E.G. Plans indicate that the roads are misaligned by as much as 25-25 meters! Both DAs do not align with each other, in maps or in plans. I address the second DA in another submission. But the whole of site plans are still missing or not consistent across the entire site. This is not correct for whole of site planning. I note that the two proposals draw on the same technical reports and preliminary studies which are deeply flawed from the start.

The DAs need to be withdrawn and made compatible, with the required holistic Management Plans for the whole site (including the industrial area) prepared: including for traffic, Koalas, biodiversity, Acid Sulfate Soils, stormwater, and the Belongil estuary. The two proposals should be considered together to appreciate the scale of population increase they will generate, as well as impacts on traffic, drainage, koalas and wetlands.

There are inconsistencies and incompatibles between the two applications and this presents an impossible task in terms of assessment and consideration of the proposals. Due to the nature of the overall site of West Byron lands and the fact that the rezoning was done for the whole area, any application for the development of the lands should be applied for under one application to ensure that the proper consideration of all impacts is able to be adequately assessed.

Because the site is made up of VillaWorld's subdivision proposal as well as that of the other landowners, there are aspects of the site that cannot be

dealt with in isolation.	
It is recommend that Council lead a discussion of cooperation between the two Applications to make both developments more efficient and effective for residents, developers and the environment. There needs to be a plan to link the two Lots with internal roads so residents don't need to enter Ewingsdale Road to take advantage of the features/services/facilities of both neighbouring Developments. It would be good to see some future planning allocation for a local retail outlet/s, PO, and other facilities which could be shared by residents of both Lots. Making them more commercially viable.	
Improperly submitted DAs are not supposed to be accepted.	
Council's High Ecological Value Vegetation (HEV) mapping has been ignored; the DA's instead citing outdated and irrelevant information. The HEV zones were distributed and were on exhibition prior to the lodging of these DA's and thus provided adequate guidance for incorporation into the proponents planning.	10.2017.201.1 & 10.2017.661.1
There are numerous inconsistencies to the DA's all of which will have a	10.2017.201.1 & 10.2017.661.1
major impact on drainage, flooding potential, water management, native	
animal habitat (and conservation) and road and traffic planning. It is clear	
that the DA's have been inexpertly, ineptly or disingenuously prepared	
without consideration to these focus areas and this should indicate an	
automatic refusal until consistency is achieved in consultation with	
planners and local land holders. E.G. Plans indicate that the roads are	
misaligned by as much as 25-25 meters!	
It is outrageous that the communities quality of life can be allowed to be so diminished by a development so flawed. Especially when we residents	10.2017.201.1 & 10.2017.661.1

have been required to comply with every minute detail of planning	
regulations.	
Based on false statistics. Development is based on false under declared	10.2017.201.1
existing Byron Bay housing development capacity statistics. Substantiated	
independent statistics provided by the Community Representatives that	
identified actual pre-existing housing development capacity were ignored.	
Surely such a proposal must be thoroughly prepared and must satisfy or	
adequately address all the development controls and legislation before	
any assessment, let alone determination can be made. The DA contains a	
lot of false/misleading information. There is a pattern of underestimating	
impact and overestimating benefit in the submission, which indicates	
the likelihood of concealment and unrealistic projecting, meant to hide information form the public.	
filde illiorifiation form the public.	
This DA 10.2017.201.1, is understating the area of vegetation proposed	
for clearing.	
, and the second	
Based on false population projections. Development is based on	
projected future population numbers that are inflated over actual	
projected future population numbers.	
Not complete Only one third of the DA is on show for approval. Lack of	
detailed information provided to enable a proper assessment of the	
Concept Plan for the whole of the development. Details of Stage 1 only	
given. No information is provided to enable a proper assessment of the	
Concept Plan for the whole of the development.2.	
On the DA Application Form it asks the question under heading Roads –	
'Will your development affect a public road' and it is ticked No. The only	
access into the proposed subdivision is from Ewingsdale Road so it should	

be ticked Yes.

The currently exhibited Villaworld DA documents don't include a Statement of Environmental Effects, are incomplete and thus inadequate to assess the proposal. To say that there was one submitted before is not sufficient as the current proposal is different and has different effects. It should not be acceptable to rely upon the documents previously exhibited when there have been significant changes and they are no longer available.

All assessment of West Byron are partial only and therefore do not consider their stage of the development in the context of the full development of the site, such as the overall impact of the drain, the full impact on Acid Sulfate Soils and the Belongil estuary, the full traffic impacts of the development, the impacts of fill transport and the impact on Koalas in the context of a SEPP 44 Koala Plan of Management.

Villa World is meant to be the last stage of the development, not the first. There needs to be clarification of the "maximum" number of dwellings. There needs to be clarification of the "maximum" number of dwellings and limit the subdivision of individual lots. The housing is too densely proposed for this sensitive site. What will trigger the following stages to be initiated?

Although 9 sub-stages are proposed in this Stage 1 plan for West Byron, there is no indication given for the timing of sub-stages or whether Stage 2 can commence before stage 1 is complete. Timing is crucial to the local residents and businesses.

A Strategic whole of site plan is needed, prior to any approvals. Allowing

development to begin with no overall understanding of the likely long term outcome is very poor planning. I do not understand why the process is not being controlled by a Masterplan.

There also appear to be some planning inconsistencies with this D.A. including that: "consent has not been provided for most of the lots associated with the later stage".

There has been no Political Donation Disclosure made by the developer since it bought the land from the previous owner, and had it successfully rezoned. So we don't even know how much this developer has paid to those who will consider approving enormous windfall profits for it, for essentially doing nothing and destroying a beautiful place

Contributions The Applicant is attempting to offset the required Developer Contributions by providing infrastructure work in kind , which they would have to provide in any event i.e. open space, trunk sewer mains, road and access upgrades and sewer pumping station,. The Developer Contribution should be fully allocated to upgrading the road network.

Potential DA is for 303 lots and 352 dwellings, though around a quarter of the single lots are large enough for multiple dwellings, with 6 over 1000m2, there is potential for more than an additional 100+ dwellings when individual Das are submitted given the allowance for further subdivision of such large lots it is essential that Villa World identify the maximum potential number of residences that could be constructed on West Byron over time and that these be considered in the context of potential traffic movements and sewerage demands.

Non compliant: Lot areas are non compliant - medium density development and undersized lots in low density residential zones., road verges are non-compliant, parking provisions are not met. Track record/values - Villaworld has a consistent reputation for creating sub-par communities where profit margins are prioritised over the extensive effort and care required to make a healthy urban environment. Read the shocking account of what is happening in Tweed Heads at Silverstone 'Luxury' Apartments where 27 owners are taking them to the Federal Court for construction flaws that have turned their lives into a living nightmare. The profit margin of West Byron will exceed tenfold the prioritisation of thinking and care required to create healthy communities in new suburbs, which is shown in their portfolio of works by Villaworld to date The failure to provide land owners consent from the Crown and Byron 10.2017.201.1 Shire Council for works within the drainage reserve lot and Council's road reserve and the failure to provide land owners consent from private landowners for that part of the land covered by the concept proposal for subdivision of the whole of the West Byron site. The Belongil Swamp Drainage Union is trustees over the crown land incorporating the section of the union drain passing through and incorporated within the site. This DA proposes to construct bio swales to be built on Crown Land (South end of Melaleuca Drive) - which is not permissible - see below: **Boundary encroachments** Development sites adjoining Crown land must be accurately surveyed to ensure there will be no encroachments either during construction (eg. for storage of materials, access by construction vehicles etc.) or on-going occupation. An accurate survey is particularly

important for land adjacent to Crown waterways where erosion and accretion can occur. **Storm water run off** Uncontrolled stormwater can degrade Crown land and downstream environments through erosion, sedimentation, the altering of nutrient levels, increasing levels of pollution, the spread of weeds, and exacerbated flooding. These impacts can increase land management costs and limit current and future values of the Crown land. The design of stormwater measures should be part of an overall stormwater management plan based on an assessment of potential impact on adjoining land. Developments adjoining Crown land should not lead to a redirection of the flow, or a change in the volume and peak discharge of stormwater onto Crown land. Design measures to address these matters (eq. on-site detention and/or infiltration and subsurface discharge) should not be located on Crown land. If use of Crown land in this way is to be sought, it must be included as an integral component of the DA. As such, LPMA consent, as landowner will need to be included with the DA, and any approved structures will need a formal tenure under the Crown Lands Act 1989.

The West Byron master plan (including the other landowners) proposes to use part of Melaleuca Drive which is Crown Land as access roads. This is not acceptable according to:

Use of Crown roads The Crown road network is an historical network of land reserved to facilitate access should such need arise. Only a small proportion of Crown roads have been formed for actual vehicular access; most remain as 'paper' roads only. LPMA does not normally undertake road construction works and has limited resources in this regard. As such, LPMA does not support the development of Crown roads for new or more intensively-used access to private property unless arrangements to transfer such road to the local council are also proposed.

If the Southern part of Melaleuca Drive is approved to be sold to Villa World, there should be restrictions in its use (i.e. no additional subdivisions on Crown Land as suggested by the DA):

Conditions on former Crown land (now sold) When any Crown land is to be sold or converted to freehold title, the Minister for Lands may impose:

• conditions relating to that sale or requiring certain actions in respect to the land (refer s.36, 37 and 38 Crown Lands Act 1989) • covenants or other restrictions to protect the environment or prevent subdivision or separate dealing of multiple lots (refer s.77A and 77B).

http://www.crownland.nsw.gov.au/ data/assets/pdf file/0011/650585/ Development -and- Crown land Fact Sheet.pdf

Lack of Community Engagement - 2) There has not been the required community consultation required under this DoPE development process. a) The 3 community panel meetings failed to allow any substantial community input. The first meeting was a purely developers sale pitch for the development, where community members' challenges of the developers blatantly incorrect and fraudulent statements were not recorded, which led to the community members putting in a complaint about a lack of any meeting minutes. The 'lack of minutes' complaint was ignored and the second meeting progressed along the same path of a community input sidelined sales pitch, again with only selective developer prejudicial 'Meeting Notes' being produced, which were again absent of issues raised by community members. This resulted in another community reps Complaint of lack of community access into the process, which resulted in a promise that at the third meeting the community representatives would be given time to present their individual positions, and input from their groups. At the third meeting it was just more of the developers sale pitch and, despite all community members spending

considerable time in putting together a submission from their group on the proposal and its elements; they were informed that there was no time	
to present their input. The process was a farce of a DoPE invented	
planning regime that even failed the DoPE's own fabricated process that	
requires community consultation. It is alleged that the process was a	
, , , , , , , , , , , , , , , , , , , ,	
corrupt DoPE/developer conspiracy designed to disenfranchise any	
meaningful community input, and fails the DoPE's own development	
process criteria	40 2047 664 4
Incomplete - The DA does not include a Statement of Environmental	10.2017.661.1
Effects, which is required. It is an incomplete DA and thus Council is	
unable to assess the impacts of the proposal as there is insufficient	
information provided.	
Incorrect - The DA must consider the impacts on currently mapped	
Coastal Wetlands (and the requirement for an EIS) and the Coastal	
Environment Area. The outlines of legally protected areas and	
environmental zones have been drawn from out-dated survey data and	
are not site truthed.	
are not site trained.	
This company has not sought permission from adjoining landowners &	
member of the Union Drain Board	
Non compliant - medium density development and undersized lots	
in low density residential zones.	
Governance - Byron Shire Council should have some serious input into the	10.2017.201.1 & 10.2017.661.1
decision making process.	
NSW government is not listening to the people of Byron Bay. When it was	
decided the land would be sold for development, it was literally the voices	
of a handful against a consensus of 45 000. Yes you have read correctly,	

check the figures of how many signatures were received by council at that time. How is this possible? Twice the local population because our visitors themselves are strongly opposed to it. Why? Because the whole thing doesn't make sense! Why would the region destroy what makes it so special. I can tell you those 45 000 people have felt betrayed by the people in power and I hear some who have had their spirit crushed, so of course no one will hear from those anymore. NSW Planning Department amended Byron's LEP and allowed the developer to submit a DA without a DCP. Additionally, NSW Planning Minister Anthony Roberts has also indicated he would intervene if the development did not proceed to his liking. This may constitute corrupt practice. It certainly does not follow the *Community Charter for Good Planning in NSW*, adopted by Byron Shire Council in 2014.

This process is a sham It was taken out of Local Council hands and both supposedly state significant developments were placed on the desk of the newly appointed Planning Minister and later Premier Christine Kennealy. Such a sensitive environment should have remained in the hands of the local authorities. It must be remembered that the ALP Government was the most corrupt in living memory and the newly appointed Minister (supported by the now goaled Eddie Obeid) had no idea nor interest before rubber stamping a development that contained so many potential environmental and social catastrophes.

Should the development be approved, community belief in the ability of planning decision makers, like the JRPP and the Land and Environment Court, will be reduced adding to the already cynical opinion of many

residents on democratic governing processes.

Our Shire should be allowed to determine our sustainable future. As you likely know, at the most recent local government election the overwhelmingly majority of the population of the Byron Shire voted for councillors with an approach to development that is sensitive to the broad needs of people and the environment, rather than the narrow needs of commercial property developers. People move to Byron Shire specifically because the local Council appear to regularly act in line with environmental and social values.

Community and Elected Council members are 100% opposed. Different NSW state governments and various planning Ministers have contributed to the fact that this totally inappropriate development has been brought onto our community against everybody's wishes and needs. It has been unanimously rejected by all councillors and Byron Council staff - as per extraordinary meeting of Byron Shire Council 6 July 2017 - see http://byron.infocouncil.biz/Open/2017/07/OC 06072017 MIN 731 EXT RA WEB.htm

A letter from the EPA to Council dated 17 Sept 2014 stating: "Whilst the EPA understands that future development was accounted for in the design of existing STP I stress the importance for Council to comprehensively assess the potential impacts of new developments on existing sewerage infrastructure, including effluent re-use and discharge arrangements.", signed Head Environmental Management Unit North Coast.

In July 2017 a Council Staff Report stated that "the West Byron development is not in the public interest."

There is concern about the process of review and approval in this matter	
and its effect on citizens' trust in government. Citizens' trust in their	
governments is an essential component of an effective democracy. In	
Australia, this requires a collaborative partnership between citizens, their	
local council, their state government and the federal government. The	
Byron Shire Council, by a unanimous majority, does not want the Villa	
World development, and a plebiscite of the citizens of Byron Bay and its	
surrounds would confirm that a clear majority do not want it. If the NSW	
Government overrules our elected council, citizens' trust in our system of	
government will be severely diminished. We the actual residents are tired	
of the state government taking our quality of life as meaningless so they	
can make more money in Sydney without giving back to us.	
Construction of Villa World would open up the floodgates for similar	10.2017.201.1
developments based on precedent.	
Is there Peat below the surface? And if so will that cause a fire hazard?	10.2017.201.1 & 10.2017.661.1
This land has been the subject of strong public opposition over many	10.2017.201.1 & 10.2017.661.1
years owing to environmental and traffic factors. We are prepared to	
participate in acts of civil disobedience to demonstrate objection to the	
development of west Byron. There has been over 20 years	
of research including two commissioned surveys by our Council, which	
have supplied ample evidence as to why this swampland catchment site	
was unsuitable for inappropriate development.	
This is a golden opportunity for the developer to make a state of the art	
development that works with the natural environment making it a	
wonderful energy efficient community. This development doesn't belong	
here! Give us something creative. Byron wants and needs solar, water	
tanks, community garden, community living, stilt homes each with bio-	
retention systems. Small sustainable off grid housing for first home buyers	
not run by large mono cultural developers. Green belts with walk in	

suburbs. Give us something with innovative solutions to our housing and	
traffic problems! Give us a new technological approach to improve our	
social welfare. Give us sustainable infrastructure solutions! Give us a plan	
that preserves our unique ecosystem, rather than destroying it! There is	
the opportunity for a site that is a local asset rather than a developer	
asset, one that considers affordable, functional and sustainable design	
that re-considers our relationship with the built environment. There is the	
opportunity to provide positive development solutions. However the	
authority and design should be removed from the developer giving	
decisions back to the community and social minded designers. Reduce the	
homes 100 max, complete sustainable living, set an example of what real	
Byron lifestyle can be recycle materials, no cement slab .	
There are now very solid legal scenarios where residents can sue Council	
or State Government if insufficient has been paid to these issues and	
authorisation given to occupy sites.	
If this development gets the go ahead it will warrant a full Parliamentary	10.2017.201.1 & 10.2017.661.1
enquiry by one of the Upper House Committees.	
enquiry by one of the Upper House Committees. The developer company Villa World does not have a record of good	10.2017.201.1
	10.2017.201.1
The developer company Villa World does not have a record of good	10.2017.201.1
The developer company Villa World does not have a record of good quality or sustainable development. It went before the Federal Court in	10.2017.201.1
The developer company Villa World does not have a record of good quality or sustainable development. It went before the Federal Court in 2015 over its 6 year-old 27-unit "faulty tower" Silverstone apartment	10.2017.201.1
The developer company Villa World does not have a record of good quality or sustainable development. It went before the Federal Court in 2015 over its 6 year-old 27-unit "faulty tower" Silverstone apartment complex in Tweed Heads, allegedly riddled with hundreds of defects	10.2017.201.1
The developer company Villa World does not have a record of good quality or sustainable development. It went before the Federal Court in 2015 over its 6 year-old 27-unit "faulty tower" Silverstone apartment complex in Tweed Heads, allegedly riddled with hundreds of defects including corrosion and rust, mould and leaks. The owners claimed total	10.2017.201.1
The developer company Villa World does not have a record of good quality or sustainable development. It went before the Federal Court in 2015 over its 6 year-old 27-unit "faulty tower" Silverstone apartment complex in Tweed Heads, allegedly riddled with hundreds of defects including corrosion and rust, mould and leaks. The owners claimed total costs, including possible relocation of residents, individual damages, and	10.2017.201.1
The developer company Villa World does not have a record of good quality or sustainable development. It went before the Federal Court in 2015 over its 6 year-old 27-unit "faulty tower" Silverstone apartment complex in Tweed Heads, allegedly riddled with hundreds of defects including corrosion and rust, mould and leaks. The owners claimed total costs, including possible relocation of residents, individual damages, and	10.2017.201.1
The developer company Villa World does not have a record of good quality or sustainable development. It went before the Federal Court in 2015 over its 6 year-old 27-unit "faulty tower" Silverstone apartment complex in Tweed Heads, allegedly riddled with hundreds of defects including corrosion and rust, mould and leaks. The owners claimed total costs, including possible relocation of residents, individual damages, and ongoing legal costs of more than \$20 million.	10.2017.201.1
The developer company Villa World does not have a record of good quality or sustainable development. It went before the Federal Court in 2015 over its 6 year-old 27-unit "faulty tower" Silverstone apartment complex in Tweed Heads, allegedly riddled with hundreds of defects including corrosion and rust, mould and leaks. The owners claimed total costs, including possible relocation of residents, individual damages, and ongoing legal costs of more than \$20 million. Terry Agnew, failed in his preparation of properly assessing the potential	10.2017.201.1
The developer company Villa World does not have a record of good quality or sustainable development. It went before the Federal Court in 2015 over its 6 year-old 27-unit "faulty tower" Silverstone apartment complex in Tweed Heads, allegedly riddled with hundreds of defects including corrosion and rust, mould and leaks. The owners claimed total costs, including possible relocation of residents, individual damages, and ongoing legal costs of more than \$20 million. Terry Agnew, failed in his preparation of properly assessing the potential water damage and drainage issues with the BlackBean Estate in Federal	10.2017.201.1
The developer company Villa World does not have a record of good quality or sustainable development. It went before the Federal Court in 2015 over its 6 year-old 27-unit "faulty tower" Silverstone apartment complex in Tweed Heads, allegedly riddled with hundreds of defects including corrosion and rust, mould and leaks. The owners claimed total costs, including possible relocation of residents, individual damages, and ongoing legal costs of more than \$20 million. Terry Agnew, failed in his preparation of properly assessing the potential water damage and drainage issues with the BlackBean Estate in Federal and failed to compensate the residents after weeks of heavy rain	10.2017.201.1

Don't let this man do it again!	
Why is it that single housing dwellings and small businesses inhabiting the West Byron area have had to jump through hoops to get relatively minor developments approved to minimise the impact to surrounding wildlife and wetland areas but this mega development seems to have none of these requirements at all?	10.2017.201.1
The necessity for such a huge increase in housing stock has not been shown to exist in any of the most recent demographic projections. There are in fact ample areas available within Byron Bay township for more than a further thousand dwellings.	10.2017.201.1
In addition, the sheer volume of the documentation is so large that it is unreasonable to expect the general public - normal people with their jobs and family and without suitable resources (i.e. a team of paid workers who can focus on this with an economic interest to succeed) - to make an informed decision within the standard exhibition period on what are the actual consequences of this development would it go ahead. A significantly longer timeframe should apply to larger developments like these when proposed by bigger developers and for developments that will have such a major impact on a community	10.2017.201.1
The circumstances and the ad hoc nature of the rezoning by former Minister For Planning Pru Goward warrant a good look by ICAC, if only for reckless incompetence. Issues that appear strange:	
 "2. We understand that the land the subject of the DAs is part of the land known as the West Byron Bay site in the Byron Local Environmental Plan 1988 ('1988 LEP'). As such clause 45 (which is in Part 3 of that instrument) does not apply to the DAs. 3. This is because clause 65 of the 1988 LEP states that NO provisions (beyond Part 4) of the 1988 LEP apply to the West Byron Bay site other than clause 7. Clause 7 simply names Byron 	

SC as the consent authority	
SC as the consent authority.	
4. Clause 6.6 of the <i>Byron Local Environmental Plan 2014</i> ('2014	
LEP') also does not apply to the DAs. This is because the 2014 LEP does not apply to land identified as 'deferred matter' (see clause	
1.3(1A), 2014 LEP). The West Byron Bay site is identified as deferred matter."	
deferred matter.	
No informed planning process for a 25% population increase	
development. There was no consideration of whether the Potential Urban	
Release Area should be an actual Urban Release Area, no consideration of	
any other development options of Rural/Agricultural/Tourism or other	
Local Environmental Plan, or any other development models. No	
consideration of established community development Plans and Policies.	
Byron Shire Council needs to look at the Shire as a whole and what areas	
can accommodate and benefit from increased population density, the	
importance of protecting fragile environments and place limits on	
increasing population commensurate with infrastructure capacity and	
services.	
Stand Alone Submissions to be reviewed	
E2017/1566 – Matthew O'Reilly	10.2017.201.1
E2017/70734 – Dailan Pugh 51 pages	10.2017.201.1
E2018/26641 – Dailan Pugh 168 pages	10.2017.201.1
E2017/72071 – Cate Coorey/Residents Association	10.2017.201.1
E2018/24252 – Belongil Swamp Drainage Union includes report from	10.2017.661.1
Southern Cross GeoScience	
E2018/24383 – Belongil Swamp Drainage Union	10.2017.201.1
E2018/21193 Julian Vidal: diagrams of drainage, legal advice from	
Environmental Defenders Office	
E2018/22243 – Hochgrebe/Vida (neighbour), site specific	10.2017.201.1 & 10.2017.661.1 (sent twice)

E2018/21192 – Tricia Shantz – example of common submission	10.2017.201.1
E2018/24385 – Tim Hochgrebe	10.2017.201.1
E2018/24604 – Wandy Hochgrebe	10.2017.661.1
E2018/25028 – Wandy Hochgrebe	10.2017.201.1
E2018/24543 – Temple (neighbour) site specific	10.2017.661.1
E2018/2601 & E2018/26188 – Notice of Conditional Acceptance – Byron	10.2017.201.1 & 10.2017.661.1
Shire Residence Group	
E2018/26581 - Notice of Conditional Acceptance – Byron Shire Residence	10.2017.201.1 & 10.2017.661.1
Group	
·	
E2018/26473 – Mary Gardner	10.2017.661.1
E2018/26522 - Paul Margolin/Temple (neighbour)	10.2017.661.1
E2018/26591 – Eric Freeman stormwater/sewer	10.2017.201.1
E2018/26333 MP Tamara Smith	10.2017.201.1
E2018/27325 – Arakwal members	
E2018/27934 – Jack Dods design suggestions	10.2017.201.1 & 10.2017.661.1
E2018/28054 Byron Residents Group including 52 pages of petition	10.2017.201.1 & 10.2017.661.1
signatures	
E2018/28203 Byron Bay Bird Buddies Report	10.2017.201.1 & 10.2017.661.1
E2018/8660 From VillaWorld	10.2017.661.1
Site specific objection from consultant PN on behalf of neighbour?	

Submissions have come from: United Kingdom, Canada, America, Sweden, Spain, Italy, Portugal, Netherlands, Germany, Austria, France, New Zealand and the Philippines. And all around Australia.

SUBMISSIONS OF SUPPORT		
Issue	DA	Staff Response
Byron needs new housing and Byron Shire Council needs the extra annual rate revenue.	10.2017.201.1	
Employment during construction and ongoing through providing landowners IN2 industrial land which is sorely needed. The existing Industrial Estate in Byron Bay has reached full capacity		
West Byron Landowners project has 58 Ha total land area with 31Ha (over 53%) zoned E2 (Environmental Conservation) and E3 (Environmental Management) for rehabilitation / restoration / tree planting etc. The remaining 47% is Residential R2, R3 and IN2 Industrial (employment lands). This has been misrepresented in alarmist advertising campaigns which show the total area as a "Mega Development" but neglect to mention the 50% conservation areas.	10.2017.661.1	
The existing Industrial Estate has no more land available and Byron Shire needs more to support community needs including employment of workers.		
Traffic issues have been blown out of all proportion and have ignored the fact that people do cycle in Byron plus the town centre bypass which is yet to be built, existing and new roundabouts and four planned/under		

construction

Much of the traffic generated will be between the new development and old and proposed new industrial estate, habitat, elements and people heading north, west and south to Bangalow, Ballina, Lismore, Mullumbimby and QLD without needing to go through Byron town centre.

The traffic modelling is done on the peak load at the completion of the development which will be some 15 years away and the road system will evolve in that time to accommodate the extra load.

The development proposal includes many features not built in to most if not all of the existing Byron Shire urban areas:

- * WB Wired for NBN fibre to the home recognising the need to provide technology for the present and future.
- * Water Sensitive Urban Design (WSUD) Rainwater runoff will not just run into the wetlands as the doomsday theorists say plus "Purple pipe" grey water recycling etc. to all residential and IN2 Industrial land.
- * West Byron DCP E8. Housing will be for permanent residents only no holiday / short term rentals.
- * Massive new cycle ways many kilometres providing bike friendly access, level, close to town and existing and new Industrial Estates plus IGA supermarket and the hospital. Cycling becomes an attractive option and fitness lifestyle plus keeps cars off the roads.

Along with West Byron development will come increased transport options, more regular shuttle buses to also help reduce car usage on

Di manda na ada	
Byron's roads.	
There have not been any new greenfield development sites in Byron for 30 years (since Baywood Chase and Byron Hills) and consequently there is now a dire shortage of affordable accommodation for permanent residents and workers.	
The lack of housing/land supply has seen Byron Bay property prices go up 150% over five years due to demand. West Byron will help alleviate the problem by providing a large rate base.	
Byron Shire Council recently voted to put the rates up 33% over 4 years and still the roads are in a shocking state. Part of the problem is BSC's lack of economies of scale and consequently the advantage of larger rate base is essential to improve the services and infrastructure essential to the community.	
Building of more IN2 Industrial space for employment is needed ASAP.	
Melaleuca Drive should be closed off to Ewingsdale Rd and re routed around to Bayshore Drive in stage 1.	

NB – Items are highlighted in yellow where the development application/s relevant to the identified issue could not be accurately determined.