Compliance Report: Bruce Highway Upgrade Project - Caloundra Road to Sunshine Motorway, February 2020

EPBC Approval 2015/7464

Report 03



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Document control options

Departmental approvals

Refer to the appropriate Risk Assessment Tool for relevant reviewer and approver

Date	Name	Position	Action required (Review/endorse/approve)
	Anita Haynes	Senior Environmental Officer	Report Preparation
	Mark Asang	Project Manager	Endorsed
	Leah McKenzie	Deputy Regional Director (North Coast Region)	Approved

Risk level

☐ GACC major	□ GACC minor □ High risk (but not GACC) □ Medium risk
Prepared by	Anita Haynes
Title	Senior Environmental Officer
District & Region	North Coast
Branch & Division	PDO
Project/program	Bruce Highway Upgrade Project: Caloundra Road to Sunshine Motorway
Project number	280/10A/1
Project location	Glenview
Status	Revision 1
DMS ref. no.	450/01693

Proponent and Approval Action

Detail	Applicable Details
EPBC Reference	2015/7464
Number:	
Project Name:	Bruce Highway Upgrade – Caloundra Road to Sunshine Motorway
Proponent:	Department of Transport and Main Roads
ABN:	390 407 690 291
Proposed Action:	To upgrade a 7km section of the Bruce Highway between Caloundra Road and the Sunshine Motorway at Sippy Downs, Queensland. The upgrade will allow for the construction of a six-lane highway and the upgrade of two interchanges.
Location of Action:	Between Caloundra Road and the Sunshine Motorway at Sippy Downs, Queensland
Reporting Period:	December 2018 – December 2019
Date Prepared:	January 2020

Declaration of Accuracy

In making this declaration, I am aware that sections 490 and 491 of the *Environment Protection and Biodiversity Conservation Act 1999* (Cth) (EPBC Act) make it an offence in certain circumstances to knowingly provide false or misleading information or documents. The offence is punishable on conviction by imprisonment or a fine, or both. I declare that all the information and documentation supporting this compliance report is true and correct in every particular. I am authorised to bind the approval holder to this declaration and that I have no knowledge of that authorisation being revoked at the time of making this declaration.

Signed

Full name Leah McKenzie

Position Deputy Regional Director (North Coast Region)

Organisation Department of Transport and Main Roads (ABN 39 407 690 291)

Date 26/3/2020

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Proponent and Approved Action

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1. Introduction

1.1 Purpose of this Report

The Department of Transport and Main Roads (TMR) is constructing a 7km upgrade of the Bruce Highway between Caloundra Road and the Sunshine Motorway (hereafter referred to as "the Project"). The Project consists of an upgrade to both the Sunshine Motorway and Caloundra Road interchanges, a six-lane upgrade of the Bruce Highway between the two interchanges, as well as a fully connected service road on the western side of the highway. TMR (as Administrator) has awarded the Project to a Joint Venture of Fulton Hogan and Seymour Whyte (hereafter referred to as "the Contractor") as a design and construct contract.

The Project was referred to the Department of Environment (DoE) on 15th April 2015 for determination of whether the Project was likely to have a significant impact on *Matters of National Environmental Significance* (MNES). Projects likely to cause a significant impact on MNES require approval under the *Environmental Protection and Biodiversity Conservation Act 1999* (EPBC Act). The Project was deemed a controlled action on 18 May 2015 and was approved, subject to conditions, on 2 September 2016 (reference number: 2015/7464). The approval conditions are provided in **Appendix A** of this report.

Condition 6 of the EPBC Act approval conditions require that TMR prepare and publish an annual report on their website that addresses compliance with each of the conditions of the approval for each year of construction. This report is the third annual compliance report for the Project that meets this condition.

1.2 Matters of National Environmental Significance

Under the EPBC Act, a project must be referred to DoE for actions that are likely to have a significant impact on MNES protected by Part 3 of the EPBC Act. These are known as "controlling provisions". This project triggered one controlling provision: "potential impacts to listed threatened species and communities (Section 18 and Section 18A)". The proposed action is likely to have a significant impact on the following matters protected by the EPBC Act.

- Lowland Rainforest of Subtropical Australia critically endangered.
 - The proposed actions will reduce the extent of the critically endangered Lowland Rainforest of Subtropical Australia (LRSA) Threatened Ecological Community.
- Koala (Phascolarctos cinerus) vulnerable.
 - The proposed action will reduce the extent of critical habitat for the Koala.

2. Description of Activity

2.1 Project Location

The upgrade to the Bruce Highway is being undertaken between the area extending south of Caloundra Road and north towards the Sunshine Motorway at Sippy Downs, Queensland. The Project also includes areas on the Mooloolah River floodplain and areas north of Aussie World along Frizzo Road.

The project area is located within the Sunshine Coast Council (SCC) Local Government Area, approximately 15km west of Caloundra and 10km southwest of Mooloolaba. The project area encroaches on a section of the former Beerwah State Forest, west of the Bruce Highway at Glenview.

Sections of the project area have been historically cleared along the Bruce Highway for residential and commercial purposes. The project area also contains remnant vegetation, within the former Beerwah State Forest, Palmview Regional Park, and along the Mooloolah River.

2.2 Description of the Project

The Project consists of an upgrade to a 7km section of the Bruce Highway between Caloundra Road and the Sunshine Motorway from four to six lanes including major upgrades to the interchanges at Caloundra Road and the Sunshine Motorway. The Project will include the following key features:

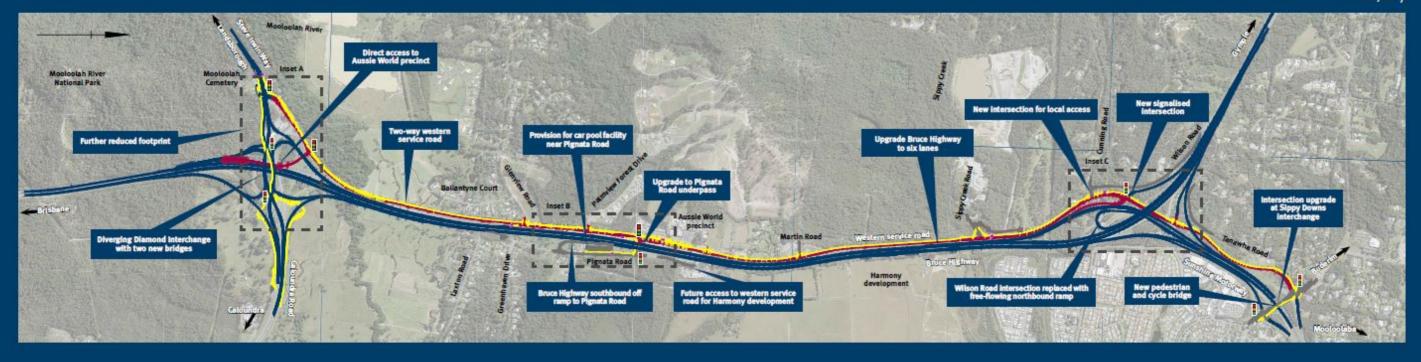
- Upgrade of the current Bruce Highway alignment from four to six lanes and to provide immunity for a 1 in 100-year flood event;
- A "diverging diamond" interchange at the intersection of the Bruce Highway and Caloundra Road to better facilitate right-turn movements that are critical to the effective functioning of the interchange;
- The western service road which will link the Caloundra Road interchange with the Aussie World precinct and extend through to the Sunshine Motorway interchange;
- A grade-separated interchange at the intersection of the Bruce Highway, the Sunshine Motorway and the new western service road and to provide improved efficiency for all movements, reduce queuing and delays, and increase road safety by eliminating high speed atgrade intersections.
- A southbound off-ramp at Pignata Road to provide access to the Aussie World precinct and the local road network;
- Replacement and upgrades of existing drainage structures (bridges and culverts) on the Bruce Highway to maintain the existing surface water hydrological and hydraulic characteristics of the area; and
- Fauna passage structures, including an underpass, fauna fencing, a rope ladder and fauna escape structures for animals trapped on the Bruce Highway.

Figure 1 provides the CR2SM design layout as an overview of the project area.

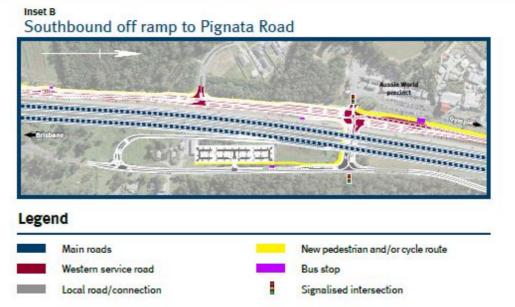
Bruce Highway Upgrade — Caloundra Road to Sunshine Motorway

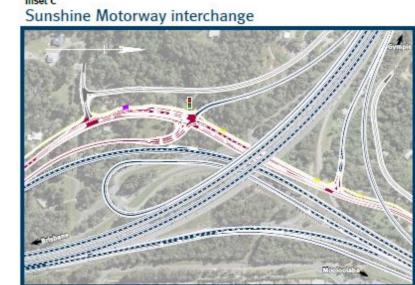
design layout

May 2017











For a closer look at the Bruce Highway Upgrade design layout, visit www.tmr.qld.gov.au/brucehwycaloundra2sunshinemwy



Figure 1: Bruce Highway Upgrade - Caloundra Road to Sunshine Motorway Design Layout

2.3 Project Progress

Bulk earthworks are ongoing with fill approaching final design levels in some areas. Traffic switches have been completed, a summary update is provided:

- The northbound traffic has been switched onto the new Bridge 52 over the Sunshine Motorway at Tanawha overnight on 27 November 2019.
- The new Diverging Diamond Interchange (DDI) new Exit 188B from the Bruce Highway to Landsborough opened overnight on 27 November 2019. All east and westbound traffic switched onto both bridges overnight on 3 December 2019. A media event was held to mark this milestone was attended by Minister for Transport and Main Roads Mark Bailey on 5 December 2019. Please note that the interchange is far from complete and will not be fully functional until later in 2020, construction conditions permitting.
- The temporary switch of northbound Bruce Highway traffic onto a section of the new southbound carriageway through the floodplain occurred on 13 December 2019. This will enable works on the new northbound lanes of the highway, and the western service road, to commence.
- A controlled blast at the northern rock cutting at Tanawha occurred on 10 December 2019 to allow for construction of the new southbound Exit 194 from the Bruce Highway to the Sunshine Motorway.

Structure work for bridges and drainage are ongoing. Several culverts have been constructed, bridge piers are in place, and fauna movement structures are under construction.

Vegetation clearing at the site is near completion (90%), with small pockets remaining within the centre median areas. The project has continually demonstrated a proactive and innovative approach to managing exposed areas across the site, including dispersive and acid sulfate soils (ASS), as well as contaminated land and waters to protect sensitive downstream environments. This included the strategic planning of temporary instream works during construction of 11 major bridges that span over sensitive waterways.

The installation of approximately 22 formal basins, of these 8 are High Efficiency Sediment (HES) basins and 5 retrofitted traditional sediment basins have also been installed across the site, to not only remove sediment but also remove contaminants such as E.coli from upstream sources. A 24 hour/per day system for treating water was devised by combining multiple sub-catchments throughout the site and retrofitting several traditional type D sediment basins to include solar powered in-line dosing units. This provided significant cost savings, minimised environmental and legislative risk and optimised return to work timeframes after large rain events.

The project team have implemented a progressive and staged landscaping program (rehabilitation and planting) in completed areas across the project site. To date, 208 trees and 18,430m² of plants have been installed at the site.

Two of the project's environmental offset sites have been purchased with voluntary declarations in place, and one property legally secured under a Conservation Agreement from the Commonwealth with the Department of Natural Resources, Mines and energy (NRME), TMR and SCC as parties to the agreement. Rehabilitation and maintenance of the properties are ongoing.

2.4 Approval History

The date of the EPBC Approval, and the compliance reporting dates and status of the Annual Compliance Reports are provided in Tables 1 and 2.

Table 1: Relevant Dates for EPBC Approval

Approval Number	Date of Decision	Expiry Date
EPBC 2015/7464	2 September 2016	31 December 2026

Table 2: Chronology of Compliance Reports

Reporting Dates	Report No.	Status
December 2016 – December 2017	01	Completed
December 2017 – December 2018	02	Completed
December 2018 – December 2019	03	Completed (this report)

3. EPBC Condition Compliance

Table 3 provides an overview of the conditions and compliance status. Where additional information is required, reference has been made to relevant sections of this report for further evidence of compliance.

Table 3: Summary of Compliance with EPBC Act Approval Conditions

No.	Condition	Timeframe	Status	Evidence of Compliance
1	For the protection of the EPBC Act listed vulnerable Koala (Phascolarctos cinereus) and Lowland rainforest of subtropical Australia Threatened Ecological Community the approval holder must implement the "Overarching Environmental Management Plan" while undertaking the proposed action.	Progressive - for the period of construction.	Ongoing.	An Environmental Management Plan (Planning) was prepared to communicate the EPBC compliance requirements applicable to the project during the development and implementation phases. The Contractor operates under an Environmental Management Plan for Construction (EMP-C) which has undergone a document revision process by TMR. The EMP-C reflects the mitigation measures outlined in the Overarching Environmental Management Plan (OEMP), as well as control strategies and commitments to account for any issues and requirements identified in the Project Scope of Works and Technical Criteria (SWTC), presented in a format that is suitable for use by on-ground personnel. The Contractor provides monthly environmental reports demonstrating compliance with the EMP-C, which reflects the requirements of the OEMP and SWTC. This demonstration of compliance is achieved through monthly internal and third-party audits and reporting, which includes the subset of compliance and reporting deliverables noted within the OEMP. Refer to Section 4.1 'for additional information pertaining to Condition 1 compliance.
2	For the protection of the EPBC Act listed critically endangered Lowland Rainforest of Subtropical Australia (LRSA) the approval holder must: (a) Not disturb more than 3.92ha of the LRSA Threatened Ecological Community (TEC) within and adjacent to the project site;	(a) For the construction period.	(a) Commenced and tracking.	(a) At the time of the reporting period, a total of 12,834.51m² (1.28ha) of TEC has been cleared as part of the project works (within the project site), in compliance with Condition 2(a). Progressive quantities for cleared areas are reviewed and provided in the Contractors monthly environmental progress reports.

No.	Condition	Timeframe	Status	Evidence of Compliance
	(b) Legally secure and implement the offset of 16.64ha at the location shown and ensure that by the tenth anniversary of commencement of action, the offset meets the following condition thresholds:	(b) By the tenth anniversary of commencement action	(b) Compliant	Refer to Appendix B for a map of the project Threatened Ecological Community, and Appendix C for as-built diagrams of areas cleared to date.
	 i. Canopy cover: at least 70% of canopy vegetation is native; ii. Species richness: contains 30 native woody species from the LRSA TEC listing advice; and iii. Total vegetation: At least 70% of total vegetation cover is native. (c) Legally secure and implement the offset of 4.65ha at the location shown by the first 12-month anniversary of the commencement of the action. 	(b)(ii) (b)(iii) (c) By the first 12-month anniversary of commencement.	(b)(i) Compliant (b)(ii) Compliant (b)(iii) In progress (c) Compliant	 (b) Lot 37 C3147, Lot 1 SP300404, and Lot 2 RP27760 have been legally secured. The implementation of offset actions relevant to Section (b) are currently works in progress. Local Government (Sunshine Coast Council) has been engaged to undertake management of the site to meet the condition thresholds. (b)(i) Data was collected from transects during the third quarter 2019 for this Year 3 Report, Refer to Section 4.2. (b)(ii) Flora Assessment undertaken. Eco 9 Pty. Ltd. 2011. "Lower Mooloolah River Environmental Reserve, Claymore Road, Sippy Downs". This report has identified 61 native woody species from the Lowland Rainforest of Subtropical Australia threatened ecological community listing advice. (b)(iii) Data was collected from transects during the third quarter 2019 for this Year 3 Report, Refer further to Section 4.2. Refer to Appendix D for map of Lower Mooloolah River Environmental Reserve. (c) Lot 2 SP268457 has been legally secured by TMR. The implementation of offset actions relevant to Section (c) are currently works in progress. The management actions relevant to

No.	Condition	Timeframe	Status	Evidence of Compliance
				these conditions are being undertaken by the engaged offset contractor. Refer to Appendix E for map of Mooloolah Valley property. Refer to Section 4.2 'for additional information pertaining to Condition 2.
3	For the protection of the EPBC Act listed vulnerable Koala (<i>Phascolarctos cinereus</i>) the approval holder must: (a) Not disturb more than 35.3ha of Koala habitat within the Project site; (b) Implement the five Koala movement structures (Koala friendly underpasses) within the Project site, namely: i. One new structure to facilitate Koala movement across Steve Irwin Way; ii. One new structure to facilitate Koala movement across the Bruce Highway south of the Mooloolah River; iii. One new structure to facilitate Koala movement across the Bruce Highway north of Sippy Creek; iv. Improve the existing structure at Sippy Creek to facilitate Koala movement across the Bruce Highway; and v. Improve the existing structure at Mooloolah River to facilitate Koala movement across the Bruce Highway.	construction period. (b) Design and Implementation phase. (c) By the first 12-month anniversary of commencement.	(a) Commenced and tracking.(b) Construction commenced(c) Completed	 (a) The definition of Koala habitat in the approval refers only to "high" and "medium" Koala habitat. Accordingly, the total Koala habitat cleared within the reporting period was recorded as 184,529m² (18.45ha), compliant with Condition 3(a). The total for Non-Juvenile Koala Habitat (NJKH) floral species cleared within the reporting period was recorded as 3,266 individuals. (b) (i-v) Koala movement structures have been incorporated into the design drawings for the road furniture and landscaping. The construction of fauna movement structures (including fauna underpasses, refuge poles, fauna ledges under bridge structures, logs and rock, etc) have commenced, the status of each of the five koala movement structures are further discussed in Section 4.3.2. (c) The 50ha offset, Lot 2 RP51879 at Missing Link Road, Glenview has been legally secured by TMR. Refer to Appendix F or map of Glenview property. Refer to Section 4.3 for additional information pertaining to Condition 3.

No.	Condition	Timeframe	Status	Evidence of Compliance
	(c) Legally secure and implement the offset of 50ha at the location shown by the first 12-month anniversary of the commencement of the action.			
4	Within 10 days of the commencement of the action, the approval holder must advise the Department in writing of the actual date of commencement of the action.	Within 10 days of commencement of construction.	Completed	A letter was submitted to the Department on 23 December 2016 to formally notify of the commencement of works. Refer to Appendix G for this notice.
5	The approval holder must maintain accurate records substantiating all activities associated with or relevant to the conditions of approval and make them available upon request to the Department.	Progressive.	Ongoing	All records associated with this condition are maintained and updated on a regular basis.
	Such records may be subject to audit by the Department or an independent auditor in accordance with Section 458 of the EPBC Act or used to verify compliance with the conditions of approval. Summaries of audits will be posted on the Department's website. The results of audits must also be published on the approval holder's website within two weeks of the Department's approval of the final audit.			
6	Within three months of every 12-month anniversary of the commencement of the action, the approval holder must publish a report on their website addressing compliance with each of the conditions of this approval over the previous 12 months. Documentary evidence providing proof of the date of publication and non-compliance with any of the conditions of this approval must be provided to the Department at the same time as the compliance report is published.	For the period of construction. The compliance report must be published within three months of every 12-month anniversary.	Compliant Third compliance report complete (this report). Second compliance report completed. Minor Non- Compliance The first compliance report was published	This report provides the third compliance report. This report will be published on the TMR website concurrently with submission to the Department, satisfying this condition of approval. The relevant documentary evidence will be provided to DoAWE at the time of publication.

No.	Condition	Timeframe	Status	Evidence of Compliance
			on TMR project website October 2018, which was not within the reporting period. DoEE was notified of this non-compliance.	
7	Upon direction of the Minister, the person taking the action must ensure that an independent audit of compliance with the conditions of approval is conducted and a report submitted to the Minister. The independent auditor must be approved by the Minister prior to the commencement of the audit. Audit criteria must be agreed to by the Minister and the audit report must address the criteria to the satisfaction of the Minister.	_	To date, there has been no direction from the Minister to complete an independent audit.	Not applicable.
8	Condition 6 ceases to apply once the approval holder has demonstrated to the satisfaction of the Minister that all conditions have been achieved.	-	Not currently applicable.	Not currently applicable.

4. **OEMP Conditions Compliance**

4.1 EPBC Condition 1

For the protection of the EPBC Act listed vulnerable Koala (Phascolarctos cinereus) and Lowland rainforest of subtropical Australia Threatened Ecological Community the approval holder must implement the Overarching Environmental Management Plan while undertaking the proposed action.

The Contractor has developed an Environmental Management Plan for the construction phase of the project (EMP-C) which reflects the mitigation measures outlined in the Over-arching Environmental Management Plan (OEMP). Sub-plans have also been developed to support the EMP-C which are implemented as part of the construction and operations phase. These sub-plans consist of the following:

- Vegetation Management Plan;
- Species Management Plan;
- · Fauna Management Plan;
- Overarching Erosion and Sediment Control Management Plan;
- Weed, Pest and Disease Management Plan;
- Water Quality Management Plan;
- Cultural Heritage Plan;
- Noise and Vibration Management Plan;
- Air Quality Management Plan;
- Soils Management Plan;
- Acid Sulphate Soil and Contaminated Land Management Plan;
- · Waste Management Plan;
- Hazardous Substances Management Plan; and
- Greenhouse Gases Management Plan.

The above sub-plans are used to define the construction controls required to ensure each potential aspect and impact identified is eliminated, reduced or appropriately mitigated. The sub-plans have been developed to meet requirements of the EPBC approval. For example:

- "Loss of habitat" is being minimised through the establishment of exclusion zones, reducing the clearing footprint through changes in design, and delivery of vegetation offsets.
- "Injury or mortality to fauna" is being minimised through the continual engagement of suitably
 qualified fauna spotter-catchers during clearing operations, specialised ecologists for
 conducting pre-clearance surveys of potential frog habitat areas, and provision of fauna
 furniture and crossings through design.
- "Habitat degradation" is being minimised through implementation of the various management measures included within the Water Quality Management Plan, Waste Management Plan, Weed Pest and Disease Management Plan etc and by enhancing habitat through fauna features incorporated in the design.

Management measures of the sub-plans are monitored through daily inspections, supervision during vegetation clearing and accompanying fauna spotter-catcher reports, monitoring of water quality, erosion and sediment control performance, weeds/pests etc. Internal and external audit checks are

undertaken to review compliance and a compliance tracking register is maintained by the Contractor. Where compliance has not been achieved, a non-conformance report is raised by the Contractor and reported to the Administrator. This process includes identification of the cause and reasonings for non-conformances as well as corrective and preventative actions.

For this reporting period four non-conformances against the OEMP were identified, refer to **Appendix H** which provides details of the items that were found to be non-conforming and actions on how the non-conformances will be corrected and addressed. Notification of the non-conformances was provided to DoEE via email on 13 December 2019, by the Contractor.

Erosion and sediment controls (ESC) are continually reviewed for effectiveness onsite and amendments are communicated through revised ESC plans (red pen mark-ups) and distributed to relevant site personnel. The ESCs are also maintained following rainfall events. The project notifies the Department of Environment and Science (DES) when rainfall received onsite exceeds the ESC design threshold. In the reporting period, a monthly average of approximately 109mm of rain was received during the 12-month period, with the highest rainfall occurring in March 2019 where the project received 366mm.

DES Compliance Officers have visited and undertook site inspections on two occasions during this reporting period, the department provided inspection letters which report the department considers "that erosion and sediment control management of the site continues to be of a high standard". This provides confidences that the ESC implemented across the site is representative of industry best practice and the planning and execution of ESC is of high standard.

Furthermore, with respects to the specific management of Giant Barred Frog (GBF) the following is undertaken (but now limited to):

- Construction within suitable habitat is avoided, where possible, following rain if water is still
 present onsite;
- Qualified ecologists conduct surveys of potentially suitable habitat during the nights prior to clearing;
- Fauna spotter-catchers capture and relocate individuals, tadpoles and egg masses to similar habitat if detected; and
- Any frogs observed or relocated are recorded and reported to the Administrator.
- Monitoring of GBF and other frog species is also undertaken to gain an undertaking of the habitat locations within and surrounding the project site.

A summary of frog monitoring is provided:

At the commencement of this project, a total of sixteen distinct frog habitat areas were identified to provide known and potential habitat for several threatened frog species. Those confirmed species were the GBF, the wallum froglet and the tusked frog. Species considered potential to occur were the wallum sedgefrog and the wallum rocketfrog.

The project has undertaken three years of monitoring surveys. During these survey's threatened frog species have been confirmed at eight of the sixteen habitat sites with a potential species, the wallum rocketfrog now being confirmed to occur within the project at one site. Additional sites where other threatened species have been confirmed were wallum froglet, tusked frogs, and wallum froglet.

In addition to the monitoring surveys and project approval conditions, detailed mitigation measures have been implemented in relation to the management of clearing in areas of known or potential frog habitat. These measures have required pre-clear surveys at specified times prior to the commencement of vegetation and undertaking inspection of known and potential frog habitat immediately prior to, and during actual clearing.

One of the most sensitive areas of habitat within the project is at and surrounding the Mooloolah River, this monitoring site was confirmed habitat for the endangered GBF. In addition to the standard preclear surveys, hand clearing of vegetation was undertaken at the site prior to conventional clearing

with machine. Hand clearing involved removing all leaf litter and other potential microhabitat that could be used as refuge by the giant barred frog. The implementation of these measures has to date resulted in no deaths or injuries to this species, it also enabled the successful capture and relocation of an adult giant barred frog carried out in 2017.

A fourth year of monitoring survey commenced in late 2019 and likely to be completed in early 2020 following sufficient rainfall to trigger the surveys.

The management measures implement for the project is considered to be meeting the intent of the OEMP and other project approval conditions and ensuring the protection of frog species.

4.2 Condition 2

4.2.1 Condition 2(a)

Not disturb more than 3.92ha of the Lowland Rainforest of Subtropical Australia Threatened Ecological Community within and adjacent to the project site.

Per Table 3 above, the project has cleared 12,834.51m2 (1.28ha) of Threatened Ecological Community (TEC). The project team continue to manage and monitor the clearing limits of the project footprint.

The project is compliant with this condition. Progressive quantities for cleared areas are reviewed and provided in the Contractors monthly environmental progress reports.

Refer to **Appendix C** for as-built diagrams of areas cleared to date.

4.2.2 BioCondition Assessment Mooloolah River

A BioCondition Assessment was undertaken within the TEC (patch 1 area) prior to construction (2016) and during the construction phase (January 2019). These survey findings were provided in the Year 2 annual compliance report. A subsequent BioCondition Assessment will be undertaken post construction works.

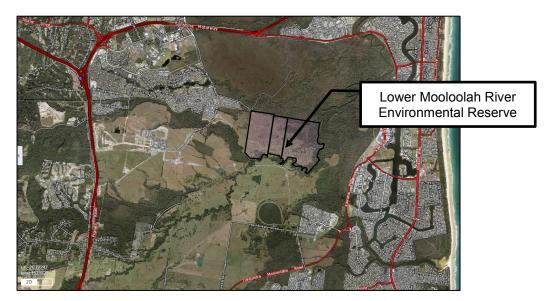
The TEC areas adjacent to the project works will continue to be monitored as per condition requirements.

4.2.3 Condition 2(b)

Legally secure and implement the offset of 16.64ha at the location shown and ensure that by the tenth anniversary of commencement of action, the offset meets the following condition thresholds.

- i. Canopy cover at least 70% of canopy vegetation is native;
- ii. Species richness contains 30 native woody species from the LRSA TEC listing advice;
- iii. Total vegetation at least 70% of total vegetation cover is native".

An Offset Management Plan (OMP) has been developed by DTMR to demonstrate the objectives of the EPBC Act Environmental Offsets Policy in compensating for impacts on the Lowland Rainforest of Subtropical Australia (LRSA) Threatened Ecological Community (TEC). The impacts on this TEC will result from works associated with the Project.



The scope of the OMP is to align specific environmental revegetation, regeneration, rehabilitation and protection measures for vegetation that occurs in a portion of the LMRE Reserve at Laxton Road, Palmview. These activities will deliver TMR's offset obligations under the EPBC Act, yielding an overall conservation outcome for the LRSA TEC.

An agreement between Sunshine Coast Council (SCC) and the Department of Transport and Main Roads (DTMR) to deliver and manage the Mooloolah River Rainforest Offset Project was signed on 1st June 2017. The agreement will comply with and meet the EPBC conditions of approval and is part of the agreement.

A summary of works undertaken for this reporting period is summarised below:

 Ongoing control of weed and exotic grass across entire 16.64 hectare offset area around naturally regenerating species as a key component to assisted natural regeneration. Ongoing maintenance of weeds along the edge of the remnant area (Lantana, Broadleaved pepper tree, Mile-a-minute, Singapore daisy in particular). Greater than 98% of weeds on the rainforest edges have been controlled. The ongoing maintenance will ensure close to 100% weed control along the remnant edge.

Weed density in the remnant rainforest has been reported as is almost negligible. Weed density in the reconstruction zones has reported to have been reduced from approximately 80% down to less than 10%.

Weed control activities and reinforcement plantings have resulted in almost 100% of canopy vegetation being native, significantly more than 30 different native woody LSRA TEC species, and significantly greater than 70% total vegetation cover being native in these zones.

In total, 578 replacement tubestock were installed during past 12 months to ensure original planting numbers are maintained.

The Biocondition monitoring was undertaken at the six established transects locations across
the offset area. The established Transects 1 and 2 were established within high quality LRSA
remnant and will provide a direct comparison across all attributes monitored with Transects 3
to 6, that were established within the reconstruction zones and transitional zone.

T1 vegetation is a very good representation of RE 12.3.1 and is in excellent condition. The canopy cover is 100% native.

T2 vegetation is a very good representation of RE 12.3.1 and is in excellent condition. Canopy cover, canopy height, and non-native cover all equivalent to BioCondition Assessment sites within remnant. The canopy cover is 100% native.

Transects T3, T4 and T5 are located within a reconstruction zone of the offset area and as such is representative of the areas where exotic pasture grasses previously dominated. Additional reconstruction planting occurred throughout these zones as part of Stage 2 planting. Natural recruitment is responsible for 10%, 17% and 5% within T3, T4 and T5 (respectively) of the native stem count for the transects, with the balance attributed to successful native tubestock installation during Stage 1 and Stage 2 reconstruction plantings. The vegetation assemblage at these transects continues on a positive trajectory towards a representation of LRSA. The canopy cover at the transects were reported as being T3 100% native and 8% non-native cover recorded, T4 100% native and 9% non-native cover recorded, and T5 100% native and 3% non-native cover recorded.

T6 is located within a transitional zone of the offset area where elements of RE12.3.5 and RE 12.3.1 occur. Eucalypt, Allocasuarina and Melaleuca emergents exist as well as lower and mid-storey rainforest species and native shade-tolerant grasses. Reinforcement planting occurred throughout this zone as part of Stage 1 and Stage 2 plantings. As expected, natural recruitment is significantly higher in this zone than in the reconstruction zones. Natural recruitment is responsible for 23% of the native stem count for this transect with the balance directly attributed to successful native tubestock installation during the Stage 1 and Stage 2 reinforcement plantings. The vegetation assemblage at T6 is on a positive trajectory towards a representation of LRSA.

 The SCC Pest Management Team have removed the monitoring cameras during this reporting period due to the very low numbers of wild dog activity.

The following upcoming activities are scheduled to occur over the following twelve months:

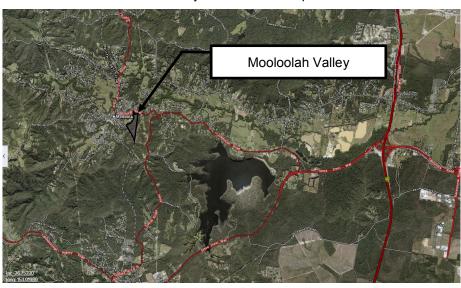
- Ongoing monitoring and weed control throughout the rainforest remnant;
- Ongoing monitoring and data collection;
- Ongoing general maintenance works as required by the OMP and the SCC technical specification; and
- Removal of tree guards as necessary.

Refer to **Appendix D** for location.

4.2.4 Condition 2(c)

Legally secure and implement the offset of 4.65ha at the location shown by the first 12-month anniversary of the commencement of the action.

TMR has purchased Lot 2 RP268457 (28 Mooloolah Road, Mooloolah Valley, Sunshine Coast) in Freehold in 2016 and a Voluntary Declaration is in place.



An Offset Management Plan (OMP) has been prepared and aims to protect and maintain in perpetuity 5.02ha of Lowland Rainforest of Subtropical Australia and manage to remnant status approximately 4.5ha of high value regrowth as a land-based offset for clearing works associated with the Project works

The OMP details key risks and management actions and provides support for a Voluntary Declaration under the *Vegetation Management Act 1999*, and the requirements of the approval under the EPBC Act for the Project.

The primary management objective for the site is to conserve and improve the value of the area for the Lowland Rainforest of Subtropical Australia (LRSA). The overall management outcome will be to maintain current vegetation structure, composition and diversity, and improve the value of the area through management of high value regrowth. This will increase the total area of LRSA, and buffer core LRSA against weed invasion and fire.

TMR has engaged a separate Contractor to deliver the works required under the OMP and to meet the EPBC conditions of approval as part of the agreement. The purpose of the OMP and works is to protect and maintain in perpetuity 5.02ha of LRSA and manage to remnant status.

A summary of works undertaken for this reporting period is summarised below:

• Weed control activities continued during the reporting period. Initial works focused on the control of exotic species beneath intact canopy as well as creating space along the edge of native vegetation to assist facilitating recruitment in these areas as well as access in and around the site. Woody weeds such as lantana (Lantana camara), Easter cassia (Senna pendula var. glabrata), Alexandra palm (Archontophoenix alexandrae), Cocos palm (Syagrus romanzoffiana), broad-leaf pepper tree (Schinus terebinthifolius), large leaf privet (Ligustrum lucidum), small leaf privet (Ligustrum sinense), orange jessamine (Murraya paniculata), yellow bells (Tecoma stans) and wild tobacco (Solanum mauritianum) were reported as being controlled.

Many of the areas across the site had reported to have heavy infestations of exotic vines such as Madeira vine (*Anredera cordifolia*), blue morning glory (*Ipomoea indica*), edible passionfruit (*Passiflora edulis*), mile-a-minute (*Ipomoea cairica*) and climbing nightshade (*Solanum seaforthianum*). Due to their high growth rates, these vines have the capability to smother native vegetation and, in some instances, cause the collapse of forest structure and ultimately the ecosystem. The systematic control of these species not only improved the conditions on site, but also assisted limiting the future spread of these weeds downstream along the South Mooloolah River by eliminating a significant source of weed seeds and propagules.

- A significant decrease in weed cover across the site was reported. Large areas of woody
 weeds, particularly lantana and large leaf privet, and vines such as Madeira vine, blue morning
 glory and mile a minute have been controlled. This has created space and conditions that is
 facilitating the recovery native vegetation.
 - Many species of native plants have been observed germinating, reshooting and expanding, following initial restoration activities.
- BioCondition monitoring at 6 transects were undertaken and compared to the baseline data.
 The results showed all BioConditon plots to have shown improvements to native vegetation and their functional biodiversity.
 - It was reported of significant improvements being observed in tree canopy cover, shrub layer cover, coarse woody debris, native plant species richness, non-native plant cover and organic litter cover. This trend was generally observed through all plots, largely as a result of weed control creating space and providing access to additional light, moisture and nutrients for native species to germinate and / or recover. However, weed control is also likely to account for some increases in organic litter cover as larger weed trees that have been controlled (i.e. stem injected) drop their leaves.

The number of large trees counted in some plot areas did increase. This was due to the vastly improved access across the plots following weed control which allowed for a more accurate width to be taken from the transect centre line.

Native perennial grass was observed in one of the sub-plots during the baseline surveys, and while native grasses were observed across the site, none were observed in the sub-plot during the November 2019 monitoring event which accounts for this change in results.

There are no reported non-conformances this reporting period.

Refer to **Appendix E** for location of the offset site.

4.2.4.1 Richmond Birdwing Butterfly Vine (*Pararistlochia praevenosa*)

In the preliminary stages of the project design, a conservative approach was taken to include the entirety of the project footprint as the clearing impact area. The clearing area identified the removal of *Pararistlochia praevenosa* (Richmond birdwing butterfly vine), and as such TMR commenced the propagation of *Pararistlochia praevenosa* (Richmond birdwing butterfly vine) with anticipation of the removal of this species and to meet State approval conditions.

As the project design evolved, the area of vegetation clearing required for the project was significantly reduced and as a result did not require the removal of the identified *Pararistlochia praevenosa*.

As TMR commenced the salvage, propagation, and growing of 50 *P. praevenosa*, a commitment to continue with the growing and translocation to the Mooloolah Valley offset site will occur.

The propagated *Pararistlochia praevenosa* (Richmond birdwing butterfly vine) plants will be planted at the Mooloolah offset site once site conditions are favourable to the vines.

It has also been reported that P. praevenosa is naturally growing at this offset site.

4.3 Condition 3

4.3.1 Condition 3(a)

Not disturb more than 35.3ha of Koala habitat within the project site.

The definition of Koala habitat in the approval refers only to "high" and "medium" Koala habitat. Accordingly, the total Koala habitat cleared to date is 186,428.01m² or 18.6ha, in compliance with Condition 3(a). The total for Non-Juvenile Koala Habitat (NJKH) floral species cleared to date is 3,266 individuals. An additional 16.7ha of Koala habitat area is approved to be removed if required, however, it is not anticipated that this will be cleared in full. Reduction of this value will be considered with any design or other change where possible.

4.3.2 Condition 3(b)

Implement five kola movement structures (koala friendly underpasses) within the project area.

Five Koala movement structures have been incorporated into the project design drawings for road fauna furniture. These works are in progress. The update and status of the fauna structures are as follows:

- Steve Irwin Way fauna passage (CU-04-01) is approximately 50% complete, with remaining works to be completed once the traffic switch has occurred. **No change, waiting for switch**.
- Southern fauna passage (CU-02-02) is approximately 20% complete, with remaining works to be completed once the traffic switch has occurred. **No change, waiting for switch**.
- Northern fauna passage (CU-17-03) is approximately 70% complete, with remaining works to be completed once the traffic switch has occurred. **No change, waiting for switch.**

- Mooloolah River fauna crossing improvement works are approximately 70% complete. The
 fauna furniture is fully installed in the southern section of the Mooloolah River bridges and the
 fauna furniture beneath the bridges are being installed progressively in areas of completed
 works.
- Sippy creek fauna crossing improvement (movement) works have not yet commenced.
- Steve Irwin Way rope ladder crossing has not yet commenced. The project team are finalising
 the footprint details of the anchor blocks and approvals with National Parks to minimise
 vegetation impacts.

The fauna structures are scheduled to be completed by 2020.

Additional fauna structures that have commenced installation at the project include:

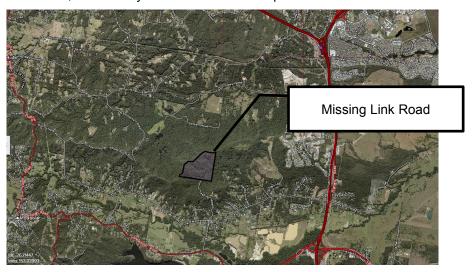
- A koala refuge pole has been installed at Wilson Road.
- Koala resting forks have been installed across the site.
- Large vegetation root balls were salvaged and used for fauna habitat.

Photos of the fauna structures are shown in **Appendix I.**

4.3.3 Condition 3(c)

Legally secure and implement the offset of 50ha by the first 12-month anniversary of the commencement of action.

TMR purchased Lot 2 RP51879 (Missing Link Road, Glenview) in Freehold in 2016 from a private landowner, a Voluntary Declaration is now in place.



An Offset Management Plan (OMP) has been prepared for the property to protect and maintain in perpetuity 50.07ha of Koala habitat as a land-based offset for clearing works associated with the Project. The OMP details key risks management actions, provides support for a Voluntary Declaration under the *Vegetation Management Act 1999* and outlines the requirements for management of Koala habitat offsets.

This 50.07ha offset will provide a net conservation gain over the impacts on Koala habitat of the Project, largely through protection in perpetuity of existing remnant vegetation and improvements to habitat condition through weed and fire management.

TMR has engaged a separate contractor to deliver the requirements of the OMP and offset conditions to enhance Koala habitat characteristics. Activities relevant to the offset site include:

 Koala habitat monitoring – a baseline Koala Survey conducted using Koala Detection Dogs and the Spot Assessment Technique (SAT) and Annual BioCondition plot monitoring;

- Fire management the preparation of a detailed Fire Management Plan (FMP) and onsite fire management including application of controlled burns;
- Weed control implementation of systematic and regular weed control; and
- Reporting annual reports, biannual in the first year.

A summary of works undertaken for this reporting period is summarised below:

- The on-ground weed management has continued at the property with the successful reduction of weed density at the site. Survey results show that reduced weed cover (mainly Lantana) has reduced at five monitoring areas, where cover was reported to be reduced from 5-10% to <1%. Lantana cover is presently < 2% at the monitoring of the areas. It is noted that dry seasonal conditions during the reporting period have contributed to an overall trend of less weed cover as Lantana plants have died back due to the dry conditions.</p>
- Annual bio condition surveys were undertaken in September 2019, which includes the monitoring of six sites, the results reported similar results to the 2018 survey. Five sites continue to fall within the range for BioCondition 1, indicating vegetation in good condition. One site continues to record a score as BioCondition 2, which remains comparatively in poorer condition, as per previous years. An assessment was undertaken for the lower score, this site area has a cohort of smaller canopy tree species present. Following two years of survey, no underlying factors have been reported.
- An annual Koala Spot Assessment Technique (SAT) survey was conducted all seven SAT zones surveyed were confirmed as having koala scat present, similar to the 2018 survey undertaken. A total of 55 different koala scat locations were recorded throughout the survey site, with 32 scats during the systematic surveys and 23 incidental scat detections. The age of scats ranged from moderately fresh (Category 3) to very old (Category 5). Sites achieved an overall activity level of 15.2%.
 - The results of the koala survey concluded that the koala activity use has been maintained at the site when compared to previous results, and that utilisation of the site by koala is widespread.
- Camera monitoring at the site is continuing to assess levels of pest / feral animals. A large amount of fox activity, wild and domestic dog use continues to be recorded.
 - TMR has recently met with Sunshine Coast Council to further discuss the management of the pest animals. Resident notification and trapping are proposed in early 2020.
- A Fire Management Plan has been developed for the site, to support DTMR requirements for ecological purposes including contribution to weed management. A low intensity burn is proposed for 2019 and 2020. This activity will involve creation and maintenance of existing breaks and fire trails including pre-clearance fauna and cultural heritage surveys, hand raking of leaf litter to identify fauna habitat and nesting, and pre and post inspections for koala.
 - No further update to the prescribed fire plan at the property due to the weather conditions and fire ban restrictions during this reporting period.

No project non-conformances have been reported.

Refer to **Appendix F** offset site locality map.

4.4 Condition 5

Condition 5 of the EPBC Act Approval states:

The approval holder must maintain accurate records substantiating all activities associated with or relevant to the conditions of approval and make them available upon request to the Department.

TMR acknowledges this condition. All records pertaining to activities associated with or relevant to the EPBC Act conditions of approval are maintained and updated on a regular basis.

4.4.1 Principal Contractor EMP

The Principal Contractor is required to maintain accurate records of all activities relevant to the conditions of approval in accordance with their Environmental Management Plan (EMP) and associated sub-plans. The Contractors EMP and sub-plans have undergone the process of review and acceptance by the Administrator (TMR). The implementation of the Contractor's EMP and sub-plans, including compliance with required record-keeping, is subject to internal monthly and external quarterly audits. The construction EMP and sub-plans are revised on a six-monthly basis.

4.4.2 Environmental Site Inductions

An environmental site induction is delivered to all project site personnel, contractors and subcontractors prior to commencing work on site. The Principal Contractor is required to maintain an accurate record of all persons inducted on the Project.

4.4.3 Contractor Reporting

In accordance with the conditions of the contract, the Principal Contractor is required to keep records of the following:

- Environment and cultural heritage induction register;
- Monitoring results including air, noise, vibration, water, flora (veg clearing reports, KHT counts), fauna (amphibian monitoring, fauna reports), contamination, weeds and pests;
- Inspection reports, checklists and diary entries;
- Incident and non-conformance reports, complaints register and associated corrective actions taken;
- Compliance testing results;
- Environmental audit reports and subsequent corrective actions taken;
- Biosecurity matter certificates, permits, and management documentation;
- Complete registers kept under the Species Management Program of animal breeding place(s) tampered with and injury/death to native fauna.

The Contractor is required to undertake and document weekly and monthly environmental site inspections for verifying compliance with the EMP, licences, permits and approvals and other environmental performance requirements specified within the Contract.

The Contractor also provides the Administrator monthly progress reports on environmental matters. The monthly reports include records of the total area and individual numbers of TEC and Koala habitat cleared each month.

4.4.4 Environmental Checks

To ensure compliance with the EPBC Act conditions of approval, including measures taken to implement the management plans, the following environmental audits and reviews are undertaken:

- Prior to works commencing on site, the environmental documentation (including the EMP) is revised and accepted by the Administrator prior to use.
- The Contractors updates and revisions to environmental documentation (EMP, sub-plans and Erosion and Sediment Control Plans) are also revised and accepted by the Administrator prior to use.
- Independent quarterly audits and monthly internal audits on the implementation of the Contractor's EMP(C) and compliance of approvals is also undertaken.

4.4.5 Environmental Incident Reporting

As per the conditions of the contract, the Contractor must notify the Administrator immediately of any incidents where actual or potential environmental harm has taken place. The Contractor undertakes a root-cause analysis of the environmental incident and provide the analysis to the Administrator as part of the following environmental monthly progress report.

4.5 Conclusion

The CR2SM Project is well underway with the current focus being predominantly on completion earthworks, bridges, drainage construction and installation, landscaping and fauna structures construction. Minor vegetation clearing is still to occur over the coming months in isolated pockets, however the bulk of clearing and grubbing has been completed throughout the main alignment from south of Caloundra Road to the north along Sunshine Motorway at Sippy Downs. The Project has been found to generally comply with the conditions of the EPBC approval, noting that some of the deliverables are works in progress, such as offset conditions and completion of fauna furniture installation.

Operations were generally compliant with the conditions of the approval during this reporting period. Where non-conformances have been identified (refer to Section 4.1 and Appendix H), corrective actions are currently being put in place to address the non-compliance. The ongoing monitoring of the site works, and documentation/records carried out via the environmental inspections and audits will ensure that any issues identified are addressed promptly in order to maintain the ongoing compliance with the EPBC conditions.

4.6 References

Barung Landcare (2019), NCHD-3402 Quarterly Report – Oct – Dec 2019: Bruce Highway Upgrade – Caloundra Road to Sunshine Motorway.

Department of Transport and Main Roads (2016), Offset Management Plan – Lowland Rainforest of Subtropical Australia: Lower Mooloolah River Environmental Reserve.

Ecosure Pty Ltd (2019), *BioCondition Assessment, Mooloolah River, CR2SM*, prepared for Fulton Hogan Seymour Whyte Joint Venture.

Ecosure Pty Ltd (2019), Mooloolah Valley Offset Year 1 Annual Report

Environtech Solutions, CR2SM Project Independent Environmental Audit September 2019, Rev 2 dated 8 December 2019.

Future-Plus Environmental (2018), *Fire Management Plan*, prepared for Department of Transport and Main Roads.

Future-Plus Environmental (2019), *Glenview Koala Offset Project – Fire and Weed Management Works Report No. 3*, report prepared for Department of Transport and Main Roads.

RPS Australia East Pty Ltd (2016), Bruce Highway Upgrade – Caloundra Road to Sunshine Motorway Project: Threatened Ecological Community Impact Assessment (Lowland Rainforest of Subtropical Australia) EPBC 2015/7464, report prepared for Department of Transport and Main Roads.

Sunshine Coast Council (2018), Annual Report – Year 3 (2018-2019) Lowland Rainforest of Subtropical Australia Threatened Ecological Community offset; Lower Mooloolah River Environmental Reserve, report prepared for Department of Transport and Main Roads.



APPROVAL

BRUCE HIGHWAY UPGRADE, CALOUNDRA ROAD TO SUNSHINE MOTORWAY, QUEENSLAND (EPBC 2015/4764)

Proposed action

person to whom the approval is granted	Department of Transport and Main Roads
proponent's ABN	39 407 690 291
proposed action	To upgrade a 7km section of the Bruce Highway between Caloundra Road to Sunshine Motorway, Queensland (see EPBC referral 2015/7464)

Approval decision

Controlling Provision	Decision
Listed threatened species and communities (sections 18 & 18A)	Approved

Conditions of Approval

This approval is subject to the conditions specified below.

Expiry date of approval

This approval has effect until 31 December 2026

Decision maker

Name and position James Barker

Assistant Secretary

Assessments (Qld, Tas, Vic) and Sea Dumping Branch

Signature

Date of Decision

Conditions attached to the approval

General

1. For protection of the EPBC Act listed koala (*Phascolarctos cinereus*) and Lowland rainforest of subtropical Australia threatened ecological community the approval holder must implement the Overarching Environmental Management Plan while undertaking the proposed action.

Lowland rainforest of subtropical Australia threatened ecological community management

- 2. For the protection of the **EPBC Act** listed critically **endangered rainforest of subtropical Australia** the **approval holder** must:
 - a. Not disturb more than 3.92ha of the Lowland rainforest of subtropical
 Australia threatened ecological community within and adjacent to the project site, as shown in Attachment A;
 - b. Enter into a Conservation Agreement over the offset of 16.64 ha at the location shown in <u>Attachment B</u>, and ensure that by the tenth anniversary of commencement of the action, the offset meets the following condition thresholds:
 - i. Canopy Cover: at least 70 per cent of canopy vegetation is native;
 - ii. Species Richness: contains 30 woody species from the Lowland rainforest of subtropical Australia threatened ecological community listing advice; and
 - iii. Total vegetation: At least 70 per cent of total vegetation cover is native.
 - c. **Legally secure** and implement the offset of 4.65 ha at the location shown in Attachment C by the first 12 month anniversary of the **commencement of the action**.

Koala management

- 3. For the protection of the **EPBC Act** listed vulnerable Koala (*Phascolarctos cinereus*) the **approval holder** must:
 - a. Not disturb more than 35.3 ha of Koala habitat within the project site (<u>Attachment D</u>);
 - b. Implement five koala movement structures (koala friendly underpasses) within the project area, namely:
 - i. One new structure to facilitate movement across Steve Irwin Way;
 - ii. One new structure to facilitate koala movement across the Bruce Highway south of Mooloolah River;
 - iii. One new structure to facilitate koala movement across the Bruce Highway north of Sippy Creek;
 - iv. Improve the existing structure at Sippy Creek (at the location identified in <u>Attachment E</u>) to facilitate koala movement across the Bruce Highway

c. **Legally secure** and implement the offset of 50ha at the location shown in Attachment F by the first 12 month anniversary of the **commencement of action**.

Administrative conditions

- 4. Within 10 days of the **commencement of action**, the **approval holder** must advise the **Department** in writing of the actual date of **commencement of action**.
- 5. The approval holder must maintain accurate records substantiating all activities associated with or relevant to the conditions of approval and make them available upon request to the Department. Such records may be subject to audit by the Department or an independent auditor in accordance with section 458 of the EPBC Act, or used to verify the compliance with the conditions of approval. Summaries of audits will be posted on the Department's website. The results of the audits must also be published on the approval holder's website within two weeks of the Department's approval of the final audit.
- 6. Within three months of every 12 month anniversary of the commencement of the action, the approval holder must publish a report on their website addressing compliance with each of the conditions of this approval over the previous 12 months. Documentary evidence providing proof of the date of publication and non-compliance with any of the conditions of this approval must be provided to the Department at the same time as the compliance report is published.
- 7. Upon the direction of the **Minister**, the person taking the action must ensure that an independent audit of compliance with the conditions of approval is conducted and a report submitted to the **Minister**. The independent auditor must be approved by the **Minister** prior to the commencement of the audit. Audit criteria must be agreed to by the **Minister** and the audit report must address the criteria to the satisfaction of the **Minister**.

Definitions

Approval holder means the person to whom the approval is granted, or any person acting on their behalf, or to whom the approval is transferred under section 145B of the EPBC Act.

Commencement of the action means the disturbance of any vegetation identified as Lowland rainforest of subtropical Australia or Koala habitat, as defined in this approval notice. Commencement of the action includes physical disturbance of this vegetation for any purpose including clearing of vegetation, earthworks, establishment of site offices and fencing, and new road works.

Conservation Agreement means an agreement established under s.305 of the *Environment Protection and Biodiversity Conservation Act 1999*.

Department means the Australian Government Department administering the *Environment Protection and Biodiversity Conservation Act 1999*.

EPBC Act means the Environment Protection and Biodiversity Conservation Act 1999.

Koala habitat means the areas identified as 'high koala habitat values' and 'medium koala habitat values' in <u>Attachment D</u>.

Legally secure means placing on the land title a voluntary declaration under the *Vegetation Management Act 1999* (Qld).

Lowland rainforest of subtropical Australia means the areas identified as 'ground-truthed TEC within the project area' and '50m buffer' in <u>Attachment A</u>.

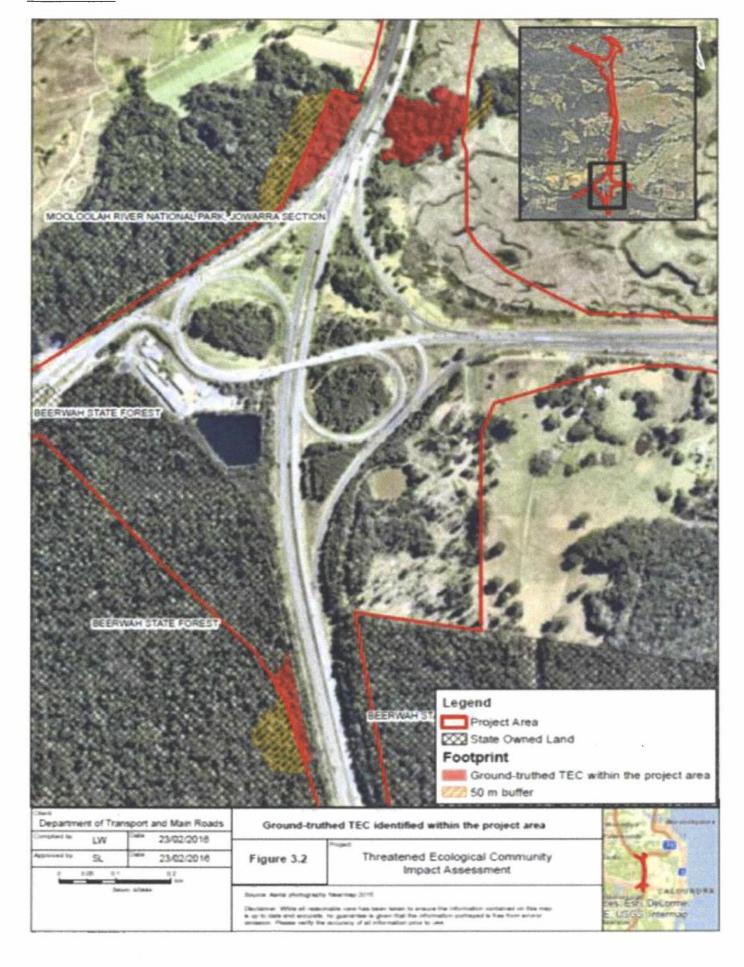
Lowland rainforest of subtropical Australia threatened ecological community listing advice means Appendix A of the TSSC (2011a) Commonwealth Listing Advice on Lowland Rainforest of Subtropical Australia

http://www.environment.gov.au/biodiversity/threatened/communities/pubs/101-listing-advice.pdf

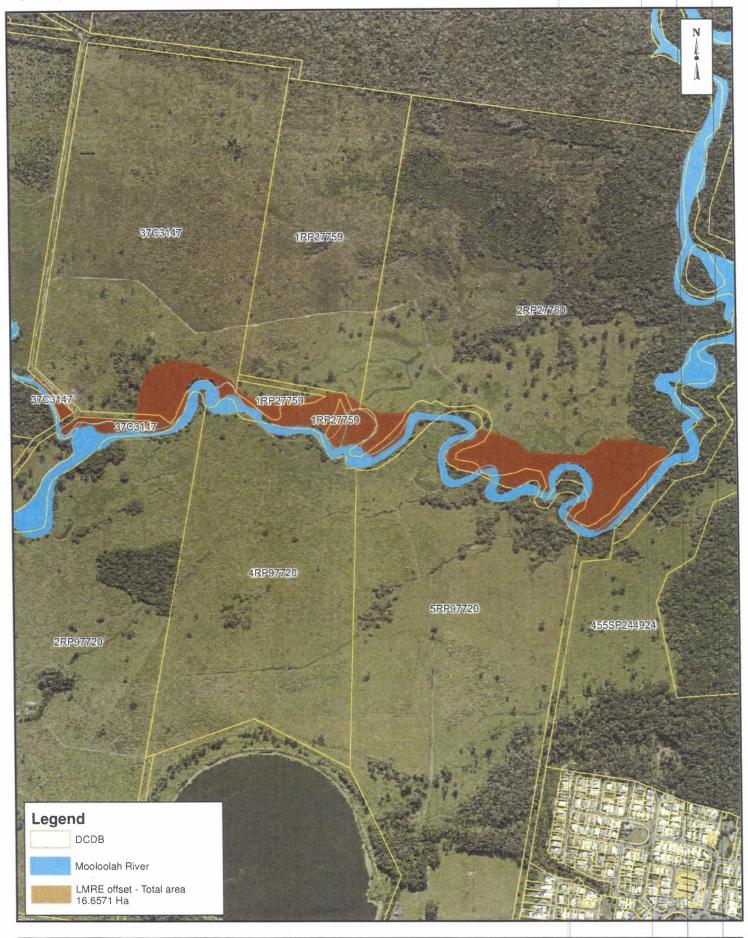
Minister means the Commonwealth **Minister** administering the **EPBC Act** and includes a delegate of the **Minister**.

Overarching Environmental Management Plan means the documents *Bruce Highway Upgrade – Caloundra Road to Sunshine Motorway Project: Overarching Environmental Management Plan*, version 2, Final/March 2016.

Project site means the 'updated referral area (March 2016)' as identified in Attachment G.



AHOUNMENT 5.



Projection/ Map Grid of Australia (MGA) Zone 56, Geocentric Datum of Australia (GDA)

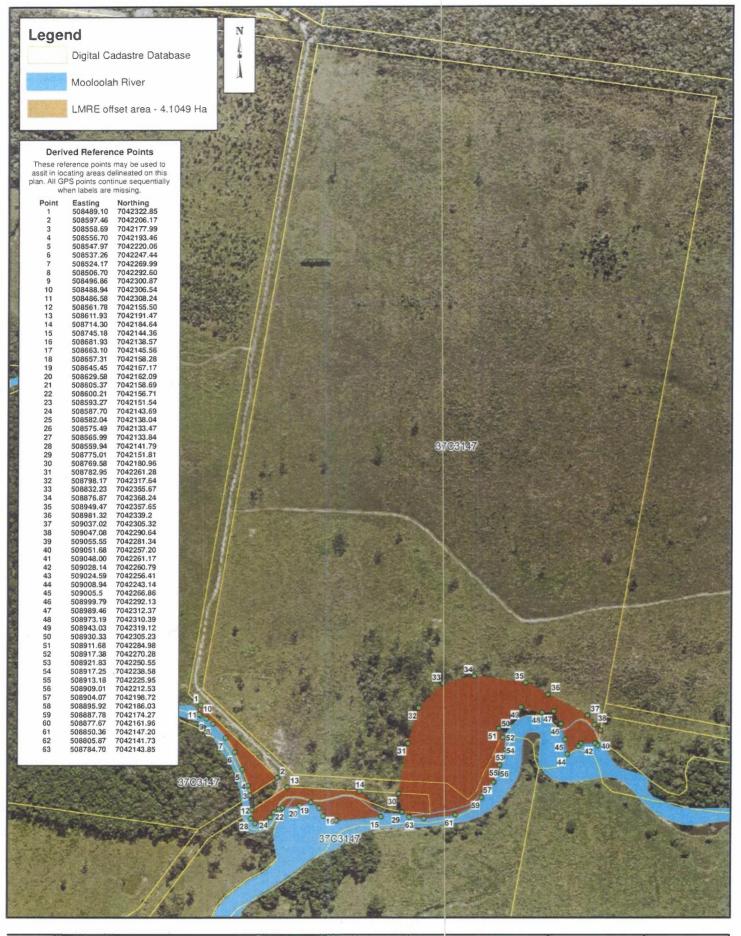
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© The State of Queensland, 2017 © Pliney Bowes Software Pty Ltd, 2017

Disclaimer: While every care is taken to ansure the accuracy of this data, Princy Bowes Sa fluence by Lid andors the State of Gusenniand no representations or warranties about its accuracy, reliability, completeness and the state of the st Mooloolah River Lower Mooloolah River Environment Reserve (LMRE Reserve) Plan No/ ob No: Map1 Dale: 13/03

Drawn by: R Friend
Checked by: S Scott





Map Grid of Australia (MGA) Zone 56, Geocentric Datum of Australia (GDA) 1994 Projection/ Datum :

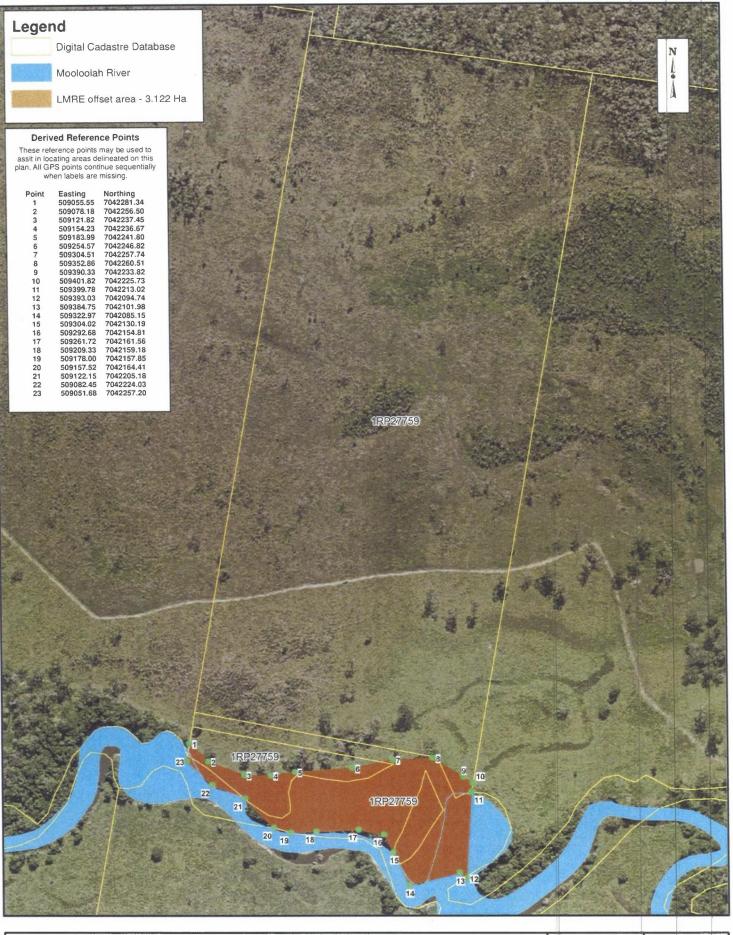
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Mooloolah River Lower Mooloolah River Environment Reserve (LMRE Reserve)

Мар3 Dale: 13/03/2017 Drawn by: R Friend

Checked by: S Scott





Projection/ Map Grid of Australia (MGA) Zone 56, Geocentric Datum of Australia (GDA)
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Mooloolah River Lower Mooloolah River Environment Reserve (LMRE Reserve) Plan No/ Job No: Map3 ssue: A Date:

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R Friend

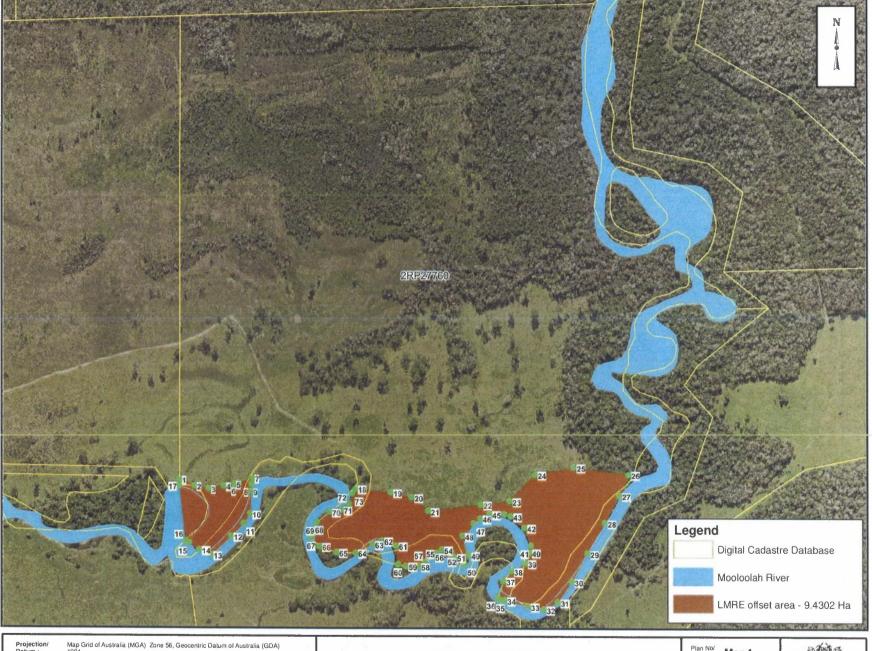
Checked by: S Scott



Derived Reference Points

These reference points may be used to assit in locating areas delineated on this plan. All GPS points continue sequentially when labels are missing.

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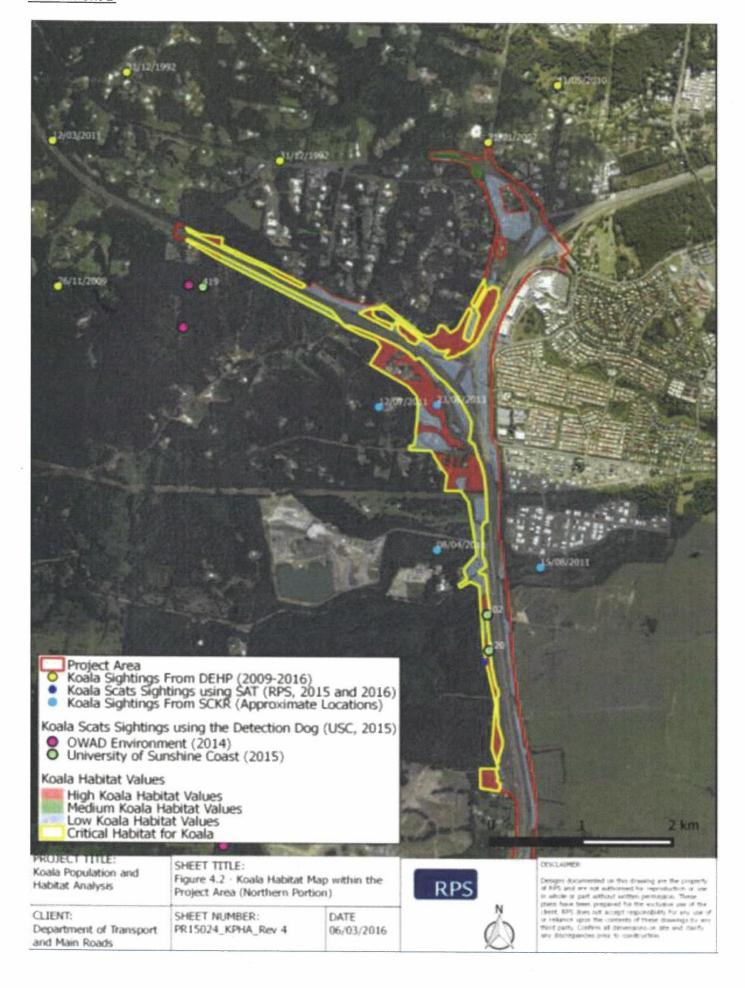
Disclaimer: While every care is taken to ensure the accuracy of this date, Pltney Bowes Software Pty. Ltd and/or the State of Gueensland no representations or warrantes about its accuracy, reliability, completeness or suitability for any particular purpose and disclaims ail responsibility and all liability (including without imitiation, liability in negligence) for all spentes, losses, demages (including indirect or consequential damage) and costs which you might incur as a result of the date being inaccurate or incomplete in any way and for any ceason.

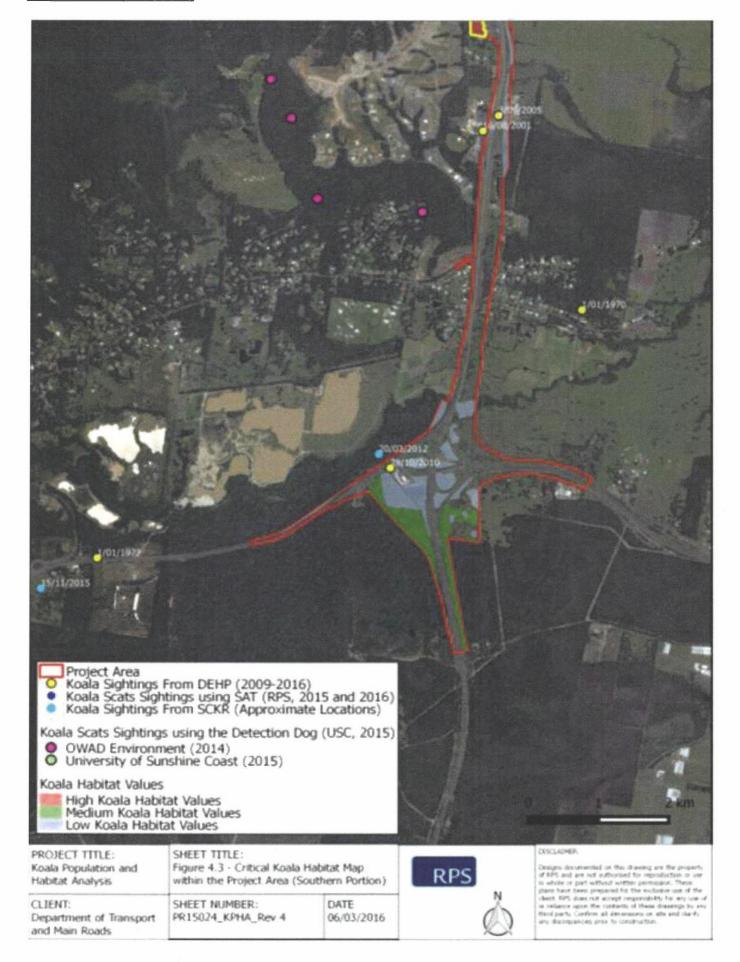
Mooloolah River Lower Mooloolah River Environment Reserve (LMRE Reserve)

Plan No/ Job No:	Map4
Issue: A	Date: 13/03/2017
Drawn by:	O Criand

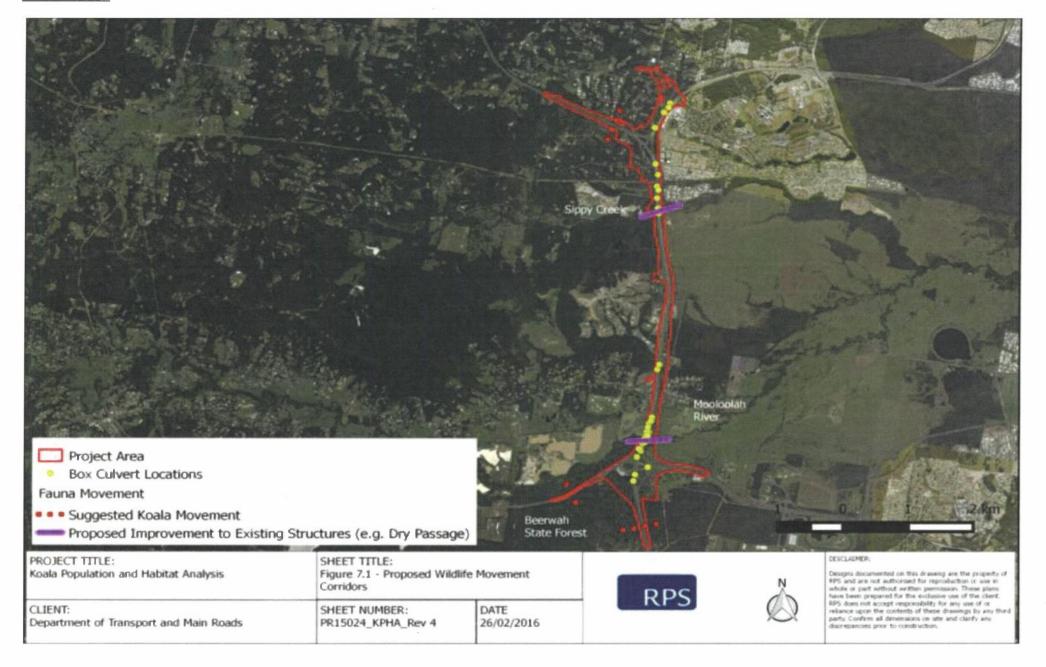
Checked by: S Scott

Queensland Government Lot 2 RP268457 (28 Mooloolah Road, Mooloolah Valley, Sunshine Coast) Mooloolah Valley Identified Property Google earth



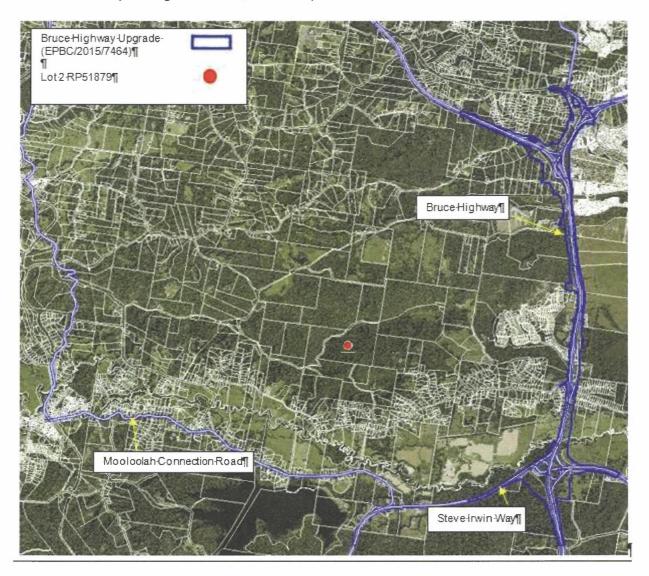


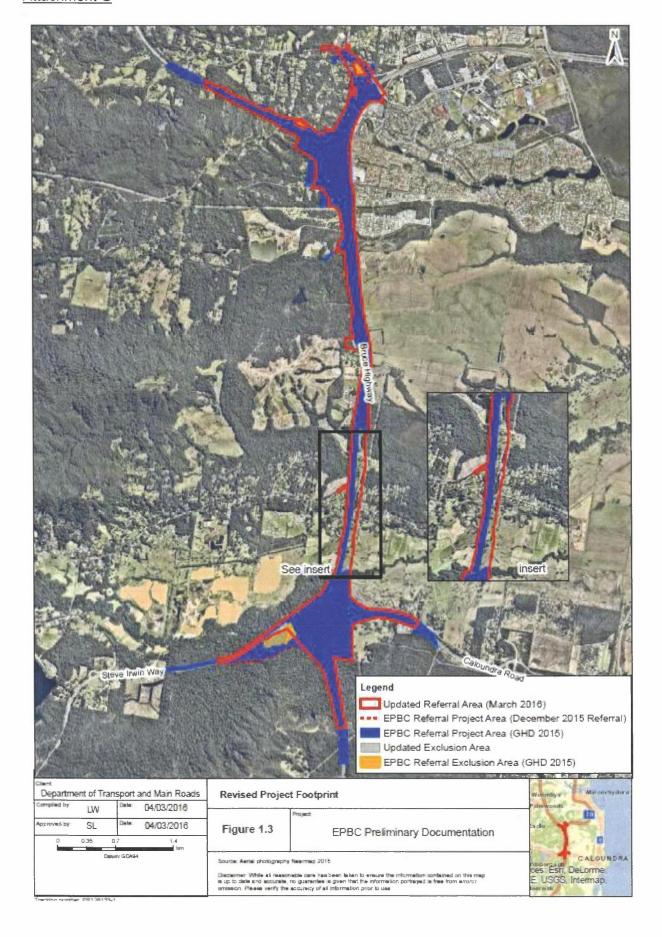
Attachment E



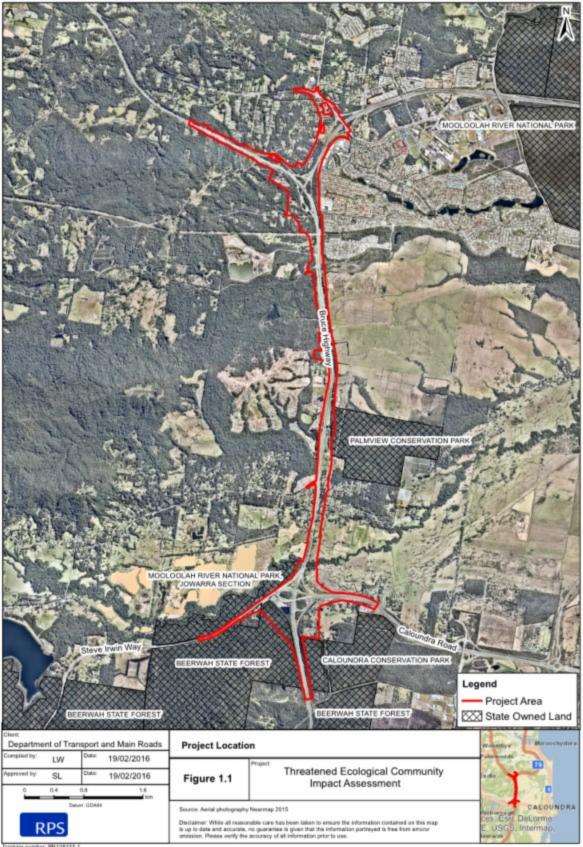
Attachment F

Lot 2 RP51879 (Missing Link Road, Glenview)





Appendix B – CR2SM Project Site Threatened Ecological Community



Appendix C – As-Built Clearing Diagrams



Figure C1 - Medium and high Value koala Habitat Cleared to date - North

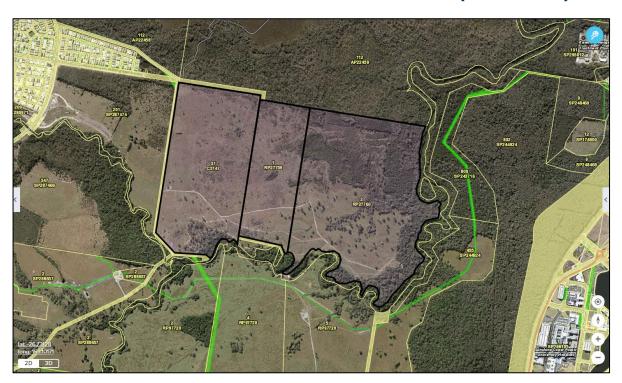


Figure C2 - Medium and high Value koala Habitat Cleared to date - South



Figure C3 - TEC Cleared to date

Appendix D – Lower Mooloolah River Environmental Reserve Offset Site (16.64ha)



Lower Mooloolah River Environmental Reserve Offset Site.

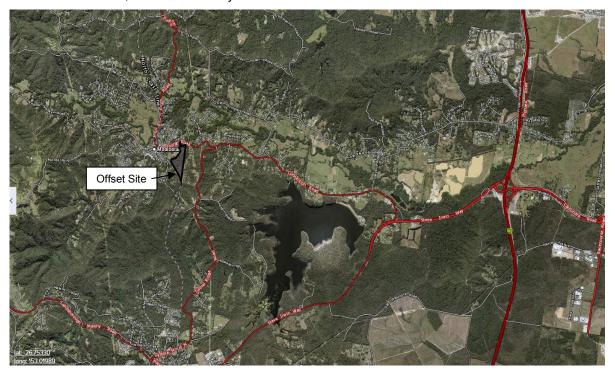


Lower Mooloolah River Environmental Reserve Offset Site General Locale.

Appendix E – 28 Mooloolah Road, Mooloolah Valley Offset Site (4.65ha)



28 Mooloolah Road, Mooloolah Valley Offset Site.

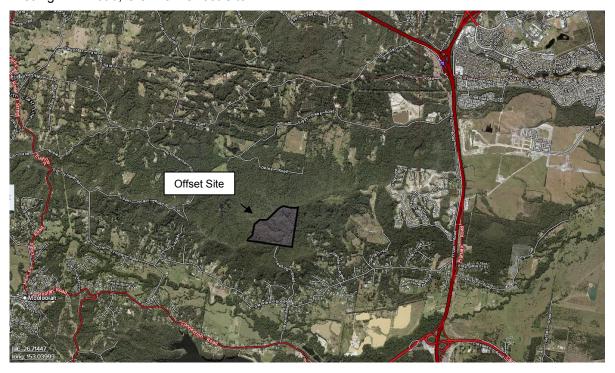


28 Mooloolah Road, Mooloolah Valley Offset Site General Locale.

Appendix F – Missing Link Road, Glenview Offset Site (50ha)



Missing Link Road, Glenview Offset Site.



Missing Link Road, Glenview Offset Site General Locale.

Appendix G – Notification of Commencement of the Action

Government

Department of

Transport and Main Roads

Our ref Your ref Enquiries 450/01352 EPBC 2015/7464 Ms Amy Kirkpatrick

23 December 2016

Compliance and Enforcement Branch Environment Standards Division Department of Environment and Energy GPO Box 787 CANBERRA ACT 2601

Sent by email: postapprovals@environment.gov.au

Attn: Imogen Moore

Dear Ms Moore

With reference to condition 4 of EPBC Approval 2015/7464, this letter is to formally notify your Department of the commencement of works for The Bruce Highway Upgrade Project – Caloundra Road to Sunshine Motorway (CR2SM).

Access to the site was granted to the Contractor on 2 December 2016 for preliminary works including geotechnical investigations, building demolitions and site compound establishment.

Ancillary to the geotechnical investigations and site compound establishment, minor vegetation clearing commenced in locations applicable to this approval on 8 December 2016.

If you have any questions, or require further information in relation to the above works, please contact Mr Mark Asang on 0418 795 871 or Ms Amy Kirkpatrick on 0428 103 578. Information and on the project including project updates are also available on our website at: http://www.tmr.qld.gov.au/Projects/Name/B/Bruce-Highway-Caloundra-Road-to-Sunshine-Motorway-upgrade.

Yours sincerely

Mark Asang Project Manager

for Gavin Soward Project Director

Program Delivery and Operations Branch North Coast Region PO Box 1600 Maroochydore Queensland 4558 Telephone 1800 749 022
Website www.tmr.qld.gov.au
Email brucehwycr2sm@

ABN 39 407 690 291

tmr.qld.gov.au

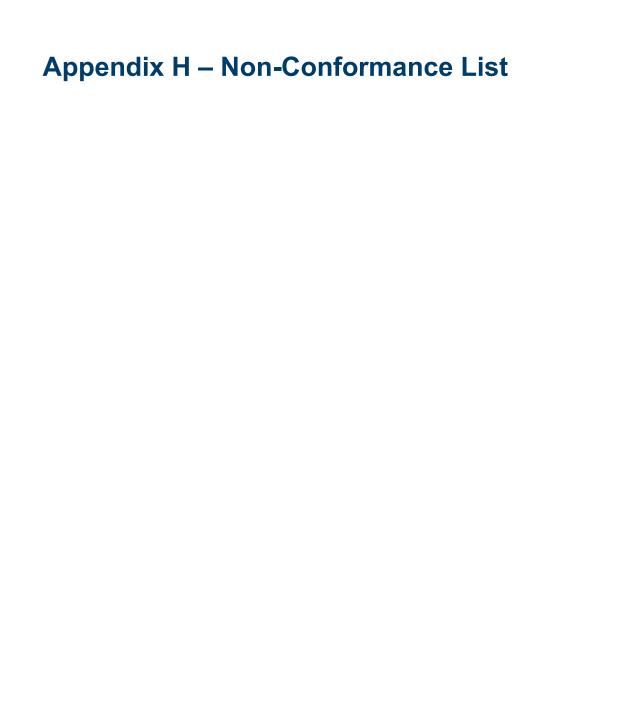


Table H1: Project Identified Non-Conformances and Corrective Actions

Non-Compliance Detail Detail	Detected By Date of Non-	Date of Non-	Agencies Notified				How the Non-conformance will be corrected	Who is responsible	Date Corrective	What measures have/will be taking to avoid recurrence
		Compliance	Agency	Date notification	Via	Ву	Corrected	for correcting the NC	Action	taking to avoid recarrence
Table 4.2 Fauna Management Pre-clear requires implementation of the hygiene protocols when working in proximity to threatened amphibian's species and their habitat. Measures must be detailed in the Fauna Management Plan and must include provisions from the Hygiene Protocols for the Control of Diseases in Australian Frogs (Murray et al., 2011). One of the requirements was not strictly adhered to, for example the disinfection of footwear has not been implemented. It was reported that a brush down of footwear is being undertaken.	Third party Auditor	Sep-19	DoAWE	13-Dec-19	email	Aline Rolim	A project Non-Conformance has been raised. Advice from the project senior ecologist (consultant) on this risk has deemed that the risk of infection to frog species is redundant for the scope of the CR2SM project. For example: When frogs are required to be handled on the project such as during fauna spotter- catcher/pre-clear activities, suitable gloves are worn and if frogs are handled using bare hands these are free from potentially toxic substances such as insect repellents, perfumes and lotions as per the requirements of the protocol Footwear disinfection is not feasible, and it is considered to not create additional risk given the background risk of infection posed by public access to the Mooloolah River National Park (MRNP), especially at the Jowarra Park rest area location which is immediately upstream of the project site. Contractor to liaise with DoAWE on new proposed hygiene protocol for acceptance.	Jai Massadi	May-20	Continue with current management practices for control of diseases. Contractor to liaise with DoAWE
The OEMP Revision 3, 4 - Table 4.1 (Weed management) requires implementation of the weed hygiene protocols, which include the following: Footwear must be thoroughly cleaned and disinfected at the commencement of fieldwork. Audit shows this may not have been undertaken at all times.	Third party Auditor	Sep-19	DoAWE	13-Dec-19	email	Aline Rolim	A project Non-Conformance has been raised. Weed control and maintenance is occurring at the site. Vehicle washdown is being undertaken. Weed audits have been undertaken prior to construction and successful weed removal is undertaken at least 2 weeks prior to clearing. As discussed above, Footwear disinfection is not feasible, and it is considered to not create additional risk given the background risk of infection posed by public access to the Mooloolah River National Park (MRNP), especially at the Jowarra Park rest area location which is immediately upstream of the project site. Contractor to liaise with DoAWE on new proposed hygiene protocol for acceptance.	Jai Massadi	Ongoing	Ongoing management of weeds to ensure no new infestations on site and therefore, no risk of weed spread.
The OEMP revision 3, Table 4.2 Fauna Management – Fencing must be designed to guide koalas (and other fauna) to the fauna underpass/es at least 100 m on either side of the fauna underpass entrance. Measurements on near map at the northern fauna passage fencing show one side being over 100 m and the other side being only approx. 82 m to the east after the CU-17-03 fauna crossing and returns into the batter which is short of the 100 m requirement due to steep batter face preventing fence installation to the required length.	Contractor Representative, Aline Rolim	Sep-19	DoAWE	13-Dec-19	email	Aline Rolim	The NC is unable to be amended due to the unsuitable ground conditions inhibiting constructability of the footings i.e. rock and slope. An assessment onsite has been undertaken with the risk considered minimal.	N/A. Closed	N/A	Not applicable. Original condition cannot be met due to unsuitable ground conditions. Maximum extent of fencing installed.

Table H1 Cont'd: Project Identified Non-Conformances and Corrective Actions

Non-Compliance Detail	Detected By	Date of Non- Compliance	Agencies Notified				How the Non-conformance will be corrected	Who is responsible	Date Corrective	What measures have/will be taking to avoid recurrence
			Agency	Date notification	Via	Ву		for correcting the NC	Action	
The OEMP revision 3 - Table 4.2 Fauna Management Pre-clear requires the establishment of temporary fauna (koala and giant barred frog) exclusion fencing surrounding construction sites to prevent fauna access. Partial compliance. All temporary giant barred frog barrier has been installed at required locations. Temporary fauna barriers have been partially installed across construction works.	TMR	June 2018 Ongoing	DoAWE	13-Dec-19	email	Aline Rolim	Project Non-Conformances have been raised. Contractor is progressively installing permanent fencing at an earlier construction stage and where construction allows. Temporary barriers will also be implemented.	Jai Massadi	Jun-20	Expedited permanent fencing construction underway.

Appendix I – Fauna Furniture Locations



Figure 1. Permanent fauna fence adjacent to Mooloolah Cemetery



Figure 2. Steve Irwin Way fauna crossing (in progress)



Figure 3. Koala escape pole along Wilson Road



Figure 4. Fauna ledges installed under Mooloolah River bridge



Figure 5. Fauna structures adjacent to Mooloolah river

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