



# **Staging Report**

# Woolgoolga to Ballina Pacific Highway Upgrade

August 2017

# **Document control**

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Plan approved by:

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# **Revision history**

Revision	Description	Approval			
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1	Draft (RMS review)	Hugh Madden			
2	Final	Hugh Madden			
3	Updated Final	Hugh Madden			
4	Response to DP&E comments	Hugh Madden			
5	Early enabling construction works (Wave 5a, 5b & 5c)	Hugh Madden			
6	Amendment to the Wave 4 soft soil works description (Chainage)	Chris Greenaway			
7	Traffic staging sections 1 and 2	Chris Greenaway			

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# **Glossary / Abbreviations**

CEMP	Construction Environmental Management Plan
DP	Delivery Partner
DoE	Department of Environment (Commonwealth)
EEC	Endangered Ecological Communities
EIS	Environmental Impact Statement
EPA	Environment Protection Authority
EPBC Act	Environment Protection Biodiversity Conservation Act 1999
EPA&A Act	Environmental Planning and Assessment Act 1979
EWMS	Environmental Work Method Statement
LALC	Local Aboriginal Land Council
MCoA	Ministers Condition of Approval
NSW TSC Act	NSW Threatened Species Conservation Act 1995
PC	Pacific Complete
Project, the	Woolgoolga to Ballina Pacific Highway Upgrade Project
Roads and Maritime	Roads and Maritime Services
SPIR	Submissions/Preferred Infrastructure Report

# 1 Introduction

# 1.1 Project description

NSW Roads and Maritime Services is upgrading the Pacific Highway between Woolgoolga and Ballina on the NSW North Coast. This is known as the Woolgoolga to Ballina Pacific Highway Upgrade Project (the project). An overview of the project is shown in Figure 1-1.

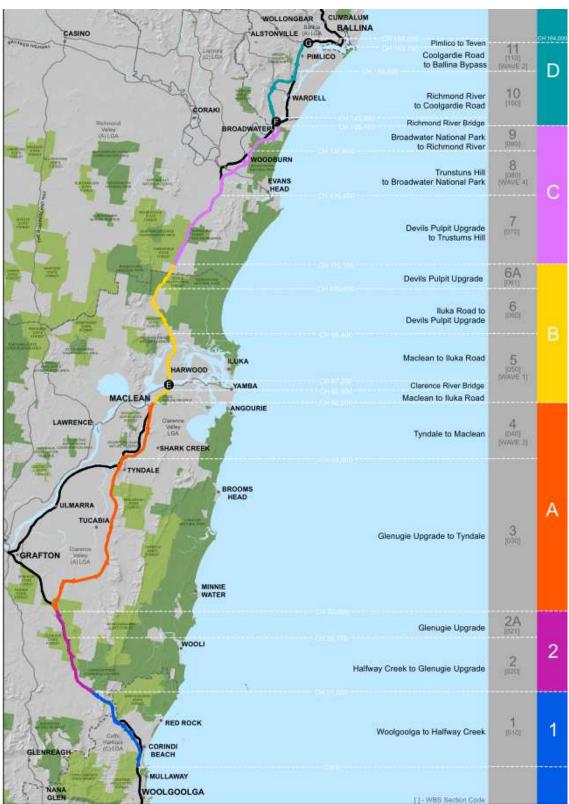
The Woolgoolga to Ballina project is Australia's largest regional infrastructure project and will duplicate about 155 kilometres to a four-lane divided road. The project starts about six kilometres north of Woolgoolga (north of Coffs Harbour) and ends about six kilometres south of Ballina.

When complete, the project will:

- Reduce overall length from 180 kilometres to about 167 kilometres, saving about 13 kilometres in travel distance
- Allow for a higher posted speed limit of up to 110 km/h
- Reduce travel time from 130 minutes to about 105 minutes, saving 25 minutes
- Reduce crash rates by an expected 27 per cent due to divided carriageways
- Improve travel reliability through better flood immunity, fewer incidents and more readily available alternative routes.

Key features of the upgrade include:

- Duplication of 155 kilometres of the Pacific Highway to a motorway standard (Class M) or arterial road (Class A), with two lanes in each direction and room to add a third lane if required in the future
- Split-level (grade-separated) interchanges at Range Road, Glenugie, Tyndale, Maclean, Yamba / Harwood, Woombah (Iluka Road), Woodburn, Broadwater and Wardell
- Bypasses of South Grafton, Ulmarra, Woodburn, Broadwater and Wardell
- About 40 bridges over rivers, creeks and floodplains, including major bridges crossing the Clarence and Richmond rivers
- About fifty-five underpasses and bridges over and under the highway to maintain access to local roads that crossing the highway
- Access roads to maintain connections to existing local roads and properties
- Structures designed to encourage animals over and under the upgraded highway where it crosses key animal habitat or wildlife corridors
- Rest areas located at about 50 kilometre intervals at Arrawarra, Pine Brush (Tyndale), north of Mororo Road and north of the Richmond River
- A heavy vehicle checking station near Halfway Creek and north of the Richmond River.



The Woolgoolga to Ballina upgrade does not include the completed Devils Pulpit and Glenugie upgrade projects.

Figure 1-1 Woolgoolga to Ballina Highway Upgrade Project

### 1.2 Approval framework

The Woolgoolga to Ballina Pacific Highway upgrade is approved as State Significant Infrastructure under Part 5.1 of the New South Wales *Environmental Planning and Assessment Act 197*9 (SSI-4963, approval dated 24 June 2014). NSW Condition of Approval (MCoA) A7 states:

The Applicant may elect to construct and/or operate the SSI in stages. Where staging is proposed, the Applicant shall submit a Staging Report to the Secretary prior to the commencement of each proposed stage. The Staging Report shall provide details of:

(a) how the SSI would be staged, including general details of work activities associated with each stage and the general timing of when each stage would commence; and

(b)details of the relevant conditions of approval, which would apply to each stage and how these shall be complied with across and between the stages of the SSI.

Where staging of the SSI is proposed, these conditions of approval are only required to be complied with at the relevant time and to the extent that they are relevant to the specific stage(s).

The project is also approved under the Commonwealth *Environment Protection and Biodiversity Act 1999* (012/6394 approval dated 14/08/14).

The Staging Report as required by NSW approval condition A7 must be submitted to the Minister prior to the commencement of each of the proposed stage(s). In accordance with NSW approval condition A7 the Staging Report must outline how the proposal will be staged. The Staging Report must also outline the threatened species and communities, and migratory species impact in each stage.

### **1.3** Purpose of this staging report

The purpose of this Staging Report is to:

- Describe the activities associated with the project, and in particular the scope of proposed project staging
- Provide detail as to the relevant conditions of approval (both NSW and Commonwealth) for each stage and how these shall be complied with.

Table 1-1 identifies the requirements of Ministers Condition of Approval (MCoA) A7 and Environment Protection Biodiversity Conservation (EPBC) 1 and where they have been addressed in this report.

СоА	Condition requirements	Reference
NSW conditi	ions of approval	
A7	Staging	This report
	The Applicant may elect to construct and/or operate the	
	SSI in stages. Where staging is proposed, the Applicant shall submit a Staging Report to the Secretary prior to the	
	commencement of each proposed stage. The Staging	

 Table 1-1
 Relevant conditions of approval

СоА	Condition requirements	Reference
	Report shall provide details of:	
(a)	How the SSI would be staged, including general details of work activities associated with each stage and the general timing of when each stage would commence.	Sections 3, 4, 5 and 6
(b)	Details of the relevant conditions of approval, which would apply to each stage and how these shall be complied with across and between the stages of the SSI.	Appendix A and Appendix B
-	Where staging of the SSI is proposed, these conditions of approval are only required to be complied with at the relevant time and to the extent that they are relevant to the specific stage(s).	-
Commonwe	ealth conditions of approval	
1	Staging of the action The Staging Report as required by NSW approval condition A7 must be submitted to the [Commonwealth] Minister prior to the commencement of each proposed stage(s).	This report
	In accordance with NSW approval condition A7, the Staging Report must outline how the proposal will be staged.	Sections 3, 4, 5 and 6
	The Staging Report must also outline the threatened species and communities, and migratory species impacted by each stage.	Section 7

# 2 Roads and Maritime Delivery Strategy

# 2.1 Project Scope

As outlined in Section 1.2, NSW Roads and Maritime Services (RMS) has received approval to upgrade the Pacific Highway between Woolgoolga and Ballina to a four-lane motorway standard highway (known as a class M highway). This section of the highway is about 155 kilometres long.

The construction of the project would be staged to include both arterial sections (known as class A) and motorway standard sections (known as class M). For sections of the project initially upgraded to arterial standard, the design allows for these sections to be upgraded to motorway standard in the future. These criteria are outlined in Figure 2-1 below.

KEY TERM - class M (Motorway standard) / class A (Arterial standard)

Class M: Two lanes in each direction, 110 km per hour posted speed limit, controlled access highway with grade separated interchanges, and a continuous alternative route for local traffic.

Class A: Two lanes in each direction, at least 100 km per hour posted speed limit, limited access highway with at-grade intersections. This may include intersections where right turn movements are permissible. Under class A, local traffic and through traffic could share the highway.

#### Figure 2-1 Definition of upgrade class

The project would be built as an arterial highway in some sections and later upgraded to a full motorway standard. Accordingly, the project has been designed so it can be constructed in stages, and progressively upgraded to full motorway standard.

While the overall project is for a full motorway standard throughout, staging of the project would include building an arterial highway in some sections and later upgrading it to a full motorway standard (referred to as the 'ultimate' upgrade).

The project EIS (Section 6.1.2) outlined that any construction staging would need to consider:

- The availability of funding from relevant levels of Government and affordability
- The need to minimise road user delays
- The need for local road and property access
- The need for land acquisitions
- The earthworks balance, both within each section and across all sections
- Areas that may require soft soil pre-loading
- The sequence in which completed sections could be opened to traffic.

# 2.2 **Project delivery model**

Delivery of the final section of the Pacific Highway Upgrade will be tailored to the project, based on the model used to build infrastructure for the London Olympics. The upgrade will use an industry partner contract model to harness the best ideas and solutions from the private sector and draw on knowledge from within government.

The traditional practice would be to deliver the project as four or five separate packages using design and build or build only contracts. Under this new model, a major provider with design, building and management expertise has been engaged to oversee the project in collaboration with Roads and Maritime's Pacific Highway Office, managing multiple contracts for professional services, supply, and building of the highway. The delivery partner model will offer better value for money and drive project efficiencies.

Roads and Maritime Services has engaged Pacific Complete (comprising Laing O'Rourke and WSP Parsons Brinckerhoff) to partner with the Pacific Highway Office to deliver the 155km Woolgoolga to Ballina Pacific Highway upgrade.

The delivery partner model encourages the best ideas and solutions from the private sector and is tailored to this project so that it draws on NSW Government knowledge to deliver better engineering and design, customer outcomes and public value.

The model also allows for better outcomes across the supply chain. This is through a consistent and coordinated approach, economies of scale and better access to competitive supplies and contractors, which will help the project meet its 2020 deadline.

Section 6.1.2 of the EIS outlined that the project would be delivered in 5 Stages. RMS has considered a range of packaging strategies with regards to the available funding, affordability, industry resources and capacity and the need to achieve the target of a dual, separated carriageway between Woolgoolga and Ballina by 2020. As a result, the project will now be undertaken in four stages as outlined below.

The Woolgoolga to Ballina project will be completed in the following stages:

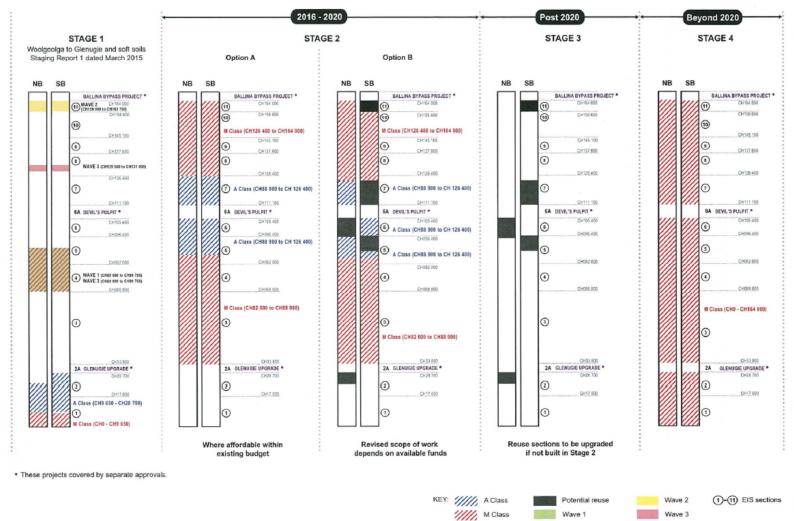
- **Stage 1** (as outlined in W2B Staging Report Version 1, March 2015) will include preconstruction activities, selected utility relocations, archaeological salvage works, construction of sections 1 & 2 (Woolgoolga to Glenugie) and soft soil early works (Waves 1,2 and 3).
- Stage 2 (this report) will be for construction (sections 3-11), between Glenugie and Ballina. With regards for the need to balance available funding with the completion of a dual separated carriageway, the intent of Stage 2 is to upgrade the section between Glenugie and Ballina to combination of M and A Class. EIS Sections 3 and 4 will be upgraded to the final M Class. Sections 5 and 6 will be a combination of A and M class. Sections 7, 8 and 9 will be a combination of A and M Class. Sections 10 and 11 will be constructed to the final M Class. Details of proposed locations of the A and M class in Stage 2 is provided in 4.2 of this Staging Report.

The combination of the A and the M class has been determined such that the available funding is used efficiently while achieving the 2020 project objectives. These works are being managed by Pacific Complete and will include the progressive opening of the highway to traffic in the required configuration to meet the 2020 project objectives.

The detailed design phase is currently underway for the sections between Glenugie and Ballina. Should the available funding not be sufficient to achieve the proposed combination of A and M class outlined above, as a contingency measure, opportunities to re-use existing sections of the existing Pacific Highway are being explored. Further details of the proposed pavement reuse strategy are provided in section 4.2.1 of this report. A graphical representation of the potential approach to reusing existing sections of the Pacific Highway is provided below.

- Stage 2 of the upgrade includes two options to achieve the 2020 objective. Stage 2 Option A represents the construction of the full combination of the A and M class. Stage 2 Option B represents the potential combination of reused sections of the Pacific Highway.
- **Stage 3** progressive rehabilitation of pavement reuse areas along the project length. This will see the reused sections upgraded to A or M class as funding becomes available.
- **Stage 4** the upgrade of the remaining sections of the highway to the ultimate M-Class configuration.

#### W2B STAGING PLAN



#### Figure 2-2 Proposed optional staging

W2B-PC0-0-ZH-RPT-00001

# 3 Stage 1

### 3.1 Overview of Stage 1

Stage 1 of the project consists of the following activities:

- Pre-construction activities
- Construction of Section 1 Woolgoolga to Halfway Creek
- Construction of Section 2 Halfway Creek to Glenugie
- Soft Soil pre-load construction activities Waves 1, 2 & 3.

These activities are summarised below. Indicative construction timing of Stage 1 is shown in Table 3-1 below.

Stage 1	Estimated Commencement	Estimated Completion
Section 1 – Woolgoolga to Halfway Creek	May 2015	Late 2017
Section 2 – Halfway Creek to Glenugie	May 2015	Mid 2017
Waves 1,2,3 - Soft soils preload works	June 2015	March 2019

### **3.2 Pre-Construction Activities**

There are a number of initial proposed activities that are not defined as either "construction" under the New South Wales approval or "commencement" under the Commonwealth approval for the project and do not therefore trigger particular approval conditions. These activities do not form part of the construction stages which are the primary focus of this document. They are however described below for general information. The pre-construction activities will include:

- Utility relocations
- Fencing
- Salvage.

The due diligence process for ensuring that activities to be carried out during preconstruction do not trigger "construction" under the New South Wales approval or "commencement" under the Commonwealth approval would be the completion of a compliance checklist and appropriate environmental consistency assessment that would be prepared by the Project Manager / relevant Contractor to review the proposed activities against the relevant conditions of approval and be signed off by the Roads and Maritime Pacific Highway Upgrade Environment Manager and Environmental Representative or Secretary. If the proposed activities are not considered consistent with the requirements to not trigger 'construction' or 'commencement' of construction then the activities would be put on hold until substantial construction has commenced.

The definitions of 'construction' and 'commencement' as detailed in the relevant approval documents (NSW Infrastructure approval document SSI-4963 and Commonwealth Department of the Environment approval document EPBC 2012/6394 respectively) are provided below.

**Construction** – includes all work in respect of the SSI other than:

- a) Survey works including general alignment survey and survey controls (including installation of global positioning system (GPS), repeater stations, survey of existing and future utilities or building/road dilapidation surveys.
- b) Further investigations including investigative drilling, excavation or salvage; treatment of contaminated sites or work undertaken in accordance with a strategy or salvage operations required by the conditions of this approval.
- c) Establishing ancillary facilities/construction work sites (in locations meeting the criteria identified in the conditions of approval), or where criteria are not fully satisfied, those ancillary facility sites which have been fully assessed against all criteria, with mitigation to manage and minimise impacts identified in the documents referred to in condition A2 and approved by the Environmental Representative or Secretary. This includes the establishment of ancillary facilities access roads and the provision of services to the facility and installation of erosion and sedimentation controls.
- d) Installation of environmental impact mitigation measures (including erosion and sedimentation control, temporary exclusion fencing or sensitive areas, and athouse acoustic treatment) and measures identified in approved strategies, plans, programs and other documents required by the conditions of this approval (including works associated with the construction of connectivity structures (including boundary and exclusion fencing and vegetation planting)).
- e) Property acquisition adjustment works including the installation of property fencing, demolition and removal of buildings, relocation of utilities to property (including water supply and electricity).
- f) Utilities and adjustments within sections 1, 4, 5, 6 and 11 of the SSI, as specified in the documents referred to in condition A2(f), where an Environmental Work Method Statement has been approved by the Secretary in consultation with EPA and DoE.
- g) Existing road network adjustments including minor upgrades to existing local roads and the existing Pacific Highway network, upgrade of existing intersections to cater for construction traffic and installation of temporary project signage.
- h) Minor clearing or translocation of native vegetation association with (a) to (g) above.
- *i)* Other activities determined by the Environmental Representative to have minimal environmental impact (e.g. minor access roads, minor adjustments to services/utilities, etc.).

Note: Work where heritage, threatened species or suitable habitat, populations or endangered ecological communities would be affected is classified as construction, unless otherwise approved by the Secretary in consultation with the Environment Protection Authority or in accordance with an approved strategy, plan or program required by this approval.

**Commence, Commencement** and **Commenced** – means any works where threatened species and communities or suitable habitat for threatened species and communities is directly or indirectly impacted, excluding the utility adjustments required in Sections 1, 4, 5 and 11; Nest Box Installation; Installation of Emu Fencing; Installation of Fauna Fencing in all Sections except Section 10; planting of vegetation for land bridges; Aboriginal heritage salvage operations; and survey works defined in the NSW approval decision in Definitions: Constructions (a).

#### 3.2.1 Utility relocations

The utility relocation works for the project in Sections 1, 4, 5 and 11 do not trigger construction or commencement as defined by the project approval conditions. The decommissioning of redundant utilities and the identification of the utility corridor for subsequent relocations are assessed for environmental impact (in particular to any heritage items or threatened species) prior to the commencement of any relocation work.

Where it is deemed that the utility works do not constitute construction, Environmental Work Method Statements (EWMS) for the utility work are then developed from the results of the environmental assessment, which are reviewed and endorsed by the project Environmental Representative and approved by the Secretary in consultation with EPA and DoE.

#### 3.2.2 Fencing

Temporary emu fence has already been installed at locations within Section 3 (Figures 3-1, 3-2 and 3-3), in accordance with the project approval definitions. Temporary emu fence will be installed across the remainder of the length of Section 3 and Section 4 during the stage 2 main construction. It is not required in Section 4 for the stage 1 (early works pre-treatment) construction. This is because traffic activity is expected to be minimal during stage 1 and would be restricted to open country. Emus are regularly observed in cane properties around Shark Creek (Section 4) where they frequent modified habitat and are easy to sight in the open areas. Emu activity would be monitored during stage 1 (early works) and if emus are found to be frequenting the construction corridor during the early works activities, this would trigger the need to erect temporary emu fencing in Section 4.

A specific ecological assessment was completed along the length of the temporary fence to identify threatened species, habitat and endangered ecological communities. An EWMS was prepared and approved by the Secretary, in consultation with EPA and DoE.

The approved EWMS for the temporary emu fence allowed for / approved clearing of 1 hectare of native vegetation, including 0.24 hectares of Endangered Ecological Communities (*Subtropical Coastal Floodplain Forest on Coastal Floodplains and Swamp Sclerophyll Forest on Coastal Floodplains*), and individual *Angophora robur* trees.



Figure 3-1 Temporary emu fencing



Figure 3-2 Temporary emu fence and bollard gate



#### Figure 3-3 Temporary emu squeeze style fence

#### 3.2.3 Salvage

A proposed methodology was submitted by the two companies contracted to undertake the salvage works. These were submitted to the relevant Local Aboriginal Land Council (LALC) for comment over a 28 day consultation period. Methodologies were updated to reflect LALC comments and submitted to agencies for approval. After agency approval on 17 August, 2014, salvage works commenced on 1 September 2014. These salvage works have a targeted completion date of May 2016. Predominantly two salvage teams have been working throughout this period.

# 3.3 Section 1 – Woolgoolga to Halfway Creek

Section 1 of the Woolgoolga to Ballina Pacific Highway upgrade involves the upgrade of the section of Pacific Highway, situated between two other upgraded sections of the Pacific Highway, Sapphire to Woolgoolga upgrade to the south and Halfway Creek duplication to the north (Figure 3-4 and Figure 1-1).

The main features of the Section 1 upgrade are:

- the construction of a length of approximately 14.7 kilometres of roadway to median separated dual carriageway standard
- nine bridges over watercourses, floodplain and local roads
- establishment of a rest area at Arrawarra.

Construction activities will involve:

- site compound and ancillary site setup
- demolition of existing structures/houses
- clearing of vegetation
- utility relocations
- earthworks including material processing from a large cutting
- bridge works including foundations, girder erection and completion
- drainage works
- pavement works
- landscaping and finishing.

### 3.4 Section 2 – Halfway Creek to Glenugie

Section 2 of the Woolgoolga to Ballina Pacific Highway upgrade involves the upgrade of the section of Pacific Highway, situated between two other upgraded sections of the Pacific Highway; Halfway Creek upgrade to the south and Glenugie upgrade to the north (Figure 3-4 and Figure 1-1).

The main features of the Section 2 upgrade are:

- the construction of a length of approximately 15.2 kilometres of roadway to median separated dual carriageway standard
- twin bridges over Halfway Creek and Wells Crossing
- nine bridges over watercourses, floodplain and local roads
- a heavy vehicle inspection station.

Construction activities will involve:

- site compound and ancillary site setup
- demolition of existing structures/houses
- clearing of vegetation
- utility relocations
- earthworks including material processing from large cutting
- bridge works including foundations, girder erection and completion
- drainage works
- pavement works
- landscaping and finishing.

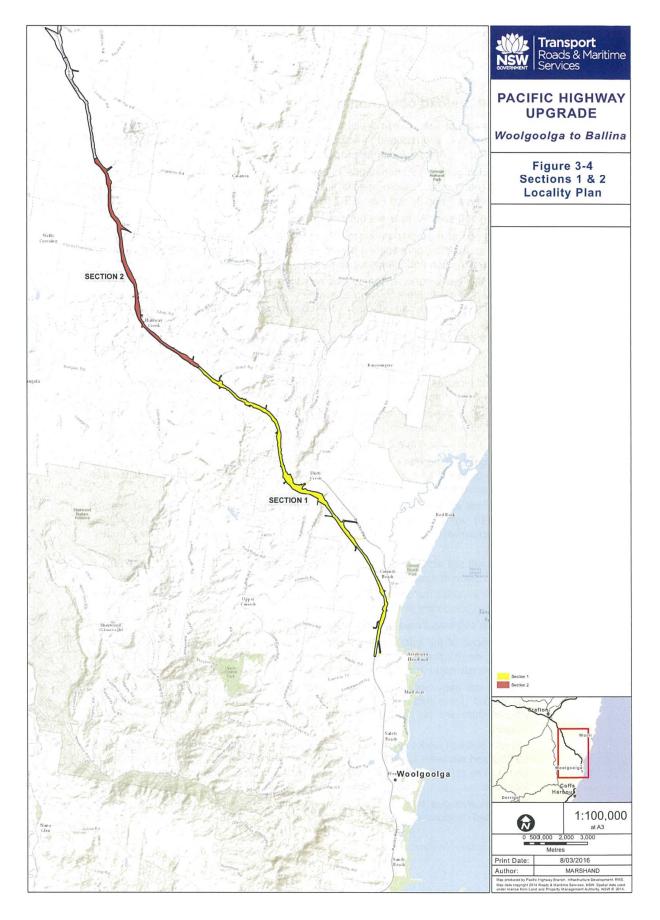


Figure 3-4 Section 1 and 2

# 3.5 Traffic Staging

Section 1 and Section 2 will progressively open to traffic in four stages.

#### Stage I (current stage) – Grays Road to Franklins Road (Fig. 3.6)

In the coming months all highway traffic will be divided with southbound motorists traveling on the new southbound carriageway for about 12 kilometres with a temporary speed limit of 100 kilometres/hour. Improved intersections for Lemon Tree Road, Kungala Road and Luthers Road and a new heavy vehicle inspection bay will also be open to traffic. As part of this first stage (implemented in late 2016) northbound motorists are temporarily travelling on about six kilometres of new northbound carriageway with a temporary speed limit of 100 kilometres/hour, between just north of Rediger Close and just south of the bridge at Wells Crossing. Traveling north from Wells Crossing Creek motorists will temporarily use the existing northbound carriageway and existing bridge over Wells Crossing Creek. This temporary arrangement has a reduced speed limit of 80 kilometres/hour, to approach and cross the bridge, with the speed limit increasing to 100 kilometres/hour near Parkers Road. This arrangement will be in place until the northbound carriageway is improved as part of the Glenugie to Ballina Pacific Highway upgrade in 2018 and 2019 (Stage IV).

#### Stage II – Arrawarra Interchange to Range Road (Fig 3.7)

The second stage involves moving all highway traffic onto about 10 kilometres of new four lane divided road with a speed limit of 110 kilometres/hour. This is expected to occur in late 2017, weather permitting. This traffic staging arrangement will connect the Woolgoolga to Halfway Creek upgrade with the existing 25 kilometre Sapphire to Woolgoolga upgrade at the Arrawarra Interchanges. This connects about 35 kilometres of upgraded four lane divided road north of Coffs Harbour, with a speed limit of 110 kilometres/hour, north of Coffs Harbour. As part of this stage, the existing Pacific Highway between Corindi Beach and Dirty Creek will become a local service road and change name to Solitary Islands Way. This involves connecting Eggins Drive with the existing Pacific Highway south of Tasman Street. This new section of Solitary Islands Way connects the local service road between Sapphire Beach and Dirty Creek.

#### Stage III – Range Road to Grays Road (Fig 3.8)

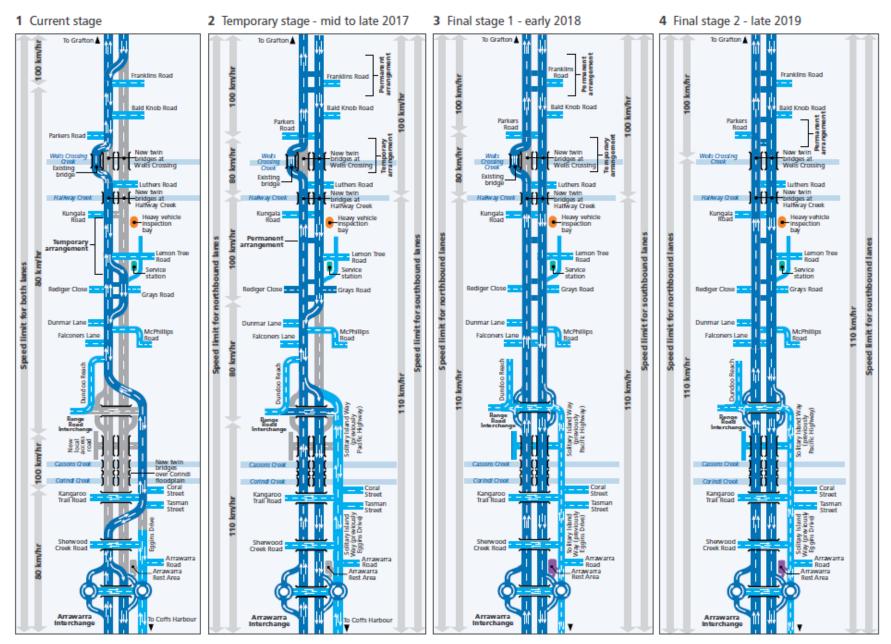
All highway traffic was moved onto about four kilometres of new northbound carriageway north of Range Road in a temporary contraflow arrangement in April 2017. This temporary arrangement allows the new southbound carriageway to be built and has a speed limit of 80 kilometres/hour and the third stage of four lane divided road to be completed. Once this work is complete, all highway traffic will be divided onto the new carriageways and the speed limit will be increased to 110 kilometres/hour. This is expected to occur in early 2018, weather permitting. The new interchange at Range Road will progressively open to traffic as finishing works on the on and off ramps is completed. It will become fully operational once the new southbound carriageway is open to traffic.

#### Stage IV – Wells Crossing to Franklins Road (Fig 3.9)

The final stage involves improving the existing northbound carriageway between Wells Crossing and Franklins Road as part of the Glenugie to Ballina Pacific Highway upgrade in 2018 and 2019.

# Traffic Staging and Local Access Arrangements

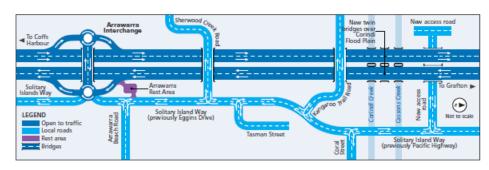
#### **Traffic staging**

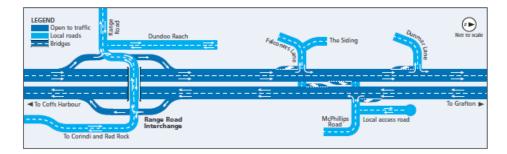


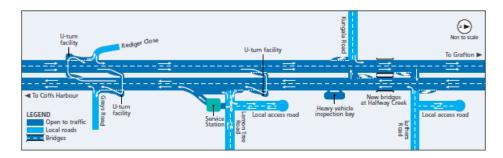




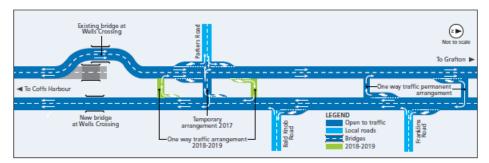
#### Figure 3-5 Traffic Staging Sections 1 and 2







# Figure 3-8 Halfway Creek to Wells Crossing



## Figure 3-6 Local Arrawarra to Range Road

## Figure 3-7 Range Road to Halfway Creek

### Figure 3-9 Wells Crossing to Glenugie

Details of the Ministers Conditions of Approval that apply to Sections 1 & 2, and how these have been complied with are available in the Pre-Operational Compliance Report (August 2017).

### 3.6 Soft Soil preload construction works (Wave 1, 2 and 3)

Due to the presence of soft soils in the vicinity of the Clarence River and Richmond River floodplains, initial works are required in advance of the main construction of the highway to consolidate the deep soft soils under the proposed highway alignment.

Figure 3-5 provides general location details of waves 1, 2 and 3 in relation to the sections of the project and each other. More specific location details of the waves are provided in Figure 3-6 (for waves 1 and 3) and Figure 3-7 (for wave 2).

Details regarding soft soils Wave 1 are outlined below:

- The purpose of the early works at soft soil sites is to speed up the overall project delivery, de-risk the construction of a motorway over deep soft soils and reduce the overall construction and maintenance costs.
- The soft soil early works encompasses only the geotechnical treatments and directly associated infrastructure. Completion of the main roadworks and associated infrastructure will be carried out under separate main construction works (future Stages).
- Wave 1 soft soil works is located in sections 4 and 5 (between CH 69,000 and 90,750). A total of 4.14km of motorway embankment will be constructed at various locations.
- The work includes the construction of embankments, surcharges, stability berms, associated temporary works and utility adjustments.
- A highway cutting at approximately CH 69,000 to 69,500 will be the main source for general fill for the embankments.

Details regarding soft soils Wave 2 are outlined below:

- The purpose of the early works at soft soil sites is to speed up the overall project delivery, de-risk the construction of a motorway over deep soft soils and reduce the overall construction and maintenance costs.
- The soft soil early works encompasses only the geotechnical treatments and directly associated infrastructure. Completion of the main roadworks and associated infrastructure will be carried out under separate main construction works (future Stages).
- Wave 2 soft soil works is located in section 11 (between CH 159,900 and 163,750). A total of 3.85km of motorway embankment will be constructed at various locations.
- The work includes the construction of embankments, surcharges, stability berms, and associated temporary works.

Details regarding soft soils Wave 3 are outlined below:

- The purpose of the early works at soft soil sites is to speed up the overall project delivery, de-risk the construction of a motorway over deep soft soils and reduce the overall construction and maintenance costs.
- The soft soil early works encompasses only the geotechnical treatments and directly associated infrastructure. Completion of the main roadworks and associated infrastructure will be carried out under separate main construction works (future Stages).

- Wave 3 soft soil works is located in project sections 4, 5, 8 (between CH 69,000 and 90,750 and between CH 129,500 and 131,000). A total of 7.14 km in sections 4, 5 and 1.5km in section 8 of motorway embankment will be constructed at various locations.
- The work includes the construction of embankments, surcharges, stability berms, associated temporary works and utility adjustments.
- A highway cutting at approximately CH 75,200 to 77,000 will be the main source for general fill for the embankments.

Construction activities associated with soft soil preloading works will involve:

- site compound and ancillary site setup
- demolition of existing structures/houses
- clearing of vegetation
- utility relocations
- earthworks including material processing from two large cuttings
- drainage works
- temporary landscaping and finishing.



Figure 3-10 Overview Stage 1 - Wave 1, 2, 3

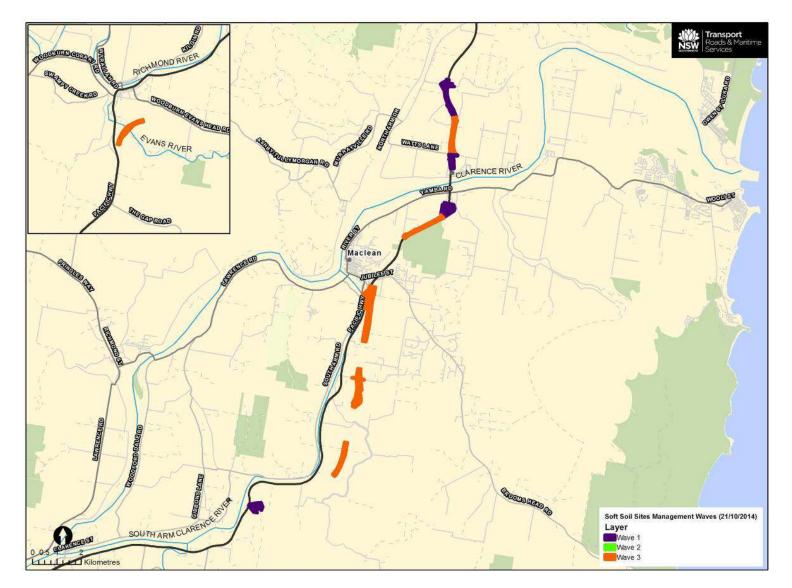


Figure 3-11 Stage 1 - Wave 1 and 3 Plan 21

Pacific Highway Upgrade – Woolgoolga to Ballina **Staging Report** 

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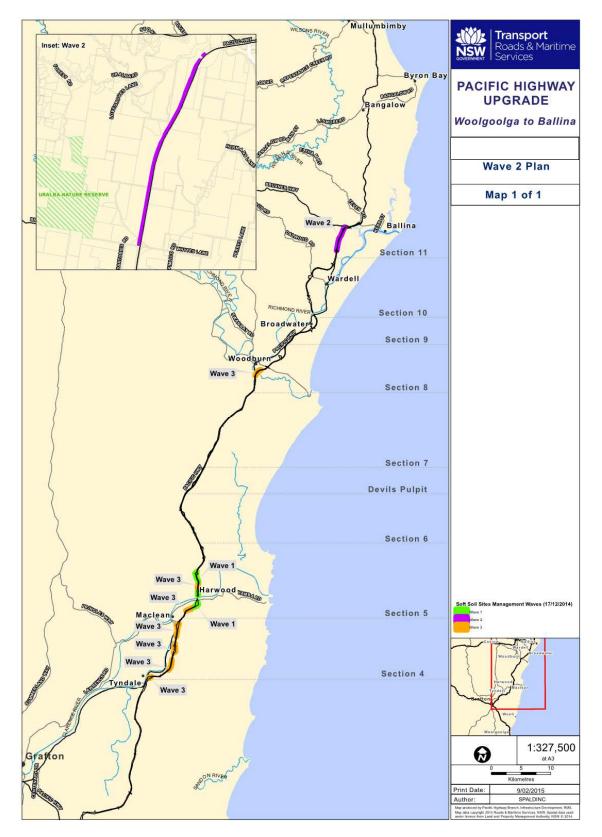


Figure 3-12 Stage 1 - Wave 2 Plan

# 4 Stage 2

# 4.1 Soft Soil preload construction works (Wave 1, 2, 3 and 4)

As outlined in Section 3.5, due to the presence of soft soils in the vicinity of the Clarence River and Richmond River floodplains, initial works are required in advance of the main construction of the highway to consolidate the deep soft soils under the proposed highway alignment.

In consultation with Roads and Maritime Services, Pacific Complete identified some program and procurement opportunities to increase the scope of the existing soft soil activities that commenced in Stage 1 of the project. The changes to these are outlined below.

The main features of soft soil wave 1 are:

- As outlined in Stage 1 (refer to Section 3.5)
- The work has been expanded to include the construction of embankments, surcharges, stability berms, associated temporary works and utility adjustments between CH83,100 and CH91,200.

The main features of soft soil wave 2 are unchanged from Stage 1 (refer to Section 3.5)

The main features of soft soil wave 3 are:

- As outlined in Stage 1 (refer to Section 3.5)
- The work has been consolidated to construct the embankments, surcharges, stability berms, associated temporary works and utility adjustments between CH68,500 and CH82,500
- Wave 3 no longer includes the area between CH129,500 and CH131,000.

The main features of soft soil wave 4 are:

• The construction of embankments, surcharges, stability berms, associated temporary works and utility adjustments at soft soil works near Tuckombil Canal between CH129,500 and CH132,100.

Figure 4-1 provides an overview of the updated locations of wave 1, 2, 3 and 4. Figure 4-2 and 4-3 provide more detail about the locations of wave 1 and 3, and wave 2 and 4 respectively.

#### 4.1.1 Wave 5a

Wave 5a comprises the following early enabling construction activities along the main line within Section 3, Portion A (CH 38,060 to CH 67, 525):

- Vegetation clearing
- Bulk earthworks (cut and fill)
- Foundation and soft soil treatment
- Abutments for bridge locations
- Temporary waterway crossings
- Fencing (temporary fauna fencing, permanent fauna fencing and property fencing).

#### 4.1.2 Wave 5b

Wave 5b comprises the following early construction activities along the main line within Section 6, Portion B (CH 96,000 to 105,200):

- Vegetation clearing
- Site access and intersection upgrades

- Temporary waterway crossings
- Embankment foundations
- Fencing (temporary fauna fencing and property fencing).

#### 4.1.3 Wave 5c

Wave 5c comprises the following early construction activities along the main line in six discrete work locations within Sections 7 (CH114,070 to CH115,900), Section 8 (CH126,700 to 129,540, CH132,100 to 132,200, 132,200 to 134,050 and 134,050 to 136,410) and Section 9 (CH142,500 to 142,800), Portion C:

- Vegetation clearing
- Utility relocations
- Property demolition
- Foundation treatment, embankment construction (earthworks) and piling pads
- Fencing (permanent fauna fencing and property fencing.

Figure 4-4 shows the location of Wave 5a, 5b and 5c. The use of the wave terminology is no longer being used by Pacific Complete (i.e. procurement, construction and environment) during Stage 2 as defined in Section 2.2 of this report.

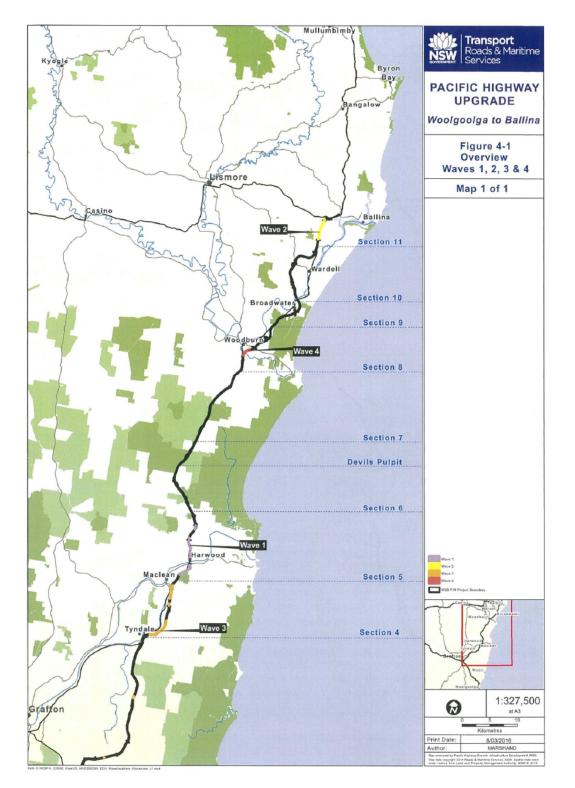
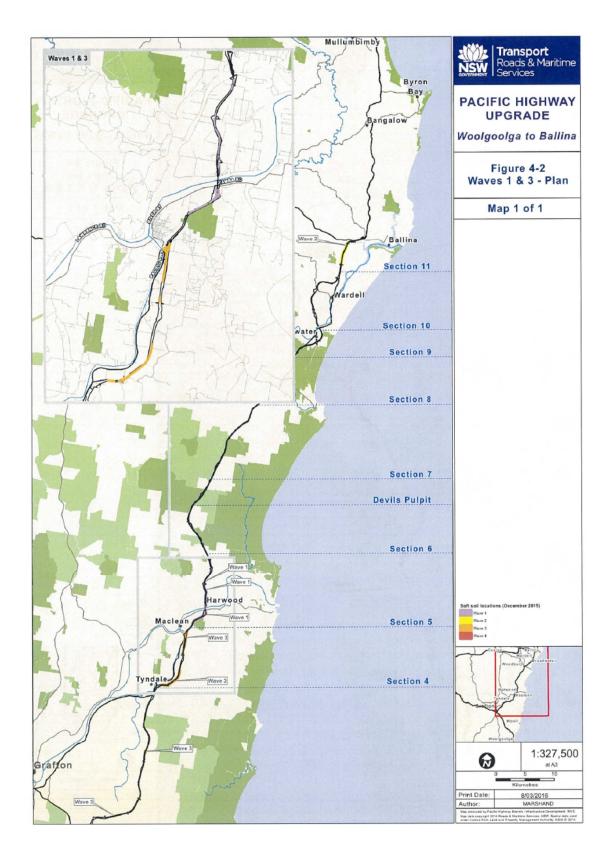
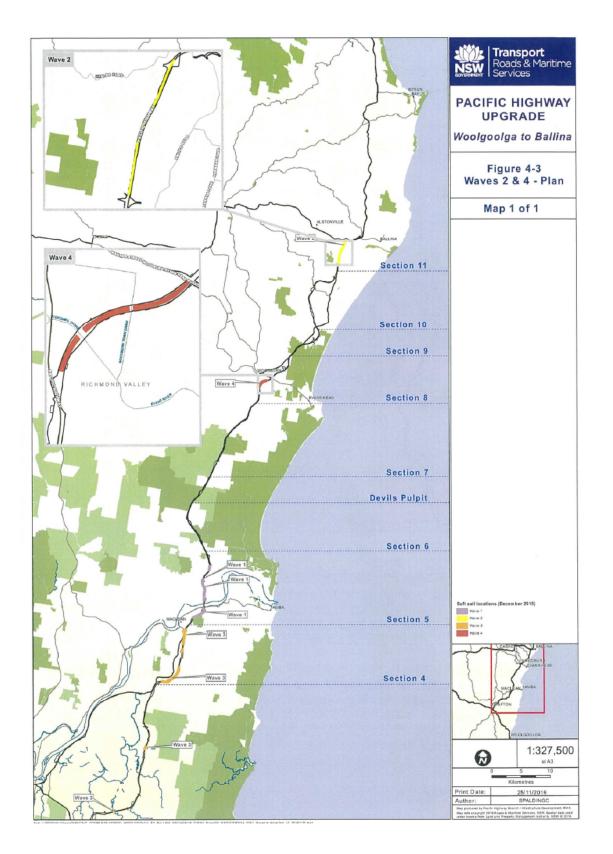


Figure 4-1



#### Figure 4-2



#### Figure 4-3

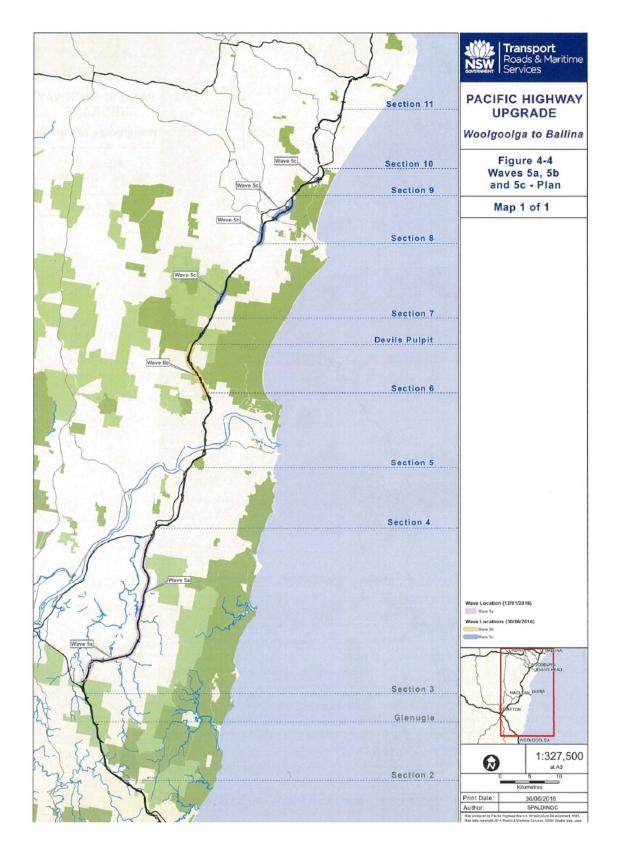


Figure 4-4

# 4.2 Construction of Sections 3 to 11

As outlined in Section 2 of this report the project will be delivered using a delivery partner contract model to harness the best ideas and solutions from the private sector while drawing on knowledge from within Government.

The traditional practice would be to deliver the Woolgoolga to Ballina upgrade as four or five separate packages using 'design-and-build' or 'build only' contracts. Under this new model, a major provider with design, building and management expertise will be engaged to oversee the project in collaboration with Roads and Maritime's Pacific Highway Office, managing multiple contracts for professional services, supply, and building of the highway. The delivery partner model will offer better value for money and drive project efficiencies.

The construction of Sections 3-11 (Glenugie to Ballina) of the project will be undertaken across a number of portions, each of which will comprise a number of activities. These portions align with the procurement of the detailed design.

Some of the construction activities will take place concurrently to achieve the best project/program efficiency. In any given location the project would be constructed sequentially (construction staging) as per the list of activities described below:

- Enabling works
- Site establishment
- Vegetation clearing
- Bulk earthworks (including rock excavation and blasting)
- Drainage
- Bridges, retaining walls and rest area construction
- Road construction
- Tie-ins and interchanges
- Pre-operation.

The main construction of Section 3 to 11 comprises:

- Nine sections (3 to 11), which have been grouped into four portions (A to D)
- Two major bridges (portions E and F) at the Clarence River and Richmond River respectively
- Four areas of soft soil work (Wave 1 to Wave 4)
- Six bypasses (South Grafton, Grafton, Ulmarra, Woodburn, Broadwater and Wardell)
- 10 interchanges (Eight Mile Lane, Tyndale South (Sheehys Lane), Tyndale North, Goodwood Street, Watts Lane, Yamba Road, Iluka Road, Woodburn (Trustums Hill) Road, Broadwater (Evans Head Road) and Coolgardie Road
- Three tie-ins to other projects (Glenugie Upgrade, Devils Pulpit Upgrade, Ballina Bypass)
- Three rest areas (Pine Brush (northbound), North of Mororo Road (north and south bound) and North of Richmond River (north & southbound).

Table 4-1 describes the relationship between the sections, portions and key project infrastructure.

Portion	Section	Start	СН	End	СН	Bypasses	Interchanges	Tie-ins	Rest Areas
A	3	Glenugie Upgrade	33.8	Tyndale	68.8	Grafton South Grafton Ulmarra	Eight Mile Lane, Tyndale South (Sheehys Lane), Tyndale North	Glenugie (Section 2A)	Pine Brush (Northbound)
	4	Tyndale	68.8	Maclean	82.0	-	Goodwood Street	-	-
Ε	5	Clarence River Bridge	85.9	Clarence River Bridge	87.3				
В	5	Maclean	82.0	Iluka Road	96.4	-	Iluka Road, Yamba Road, Watts Lane	-	-
	6	Iluka Road	96.4	Devils Pulpit Upgrade	111.1	-		Devils Pulpit (Section 6A)	North of Mororo Road (North & Southbound)
•	7	Devils Pulpit Upgrade	111.1	Trustums Hill	126.4	-	-	-	-
C	8	Trustums Hill	126.4	Broadwater National Park	137.6	Woodburn	Woodburn (Trustums Hill Road)	-	-
	9	Broadwater National Park	137.6	Richmond River	145.1	Broadwater	Broadwater (Evans Head Road)	-	-
F	10	Richmond River Bridge	145.1	Richmond River Bridge	145.9				
D	10	Richmond River	145.1	Coolgardie Road	158.6	Wardell	Coolgardie Road	-	North of Richmond River (North & southbound)
	11	Coolgardie Road	158.6	Ballina Bypass	164.0	-	-	-	-
G	-	Pimlico to Teven	163.7	Pimlico to Teven	165.5	-	-	Ballina Bypass (Section 11A)	

#### Table 4-1 Project Sections, Portions and Key Infrastructure

Note – Refer to Figure 1-1 for additional location information.

As outlined in Section 2.1 of the staging report and Chapter 5 of the project EIS, the Woolgoolga to Ballina project has been designed to both Class A and Class M highway configuration. The locations of Class A and Class M for each portion are outlined below:

- Portion A CH 34,300 to CH 82,000 (Class M)
- Portion B –CH 82,000 to CH 88,900 (Class M)
   CH 88,900 to CH 111,100 (Class A)
- Portion C CH 111,100 to CH 126,400 (Class A)
  - > CH 126,400 to CH 145,000 (Class M)
- Portion D CH 145,000 to CH 164,000 (Class M).

The figure bellows provides an outlined of the proposed distribution of Motorway and Arterial Classes as they relate to EIS Sections 3 to 11. This combination will be completed to balance affordability and resources while achieving the 2020 objectives.

Where required due to budget and affordability constraints, sections of the existing Pacific Highway may be reused. These sections will be upgraded as required. Further details on the pavement reuse strategy are described in section 4.2.1.



#### Figure 4-5 Motorway and Arterial Combination by EIS Section

#### 4.2.1 Pavement reuse strategy

As part of the detailed design and construction activities for Stage 2 of the highway upgrade, Pacific Complete and Roads and Maritime Services are examining the potential for reusing sections of existing highway where pavements could be re-used rather than construction of a completely new carriageway. The sections on the existing Pacific Highway proposed for reuse would be upgraded where required to meet the requirements of Arterial Class.

The primary benefits with the reuse of existing pavements include the reduction in capital expenditure and delivery program as well as reducing disruption to communities during the construction phase. It also allows RMS to realise benefits of the remaining lifespan of previously installed pavement. The sections currently identified for potential reuse still has suitable asset lifespan remaining.

In addition, opportunities to reuse existing pavements will realise saving in areas of native vegetation clearing.

Potential locations will be further assessed and refined during detailed design in consultation with Roads and Maritime Services. The final decision would be made during the detailed design phase of the project as relevant affordability, technical and constructability investigations are completed. Total life costs (which include construction and ongoing maintenance costs) are also being considered in addition to environmental impacts.

Matters relating to compliance with the Conditions of Approval, including but not limited to flooding, biodiversity and connectivity, traffic and noise, will be addressed for these sections in accordance with the existing commitments.

Where existing pavements cannot be reused, construction methodologies will include the harvesting of existing pavement material and its reuse as part of the select material zone layers of the new alignment.

Notwithstanding the above where fauna connectivity structures are required in re-use sections these will also be included in the scope of works as per approved Connectivity Strategy required under NSW Condition of Approval D2 and federal Condition of Approval 14b.

# 4.3 **Program (schedule)**

Table 4-2 shows the planned start and end date for each project portion of the project. These dates are indicative and may change during detailed design or when construction contractors are procured.

		2016			2017			2018				2019				
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
Portion A (Sections 3 & 4)																
Portion B (Section 5 & 6)																
Portion C (Section 7, 8 & 9)																
Portion D (Section 10 & 11)																
Portion E (Clarence River Bridge)																
Portion F (Richmond River Bridge)																
Portion G (Pimlico to Teven)																

#### Table 4-2 Construction activities and timeframes

Source: Approved Pacific Complete Construction Environmental Management Plan

# 4.4 **Opening sequence**

Construction activities for the Project are detailed in Chapter 6 of the project Environmental Impact Statement. As outlined above in Table 4-2, the date for completion of construction activities across the Project length varies in each section / portion. These indicative dates

shown are all subject to the commencement date of each Contractor(s) in each section or portion, and subject to the potential impacts from wet weather events. Given the complexity of construction traffic management across the project, and the proximity of the construction activities to the existing road network it is anticipated that the new highway alignment would be progressively opened to traffic across the project length.

Progressively opening the new highway alignment to traffic will:

- Enable highway traffic to utilise the new upgrade sections when appropriate
- Improve road safety and separation of construction and live traffic in these complex traffic staging arrangements
- Allow completion of construction activities at key tie-in locations to the existing road network.
- Allow finishing works to occur, such as:
  - o Installation of pavement markings, signposting, street lighting
  - o Progressive landscaping and tree planting
  - Site clean-up and demobilisation, including restoration of ancillary sites and construction access roads (where required).

The project approval facilitates the concurrent construction and operation of the project. Where part of the project is open to traffic, except in relation to traffic switches or temporary use of carriageways, then that part of the project is considered to be operation.

However, the following construction activities may be carried out after a section / portion of the upgraded highway is opened to traffic:

- Construction activities that take place on both the main line and local roads
- Tie-ins for surrounding infrastructure
- Landscaping
- Defect rectification.

An updated staging report (including construction and operation staging) would be provided to the Department prior to the commencement of operation of each specific section.

#### **5** Stage 3 Future Pavement Upgrades

The pavement reuse strategy outlined in Section 4.2.1 has the potential to identify areas of pavement reuse that could benefit both the program and associated capital expenditure during Stage 2 of the project. There is further benefit to Roads and Maritime Services as pavement is retained until it reaches the end of its design life.

The re-use strategy discussed above is intended to facilitate the upgrade objectives through to 2020 and will be utilised where appropriate to ensure budgetary constraints are addressed.

Once the pavement re-use areas reach the end of their design life they would be progressively upgraded to A or M Class as required by RMS as part of the routine pavement maintenance program for the NSW road network. This would be considered Stage 3 of the project. The schedule for these upgrade works will align with affordability and budget constraints.

Stage 2 is scheduled for completion in 2020. It is important to note that Stage 3 activities will occur progressively as required in the future and following the completion of the Stage 2 construction activities. Stage 3 will be undertaken in accordance with the RMS environmental management framework.

The Stage 3 Staging Report will be developed to address the proposed future pavement upgrades. This would include a detailed discussion on the applicable conditions of approval.

#### 6 Stage 4

#### 6.1 Upgrade to M Class highway

The design and construction of the highway during Stage 1 and 2 would allow for future upgrade to the ultimate M Class arrangements. Refer to Section 4.2 for locations where the highway would be upgraded to Class A in Stage 1 and 2, and subsequently upgraded to Class M in Stage 4.

The upgrade to M Class would include the key features outlined in Table 6-1.

Feature	Motorway Class standard				
Highway	A divided road with two lanes in each direction and a median sufficiently wide to allow further upgrade to three lanes in each direction (six lanes in total), when required.				
Access	Controlled access only. No direct public access would be allowed to the carriageways between interchanges. Service road access to the project would be limited to on-ramps and off-ramps at interchanges.				
Interchanges	Interchanges would be grade-separated with no cross-carriageway movements. Full acceleration and deceleration lanes would be provided to on-ramps and off-ramps.				
Posted speed limit	110 kilometres per hour.				
Intersections	All entry to, exit from and crossings of the main carriageways would be via interchanges.				
Alternative routes	A continuous alternative route (service road) would be provided with a desirable design standard of 80 kilometres per hour where possible. RMS would confirm the posted speed limit in consultation with local councils.				
U-turn facilities	No U-turn facilities would be provided. Arterial standard U-turn bays would be closed to the public.				
Emergency crossover facilities	Combined crossover/U-turn facilities would be provided for emergency use only, every 2.5 kilometres or so.				

Table 6-1 Key features of Stage 4

## 7 Occurrence of threatened species, ecological communities and migratory species

The following section summarises existing threatened ecological communities, threatened fauna and threatened flora species within and adjacent to the project area.

#### 7.1 Stage 1

Table 7-1, 7-2 and 7-3 outline the threatened ecological communities, threatened fauna and threatened flora species relevant to Section 1, Section 2 and the soft soil wave works that were outlined in the Staging Report Version 1 (March 2015). These tables have been reproduced from those in the Staging Report Version 1 (March 2015).

#### Table 7-1 Threatened ecological communities relevant to Stage 1

Common name	EPBC Act	TSC Act	Section (1&2)	Soft soils (Waves 1, 2 & 3)
Littoral rainforest and Coastal Vine Thickets of Eastern Australia	Critically Endangered	Endangered	NA	NA
Lowland Rainforest of Subtropical Australia (EPBC listed)	Critically Endangered	Endangered	NA	NA
Lowland Rainforest of Subtropical Australia (NSW EEC)		Endangered	All	NA
Subtropical Coastal Floodplain Forest of NSW North Coast Bioregion	_	Endangered	All	All
Swamp Sclerophyll Forest on Coastal Floodplains of the NSW North Coast, Sydney Basin and South East Corner Bioregions	_	Endangered	All	All
Mangroves	_	Listed under Fisheries Act	NA	1, 3
Swamp Oak Floodplain Forest of the NSW North Coast, Sydney Basin and South East Corner Bioregions	-	Endangered	NA	1, 3
Coastal Cypress Pine Shrubby Open Forest of the North Coast Bioregion	_	Endangered	NA	NA
Freshwater Wetlands on Coastal Floodplains of the NSW North Coast, Sydney Basin, and South East Corner Bioregions	_	Endangered	NA	1, 3

#### Table 7-2 Threatened fauna relevant to Stage 1

Common name	Scientific Name	EPBC Act	TSC Act	Section (1&2)	Soft soils (Waves 1, 2 & 3)
Green-thighed Frog	Litoria brevipalmata	-	Vulnerable	All	NA
Wallum Sedge Frog	Litoria olongburensis	Vulnerable	Vulnerable	NA	NA
Giant Barred Frog	Mixophyes iteratus	Endangered	Endangered	All	NA
Coastal Emu	Dromaius novaehollandiae	-	Endangered Population	NA	1, 3
Yellow-bellied Glider	Petaurus australis	_	Vulnerable	All	NA
Squirrel Glider	Petaurus norfolcensis	-	Vulnerable	All	NA

Rufous Bettong	Aepyprymnus rufescens	-	Vulnerable	All	NA
Spotted-tailed Quoll	Dasyurus maculatus	Endangered	Endangered	All	3
Brush-tailed Phascogale	Phascogale tapoatafa	-	Vulnerable	All	1, 3
Koala	Phascolarctos cinereus	Vulnerable	Vulnerable	All	1, 3
Long-nosed Potoroo	Potorous tridactylus	Vulnerable	Vulnerable	NA	NA
Little Bentwing-bat	Miniopterus australis	-	Vulnerable	All	NA
Eastern Bentwing-bat	Miniopterus schreibersii oceanensis	-	Vulnerable	All	NA
Southern Myotis	Myotis macropus	Vulnerable	Vulnerable	All	NA
Large-eared Pied Bat	Chaminolobus dwyeri	Vulnerable	Vulnerable	NA	NA
Atlas Rainforest Ground Beetle	Nurus atlas	_	Endangered	NA	NA
Pink Underwing Moth	Phyllodes imperialis	Endangered	Endangered	NA	NA
Oxleyan Pygmy Perch	Nannoperca oxleyana	Endangered	Endangered	NA	NA
Swift Parrot	Lathamus discolour	Endangered, Migratory	Endangered	All	NA
Regent Honeyeater	Xanthomyza Phrygia	Critically Endagered	Endangered	All	NA
Grey-crowned babblers	Pomatostomus temporalis	_	Vulnerable	2	NA
Common planigale	Planigale maculata	-	Vulnerable	All	NA

#### Table 7-3 Threatened flora relevant to Stage 1

Common name	Scientific Name	EPBC Act	TSC Act	Section (1&2)	Soft soils (Wave 1, 2 & 3)
Sandstone Roughbarked Apple	Angophora robur	Vulnerable	Vulnerable	NA	NA
Hairy Joint Grass	Arthraxon hispidus	Vulnerable	Vulnerable	1	3
Water Nutgrass	Cyperus aquatilis	-	Endangered	All	NA
Square-stemmed Spike-rush	Eleocharis tetraquetra	-	Endangered	1	NA
Square-fruited Ironbark	Eucalyptus tetrapleura	Vulnerable	Vulnerable	2	NA
Four-tailed Grevillea	Grevillea quadricauda	Vulnerable	Vulnerable	NA	NA
Noah's False Chickweed or Lindernia	Lindernia alsinoides	-	Endangered	All	NA
Slender Screw Fern	Lindsaea incisa	Endangered	Endangered	All	NA
Maundia	Maundia triglochinoides	-	Vulnerable	All	NA
Weeping Paperbark	Melaleuca irbyana	-	Endangered	NA	NA
King of the Fairies Orchid	Oberonia titania	-	Vulnerable	NA	NA
Yellow-flowered King of the Fairies Orchid	Oberonia complanata	-	Endangered	NA	NA
Square-stemmed Olax	Olax angulata	-	Vulnerable	2	NA
Slender Knotweed or Tall Knotweed	Persicaria elatior	Vulnerable	Vulnerable	NA	1, 3

Southern Swamp Orchid	Phaius australis	Endangered	Endangered	NA	NA
Singleton Mint Bush	Prostanthera cineolifera	Vulnerable	Vulnerable	NA	NA
Swamp Mint Bush	Prostanthera palustris	Vulnerable	Vulnerable	NA	NA
Moonee Quassia	Quassia sp. 'Moonee Creek'	Endangered	Endangered	1	NA
Scented Acronychia	Acronychia littoralis	Endangered	Vulnerable	NA	NA
Acalypha	Acalypha eremorum	Vulnerable	Endangered	NA	NA
White Lace Flower	Archidendron hendersonii	_	Vulnerable	NA	NA
Needle-leaf Fern	Belvisia mucronata	-	Endangered	NA	NA
Stinking Cryptocarya	Cryptocarya foetida	Vulnerable	Vulnerable	NA	NA
Smooth Davidson's Plum	Davidsonia johnsonii	Endangered	Endangered	NA	NA
Rusty Rose Walnut	Endiandra hayesii	Vulnerable	Vulnerable	NA	NA
Green-leaved Rose Walnut	Endiandra muelleri subsp. bracteata	_	Endangered	NA	3
Axe-breaker	Coatesia paniculata syn. Geijera paniculata	_	Endangered	NA	NA
Rough-shelled Bush Nut	Macadamia tetraphylla	-	Vulnerable	NA	NA
Southern Ochrosia	Ochrosia moorei	Endangered	Endangered	NA	NA
Whalebone Tree	Streblus pendulinus syn. S. brunonianus	Endangered	_	NA	3
Red Lilly Pilly	Syzygium hodgkinsoniae	Vulnerable	Vulnerable	NA	NA
Arrow Head Vine	Tinospora tinosporoides	Vulnerable	Vulnerable	NA	NA

#### 7.2 Stage 2

Table 7-4, 7-5, 7-6 and 7-7 outline the threatened ecological communities, threatened flora species, threatened fauna and migratory species that occur within and adjacent to the project area in Sections 3 to 11 and the soft soil wave works outlined in Section 4.1.

Common name	EPBC Act	TSC Act	Section 3 to 11 <sup>1</sup>	Soft soils (Wave 1, 2, 3 & 4) <sup>2</sup>	Wave 5a, 5b & 5c <sup>2</sup>
Littoral Rainforest and Coastal Vine Thickets of Eastern Australia	Critically Endangered	Endangered	10	NA	NA
Lowland Rainforest of Subtropical Australia (EPBC listed)	Critically Endangered	Endangered	10,11	2	NA
Lowland Rainforest of Subtropical Australia (NSW EEC)	_	Endangered	3, 10, 11	2, 3	5a
Subtropical Coastal Floodplain Forest of NSW North Coast Bioregion	_	Endangered	All	All	All
Swamp Sclerophyll Forest on Coastal	-		3, 4, 5, 6,		All

Common name	EPBC Act	TSC Act	Section 3 to 11 <sup>1</sup>	Soft soils (Wave 1, 2, 3 & 4) <sup>2</sup>	Wave 5a, 5b & 5c <sup>2</sup>
Floodplains of the NSW North Coast, Sydney		Endangered	7, 8, 9,		
Basin and South East Corner Bioregions			10	1, 3, 4	
Mangroves		Listed under	5, 8, 10,		5c
Mangroves	_	Fisheries Act	11	1, 2, 4	50
Swamp Oak Floodplain Forest of the NSW North Coast, Sydney Basin and South East Corner Bioregions	-	Endangered	3, 4, 5, 8, 9, 10, 11	All	5a, 5c
Coastal Cypress Pine Shrubby Open Forest of the North Coast Bioregion	-	Endangered	8, 9, 10, 11	2, 4	5c
Freshwater Wetlands on Coastal Floodplains of the NSW North Coast, Sydney Basin, and South East Corner Bioregions	_	Endangered	3, 4, 8, 9	3, 4	5a, 5c

2: Species occurring within soft soil and wave locations are indicative only and have been taken from the section within which the wave works occur. Species specifically relevant to these wave works will be refined in the Construction Environmental Management Plans that will be produced for these works.

Common name	Scientific name	EPBC Act	TSC Act	Section 3 to 11 <sup>1</sup>	Soft soils (Wave 1, 2, 3 & 4) <sup>2</sup>	Wave 5a, 5b & 5c <sup>2</sup>
Sandstone rough- barked apple	Angophora robur	Vulnerable	Vulnerable	3,4	3	5a
White laceflower	Archidendron hendersonii	-	Vulnerable	10	NA	NA
Hairy-joint grass	Arthraxon hispidus	Vulnerable	Vulnerable	3,8,10	3, 4	5a, 5c
Carronia Vine <sup>3</sup>	Carronia multisepalea <sup>2</sup>	-	-	10	NA	NA
Stinking Cryptocarya	Cryptocarya foetida	Vulnerable	Vulnerable	10	NA	NA
Water nutgrass	Cyperus aquatilis	-	Endangered	6,7	NA	5b, 5c
Green-leaved rose walnut	Endiandra muelleri subsp. bracteata	-	Endangered	4,10	3	NA
Four-tailed grevillea	Grevillea quadricauda	Vulnerable	Vulnerable	3	3	5a
Slender screw fern	Lindsaea incise	Endangered	Endangered	3, 6	3	5a, 5b
Rough-shelled bush nut	Macadamia tetraphylla	-	Vulnerable	8,10	4	5c
Maundia	Maundia triglochinoides	-	Vulnerable	3,7	3	5a, 5c
Weeping paperbark	Melaleuca irbyana	-	Endangered	7	NA	5c
Yellow-flowered King of the Fairies	Oberonia complanata	-	Endangered	8	4	5c
Soldiers Crest Orchid	Oberonia titania	-	Vulnerable	10	NA	NA
Knotweed	Persicaria elatior	Vulnerable	Vulnerable	4,5	1, 3	NA
Singleton mint bush	Prostanthera cineolifera	Vulnerable	Vulnerable	6	NA	5b
-	Rotala tripartita	-	Endangered	6	NA	5b

#### Table 7-5 Threatened flora species relevant to Stage 2

Common name	Scientific name	EPBC Act	TSC Act	Section 3 to 11 <sup>1</sup>	Soft soils (Wave 1, 2, 3 & 4) <sup>2</sup>	Wave 5a, 5b & 5c <sup>2</sup>
Siah's Backbone	Streblus pendulinus	Endangered	-	4,8,10	3, 4	5c
Smooth-barked Rose Apple	Syzygium hodgkinsoniae	Vulnerable	Vulnerable	10	NA	NA

2: Species occurring within soft soil and wave locations are indicative only and have been taken from the section within which the wave works occur. Species specifically relevant to these wave works will be refined in the Construction Environmental Management Plans that will be produced for these works.

3: Carronia Vine (Carronia multisepalea) is not classified as threatened species under the TSC Act or EPBC Act, however, this species is a significant host plant for the endangered Southern Pink Underwing Moth (Phyllodes imperiallis smithersi).

#### Table 7-6 Fauna species relevant to Stage 2

Common name	Scientific name	EPBC Act	TSC Act	Confirmed Sections	Medium- High Likelihoo d Sections <sup>1</sup>	Soft soils (Wave 1, 2, 3 & 4) <sup>2</sup>	Wave 5a, 5b & 5c <sup>2</sup>
Birds							
Australasian Bittern	Botaurus poiciloptilus	Endangered	Endangered	3	4, 7, 8, 9, 10, 11	2, 3, 4	5a, 5c
Australian Painted Snipe	Rostratula australis	Vulnerable, Migratory	Endangered		All	All	All
Barking Owl	Ninox connivens	-	Vulnerable		All	All	All
Barred Cuckoo-shrike	Coracina lineata	-	Vulnerable		6, 7, 8, 9, 10, 11	2, 4	5b, 5c
Black Bittern	lxobrychus flavivollis	-	Vulnerable		3, 6, 7, 9	3	All
Black-chinned Honeyeater	Melithreptus gularis		Vulnerable	3	6, 7	3	All
Black-necked Stork	Ephippiorhynchus asiaticus	-	Endangered	3, 4, 5	All	All	All
Brolga	Grus rubicundus	-	Vulnerable	3, 4, 5, 10, 11	All	All	All
Brown Treecreeper	Climacteris picumnus	-	Vulnerable	3, 6, 7	4, 5	3	All
Bush Stone- curlew	Burhinus grallarius	Endangered			3	3	5a
Coastal Emu	Dromaius novaehollandiae	-	Endangered	3, 4	5	1, 3	5a
Comb-crested Jacana	lrediparra gallinacea	-	Vulnerable		3, 4, 5, 6, 7, 8, 9, 10, 11	1, 3	All
Double-eyed Fig-parrot	Cyclopsitta diophthalma coxeni	Endangered	CE		9, 10, 11	2	5c
Eastern Grass Owl	Tyto Iongimembris	-	Vulnerable	9, 10	All	All	All

Common name	Scientific name	EPBC Act	TSC Act	Confirmed Sections	Medium- High Likelihoo d Sections <sup>1</sup>	Soft soils (Wave 1, 2, 3 & 4) <sup>2</sup>	Wave 5a, 5b & 5c <sup>2</sup>
Eastern Osprey	Pandion haliaetus	Migratory	Vulnerable	3, 4, 5, 9, 10, 11	All	All	All
Freckled Duck	Stictonetta naevosa	-	Vulnerable		3, 5	1, 3	5a
Glossy Black- cockatoo	Calyptorhynchus lathami	-	Vulnerable	3, 7, 10	All	All	All
Grey-crowned Babbler	Pomatostomus temporalis temporarlis	-	Vulnerable	3, 6, 7, 8, 9, 10, 11	4	2, 3, 4	All
Ground Parrot	Pezoporus wallicus	-	Vulnerable		8, 9, 10	4	5c
Little Eagle	hieraaetus	-	Vulnerable		All	All	All
Little Lorikeet	Glossopsitta pusilla	-	Vulnerable		All	All	All
Magpie Goose	Anseranas semipalmata	-	Vulnerable	3	4, 5, 6, 8, 9, 10, 11	All	All
Mangrove Honeyeater	Lichenostomus fasciogulari	-	Vulnerable	10	4, 5, 9, 11	1, 2, 3	5c
Masked Owl	Tyto novaehollandiae	-	Vulnerable	6, 11	All	All	All
Pale-vented Bush Hen	Amauromis molucanna	-	Vulnerable		9, 10, 11	2	5c
Powerful Owl	Ninox strenua	-	Vulnerable	3, 7, 10	All	All	All
Red Goshawk	Erythrotriorchis radiates	Vulnerable	Critically Endangered		All	All	All
Regent Honeyeater	Zanthomyza phrygia	Endangered, Migratory	Endangered		All	All	All
Rose-crowned Fruit-dove	Ptilinopus regina	-	Vulnerable	10	All	All	All
Square-tailed Kite	Lophoictinia isura	-	Vulnerable		All	All	All
Superb Fruit- dove	Ptilinopus superbus	-	Vulnerable		All	All	All
Swift Parrot	Lathamus discolor	Endangered, Migratory	Endangered		All	All	All
Wompoo Fruit-dove	Ptilinopus magnificus	-	Vulnerable		6, 7, 8, 9, 10, 11	2, 4	5b, 5c
Microchiropter	an bats						
Beccari's Freetail-bat	Mormopterus beccari	-	Vulnerable		All	All	All
Eastern Bent- wing Bat	Miniopterus schrebersii oceanensis	-	Vulnerable	6, 7, 8, 9, 10, 11	All	All	All

Common name	Scientific name	EPBC Act	TSC Act	Confirmed Sections	Medium- High Likelihoo d Sections <sup>1</sup>	Soft soils (Wave 1, 2, 3 & 4) <sup>2</sup>	Wave 5a, 5b & 5c <sup>2</sup>
Eastern Cave Bat	Vespadelus troughtoni	-	Vulnerable	6, 7, 8, 9, 10, 11	All	All	All
Eastern False Pipistrelle	Falsistrellus tasmaniensis	-	Vulnerable	3	All	All	All
Eastern Freetail-bat	Mormopterus norfolkensus	-	Vulnerable	6, 7, 8, 9, 10, 11	All	All	All
Eastern Long- eared Bat	Nyctophilus bifax	-	Vulnerable	6, 7, 8, 9, 10, 11	All	All	All
Golden-tipped Bat	Kerivoula papuensis	-	Vulnerable	9, 10, 11	All	All	All
Greater Broad-nosed Bat	Scoteanax rueppellii	-	Vulnerable	9, 10, 11	All	All	All
Hoary Wattled Bat	Chalinolobus nigrogriseus	-	Vulnerable	3, 6, 7, 8	All	All	All
Large-eared Pied-bat	Chalinolobus dwyeri	Vulnerable	Vulnerable		3, 4, 5, 6, 7	1, 3	5a, 5b
Little Bent- wing Bat	Miniopterus australis	-	Vulnerable	All		All	All
Southern Myotis	Myotis macropus	-	Vulnerable	5, 6, 7, 8, 9, 10, 11	All	All	All
Yellow-bellied Sheathtail-bat	Saccolaimus flaviventris	-	Vulnerable	9, 10, 11	All	All	All
Megachiropter	an bats		L				
Common Blossom-bat	Syconycteris australis	-	Vulnerable	6, 7, 8, 9, 10, 11		2, 4	5b, 5c
Grey-headed Flying-fox	Pteropus poliocephalus	Vulnerable	Vulnerable	All		All	All
Mammals				•			
Brush-tailed Phascogale	Phascogale tapoatafa	-	Vulnerable	3, 4, 6, 7, 8	All	All	All
Common Planigale	Planigale maculata	-	Vulnerable	10	3, 6, 7, 8, 9, 11	2, 3, 4	All
Eastern Pygmy- possum	Cercartetus nanus	-	Vulnerable		All	All	All
Koala <sup>2</sup>	Phascolarctos cinereus <sup>2</sup>	Vulnerable	Vulnerable	3, 5, 7, 9, 10	All	All	All
Long-nosed Potoroo <sup>3</sup>	Potorous tridactylus tridactylus <sup>3</sup>	Vulnerable	Vulnerable	6, 7, 10	3, 8, 9, 11	2, 3, 4	All
Rufous Bettong	Aepyprymnus rufescens	-	Vulnerable	3	4, 5, 6, 7, 8	1, 3, 4	All

Common name	Scientific name	EPBC Act	TSC Act	Confirmed Sections	Medium- High Likelihoo d Sections <sup>1</sup>	Soft soils (Wave 1, 2, 3 & 4) <sup>2</sup>	Wave 5a, 5b & 5c <sup>2</sup>
Spotted-tailed Quoll	Dasyurus maculatus	Endangered	Vulnerable		All	All	All
Squirrel Glider	Petaurus norfolcensis	-	Vulnerable	3, 4, 5, 7, 8, 9, 10	All	All	All
Yellow-bellied Glider	Petaurus australis	-	Vulnerable	3, 6, 7	All	All	All
Frogs			-	•			
Wallum Froglet	Crinia tinnula	-	Vulnerable	3, 6, 7, 8, 9, 10, 11	All	All	All
Giant Barred Frog <sup>2</sup>	Mixophyes iterates <sup>2</sup>	Endangered	Endangered	7	3, 6	3	All
Green-thighed Frog	Litoria brevipalmata	-	Vulnerable	3, 5, 7, 8	4, 6	1, 3, 4	All
Olongburra Frog <sup>3</sup>	Litoria olongburensis <sup>3</sup>	Vulnerable	Vulnerable	8, 9, 10	7, 11	2, 4	5c
Reptiles							
Pale-headed Snake	Hoplocephalus bitorquatus	-	Vulnerable		3, 6, 7, 8	3, 4	All
Stephens' Banded Snake	Hoplocephalus stephensii	-	Vulnerable	3	6, 7, 8	4	All
Fish							
Eastern Freshwater Cod	Maccullochella ikei	Endangered	Endangered		3, 4, 5, 10	1, 3	5a
Oxleyan Pygmy Perch <sup>2</sup>	Nannoperca oxleyana <sup>2</sup>	Endangered	Endangered	6, 7, 8, 9	3, 10	3	All
Purple- spotted Gudgeon <sup>4</sup>	Mogurnda adspersa	-	Endangered				
Invertebrates							
Atlas Rainforest Ground Beetle	Nurus atlas	-	Endangered	10			NA
Coastal Petaltail	Petalura litoera	-	Endangered		3 ,4, 5, 7, 8, 9, 10	1, 3, 4	5a, 5c
Pink Underwing Moth	Phyllodes imperialis	Vulnerable	Vulnerable	10	9, 11	2	5c

2: Species occurring within soft soil and wave locations are indicative only and have been taken from the section within which the wave works occur. Species specifically relevant to these wave works will be refined in the Construction Environmental Management Plans that will be produced for these works.

Migratory species	EPBC Act status	Preferred habitat	Presence Section 3 to 11 <sup>1</sup>	Soft soils (Wave 1, 2, 3 & 4) <sup>2</sup>	Wave 5a, 5b and 5c <sup>2</sup>
Eastern Osprey ( <i>Pandion</i> <i>haliaetus</i> )	Marine; Migratory (BONN)	Occur in littoral and coastal habitats and terrestrial wetlands of tropical and temperate Australia and offshore islands. They are mostly found in coastal areas but occasionally travel inland along major rivers.	<b>Confirmed</b> in several locations associated with project sections 3-6 and 9-11. Predicted across the entire study area.	All	All
Great Egret ( <i>Egretta alba</i> )	Marine; Migratory (CAMBA, JAMBA)	Prefer shallow water, particularly when flowing, but may be seen on any watered area, including damp grasslands.	<b>Confirmed</b> in project section 8. High likelihood that the species occurs across the entire study area. This species is commonly reported in the Clarence Valley wetlands (Smith 2011), which is traversed by Section 3-5.	All	All
Cattle Egret ( <i>Ardea ibis</i> )	Marine; Migratory (CAMBA, JAMBA)	Is found in grasslands, woodlands and wetlands particularly in coastal areas. It also uses pastures and croplands, especially where drainage is poor. Is often seen with cattle and other stock.	<b>Confirmed</b> , recorded in all project sections 3-5 and 9-11 associated with grazing paddocks particularly in floodplains. Predicted across the entire study area and commonly reported in the Clarence valley wetland (Smith, 2011) which is traversed by section 3-5.	All	All
White-bellied Sea-Eagle ( <i>Haliaeetus</i> <i>leucogaster</i> )	Marine; Migratory (CAMBA)	Forages over large open fresh or saline waterbodies, coastal seas and open terrestrial areas (Higgins, 1999; Simpson & Day, 1999). Breeding habitat consists of tall trees, mangroves, cliffs, rocky outcrops, silts, caves and crevices and is located along the coast or major rivers. Breeding habitat is usually in or close to water, but may occur up to a kilometre away (Marchant & Higgins, 1993).	Predicted along the length of the study area mostly in floodplain, wetland, riverine or estuarine habitats associated with the Clarence River and Richmond River.	All	All
Satin Flycatcher ( <i>Myiagra</i> <i>cyanoleuca</i> )	Marine; Migratory (BONN)	Associated with drier eucalypt forests, absent from rainforests (Blakers et al., 1984), open forests, often at height (Simpson & Day, 1999).	Was <b>confirmed</b> in a number of sites in project sections 6- 8 in dense forest. Predicted throughout the study area in all forested habitats.	All	All

Migratory species	EPBC Act status	Preferred habitat	Presence Section 3 to 11 <sup>1</sup>	Soft soils (Wave 1, 2, 3 & 4) <sup>2</sup>	Wave 5a, 5b and 5c <sup>2</sup>
White Throated Needletail ( <i>Hirundapus</i> <i>caudacutus</i> )	Marine; Migratory(C AMBA, JAMBA, ROKAMBA )	Forages aerially over a variety of habitats usually over coastal and mountain areas, most likely with a preference for wooded areas (Higgins, 1999; Simpson & Day, 1999). Has been observed roosting in dense foliage of canopy trees, and may seek refuge in tree hollows in inclement weather (Higgins, 1999).	Small flock <b>confirmed</b> near Shark Creek in project section 4. Predicted throughout the study area in all forested habitats.	All	All
Rainbow Bee- eater ( <i>Merops</i> ornatus)	Marine; Migratory (JAMBA)	Occurs mainly in open forests and woodlands, shrublands, and in various cleared or semi-cleared habitats, including farmland and areas of human habitation (Higgins, 1999). Usually occurs in open, cleared or lightly-timbered areas, especially in arid or semi- arid areas, in riparian, floodplain or wetland vegetation assemblages (Woinarski et al., 1988).	<b>Confirmed</b> near Tucabia in Section 3. Predicted throughout the study area in dry forest and woodland habitats, typically prefers more open landscapes.	All	All
Swift Parrot ( <i>Lathamus</i> <i>discolor</i> )	Marine; Migratory; Endangere d	Forages in swamp and open eucalypt forests, feeding on nectar and pollen of flowering tree species.	Predicted throughout the study area in all forested habitats. Not observed from targeted surveys.	All	All
Regent Honeyeater ( <i>Xanthomyza</i> <i>phrygia</i> )	Migratory (JAMBA); Endangere d (as Anthochaer a phrygia)	Forages in swamp and open eucalypt forests, feeding on nectar and pollen of flowering tree species.	Predicted throughout the study area in all forested habitats. Not observed from targeted surveys.	All	All
Black-faced Monarch ( <i>Monarcha</i> <i>melanopsis</i> )	Marine; Migratory (BONN)	Occurs in rainforest and eucalypt forests, feeding in tangled understorey (Blakers et al., 1984).	<b>Confirmed</b> in dry forest habitat at one site near Tucabia in project section 4. Predicted throughout the study area in all forested habitats. Confirmed in dry forest near Tucabia in Section 4.	All	All
Rufous Fantail ( <i>Rhipidura</i> <i>rufifrons</i> )	Marine; Migratory (BONN)	Frequents wet forests, less often open forests and woodlands (Simpson & Day, 1999). May occur in open woodland and forest habitats throughout the north coast region.	One individual confirmed in project section 6 in Doubleduke State Forest. Predicted throughout the study area in all forested habitats.	All	All
Lathams Snipe (Gallinago harwickii)	Marine; Migratory(C AMBA,	Occurs in permanent and ephemeral wetlands, usually inhabiting open,	One individual <b>confirmed</b> in project section 3 in the	All	All

Migratory species	EPBC Act status	Preferred habitat	Presence Section 3 to 11 <sup>1</sup>	Soft soils (Wave 1, 2, 3 & 4) <sup>2</sup>	Wave 5a, 5b and 5c <sup>2</sup>
	JAMBA, ROKAMBA )	freshwater wetlands with low, dense vegetation (e.g. swamps, flooded grasslands or heathlands, around bogs and other water bodies) (Frith et. al, 1977). However, they can also occur in habitats with saline or brackish water, in modified or artificial habitats, and in habitats located close to humans or human activity (Frith et al, 1977)	Coldstream wetlands. Predicted throughout the study area particularly in floodplain areas of the Richmond River, Clarence River and Corindi River.		
Australian Painted Snipe ( <i>Rostratula</i> <i>australis</i> )	Marine; Migratory (CAMBA)	Generally inhabits shallow terrestrial freshwater (occasionally brackish) wetlands, including temporary and permanent lakes, swamps and claypans. They also use inundated or waterlogged grassland or saltmarsh, dams, rice crops, sewage treatment plants and bore drains. Typical sites include those with rank emergent tussocks of grass, sedges, rushes or reeds, or samphire; often with scattered clumps of <i>lignum Muehlenbeckia</i> or canegrass or sometimes tea-tree (Melaleuca).	Predicted throughout the study area particularly in floodplain areas of the Richmond River, Clarence River and Corindi River. Not observed during targeted field surveys.	All	All
Spectacled Monarch ( <i>Monarcha</i> <i>trivirgatus</i> )	Marine; Migratory (BONN)	Occurs in rainforest and eucalypt forests, feeding in tangled understorey (Blakers et al., 1984).	Predicted throughout the study area in all forested habitats. Not observed during targeted field surveys.	All	All

2: Species occurring within soft soil and wave locations are indicative only and have been taken from the section within which the wave works occur. Species specifically relevant to these wave works will be refined in the Construction Environmental Management Plans that will be produced for these works.

## 8 Threatened Species Management Plans required under condition of approval D8

Table 8-1 outlines the Threatened Species Management Plans prepared under NSW Conditions of Approval D8. These management plans detail how the impacts of the project will be minimised and managed for each individual species identified to be significantly impacted by the project.

Table 8-1 Species Managemen	t Plans applicable to the Project
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Management	Sta	ge 1	ŀ	A		В		С			D
Plan	Section 1	Section 2	Section 3	Section 4	Section 5	Section 6	Section 7	Section 8	Section 9	Section 10	Section 11
Threatened Flora Management Plan	Sections 1 soft soi	April/May	Versi	on 3 (approve	ed Aug/ Sept 2	2015) is an upda	ate of Version	2.1 and applie	s to Sections 1 t	to 11 and soft s	oil works
Threatened Frog Management Plan			Version	2.1 applies to	Sections 1 to	o 11 – not applic	able to soft so	il works (appro	oved May 2015)		
Threatened Glider Management Plan			Version	2.1 applies to	Sections 1 to	o 11 – not applic	able to soft so	il works (appro	oved May 2015)		
Threatened Mammal Management Plan	Sections 1 applicable works (app	1 applies to and 2 – not to soft soil proved May 15)		Versio	n 3.1 (approve	ed Oct 2015) is a	an update of \	/ersion 2.1 and	d applies to Sect	tions 1 to 11	
Threatened Fish Management Plan						/ersion 3 applies	•				
Threatened Invertebrates Management Plan										Sections 10 applicable	3 applies to and 11 – not to soft soils d July 2015)

Management	Sta	ge 1	ŀ	4		В		С			D
Plan	Section 1	Section 2	Section 3	Section 4	Section 5	Section 6	Section 7	Section 8	Section 9	Section 10	Section 11
Threatened Rainforest Communities and Rainforest Plants Management Plan										Sections 10 applicable	applies to and 11 – not to soft soils Aug 2015)
Microbat Management Plan	Section 1 a applicable (approved)	applies to and 2 – not to soft soils September 14)	Ver	sion 2 (appro	ved May 2015	5) is a separate	report and app	olies to Section	is 3 to 11 – not	applicable to so	ft soils
Threatened Coastal Emu Management Plan			Sections 3 applicable	1 applies to and 4 – not to soft soils Jan 2016)							
Threatened Koala Management Plan	Section 1 applicable	applies to and 2 not to soft soils May 2015)				an updates of V ombah/ Iluka Ko				oala Plan or approval)	

Note: Koala Management Plan (update 3) for Iluka population, Broadwater (north of Lang Hill) to be submitted in July 2016 with Koala Management Plan covering Coolgardie (Section 10) for approval following DoE approval of the Ballina Koala Plan. The Ballina Koala Plan was submitted to DoE for approval in February 2016.

### Appendix A Application of NSW Conditions of Approval

0 0	COMPLIANCE TRACKING - NSW CONDITIONS OF APPROVAL Woolgoolga to Ballina SSI-4963				<b>7</b> 4'Z		Tran: Road	Transport Roads & Maritime
- Ac	PART A - Administrative Conditions	Repr	oduced from \	Reproduced from W2B Staging Report, March 2015.	-9	GOVERNMENT	Servi	ces
Part	Requirement	Section1 and [W	Soft soils (Wave 1, 2 & 3)	orage i Comment	Section 3 to 11	Soft soils (Wave 1, 2, 3 & 4)	Wave 5a, 5b &5c	ouge z Comment
	OBLICATION TO INIMUMISE THAN TO THE EXPLONMENT And addition to metry the specific performance criteria establehed under this approval, the Applicant shall implement all feasible and reasonable measures to prevent and/or minimise any harm to the restrict acts act action on the intervent from the construction or poreation of the SSI	All	AI		All	чı	AI	Noted.
	The Applicant shall carry out the SSI generally in accordance with the: (1) State sponticant intranctuce application SSL465. (2) State sponticant intranctuce application SSL465. (3) State sponticant intranctuce application SSL465. (3) State sponticant intranctuce application SSL465. (4) State sponticant intranctuce application SSL465. (4) State sponticant intranctuce application SSL465. (4) State sponticant intranctuce application SSL465. (5) Anders (2) State sponticant interaction SSL465. (6) Anders (2) State sponticant interaction SSL465. (6) Anders (2) State sponticant interaction SSL465. (6) Anders (2) State sponticant interaction SSL465. (7) Paddim (2) Anders (2) State interaction SSL465. (7) Paddim (2) Anders (2)	ч	21 7	Part (e) of this condition does not apply to Section 1 and 2. however part (e) apples to Section 1 and 2. any the project with regard to the document 	АІ	АІ	ч	poton
A3	If there is any inconsistency between the above documents, the more recent document shall prevail to the extent of the inconsistency. However, the conditions of this approval shall prevail to the extent of any inconsistency.	AI	AI		AII	VI	VI	Noted
	The Applicant shall comply with any reasonable requirement(s) of the Secretary arising from the Department of Planning and Environment's assessment of (a) any reheaper, approved a subtic reports or correspondence that are stormined in accordance with this approval, and (b) the mitemendation of any actions or measures contrained in these adomined in accordance with this approval, and	All	AI		AI	AI	M	Noled.
	L This approval shall lapse 10 years after the date on which it is granted, unless the works the subject of this SSI approval are physically commenced on or before that date.	AI	AI		All	All	All	Project commenced in 2015.
A6 for for	and according to the set of the set. No condition of this approval removes the obligation for the Applicant to obtain, tenew or comply with such teneves, permits or approvals.	ν	īč		ч	ч	₹	Pacific Complete has obtained an Environment Protoction Licence (EPL) for \$3-\$11 (No 20173, 29 Protoction Licence (EPL) for \$3-\$11 (No 20173, 29 diatament 2016) in the EVL is an early Mare 2 504 diatament by comfactors (Ware 1 and Ware 2 504 diatament by comfactors (Ware 1 and Ware 2 504 for the early set of the project.
A7 (a) (b) Wh	The Applicant may elect b construct and/or operate the SSI in stages. Where staging is proposed, the Applicant shall submit a Staging Report to the Secretary prior to the commencement of each proposed stage. The Staging Report shall provide details of to the stage and the general timing or where each stage world commence. and to be stages of the instruction of a stage stage and the general timing or where the SSI was apply used and and the stage and the general timing or where the stages of the SSI was applyed to the stage and the general timing or where the stages of the SSI. The SSI was applyed and and the start stages and the general timing or where the stages of the SSI. Where stages of the SSI is proposed, these conditions of approval are only required to be completed with at the relevant time and to the extent that they are relevant to the specific stage(s).	л	AI		АІ	АК	А	This document is a revised Staging Report for the Pacific Complete activities
A8 No	<ul> <li>SUP SECTION OF AND OF PRODOCIAN</li> <li>The Applicant shall neare that any stategy, plan, program or ober document required by the conditions of this approval and relevant to each stage (as identified in the Staging Report) is submitted to the Steelery too later than one month print to the commencement of the relevant stage(s), where a program set all relevant to each stage (as identified in the Staging Report) is submitted to the Steelery too later than one month print to the commencement of the relevant stage(s), where a predict of the Steelery too later than one month print to the commencement of the relevant stage(s), where a predict of the cost that the relevant stage) than one program may be submitted on a program stall that the relevant state of the state of the cost that the cost the operations of any stategy, plan or program may be submitted on a program set state of the relevant state of the relevant state of the descripted to the state of the state of print.</li> <li>As the submitted on any state of the submitted on a program state of the relevant state of the operation of any state of the state of the relevant state of the state of the</li></ul>	ч	VI		Ы	АІ	м	Noted.
64 	The Applicant shall ensure that employees, contractors and sub-contractors are aware of, and comply with, the conditions of this approval relevant to their respective activities.	R.	AI		Я	Я	7	This requirement is addressed in the Pacific Complete CEMP (Main Document: Section 5 Completion: Timping and Avareness) Pacific Complete with approve Contractor EMPs and EWVISs and apprv MISTS représentation en enterne compliance with this CoA. Separation and approved CEMP documentation is in place for soft soft works (Varve 1 and Wave 2).
A10 Th	The Applicant shall be responsible for environmental impacts resulting from the actions of all persons that it invites onto the site, including contractors, sub-contractors and visitors.	АІІ	АН		AI	АІ	W	Notod
-								

Category Part	Par	Requirement	Section1 and 2	Mave 1, 2 &	ls 2 & Comment	Section 3 to 11	(Wave 1, 2, 3	Wave 5a, 5b &5c	Comment
	AIT	the event of a dispute between the Applicant and a public authority, in relation to an applicable requirement in this approval or relevant matter relating to the SSI, excretary for resolution. The Secretary's determination of any such dispute shall be final and binding on the parties.	Ч	NI V		Ч	All		Noted
	AIS	In the Applicant shall notify the Secretary and relevant public authorities of any incident with actual or potential significant off-site impacts on people or the biophysical environment within 24 hours of becoming a wave of the incident. The Applicant shall provide full written datals of the incident to the Secretary writin seven days of the date on which he incident actual environment within 24 hours of becoming becomes an incident also requires reporting to the EPA and/or OEH, the incident report prepared for the purposes of notifying the EPA and/or OEH would meet this requirement.	T	AI		Y	R		This is addressed in approved Padic Complete CEM from document 2 setters 71 though the Reporting) and is also addressed in Padic Com Complexity and a setter and a set of the Reporting to Secretary. Separate and a ground CEMP documentation is in place for soft soft work (Valve 1 and Valve 2).
	A13		AI	AII		ч	AI	AI	Noted
	-					-			

PART B - Environmental Performance       category     Part       category     Part       category     Part       BIOUVERSITY     In the cleaning of halive vegetation shall be mininsed with the of (a) cleaning of halive vegetation shall be mininsed with the of (a) cleaning of halive vegetation for and area       B1     (b) cleaning of halive vegetation shall be mininsed with the of (a) cleaning of halive vegetation for an encliney facilities specified from and area       B1     (b) cleaning of halive vegetation for ancilley facilities specified from and area       B2     Where for adject to conclude B1(d).       B2     Where feasible and reasonable, remnant vegetation shall be noted and and and and and and and and and an	al Performance						MS	Roads & Maritime
B B B		Reprod	uced from W2B	Reproduced from W2B Staging Report, March 2015.		-0	OVERNMENT	Services
B B	Requirement	Section 1 and (M	Soft solis (Wave 1, 2 & 3)	Stage 1 Comments	Section 3 to 11	Soft soils (Wave 1, 2, 3 8, 4)	v Wave 5a, 5b &	Sage 2 Comment
	The charing of narive weghation shall be minimised with the objective of reducing impacts to any threatened species or EECs where frastible and reasonable, consistent with the following (a) charing of narive weghation shall be minimised with the objective of reducing impacts to any threatened species or EECs where frastible and reasonable, consistent with the following (a) charing of narive weghation shall be limited to a fold are 03.1.7 horizons, within the SSI boundary defined in the document fraction (b)(b). (b) charing of narive weghation for ancillery factored to in condition A2(d) and outside the SSI boundary defined in the document referred to in condition A2(c) shall be finited to 4.1.3 horizon of threatened coordism factored to the areas specified in Table 6-1 (under the column tiled Revised-direct impact (horizons) of Appondix J of the document referred to in (c) charing of threatened coordism (B1(d)). (d) charing of the Litteral Rainforest in the New South Shalls shall be limited to a lotal area of 0.5 horizons, and (c) charing of the Litteral Rainforest in the New South Shalls shall be limited to a bid area of 375 horizons.	AI	. IV	Nor al clauses of this condition will aply to each stage. An assessment will be made as the applicability of specific clauses pror to construction.	AI	W	IV	RMS and the Contractor will ensure compliance with the RMS and the Contractor will ensure compliance with the annual contractor deaming into which the home Approval detailed with the dejective bring to reduce mipacts to detailed with the dejective bring to reduce mapcils to researches Castrarg firmts will be clearly shown on researches denotes of ECs why who no researches denotes and the project.
	Where leastble and reasonable, remnant vegetation shall be retained between the SSI boundary and the SSI toopprint.	AI	AI	Vogetation clearance limits have been defined during detailed design for Stage 1 Roads and Maithine is subtliked that this condition has been met. Clearance will be monitored throughout construction.	All	AII	AI	Vogetation clearance limits will be defined during the defailed dresign. Overall vogetation clearance (design plus actual construction clearance) will be monitored on a regular basis during the W2B project.
B3 Native vegetation shall be er consistent with the Urban Dr	Nerve vegetation shall be established in or adjacent to disturbed areas within the SSI boundary to provide habitat for widtle following the completion of construction in the vicinity of the disturbed area, consistent with the Urban Design and Landscape Plan required under condition D20.	ЯІ	NA	Wave 1, 2 and 3 soft soit works is an early construction phase and dees not include an Urban Design and Landscape Plan	АН	¥ N	¥ Z	During detailed design, Urban Design and Landscape During detailed design, Urban Design and Landscape prepared. Soils soils works (warva) is an only construction phase activity and does not include an Urban Design and Landscape Plan Urban Design and Landscape Plan Urban Design and Landscape Plan Construction activities that do not comprise any elements of permanent build works.
B4 Light spill from the SSI shall	Light split from the SSI shall be avoided on Prik Underwing Moth and Allias Rainforest Ground Beetle habital, where feasible and reasonable.	NA	NA		10	NA	NA	To be addressed during detailed design as per the Threatened invertebrates Management Plan (approved 30 July 2015)
B5	Pror to construction, pro clearing surveys and inspections for endangered and threatened spocies shall be undertaken. The surveys and inspections, and any subsequent relocation of spocies, shall be undertaken under the guidance of a subtaky qualified endopyring and the methodogy incorporated into the approved Construction Flora and Fauna Management Plan. All clearing of Koala habitat trees shall be undertaken in the presence of a Koala spotter.	ч	NI .		IV	YI.	ч	This requirement is addressed in the Pacific Complete CEMP (Appendix R2, -Construction Franca and Faunts Departed Plan, Section 5.4 The Cate and Faunts Section 5.4 The and chapture and Handfing and Section 5.4 Themas Capture and Handfing and R2MSC specification for the same pactore Pacific Complete will approve Contractor EMPs and Pacific Complete will happrove Contractor EMP Contractor and approved CEMP documentation is in place for soft sed works (Ware 1 and Wave 2)
B6 Incidential or unanticipated th accordance with the Constit	Incidential or unanticipated threatened flora and fauna finds shall be immediately reported and clearing work stopped in the viciarly of the find to allow for an evaluation of an appropriate response in accordance with the Construction Flora and Fauna Management Plan.	IV	VI		АІ	N	IV	This requirement is addressed in the Pacific Complete Memory Constructions To Constructions of Pacific Complete Memory Pan, Apponds N. Fanan Harahing and Rescue Procedure and Appendix O. Unexpected Rescue Procedure and Appendix O. Unexpected Complete with appove Contractor EMN's and EWN's Complete with this Cont. Separate and approved CEMP documentation is in place for soft soil works (Wave 1 and Wave 2).
OXLEYAN PYGAY PECH PAGILAL Br High risk construction activit prodicts a 90% chance of 1	High risk construction activities in known Oxieyan Pygmy Perch habitat shall not be undertaken during the Oxleyan Pygmy Perch spawming period, or on days when the relevant Bureau of Meteorology ste predicts a 50% chance of 10mm of ran or more, unless otherwise agreed by DPI (Fisteries).	ž	Y		6, 7, 8, 9	¥ N	5b, 5c	This requirement is addressed in Pacific Complete CEMP Approvide R2 Construction Florid and Fauna Management Plan, Appendix J Threatened Fish Management Plan, Pacific Complete with approve Contractor EMPs and EVMNs and approve Contractor EMPs and EVMNs and approve Specifications to ensure compliance with this CoA.

Category	Part	Requirement	1 and	Soft soils	Comments	Section 3 to	Soft soils Mave 1. 2. 3	Wave Sa, Sb &	Comment
			2	(Wave 1, 2 & 3)		F	& 4)	8	
	88 B	Temporary bridge or arch stuctures in known Oxleyan Pygny Perch habitat shall be used if the crossing is intended to be in place for more than 3 months.	NA	М		6,7,8,9	NA	5b, 5c	This requirement is addressed in Pacific Complete CEMP (Appendix B.2. Construction Flora and Fauna Management Plan). Pacific Complete will approve Management Plan). Pacific Complete will approve Contractors to ensure completerow with this CoA Design aspects would be addressed during dealed design.
	ŝ	Where temporary crossings in known Oxleyan Pygmy Perch habitat are proposed with culverts or pipes, the Applicant shall, in consultation with DPI (Fishenes). (a) determinant are culverts or pass to facilitating the stategory and (b) determinants are of determinants are of the curve that of the Oxleyan Pygmy Perch spawing periods of high flows. Temporary culvert or pipe crossings shall be removed prior to the start of the Oxleyan Pygmy Perch spawing period.	NA	NA		6, 7, 8, 9	NA	5b, 5c	This requirement is addressed in Pacific Complete CEMP (Approxib 22: Construction Floar and Sarus Management Flun, Apports J. Threatened Flah Management Paun, Pacific Complete with sprove Contracts EMPs and ExpWilss and apply MISPC Contracts to Flat and expWilss and apply MISPC Design aspects would be addressed during detailed design
CONNECTIVITY	B10	Subject to conditions B11 and B12, the Applicant shall review the Connectivity Strategy identified in the documents listed in condition A2(a), based on the outcomes of the Mitgation Framework required by received by the transmission of the Mitgation Framework required by received by the requirements for the Connectivity Strategy are contained in condition D2.	N.	ИА	Connectivity stategy does not apply to soft soit vortis as placement of succharge connectivity statutures. Connectivity stategy for these areas will be developed as part of detailed developed	VI	NA	VI	Connectivity strategy does not apply to soft solar works (reavers) as placement of succharge material with not constant the outcome for connectivity structures. Connectivity attrabuties will be propared as part of the dataled denign for S3 to S11, was Gas, Gas and Ca -with repeated to flaum connectivity, the anti-e mailing context to flaum not prevent connectivity solutions.
	B11	As part of dealled design, the Applicant shall further investigate design refinements for faura crossings and associated exclusionary measures, between station 41 500 and station 80 000 bs improve connectivity for the Cosstall Erru, and in the proximity of station 56 000 and tetheren station 159 700 to improve connectivity for the Koala. Any changes to fauna crossings and exclusionary measures shall be included in the Connectivity Statiagy required under condision D2.	NA.	NA	Wave 1 and 3 soft soil works occur partly within chainage 41,500 and 80,000 nowever fauna crossings are not part of this early construction activity.	3, 4, 5, 9, 10,	NA	Sa, 5c	Investigation of design refinements will be undertaken during detailed design. Connectivity strategies will be prepared as part of the detailed design for S3 to S11.
	B12	Investigations into the location and design of connectivity structures, including but not limited to those identified in the documents limited under conditions A2(e), shall be undertaken during detailed design with the input of a suitably qualified and experienced ecologist. The investigations shall be undertaken in consultation with the GEH EPA, DPI (Fisheries) and DoE and include workshops and on-site ground verification. The results of these investigations shall be downectivity Strategy required under conditions A2(e) and DoE and include workshops and on-site ground verification. The results of these investigations shall be downectivity Strategy required under condition D2.	All	NA	Connectivity structures are not included in Wave 1 and 3 soft soil construction activity.	All	NA	NA	To be addressed during debailed design. Connectivity strategies will be prepared as part of the detailed design for 53 to S11.
	813	The Applicant shall minimise riparian vegetation clearing during construction and undertake a terpeted rehabilitation program post construction to restore in-stream and riparian habitat to at least the pre- construction condition or better, unless otherwise agreed by DPI (Fisheriee). All areas distuted by the SSI that are in the vicinity of known Outeyan Pygmy Perch habitat wateways shall be stabilised prior to the Outeyan Pygmy Perch spawing ponde.	AI	AII		All	АІ	AII	This requirement is addressed in Pacific Complete CEMP Appendix 62. Consolution Provident and Sauna Management Paun Approvid. Threathened Tah Management Paun Pacific Complete with approve Contractor EMPs and EVMSs and ppty RNSPC specifications to ensure ecompliance with this CoA
	B14	The SSI shall be constructed with the aim of achieving the construction noise management levels dataled in the interim Construction Noise Guideline (DE.C., 2009). All feasible and reasonable noise mightane measures shall be implemented and any activities that could exceed the construction noise management levels shall be identified and managed in accordance with the Construction Noise and Matation Management Plan. Note: • The Interim Construction Noise Guideline identifies 'particularly armoying' activities that require the addition of 5dB(A) to the predicted level before comparing to the construction Noise Management Level.	АІ	Я		AII	Ы	АІ	This requirement is addressed in the Pacific Complete CEMP Appendix B - Construction Naise and Varation Amagement Dis. Section T Comparison and Amagement Measures. Pacific Complete will approve Contraction LEPP and CVDMS to ensure normaliance with is CAA. Separate and approved CEWP documentation is in place for soft ooil works (Wave 1 and Wave 2).
	815	Construction activities associated with the SSI shall be undertaken during the following standard construction hours. (a) 70bam te 00pm Monday & Friday, inclusive, and (b) 800am te 00pm Standay, and (c) at no time on Sunday or public holdoys	All	Ч		All	AI	All	The requirement is addressed in the Pacific Complete CRM Approximate B3 - Communication Netarelon Management Plan, Section 7 Environmental Control Measures and Appendic Control Hours Work Procedure J Factor Control Management Contractor Factor and EVMSts to reture compliance with this CAS Separate and a Perpoved CEMP accommentation is place for cardinal works (Wave 1 and Vave 2)

1	hete vration k ctor n	plete K tctor s CoA.	blete bration rrol s CoA. n	blete bration rol s CoA. in	bration ation d	plete bration ation bal ment sctor s CoA.	plete bration attion tai ment actor s CoA. in
Comment	This requirement is addressed in the Pacific Complete CEBP (Appendix B3. Construction Noise and Vehation Management Ellan, Appendix C Out of Hours Work Barbardus) Pacific Complete with approve Constactors EMPs and EVMISS to ensure compliance with this CAS Separate and approved CEMP documentation is in place for soft soil works (Wave 1 and Wave 2).	This requirement is addressed in the Pacific Complete CEMP (Apprendic B3 - Construction Noise and Vibration CEMP (Approximation Appendix Cont Hours Work Proceedure) Pacific Complete will approve Contractor EMP3 and EVMISS to ensure compliance with this CoA Separate and approved CEMP documentation is in place for soft soft works (Wave 1 and Wave 2).	This requirement is addressed in the Pacfic Complete Mean Program of the Pacfic Complete Maagement Pacin Section 7 Environmental Control Maagement Pacin Complete with Deprove Complete EMPs and EVMISs to ensure complete with this CoA Separate and approved CEMP documentation is in place for exit soil works (Wave 1 and Wave 2).	This requirement is addressed in the Pacific Complete CEMP (Appendix B3 - Construction Noise and Whrakan Management Pan, Stechor TErnwennehl Control Massues) Pacific Complete will approve Contractor EMPs and EVMSs to ensure complemen with this CoA Separate and approved CEMP documentation is in place for soft soft works (Wave 1 and Wave 2).	This requirement is addressed in the Pacific Complete CEMP (Appendix 83 - Construction Noise and Varation and appendent Pitti Scienci 65 Construction Varation and Blasting Assessment). Pacific Complete will prove Contractor EMPs and Equations and approve Contractor EMPs and Equation compliance with this CoA. Spinarta and approve CEMP documentation is in place for soft soft works (Wave 1 and Wave 2).	The requirement is addressed in the Pacific Complete Management Plan, Section 65 Construction Vibration Management Plan, Section 65 Construction Vibration Management Plan, Section 65 Construction Vibration Control Massues and Appendix 8 Biest Management Control Massues and Appendix B Biest Management Ember and Paprovid Complete with the CoA Sectional Pacific Assues and Appendix Compaction Section and approved CEMP documentations with this CoA Sectional approved CEMP documentation is in place for soft soil works (Vibrare 1 and Vibrare 2).	This requirement is addressed in the Pacific Complete CMM Repeating as addressed in the Pacific Complete Management Plan. Section 65 Construction Vetration and Balang Assessment. Section 7. Construction Nethalion Control Measures and Appendic B Blast Management Porosolum). Pacific Complete Will sprove Contracter EMPs and CMMSR or exerce complete Management place for soft soft worke (Wave 1 and Wave 2).
Wave Sa, 5b & Sc	F	AI	AI	Ā	W	AI	ч
Soft solls (Wave 1, 2, 3 & 4)	м	AII	All	AI	AI	All	AI
Section 3 to 11	ч	AII	AII	АІ	AI	Ч	All
Comments							
Soft solls (Wave 1, 2 & 3)	Γ	P	All	Ail	AI	All	١٢
Section 1 and 2	P	Ч	AI	АІ	AI	Ы	ы
	000), and receivers, or on Son hours may be reviewed and/or revolad by the Secretary	work) may be permitted outside the standard construction fon Environment Management Plan or Construction Noise includes: swee raised have been addressed and all feasible and	ken. ven each block onmencing any of the work the subject of this condison.	bet in sparsely populated areas.	cts of vibration on structures; or of vibration on structures; of explosives; and of explosives; and conservation, 2006)	ction hours. to avoid loss of life, property loss and/or to prevent	1 when measured at the most affected residence or other sectors.
Requirement	Construction works outside the standard construction hours may be undertaken in the following circumstances: (a) construction works outside the standard construction hours may be undertaken in the following circumstances: (b) construction works the SGRA) above a target aberdiserual end and accordance with the Inhelm Construction Noise Guideline (DECC. 2009), and (b) no more than the noise management works specified in Table 3 of the Inhelm Construction Noise Guideline (DECC. 2009), and (c) no more than the noise management bies specified in Table 3 of the Inhelm Construction Noise Guideline (DECC. 2009) at other sensitive receiver of (c) no more than the noise management bies specified in Table 3 of the Inhelm Construction Noise Outeline (DECC. 2009) at other sensitive receiver of (c) other is required in an immignery to active the standard construction Noise Warks (Second Const of the cash) reasons, or in consultation with the E7 And an act 6 down and 7 Open Monday to Friday (except public holidays) in sparsely populated areas (these construction hours may in consultation with the E7 And and other work of the construction Noise Values (construction and 7 Open Monday to Friday. (i) 6 down and 7 Open Monday to Friday. (ii) 6 down and 7 Open Monday to Friday. (ii) 6 down and 7 Open Monday to Friday. (ii) 0 works approved through an EFL, or (ii) works approved through an EFL, or (ii) works approved to var Christian Wangement Plan er Construction Noise and Viteration Management Plan for the SGI.	Construction activities which cannot be undertaken during the standard construction hours for technical or other justifiable reasone (Out of Hours work) may be permitted outside the standard construct hours with the approved for factorism Regressmale. Out of Hours work shall be undertaken in accordance with an approved construction Environment Management Plan or Construction No Nours with the approval of the Environment Regressmale. Out of Hours work. This consideration includes (a) process for cicklang the Environmental Regressmale's of Lot Nous work. This consideration includes (a) process for cicklang the Environmental Regressmale's of Nous work. (b) obtains of the number and need to enviro the Nous work. (c) obtains of the number and need to enviroke a construction hours. (c) parties the varied construction hours in the Construction hours. (d) provides evidence that construction with predime Treenviros and notification of ECC. 2009).	Construction activities resulting in impulsive or broat horize emission (such as rock breaking, rock hammering, pile driving) shall only be undertaken. (a) between the house of 800am bs 100pm aburday, and (b) between the house of 800am bs 100pm aburday, and (c) in continuous blocks on occessing the hours each with a minimum respite from those activities and works of not less than one hour between each block. For the purposes of this condition formitmucuit indicate any which there is less than a one hour respite between ceasing and for the purposes of this condition formitmucuit indicates any period during which there is less than a one hour respite between ceasing and recommending any The works subject to this condition formitmucuit instruction to spring during which there is less than a one hour respite between ceasing and recommending any the works subject to this condition may be undertaken in spareally provide a reas.	The Applicant shall, where feasible and reasonable. limit high noise impact activities and work to the mid-morning and mid-afternoon periods, except in sparse)	Actions The Si shall be constructed with the aim of activity the following construction vibration geals: The Si shall be constructed with the aim of activity the following construction vibration geals: (a) for structural diamage to herizing structures, the vibration finits set out in the German Standard DN 4150-3. Structural Vibration – Part 3 Effects of vibration on structures; (a) for structural diamage to herizing structures, the vibration finits set out in the British Standard BS 73845. (See See See See See See See See See Se	Blasting associated with the SCI shall only be undertaken during the following hours: (a) 0 00mm to 500pm, likenday to Friday, inclusion. (b) 0 00mm to Storper of Starbary and (c) at on the not Storper of Starbary and Easting under the above house and in accordance with the standard construction hours where: (i) at any ensemble receivers in starbard areas would be impacted by blasting, or (i) at agreement has been made with receivers within 200 metres of the blasting, or (ii) an agreement has been made with receivers within 200 metres of the blasting; or This conduction close not sprily in the event of a direction from the NW Police Froice or other relevant authority for safety or energigency reasons to avoid besit environmental harm.	The Applicant shall ensure that Airblast overpressure generated by blasting associated with the SSI shall not exceed the criteria specified in Table 1 when measured at the most affected residence or other semative receiver. Note • a semative site includes houses and low rise residential buildings, theatres, schools and other similar buildings occupied by people.
Category Part Requirement	Construction works outside the standard construction hours may be undertaken in the following arcumstances. (a) construction works that generate noise that is: (b) construction works that generate noise that is: (c) no more than the noise that agreed level any residences in accordance with the Inhimin Construction Noise Guideline (DECC. 3 (c) no more than the noise transgement device specified in Table 3 of the histonic Construction Noise Guideline (DECC. 2 (c) no more than the noise transgement devices specified in Table 3 of the histonic Construction Noise Guideline (DECC. 2 (c) no more than the noise transgement accession for lows: by the Strip Pelice Fronce or other antibutes for sensitive (c) where it is requered in an text of the loss of lows: property and/or is prevent conformental harm. c) is consultation and 7 00am and 6 00pm and 7.00pm Monday is friday (except public holidays) in sparsely populated areas (these construct (i) convolse impact activities and work between: (i) 6 00m and 7.00pm Monday is Friday, and (i) 6 00m and 7.00pm Monday is Friday. and (i) 9 works approved through an EL. or (i) works approved through an EL. or (i) works approved by a Construction Elvinoment Management Plan or Construction Noise and Viteration Management Plan for the SSI.	Construction activities which cannot be undertaken during the standard construction hours for technical or other justifiable reasons (Out of Hour ours with the approval of the Environmental Representative. Out of Hours work shall be undertaken in accordance with an approved construc- and Vitrakian Management PEnvironmental Representative. Out of Hours work, and penviron of Out of Hours work. This consideration (a) process for ordaning the Environmentative Part span provides a process for the consideration of Out of Hours work. This consideration (b) (b) elablistic for mature and need for activities that the Amm Construction Neus. (c) putries the valued contraction has approvaled provides ordination of Out of Hours work. This consideration (c) provides evaluate construction Neus in accordance with the Interm Construction Neus. (c) provides evaluate construction Neus in the Reserventation S approval of the relevant council has been undertaken, that the reasonable miggator maters have been and thin place; and (b) provides evidence of consultation with the EPA on the proposed variation in standard construction Neus.	Construction activities resulting in implicive or brins inclue emission (such as rock breaking, rock hammeting, pile driving) shall only be underta (a) between the house of 8.00mm bs 100pm Mendary bs Firlay. (b) between the house of 8.00mm bs 100pm Sautaking and B18 (c) in control exceeding the house each with a minimum respite from those activities and works of not test than one hour betw Firl the purposes of this condition road the undertaken in sparsely populated areas whilin the standard construction hours.	819	<ul> <li>Construct of larving sections</li> <li>The SSI shall be constructed with the aim of achieving the following construction vibration goals.</li> <li>The SSI shall be constructed with the aim of achieving the following construction vibration goals.</li> <li>(a) for structural damage to herdinge structures, the vibration finite set out in the forman Standard DN 4150-3; Structural Vibration – Part 3 Effe (b) for structural damage to behaving the indicate and or set out in the fibrit Standard DS 4551-1190 – Causation and measure what and master and vibration and evolution for the reflects on brindings (and reflection by herding).</li> <li>(b) for furnan exposure, the acceptable vibration values set out in Assessing Vibration. A Technical Guideline (Department of Environment and (c) for human exposure, the acceptable vibration values set out in Assessing Vibration. A Technical Guideline (Department of Environment and (c) for human exposure, the acceptable vibration values set out in Assessing Vibration. A Technical Guideline (Department of Environment and c) (c) for human exposure, the acceptable vibration values set out in Assessing Vibration. A Technical Guideline (Department of Environment and c) (c) for human exposure, the acceptable vibration values set out in Assessing Vibration. A Technical Guideline (Department of Environment and c) (c) for human exposure.</li> </ul>	Blasting associated with the SSI shall only be undertaken during the following hours. (a) 3 00am to 500pm. Monday to Friday, inclusive. (b) 9 00am to 100pm on Statubary, and (c) at for the on Solvady to Hollen holdary. B21 Blasting outside the above hours and in accordance with the standard construction hours where. (i) no sensitive receivers and in accordance with the standard construction hours where. (i) no sensitive receivers and in accordance with the standard construction hours where. (i) no sensitive receivers and in accordance with the standard construction hours where. (i) no sensitive receivers within Z00 metres of the locat corde to permit blasting in accordance with the standard constr This conditioned does not a poly in the event of a direction from the NV Police Force or other relevant authority for stafety or emergency reasons environmental herm.	The Applicant shall ensure that Airblast overpressure generated by blasting associated with the SSI shall not exceed the criteria specified in Tabl B22 Member e creaver. Note: - a sensitive site moudes houses and low rise residential buildings, theatres, schools and other smithr buildings occupied by people.

Requirement Requirement Requirement Section 1 and Nave 1,2 a 3) Comments Section 3 b (Wave 1,2 a) Vave 5a, 5b & Comment 2 1,1 Vave 5a, 5b & Co	by blatting associated with the SSI shall not ecceed the criteria specified in Table 2 and Table 3 when measured at the most affected readence All All All All All All All All All All	The blackper great was availed in conclosion. B22 and/or B23 may be increased where the Applicant has obtained free relevant and/owners to increase the criteria. In obtaining the available of the increased distribution owner. <ul> <li>In the product complete overall manufactoriant in conclosion. B22 and/or B23 may be increased where the Applicant has obtained the writtin agreement is addressed in the Pacific Complete overall manufactoriant in cubicing alternatives considered (where netword).</li> <li>In the increased the product complete overall manufactoriant in cubicing alternatives considered (where netword).</li> <li>In the increased the increased the integrated manufactoriant in cubicing alternatives considered (where netword).</li> <li>In the increased the increased the integrated manufactoriant in cubicing alternatives considered (where netword).</li> <li>In the increased the integrated manufactoriant in the increased the integrated manufactoriant in cubicing and masteriant.</li> <li>In the increased the integrated manufactoriant in the integrated manutaconcore in the integrated manufactoriant in</li></ul>	Whenever feaable and reasonable, pring activities shall be undertaken using quetter construction methods, such as bored piles or vibrated piles arbiter than impact or percursion piling methods. All All All All All All All All All Al	Print to be use of the dynamic comparation method. The Applicant shall underfade an assessment of vicration generated by dynamic compaction on nearby sensitive recoivers. Feasible and All All All All All All All All All Al	Description       No.       No.	All Nave 1,2 and 3 act tool works do not movie the dedign or operation of a completed section of highway the dedign or operation of a completed section of highway.
Requirement	The Applicant shall ensure that Ground vibration generated by blasting associated with the SSI shall not exceed the criteria geoclined in Table 2 and Table 3 w or obtar securitive inconver. Note - a sensitive site includes bouses and low rise residential buildings, theatres, schools and other similar buildings occupied by people.	The blasting criteria specified in conditions B22 and/or B23 may be increased where the Applicant has obtained the writeria agreement of the relevant landown agreement has of the proposed blasting program and justificant of the proposed increase to blasting criteria including alternatives considered (where information). (a) data of the proposed blasting program and justificant of the proposed increase to blasting criteria including alternatives considered (where information). (b) the environmental impacts the increased blast innits on the surrounding on writerian and any site to arrounding ordina including. (b) the blasting randomental impacts the increased blast innits on the surrounding on the consultation undertaken (with clear identificat pacily and any risk to surrounding ordina. Survisors or the implemented to moniter blasting impacts. (c) the blast ranaagreement and migration measures, and the procedures to be implemented to moniter blasting impacts. The Applicant shall provide a corporation and the procedures to be implemented to moniter blasting impacts. (c) Any agreements and migration measures, and the procedures to be implemented to moniter blasting impacts. (c) Any agreements and migration measures, and the procedures to be implemented to moniter blasting impacts. (c) Any agreements and migration measures, and the procedures to be implemented to moniter blasting and the consultation undertaken (with clear identificat property impacts) prior to commencial blasting the blasting to the increased blasting in the unresolved. Should an agreement and the commention blasting the blast monitor of this conting.	Werever feaable and reasonable, pling activities shall be undertaken using quieter construction methods, such as b	Prior to the use of the dynamic compaction construction method, the Applicant shall undertake an assessment of varia reasonable mitgation measures shall be implemented to minimise vibration impacts.	During construction, affected educational instatutions shall be consulted and reasonable steps taken to ensure that noise generating construction works in the v during exammation periodis where practicable, unless other reasonable arrangements to the affected instructions are made at no cost to the affected instruction	The SSI shall be designed and operated with the objective of not exceeding the road noise criteria outlined in the NSW Road Noise Policy (DECCW, 2011).
Part	. 20 H	82 22 22 22 22 22 22 22 22 22 22 22 22 2	B25 M	B26 P	6 <del>1</del> 23	

Part	Requirement	Section 1 and 2	Soft soils (Wave 1, 2 & 3)	Comments	Section 3 to 11	6 4)	Ş	Сомпен
B29	9 Where feasible and reasonable, operational noise mitigation measures shall be implemented at the start of construction (or at other times during construction) to minimise construction noise impacts.	АЛ	NA	Wave 1, 2 and 3 soft soil works do not involve the design or operation of a completed section of highway	АИ	NA	NA	To be addressed during defailed design. Note that soft soll works do not trivolve the design or operation of a completed soction of highway therefore do not include operational house mitigation measures.
WATER QUALITY	D Except as may be expressly provided by an EPL, the Applicant shall comply with section 120 of the Protection of the Environment Operations Act 1997.	ч	PI		ч	ч	Я	Pacific Complete has obtained an Environment Protection Learner (EFL) for 35-511 (hb. 20173, 29 January 2016, Thire EPL is an didition to those January 2016, Thire EPL is an didition to those debarred by contractors (Warer 1 and Ware 2 Soft Solt Works) directly procured by RMS. This requirement is directed and an Water Complete Ware (Represent ENP) and Dealed Complete with the CoA. Separate EWMSs to ensure compliance with this CoA. Separate and approved CEMP documentation is in place for earth soil works (Ware 1 and Ware 2).
B31 B31	HOROLOCY AND F LOODING The hydrologral and flooding impacts resulting from the SSI are to be assessed during defailed design against the 'Design Objectives for Flood Management described in Section 2.1 of the EIS Working Pages - Hydrologral and flooding impacts resulting from the SSI are to be assessed during defailed design against the 'Design Objectives for Flood Management described in Section 2.1 of the EIS Working Pages - Hydrologrand Floreding, This stantish and a standard and another Management of the Amagement described in Section 2.1 of the EIS Working for the same design floods considered in the FIS, as well as the 2000 year ARI and the probable maximum flood (PMF) design events.	Γ	NA	Wave 1, 2 and 3 soft soli works do not involve the design or properition of a complexit section of highway. The final food model will be developed as part of the detailed design in process of soft soil Flood modeling of the impacts of soft soil works has been undertaken and consultation with commercial on impacts	P	¥z	M	Flood modelling (final models) will be developed as part of detailed design. Soft soit works do not involve the design or operation of a completed section of highway. The final Wave 63, 58 and 55 don't involve the design or operation of a completed section of highway. The final design
B32	For the Cornol. Shark Creek and Falows Flataress. (boding and hydrobogical impacts resulting from existing highway infrastructure shall be assessed. As part of this assessment, flood models shall assess the impacts of recent highway upgrades in this area. Where the existing highway in frees a reas has resulted in adverse flooding and/or hydrological impacts, opportunities to reduce the quantum of these impacts shall be considered during the detailed design of the SSI, where feasible and reasonable.	F	АІ	Connoi Creek is within the Socion 1 project area Eniovos Flat and Shark Creek are within the Wave 1 and Wave 3 project areas.	4, C	1, 3	M	Conndi Creek is within Section 1. Flood modelling (final models) will be developed as part of detailed design. Wave 5a. 5b and 5c don't involve the design or Wave 5a. 5b and 5c don't involve the design or flood model will be developed as part of the detailed design.
B33		ч	АІ		AII	Ы	AII	Noted
CONSTRUCTION SO	I SOIL AND WATER MANAGEMENT Soil and water management measures consistent with Managing Urban Stamwater - Solis and Construction Vols 1 and 2, 4th Edition (Landsom, 2004) and Managing Urban Stamwater Soil and Soil and water management measures consistent with Managing Urban Stamwater - Solis and Construction Vols 1 and 2, 4th Edition (Landsom, 2004) and Managing Urban Stamwater Soil and Construction Vols 2A and 2D Manh Fload Construction (Department of Environment and Climate Change, 2008) shall be employed during the construction of the SSI to minimise soil erosion and the decharge of sediment and other politicants to land and/or water.	Ч	АІ		АІ	Ы	AII	This requirement is addressed in the Pacific Complete CEMP (Appendix R4 Construction Soli and Water CEMP (Appendix R4 Construction Soli and Water Control Massures). Pacific Complete will approve Controlotic EMPs, EVMSs and ESCPs to ensure controlotic EMP is CoA. Separate and approved CEMP documentation is in place for eart soli works (Wave 1 and Wave 2).
835	Where available, and of appropriate chemical and biological quality, stormwater, recycled water or other water sources shall be used, where feasible and reasonable, in preference to potable water for construction activities, including concrete moning and dust conteol.	АК	All		All	All	Ait	This requirement is addressed in the Pacific Complete ERP Appendix 24 Communication Soi and Water Quality Management Plan. Chapter 6 Environmental control Manaurus 7 pacific Complete 4 Mapprove Continature LEPS. EVMISs and ESCPs to annuar Complacion with EC.O.A. Separate and approved CEMP documentation is in place for acit acit works (Ware 1 and Wave 2).
B3	836 All surface water and groundwater shall be adequately treated as far as is practicable, pror to entering the stormwater system to protect the rocewing water source quality.	AI	АК		AII	AII	Ан	This requirement is addressed in the Pacific Complete Topics (Appendix 2 Constructions Sai and Water Quality Management Plan. Chapter 6 Environmental control Massures 1 Pacific Complete will approve contractor KIPs. (2VMSs and ESCFs to ensure contractor KIPs. (2VMS and ESCFs to ensure complexent with the CoA. Separate and approved CEMP documentation is in place for soft soil works (Wave 1 and Wave 2).

Category	Part	Section 1 and 2	f and Soft soils (Wave 1, 2 & 3)	oiis 2 & 3)	Comments	Section 3 to 11	Soft soils (Wave 1, 2, 3 & 4)	Wave Sa, Sb & Sc	Comment
	Prior to the commenent of site preparation and excavation activities, or a otherwise agreed by the Secretury, in areas identified as having a moderate to high risk of contamination, a site audit shall be carried out so its availably control of the preparation and excavation activities, or a otherwise agreed by the Secretury, in areas identified as having a moderate to high risk of contamination, a site audit shall be carried out any control of the preparation the bar and the site of the contamination in the second of the intervent. Where the intervent, wherher the land is when the made value having in moderate to high risk of contamination in vestgators within these areas. The the Audit Report shall of each in the second on the second of the intervent of the hard mode of the mode of the hard of the hard of the intervent of the mode of the mode of the hard of the hard of the mode of the mode of the hard of	audit shall be audit shall be arrial mical the the the the the the	R		Contamination investigations have not contamination investigations have not within the sector 1 and 2 poptical areas. Wave 3 soft soil works will impact on a potential contaminated steal the Mills Transport depot.	ч	ν	АІ	Potentially contaminated alies associated with the project will be reviewed during balaied design to determine frose attes that will require a project will be also determine frose attes that will require a project and the second second to be unvaluable for bein theored and use. Stopportial to their instruction of place tuse. For those after Studie Date with a determine insteaded and use appropriate management or insteaded and use appropriate will be devoloped and myot a tota totavior statistication to the insteaded and a st the Mills Tuck deport. A Phase 2 contamination in being produced for this able D statilitable its management of the statistication of the statistication approach in the statistication of the statistication of the state D statilitable its management.
WATERGOAR	B38	for Controlled d Withendge, All s. 2013)	AI		Soft edi works will only have temporary crossings.	P	P	P	To be addressed during detailed design. Detailed design betreports are required to detail how the design complex with revear terminant landspic ratins and the second terminant design ratins to be revear compliance with relevant co.Ms. Note that but fact works will only have threpprany crossing. Note 56, 56 and 55 early enabling works will only have termorary crossing.
	All crossings of known Gand Barred Frog halptator waterways with the confirmed presence of the species shall be designed and constructed with bridges. Should the Applicant construct a crossing structure other man a failet, the Applicant shall encoursed and construct a crossing structure and agreed by the Scenary in consultation with the CEH-EPA. Demonstration of maintend halptator constraints with the CEH-EPA. Demonstration of maintend halptator constraints with the CEH-EPA. (a) he based on havelined halptator constraints and with the CEH-EPA. (b) he based on haveline distribution constraints and statistudion of Gand Barred Frog population using a survey methodology that has been endorsed by the CEH-EPA, and debailed in the Based on haveline distribution constraints are addetable of Gand Barred Frog population using a survey methodology that has been endorsed by the CEH-EPA. (b) he based on haveline distribution constraints are addetable of Gand Barred Frog population using a survey methodology that has been endorsed by the CEH-EPA, and debailed in the Sectembor of the association of the constraint of a protein constraint are addetable constraints are addetable of the crossing site for the crossing site for the monthring period. With periodic monthring beccurat has the hand on headed on workness in the constraint and an assessment of the constraint are addetable on the formation of the crossing site for the crossing site for the constraint are and state hand and the presence of the discretized on the formation of the crossing site for the monthring period. With periodic monitoring to constraint are and an absence of the Gand Barred Frog the Applicant table to request an absence of the formation and because of the formation of the constraint area and and the advectable of the SCI, the SCI, the SCI, the SCI, the SCI, the SCI, the Gand Barred Frog Barred Absence and the Applicant and the Applicant table of the SCI the SCI, the Gand Barred Frog Barred Absence and the constraint are and and the counstraint the curve	ears, or such rears, or such etailed in the on of the annually. SI within one e deemed as	e z			¥ Z	¥N.	۲ ۲	Noi applicable to Sections 3-11. Habitat for Gaint Barred Frog occurs only in Section 1 and 2
	B40 Unless otherwise agreed by DPI (Fisheries), all crossings of Class 1 watercourses in known Oxleyan Pygrity Parch habitat shall be designed and constructed with a bridge or arch structure and, where feasible and reasonable, no supporting structure shall be installed within affected waterways.	d, where	NA			6.7.8.9	AN	Sb, Sc	To be addressed during debuiled design. Detailed design stutyens are required that how the design complex with the relevant network order how the Pacific Complex will review debuiled design fut reports are neuror compliance with indevant Co.A.s. Www GS. Bo and Sc early enabling works will only have temporary crossings.
	Where an Oxleyan Pygory Perch habital vaterway is realigned or its stream profile is changed, or an in-stream structure is installed in the waterway (both permanent and temporary construction structures). B41 the Applicant shall ensure that the final deleging of that vaterway does not react it water waterway for an inder normal flow conditions. The Applicant shall determine normal flow conditions of the Applicant shall ensure the structure of the Applicant shall ensure the Applicant shall determine normal flow conditions. The Applicant shall determine normal flow conditions to the statement of the Applicant shall determine normal flow conditions.	in structures). a normal flow NA	NA			6.7.8.9	АМ	33 19 19	To be addressed during debiled design. Detailed design lot reports are required to detail how the design to treports are required to detail how the design reports. Complete will review debiled design lot reports to ensure compliance with relevant CoAs.
	B42 The Applicant shall ensure that the SSI does not increase the afflux of waterways with known Oxfeyan Pygmy Perch habitat by more than the relevant flood management objective in the documents referred to in condition A2 for flood avents up to the 1 in 100 year event.	nents referred	¥.			6, 7 , 8, 9	Υ N	3 	To be addressed during detailed design. Detailed design tot ropes are required to design how the design complex with the network transmomental design rutings Partic complex will network design for reports a network complex will network to design or reports to network and the developted as part of the design Wave Sa. Ba and Sc don't through the design or operating of a complexed scillor of highway. The final forced model will be developted as part of the design design
The hyd env app	The Applicant shall investigate the removal of the proposed embanisment at station 145.2 and its replacement with an extension of the Richmond River bridge. The investigation abull consider issues around a level of the restored and and an extension of the Richmond River bridge. The investigation abull consider issues around a level of the restored and an extension of the Richmond River bridge. The investigation abull consider issues around a level of the restored and an extension of the Richmond River bridge. The investigation abull consider issues around a level of the restored and around a level of the restored of any bridge approach or entalitivent works in the vicinity.	issues around ther relevant t of any bridge	NA			10	NA	EN N	To be addressed during detailed design. Detailed design lot reports are required to detail how the design compiles with the relevant environmental design criteria Pactor Competer wit review detailed design for reports processors and an environment of design for reports account of the second second and the second secon

Number of the second	Soft soils Wave 1, 2, 3 & 4) 5c	As per RMS salvage program of works. Note that PAD sets WWC Dirty Creek 1 does not occur within sections 3 to 11.	As per RMS salvage program of works. Note that 5a, 5c Aboriginal setes XWVC35, XWVC37 and WWVC46 do not occur within sections 3 to 11.	To be addressed during detailed design. Detailed complex with the enhancemental design. Detailed complex with the enhancemental design chrence provide addressed in the Pacific Complex to Experiments tal addressed in the Pacific Complete Sa. Sc. MPP Agenetic SS Contruction Heritage CEMP Agenetic SS Contruction Heritage and Management Nacasares. Pacific Complete will approve CEMP Agenetic EMAs, EVMSs and ESCPat papervise Combined enhancemental Magition and Management Nacasares. Pacific Complete will approve CEMP Agenetic EMAs, EVMSs and ESCPat papervise CSM experimentation is in place for a to works (Wave 1 and Wave 2).	To be addressed during detailed design. Detailed design lot reports are required to detail how the design outputs with the nearest removemental design retrieva- Pacific Complete with reward design for reports Pacific Complete with reward of the Pacific Complete Namagement Plan. Chapter 7 Environmental Miggaton Management Plan. Chapter 7 Environmental Miggaton approves CEMP desumations and ESCP to prove Compared ELIVa. FLWMSIs and ESCP to the approves CEMP desummediation is in place for act sed vertice (Vitave 1 and Vitave 2).	RMS / Pacific Complete have undertaken a morpe of community and stabeholder consultation with respect to the option of helocating the Harveold Convent. Community net/instations were provided in advances of a Community net/instations were provided in advances of a Community the RMS / Pacific Complete project team of constants of the Community Hall. Expressions of hereat were of Community Hall. Expressions of hereat were of Community Hall. Expressions of hereat were indicated in advance of the Apolic hereat were advanced of the community Pacific Complete hereat were of Community Hall. Expressions of hereat were advanced of the convent. The tender will close on 4 July 2016.	RMS engaged Jacobs to under-take the archival recordings including pholographic recordings of the identified heritage items. Works have been completed and reports will be submitted relevant agencies.
Number of the second		. 7, 10, 11	, 7, 8, 9, 10,	8.9, 10, 11	. 7, 8, 9, 10. . 11	ω	5, 7, 9, 10
Number         Numerical         N					¥.		
Number         Numerical         N	Soft soils (Mave 1, 2 & 3)	All	All	м	N	¥ z	Ϋ́ν
Part         Part		۲	1	١٢	PI	¥	
		Prior to the commencement of comstruction affecting PAD site WWC Diny Creek 1 and ancillary facilities at Section 4. Site 1; Section 4. Site 3; Section 7, Site 2; Account affecting the compared relation of the state of the advectance field investigation, and where required, an archaeological investigation of the state(s) using a methodology generally consistent with the GHF EPA (Abordynal heintage) and the Respected Abordynal heintage) and the Respected Abordynal and ancient of the state(s) using a methodology generally consistent with the GHF EPA (Abordynal heintage) and the Respected Abordynal and ancient of the state(s) using a methodology generally consistent with the SHF EPA (Abordynal heintage) and the Respected Abordynal and a state(s) in a consultation with the GHF EPA (Abordynal heintage) and the Respected Abordynal and a state(s) and state of the advectance) are state(s) and state of the advectance) are state(s) and state of the state advectance) are stated and include. But not necessarily be limited to "compared to phote where objects of moderate to heigh significance are found to memorations (in construction activations construction activations are no addected and (i) coordinations for the fragatistic and metabase in the advectance) and magnetic and mission with the recommendations (fragated and another an evolution) activate and evolution activates and fragates and fragates and the societation of massures to restructions and missions under construction activates, and (i) economications of matter investigation and metabase metabase and the another and the Sected and metabase metabase and and and the Sected and the Se	There to the commencement of construction activities affecting Aborginal sites WWC38, Turkialo 2 and, 1524, Site 11, E.202, WWC37, Dubaleens at Site 1, E.202, WWC37, Dubaleens at Site 2, E.202, MUC30, Dubaleens at Site 1, E.202, WU230, Dubaleens at Site 2, P.204, Site 1, E.204, Site 2, P.204, Site 2, P.204, Site 1, E.204, Site 2, P.204, Site 2, P.204, Site 1, E.204, Site 2, P.204, Site 2, P.204, Site 1, E.204, Site 2, P.204, Site 1, E.204, Site 2, P.204, Site 2, P.204, Site 1, E.204, Site 2, P.204, Site 1, E.204, Site 2, P.204, Site 2, P.204, Site 2, P.204, Site 2,				Prior to the commencement of construction in proximity to the following heritige items: 21:23 (Roder's well and orchard); 26: 28: 29: and 43. the Applicant shall complete all archival recordings. Holiding photophysic probability of the second mass agreed by the Section.

Category	Requirement	Section 1 and	Soft soils (Wave 1, 2 & 3)	Comments	Section 3 to 11	Soft solls (Wave 1, 2, 3 & 4)	Wave Sa, 5b & 5c	Comment
B50	Prior to construction affecting the following heritage lenns. 7, 23 (Roder's well and ordand) and 28, the Applicant shall carry out further historical and physical archaeological investigations of hese heritage 1 invitor and another the perturbation of the Second Seco	N	AI	llen 7 (service Sation Complex, Halfway Creek) is within the Section 2 project area	σ. 	N	ц2 К	RMS engaged Jacobs to under-take the required pre- construction horizage works. Field werks completed. Analysis and reporting being finalised.
851	<ol> <li>The Applicant shall not destroy, modify or otherwise physically affect the heritage items leted in Table 5-1. Historic (non-Aborignal) Heritage Assessment Working Paper and Table 3-38, Submissions/Preferred infrastructure Report (RMS, November 2013).</li> </ol>		NA	Post office Lane stockyards. Corindi Beach Is within the Section 1 project area	5, 7, 10	NA	ů,	To be addressed during detailed design. Detailed design for reports are required to design to the reports complex with the invelve detailed how the design complex with the invelve detailed design (in treports bacific Complex will review detailed design (in treports to ensure complexeed in the Pacific Complex requirement is also betweed in the Pacific Complex Management Man. Complexe 7 Environmental Magation and Management Man. Complexe 7 Environmental Magation approved CEMP for commentation and ESCPs to approved CEMP documentation is in place for soft soil approved CEMP documentation is in place for soft soil works (Wave 1 and Wave 2).
HERITAGE - GENERA B52	eRAL [Jerutical impacts to heritage sites shall be minimised where feasible and reasonable through both detailed design and construction, particularly with regard to the historic site known as the North Coast 2 Rower granch Trammary Gienuge. 2 Where impacts required by condision D26(d) and under the guined by condition D26(d) and under the guidance of an appropriately	2	NA		MA	NA	AN	This heritage from occurs in Section 2, therefore will not be impacted.
B53		Αii	AI		AII	AI	All	This requirement is addressed in the Pacific Complete ERP Approvide SC constructions the Handgage Management Plan, Chapter 7, Environmental Miggation Management Plan, Chapter 7, Environmental Miggation approve Compactive BMTs, EVMas, ESC Past and approve Compactive With ExC and approved CEMP documentation is in place for exit and works (Wave 1 and Wave 2).
B54	4 The Applicant shall not destroy, modify or otherwise physically affect any heritage items outside the SSI footprint, unless otherwise agreed by the Secretary in accordance with condition 878-81854A.	Ail	АІ		All	AI	Ali	This requirement is addressed in the Pacific Complete ERP Appropriet Dis Construction Friendage Management Plan, Chapter 7, Environmental Mingaten Management Plan, Chapter 7, Environmental Mingaten approve Compacter EMPs, KUMs, ESC Pati en environ approve Complexion with Cock Separate and approved CEMP placementation is in place for exit and works (Wave 1 and Wave 2).
B 54 A	The Applicant may undertable auchaeological meetigations at take outside the SSI boundary where the following vertia associated with the construction of the highway are proposed t contrast where were includences of an condition B12, or t contrast and anyone much and diverse the criterion set out in condition B12, or t contrast and anyone much and diverse that are bocated within 5 metres of the SSI boundary (with the exception of diariage works, in flood prone areas where such activities can be investigated to contrast and anyone much and diverse that are bocated within 5 metres of the SSI boundary (with the exception of diariage works, in flood prone areas where such activities can be investigated within 20 metres of the SSI boundary). These metres are formation and anyone the proper class areas the potential Aborgmal and non-Aborgmal and non-Aborgmal and non-Aborgmal and more and anyone much and works on previously undertified here a access to the SSI boundary). These metres are promited where the condition table be consistent with the requirements in condition table of the andiany facility or other works on previously undertified here a access the struction here and the andiany table or an embodicing requirements in condition table of the andiany facility or other works on previously undertified here a access when a premised where the condition table be consistent with the representation of the Secretary in condition table of the neutral here and an orthon table where the anotably statice and the assessment of the anotable and the table of the andiany table to the anotable and the table and table of the anotable and the table here and an other the construction here the anesident with the assessment of the anotable and the table of the anotable and table and table and the table and			Candition introduced in Mod 2 post approval of Stage 1 Staging Report	Ψ	м	Ч	Pagoy
B55	5 The measures to protect heritage sites near or adjacent to the SSI during construction shall be detailed in the Construction Heritage Management Plan.	All	AII		All	All	AII	Pacific Complete CEMP including Appendix B5 Construction Horitage Management Plan has been

Category Part	Requirement	Section 1 and 2	Soft soils (Wave 1, 2 & 3)	Comments	Section 3 to 11	Soft soils (Wave 1, 2, 3 & 4)	Wave 5a, 5b & 5c	Comment
B56	The SSI shall be designed with the objective of minimising adverse changes to existing access anangements and services for other transport modes and, where feasible and reasonable, facilitate an improved level of access and service to other transport modes comparable to or better than the existing situation.	Ы	۴z	Wave 1.2, and 3 soft sols works involve preparatory activities only	Ы	AN	NA	To be addressed during debaiked design. Detailed design to troptica are required to defail how the design or proper with the intervent monitorient design criteria. Pacific Compilar with review detailed design to treports to ensure compliance with relevant CoAs.
B57	Sele pedestrian and cyclist access through or around worksites shall be maintained during construction. In circumstances where pedestrian and cyclist access is restricted due to construction activities, a satisfactory alternate route shall be provided and signposted.	АІ	Al		All	AII	Ail	Thes requirement is addressed in the Pacific Complete CEMP (Approval: 81 Combarcotion Traffic and Access CEMP (Approval: 81 Combarcotion Traffic and Access Pacification and Section 5.4. Management of Pacification and Section 5.4. Management of EVMS, EMMS, and robated traffic transagement Marko EMM, EMMS, and robated traffic transagement Marko EMM, EMMS, and robated traffic transagement Marko Separate and approved CEMP documentation is place for soft soil works (Mawe 1 and VMawe 2).
BS8	Construction vehicles (including staff vehicles) associated with the SSI shall be managed to: () minimise apriles or public order problem or production of the second state of the second state of the second state of the second state state where practicable. () minimise draw and cavaring in kontrast streets and town centres) to gain access to construction sites and compounds, and () minimise the use of thesi roads (through readential streets and town centres) to gain access to construction sites and compounds, and (i) adhere to the nominated hauding routes identified in the Construction Traffic Management Plan.	AI	N.		Ч	īt	F	This requirement is addressed in the Pacific Complete CEM (Vependie) BTA, Steckin 4C completes in this and Access Management PBA, Steckin 4C comstruction Activities and Impack, Section 4.3 Real Mistark, Section 4.4 Construction Access Points, Section 4.5 Computed Construction Access Points, Section 4.5 Computed in Complete and Section 5.5 Complete will approve Construction Access Points, Section 4.5 Complete Management) Pacific Complete will approve Construction Access Points, Section 4.5 Complete Construction Access Poin
B59	In relation to new or modified local road, parking, pedestrian and cycle infrastructure, the SSI shall, where feasible and reasonable, be designed: (a) in consultation with the relevant councit. (b) that wind conceleration restring and drave demand, read safety and taffic network impacts. (c) to meet relevant design, engineering and stafety guidelines, including Austraded Guide and trasfore, and (d) be cretified by an appropriately qualified person that has considered the above matters.	All	NA	Wave 1.2, and 3 soft solls works involve preparatory activities only	AI	AN	M	To be addressed during detaled design. Detalled design of tropcare required to detall how the design complex with the relevant environmental design criteria. Pacific Complex with relevant edited design lot trepcits to ensure complexes with relevant CoAs.
B60	÷.	NI	AII		AII	Ν	AI	To be addressed during detailed design.
B61	mense understein sonten and in the second of the matched by the land requirements of the SSI, the Applicant shall, at the request of these landowners, employ a suitably qualified and Where the visibility of the Maplified and and the second second and the second and the second and the second and and the second and and and and and and and and and a	AII	Ail		AI	AI	AI	To be addressed during detailed design.
B62		AI	Ŋ		ч	N	ч	This requirement is addressed in the Pacific Complete CEMP (Approvid, R1 Continuction Trafic, and Accesss CEMP (Approvid, R1 Continuction) Trafic, and Accesss Section 4.6.1 Husbigs Routes and Sections 6.6 Bencion of Thempeler Wall approve Contractor EMP, Pacific Complete will approve Contractor EMP, Restin Contractor Microsovice Contractor EMP, Restin Contractor EMP, and Restin Applete (or semilar) be neuroa complete with tiss Cod. Separate and approved CEMP document is n place for soft soft works (Ware 1 and Wave 2).
B63	The Applicant shall, in consultation with relevant landowners, construct the SSI in a manner that minimises intrusion and disruption to agricultural operation-dactivities in surrounding properties (e.g. stock) access, access to farm dams, etc.), unless otherwise agreed by the landowner.	AI	АІ		AI	AI	Ψ	This requirement is addressed in the Pacific Comblete ERP Appropriate 1C constructions Trailie and Access Management Plan. Section 4.6.1 Hauding Routes; and approx. Section 4.6.1 Hauding Routes; Explosition and pack and pack and pack and Explosition and realistic trailing to entrance interpret Section and approved CEMP document is in place for section 2.8. and approved CEMP document is in place for section 3.8. and approved CEMP document is in place 3.8. and
B64	4 Any damage caused to property as a result of the SSI shall be rectified or the landowner compensated, within a reasonable timeframe, with the costs borne by the Applicant. This condition is not intended to find any claims that the landowner may have against the Applicant.	AI	AII		AI	AI	AI	Noted.
Be5	Where the SSI traverses a state forest, the Applicant shall, in consultation with the NSW Forestry Corporation, ensure that construction does not undury disrupt existing forestry activities, access for free fighting and access for other activities within state forests, unlies otherwise agreed by the NSW Forestry Corporation.	AI	A		3, 6, 7	R N	Ai	This requirement is addressed in the Pacific Complete EMP (Appendix 81 Construction) Tarffic and Access Menagement Plan. Section 4.7.3 Property Access and Section 4.7.9 State Foreit Read Network). Pacific Section 4.7.9 State Foreit Read Network). Pacific Complex with approve Construction (ERP, EWNMS and related tarffic management selety plans (or immar) to approved EMP documentations in place for soft soil works (Wave 1 and Wave 2).

Category	Part	Requirement	Section 1 and 2	Soft soils (Wave 1, 2 & 3)	Comments	Section 3 to 11	Soft solls (Wave 1, 2, 3 & 4)	Wave 5a, 5b & 5c	Comment
	988 988	The SSI shall be constructed in a manner that minimises dust emissions from the site, including wind-blown and traffic-generated dust and tracking of material onto public roads. All activities on the site shall be undertaken with the objective of proventing visible emissions from the site. Should such visible dust emissions court at any time, the Applicant shall dentify and implement at feastble and reaconshe dust migation measures, including cessation of network, as appropriate, such that emissions of visible dust cease.	AI	AI		All	ч	AI	This requirement is addressed in the Pacific Complete CEMP (Appendix 86 Commucion Ar Oually Management (Pac) Casters T. Fortonnenial Control Management (Pac) Casters T. Control T. Control Management (Pac) (Control T. Control T. Control LIMPs, EVMSs and ESCP to ensure compliance with the CoM. Separate and approved CEMP documentation is in place for oth only (Vitave 1 and Viave 2).
	B67 (6, 6, 0 (6, 1) (7, 6, 0)	Bragerous goods, as defined by the Australian Dangerous Goods Code, shall be stored and handled strictly in accordance with. (a) all relevant Australian Standards. (b) for statistica a minimum brand volume requirement of 110% of the volume of the largest single stored volume, within the bund, and (b) the Environment Protection Manual for Authoriade Officens. Bunding a Spill Manuagement, technical hallen (Environment Protection Authority, 1997). (h) the event of an inconsistency between the requirements listed from (a) to (c) above, the most stringent requirement shall prevail to the extent of the inconsistency.	AI	АІ		Ч	АІ	All	This requirement is addressed in the Pacific Complete CEMP (Appendix E4 Construction Sol and Water Cately Managenet Plan, Charle 6 Environmental Control Masaures). Pacific Complete Watappove Contractic IEPPs and EWMSs to marker compliance with this Co.A. Separate and approved CEMP decommetation is in place for each works (Wave 1 and Wave 2).
MANA	B68 HAAVOOR	va Waste generated outside the site shall not be received at the site for storage, treatment, processing, or disposal on the site, except as expressly permitted by a loence or waste exemption under the Protection of the Environment Operations Act 1997, if such a licence is required in relatives to that waste.	Ail	AII		Ч	IV	АІ	This requirement is addressed in the Pacific Complete CEMP (Appendix 87 Construction Wash, Resource and Energy Mangament Plan, Chapter 6 Environmental Milgation and Managament Massures Pacific Complete will specie Contractor ELPA and ENMSs to enacce complance with this CoA. Separate and approved CEMP documentation is in place for soft soit works (Wave 1 and Wave 2).
	869	The reuse and/or recycling of waste materials generated on site shall be maximised as far as practicable. In minimise the need for treatment or disposal of those materials off site.	АЛ	м		АК	АЛ	АІ	This requirement is addressed in the Paulic Complete EXPL Appendent B2 Communon Visats Resources and Entry Management Planuc Chapter 6 Envolvements Indigation and Langament Masures Pacific Complete will spore Contractor EMP and Pacific Complete will spore contractor EMP and and approved CEMP documentation is in place for soft soil works (Wave 1 and Wave 2).
	B70 A	All liquid and/or non-lequid washs generated on the site shall be assessed and classified in accordance with Waste Classification Guidelines (Department of Environment, Climate Change and Water, 2009).	All	AI		Ψ	All	AI	This requirement is addressed in the Pacific Complete ERM PAgenetic R2 Computer Wash. Resource and Entryp Management Planu Cohagter 6 Environmental Indigation and Maganoment Measures). Pacific Complete will approve Contractor ENPs and Pacific Complete will approve Contractor ENPs and and approved CEMP documentation is in place for soft ool works (Wave 1 and Wave 2).
	B71 A	All vaste materials removed from the site shall only be directed to a vaste management facility or premises lawfully permitted to accept the materials.	Я	AI		Ч	AII	F	This requirement is addressed in the Pacific Complete CEM PAppend B7 Common Vasils. Resource and Energy Management Planu Chapter 6 and Energy Management Masures Pacific Compiles will approve Compacine With Status Pacific Compiles With Pacific Pa
SAND	B72 supp and/	URBAS Utilities and other infrastructure polemially affected by construction and operation shall be identified pror to construction to determine requirements for access building and/or apport. Consudiation with the relevant owner and/or provider of services to be affected by the Applicant to make suitable arrangements for access building protection, and/or and/or support of the affected infrastructure as required. The cost of any such arrangements shall be borne by the Applicant.	АІ	AII		AII	V	IF	To be addressed during debailed design. Detailed design lot resports are nequired to defail how the design complets with the relevant environmental design rotheria. The rest complete with the relevant for whom the house of the ports. To exercise commissions with indexant CAAE.

	Requirement	Section 1 and (V	Soft solis (Mave 1, 2 & 3)	Comments	Section 3 to 11	Soft soils (Wave 1, 2, 3 & 4)	Wave Sa, Sb &	Comment
s stes for : be located not impact be located have readad be located be located be located be sparate in perate in iperate in provide s be located of v Applicanted	The states for ancillary facilities that are associated with the construction of the SSI and that have not been identified and assessed in the documents listed in confidon A2 shall: (1) be instand more staring a submery (100 means for a SBI set intervention of the SSI and that have not been identified and assessed in the documents listed in confidon A2 shall: (1) be instand on consectivity structures or vegetation inading to a connectivity structure. (1) be instand with on statement with an structures or a supervised in the vegetation. (1) be instand more start as the road mixers. (1) be instand more than 500 metres for a SBI that we vegatation. (1) be instand more than 500 metres for a SBI section frate vegatation. (1) be instand more than 500 metres for a SBI section frate vegatation. (1) be instand more than 500 metres for a SBI section frate vegatation. (1) be instand more than 500 metres for a SBI section frate vegatation. (1) be instand more than 500 metres for a start 200 metres for a latest 300 metres for a latest and membrand. (1) be a section that with the oristication of floodplain flow of bloodpla for and drains. (1) be a section of allong and and restaff on dependent of more and frate in a lange and more than the oristication noise management levels at sendative receivers. (1) be a section of allongs and not restaff on betaction of floodplain flow of bloodpla for a bloodbla is prepared and main. (1) be a more interaction of allongs and not restaff on based and the relevant bulks at and molecular tare is the strange of maintee. (1) be called and more than 50 metres (more digrad as the section of bloodpla for a diverse in a section of the section of the relevant parties and atteres and allong start dent and a longest the more intervent and the relevant of one for a section of the relevant council. The assessment of the field ways and the relevant bulks and and the relevant council. The assessment of the lange of maintee and sections in marks of the field ways and the relevant bulks and	₹	R		F	τ	IF	Pacific Campilete has an approved Ancillary Facilities Management Pan (Appendix B) of the Pacific Management Pan (Appendix B) of the Pacific Environmental Representative on 10 February 2016 Environmental Representative on 10 February 2016 The purpose of the AMN is to default how Pacific Compilete will assess, contact, gian approval and propert S1te specific and Facility Yading State during the management plan (ER approved 10 February 2016). Management Plan (ER approved 10 February 2016).
cillary fac vironmen the Enviro the Enviro the Enviro the Enviro the Calific of a descrip a descrip that a see that a set that a set	Arollary facilies that have not been previously identified and assessed in the documents listed in condition A2, and do not meet the ortheria set out under condition B73, shall be approved by the Environmental Representative, prior to its establishment. In obtaining this approval, the Applicant shall on once and with the relevant public authority(s) and the relevant source of the of the Environmental Representative, prior to its establishment. In obtaining this approval, the Applicant shall of normal with the relevant public authority(s) and the relevant source of the Environmental Representative, prior to its establishment. In obtaining this approval, the Applicant shall be relevant public authority(s) and the relevant source of the relevant source of the Environmental Representative, brinked to mined ta: (a) details on the site location and access arrangements. (b) obtained as on the site location and access arrangements) (c) outcomes of the assessment of the site against the Rocational RF3. (c) outcomes of the assessment of the site against the Rocational RF3. (c) outcomes of the assessment of the site against the Rocational RF3. (c) outcomes of the assessment of the site against the Rocational RF3. (c) outcomes of the assessment of the site against the Rocational RF3. (c) outcomes of the ansister of the approved Site Rocational RF3. (c) outcomes of the ansister of the approved Site Rocational RF3. (c) outcomes of the ansister of the approved Site Rocational RF3.	P	AI		AI	াহ	P	Pacific Complete has an approved Ancillary Facilities Management Plan (Appendix BP of the Pacific Complete ERM). The AFM was approved by the Environmental Regressnatives on 10 Fabruary 2016 The purpose of the AFMP is to debied how Pacific Complete will server, consult, grant management phase and approved and complete in accordinate with serve Pacific Site specific callary facility served will be repeated by Pacific Complete in according with server project. Site specific callary facility served and the family server server and the AFMP is a developed and will be repeated by Pacific Complete in according with the requirements of Appendix EIB Ancillary Facilities Management Plan (ER approved 10 February 2016).
Notwithstan flooding an ancillary fa facility	Nowithdamding condition BT4, ancillary facilities that have not been previously identified and assessed in the documents liabed in condition A2 and result in addetional impacts to bodiversity. Iheritage, flooding and noise beyond those approved for the SSI, shall be approved for the SSI shall be approved to the SSI shall be approv	AI	īv		IF	л	Ч	Pacific Complete has an approved Ancillary Facilities Management Plan (Anapted): Bio He Pacific Complete CEMP). The ATMP was approved by the Environmental Representive on 10 February 2016. Che propesio of the AFMP is to detailed how Pacific Cherphothe will search, consider y and hysicond and manage individual and according of detaily activity and project. Site specific architery facility facility management plans will be required the Yanding Maculty facility facilities Management Plan (ER approved 10 February 2016).
e land o	The land on which ancillary facilities are located shall be rehabilitated to at least their pre-construction condition or better, unless otherwise agreed by the landowner.	All	7I		IF	ч	ч	Pacific Complete has an approved Ancillary Facilities Management Plan (Apactic 895 che Pacific Complete CEMP). The AFMP was approved by the Environmental Represence on 10 Eetmany 2016 The purpose of the AFMP is to delained how Pacific Complete will serves, consider guin approval and Complete will serves, consider guin approval and manage relovation attemptive allow Pacific Complete will serve accounting valuely growth and project. Site specific articulary Melly Pacific Anna Management Plan (ER approved 10 February 2016).
here cho ndition E i does n results e releva	Where changes are made to the boundary or use of an anciliary facility, including facilities identified in the documents listed in condision A2, the Applicant shall assess the facility against the criteria set out in condision B73. If the ancient set facility against the criteria set out in condition facility and the facility against the criteria set out in condision A2. If the ancient set facility against the criteria set out in condision B74, or facility against the set, the approval of the Environmental Representative in accordance with condition B74, or (b) results in impacts to blookiversity, heritage, flooring and noise beyond these approval for the SSI, the Applicant shall seek the approval of the Secretary in accordance with condision B75. The relevant approval shall be obtained prior to the exclusion and house approval for the SSI, the Applicant shall seek the approval of the Secretary in accordance with condision B75.	Ы	Ч		Ч	Ы	АІІ	Pacific Complete has an approved Ancillary Facilities Management Plan (Appred) B90 the Pacific Complete CEMP). The ARMP was approved by the Environmental Representation on the Arbanary 2016 Complete will asserts, comsity gain approval and Complete will asserts, comsity gain approval and management plan, test according ta daily management plans will be represent of Pachonic Configure Management Plan (ER approved 10 February 2016).
The Applie archaeolog a) any arc he Gonstri b) the rest on Aboris	In Applicant may under take archaeological investigations at sarchiny sties that do not meet the oritizen set out in condition 43.5, where this is required to posses the potential. Aboriginal and run-Morrgani chaeological impacts of the anality of a previous material provide the oritizent set out in condition 43.14 for Aboriginal heating, and and heating, and the original heating and and heating and and and an analyzed set provide and and and and an analyzed set provide and and and and and and and and another of the original heating and heating and			Condition removed in Mod 2				Noteth Condition removed in Mod 2

Category	Part	Section 1 and 0	Soft solls (Mave 1, 2 & 3)	Comments	Section 3 to 11	Soft solls (Wave 1, 2, 3 (Mave 1, 2, 3 5 5	Vave 5a, 5b & 5c	Comment
B7	The Applicant shall ensure that material extracted from the borrow sites established for the SSI, is only used for the construction of the SSI subject to this approval, and no other sections of the Pacific Highway or other vortes.	ч	AI		All	Ы	AII	Pacific Complete will prepare site specific Borrow Site Management Plane as required by the project. This requirement will apply to all borrow site management plane prepared by Pacific Complete.
BB	construction and protect and insure that and equipment used at the site is. The Applicant shall onsure that all feart and equipment used at the site is. (b) operated in a proper and efficient manner.	AII	All		All	AI	AII	Pacific Complete has an approved CEMP. Pacific Complete will approve Contractor EMPs and EWMSs and apply RMS/PC specifications to ensure compliance with this CoA.
BB	OPERATIONAL PERFORMANCE B81 The Applicant shall ensure that during the operation of the SSL water quality risks to the Woodburn Borefeld drinking water catchment are minimised to the satisfaction of Rous Water.	NA	AII	Soft soil early works at Tuckombil canal is at the southern tip of the Woodburn Borefield	æ	4	Ş	To be addressed during detailed design. Detailed design bit reports are required to detail how the design complies with the relevant environmental design criteria. The reture compliance with relevant CoAk. De ensue compliance with relevant CoAk.

COM	COMPLIANCE TRACKING - NSW CONDITIONS OF APPROVAL Woolgoolga to Ballina SSI-4963				₩Z	ANS NO	Transport Roads & Maritime
PART	PART C - Community Information and Reporting	Reproduced from	Reproduced from W2B Staging Report, March 2015.		COV	ERNMENT	selvices
Category	Part Requirement Securement Securement	Section 1 and Nave 1, 2 &	Stage 1 Comment	Section 3 to (W	Soft soils Wa (Wave 1, 2, 3 & 4)	Wave 5a, 5b & 5c	Stage 2 Comment
COMMUNITY	COMMUNT PROGRAMMON CONSULTATION CONTRATION Communication Construction or as otherwise agreed by the Secretary, the Applicant shall propare and implement a Community Communication Strategy to the satisfaction of the secretary. The Strategy stall produce mechanisms of builded common strategy to the satisfaction of the construction process and community stateholders (particular) and particular) and particular associated with revironmental management is successible more structure, scope, optiechers and frequency of the community stateholders (particular) and particular) and particular associated with revironmental management is used for equival on the community stateholders (particular) and particular) and particular associated with revironmental management is used for equival on the environmental management is successible more structure, scope, optiechers and frequency of the cost of the co	IV IV	An overarching Woolgoodja to Balitra Community Communication Strategy will be propared.	Ę	y Vi	< 02 e	An overarching Woolpoolga to Ballina Communication and Suikoholder Engagement Strategy has been prepared and approved. DPE Approval dated 13 May 2015.
COMPLAINTS	Conservation and encounted pre-construction and construction, or as otherwise agreed by the Secretary, the Applicant shall ensure that the following are available for community enquiries and provide the otherwise diverse to the commencement of pre-construction. To a set advected construction compliants that enquires about the SSI may be registered: To a relation of construction compliants and enquires and the registered: To a mean advects to which endernois compliants and enquires rank to the registered: To a mean advects to which endernois compliants and enquires rank to the registered: To a mean advects to which endernois compliants and enquires rank to the registered: To a mean advects to which endernois compliants and the readom. The heightone number, the proball advects and the ennal advects and the mean advects and the mean advect and the endome or advect and the readome. The heightone number, the repeating and the search to provided on the website (or decladed pages) required by this approval. The heightone number. This information shall also be provided on the website (or decladed pages) required by this approval.	IZ IZ		IZ	VI VI	N9650057906	Information and systems required by this condition have been established. Teach to the overstring Wooppoind to Balman Communication and Statevholder Engigerment Statelogy (DPE Agreent addated Takky 2013), the external duration to the molitodin in the approved Pacific Comprise of the the Section 6.3 Stateholder and Community Communication. Pacific Comprise with this Cox. Separate and approved CEMPs and Comprise with this Cox. Separate and approved CEMPs to compleme with this Cox. Separate and approved CEMPs and 2013
	Prior to the commencement of pre-construction and construction, or as otherwise agreed by the Secretary, the Applicant shall propare and Implement a Construction Compliants Managoment System consistent with SS 5289. Compatinis Handling and manibili the System for the duration of construction and up to 12 months following completion of the SSI. Information on all compliants received, including the months they were addressed and whether resolution was reached, with or withour mediation, shall be manatared in a compliants register and included in the construction compliance reports required by this approval. The information constanted within the System shall be made available to the Secretary on request.	yı Vi	Roads and Mirtlim has developed an overstching Woolgooga b Balina Construction Completink Management System.	١٧	AII AII	2004200000000	Information and systems required by this condition have been established. Relet to the overarching woolgoolga to Ballina Communication and Stativologic Ergagoment Strahopy (DPE Agronal dated 13 May 2015). Relevand eduate have been included in the approved Pacific Computer Ergagement activation is 3.5 Stabiologic and Communication and Section 6.3.2 Compliants and Erginese Proceedure. Pacific Complete with this Co.K. Signate and Bayroord CEMP occumentation is in place for soft soil works (Wave 1 and Wave 22.
	<b>C4 ELECTIONIC INFORMATION C4 ELECTIONIC INFORMATION C5 ELECTIONIC INFORMATION C5 ELECTIONIC INFORMATION C6 ELECTIONIC INFORMATION C6 ELECTIONIC INFORMATION C6 ELECTIONIC INFORMATION C7 ELECTIONIC INFORMATION C6 ELECTIONIC INFORMATION C7 ELECTIONIC INFORMATIONIC INFORMATIONIC INFORMATIONIC INFORMATIONIC INTERNATIONIC INTER</b>	yi Vi	An overarching web site addressing all active project slages will be developed.	Ρ	71	20045	Information and systems required by this condition have been established. Reter to the overarching Wooggodga to Ballina Communication and Sakeholder Engagement Stralingy (DE Approval caland 13 May 2015). Pacific Complete with work donely with RMS to ensure the required information is made available.

Transport Roads & Maritime	Services	Stage 2 Comment	Milgaton Framework approved by DPE on 8 May 2015.	To be addressed during delated devigin Each devigin Porton (Le A. B. C and D) will be required to pregrar a Connection's Bendary in accordance with the requirements of this CoA. Practic Competite will reconclusted seging determinates of this CoA. Practic Competite will accordance with the requirements of this CoA. Practic Competite will reconclusted seging determinates to this CoA. Practic Competite with the second seging determinates of this CoA. Practic Competite with the second seging determinates of this CoA. Practic Competite with the nature of the early enabling construction activities associated with being underlatent as Vares 1, 2, 3 and 4. With respect to Bana connecterly second results reading construction works with an of praved connecterly second results and activities and a Post connecterly second results and activities and EAA on connecterly devise and how the early reading construction works with the Interport of the reading on anti-praved connecterly second results and activities to the approved Threatened Species Mundiment Plans. The shift of devise their Interbonal requirements are most in advise to devise tradement than acconstruction for activities to devise their Interbonal requirements are most in advise to devise their Interbonal requirements are for the Stage 2 works, unders a device to the de	To be addressed during distliked design Each design Portion (iz A, B, C and D) which covers Societan Stronghis to Societan 1 will be required to program a Connectivity Schraight non stronghist to Societance and the sequence of the connectivity and the relevant CoAs. The nature of the mark problem constructions activities associated with Ware 63, 53 and 54 bits some as that the soft add design deliverables to connectivity address radiation data and address and address between the connectivity and the relevant CoAs. Societa Mark and Societa Markment CoAs. Societa Markment Connectivity and solver the soft and connectivity address haves 1, 23 and and solver the soft and brand performance and the address and solver the soft and connectivity address and hower 1, 23 and and where any equival throngoing and how which therein and where a period Markment Stratages for Portice A. B. and defer policia advanced with the programment is advanced and advanced strong and the soft and baland advance advanced with the programment of the connectivity Stratages for a advanced and the programment and advanced with Stratages for advance advanced for the programment and advanced with the programment for the programment and advanced with the advancement for an connectivity stratages for the tables to a transport and advanced with the programment and advanced with the programment to market advanced with the programment and advanced with the programment to market advanced with the programment and advanced with the programment to market advanced with the programment and advanced with the programment to market advanced with the programment and the under the underse otherwise agreed by DR&ED0.E.	
NSW N	GOVERNMENT	Soft soils (Wave 5a, 5b & & 4) 5c	2	ž	ž	
Note: anly	1,2,3&4		AI	Y.	ž	
		Section 3 to 11	īz	P	2	
	Reproduced from W2B Staging Report, March 2015.	Stage 1 Comment	To be developed and implemented as an overarching framework addressing at active project stages and updated as required	To be implemented as an overarching strategy addressing at active project stages and updated as required.	To be implemented as an overarching statiogy addressing all active project stages and updated as required.	
	Reproduced fr	Soft soils (Wave 1, 2 & 3)	All	R	τ	
		Section1 and 2	YI.	Ŧ	2	
COMPLIANCE TRACKING - NSW CONDITIONS OF APPROVAL Woolgoolga to Ballina SSI-4963	PART D - Environmental Management, Reporting and Auditing	Requirement	The Applicant shall develop a framework for finalising miligation measures for threatened species. This Miligation Framework shall be developed by a suitably qualified and experienced exceeding and experienced encoder control in the Societary prior to commonent of obtained eduspon for relevant stage. The Majation Framework shall be developed by the Societary. The Majation Framework shall programs required under this spatiation of the substatement of obtaining the obtaining the obtaining the obtaining the developed by the Societary. The Majation Framework shall programs required under this spatiation of the methodoby of all propried for Framework shall not be a stated or the Societary prior to commonent of obtained edusp of the relevant stage. The Majation Framework shall not be solved programs required under this spatiation of the methodoby of all propried for construction spatial surveys, undertified and construction scale and as the accordiance state and the solved state of the accordiance of a description of the methodoby of all propried for construction spatial surveys, undertified and construction scale and as the accordiance of the accordiance of the methodoby of all propried for construction spatial surveys, undertified and constructions and survey and as the accordiance of the methodoby of the propried for construction state with relevant NSV and Commonwealth field survey method and stage of the condition 21 (a) a state of the methodoby of the propried for the accordiance of the methodoby of the propried for the accordiance of the methodoby of the propried for the accordiance of the measures and a state of the methodoby of the propried for the accordiance of the double of t	The Applicant shall prepare and implement a Connectivity Stateby, to be submitted and approved by the Secretury prior to the commencement of construction. The strategy shall describe the relationable for, and final design and location of tarus connectivity structures for the Sgencies strategy determines of the the Sgencies and DoE, to the sestence of the Strategy and DoE, to the sestence of the Strategy and DoE. The strategy shall reduce the set of the Sgencies of the Sgencies of the Sgencies of the Sgencies of the Scence of the strategy that determine the Connectivity the determine of the Strategy and DoE. The strategy the Strategy in the doct. The strategy is the doct. The strategy that the doversity shall include the dome of the strategy that the doversity strategy in the doct. The strategy that and DoE. The strategy that make the doversity shall include the dome of the strategy strategy in the doct. The strategy that the doversity shall include the strategy that the doversity shall include the strategy that the doversity strategy and the strategy strategy the strategy strategy the strategy strategy the strategy strategy that the doversity strategy the strategy the strategy strategy that the doversity structures the strategy strategy the strategy strategy that the strategy the strategy strategy strategy the strategy strategy strategy the strategy strategy the strategy strategy the strategy strategy strategy the strategy strate	<ul> <li>(i) a fincting strategy, descripting the location, design and length of faccing, which must extend beyood the edges of habital; for threatened spocies;</li> <li>(i) the maintenance of connectivity measures and faccing, which must extend beyood the edges of habital; for threatened spocies;</li> <li>(i) the maintenance of connectivity measures and faccing, which must extend beyood the edges of habital; for threatened spocies;</li> <li>(i) the maintenance of connectivity measures suid faccing, which must extend beyood the edges of habital; for the mainty of those structures in light of this assessment. The agreement of the EVA deft, or not for for the masses restart to connectivity the measures and the mainty and provide of the model of the station, short habital, or an fell by provide controllivity the measures and the fact for the masses restart to connectivity of the masses restart to the mainty of the edges of the</li></ul>	
OMP /oolg	ART D	Category Part	5	D2 (a)- (g)	D2 (n) (n) (n)	
03	Р	Cat			BIOD	

		Section1 and 2	Soft soils (Wave 1, 2 & 3)	Comment	Section 3 to 11	Soft soils (Wave 1, 2, 3 & 4)	Wave 5a, 5b & 5c	Comment
The Applicant ealling paperse and implement as Biodiversity Office Standary to outline how the excitoting of environment ealling paperse and implement as Biodiversity Office Standary to outline how the excitoting and environment of the standard standard standard and an excited and an environment biodiversity and and and the outline Standard standard and and and and an excited and and and and and and and and and an	A second from the draft Biodivenery Clines Strangy to outline how the ecological value tata as a read of the SS will be offer in septembry. The Strangy shall be developed from the draft Biodivenery Clines Strangy to outline how the ecological value tata as a read of the SS will be offer in septembry. The Strangy shall be developed from the draft Biodivenery Clines Strangy to outline how the ecological value tata as a read of the SS will be offer the strang strang tate and strangest and the draft Biodivenery Clines Strangy to current strangest and developed from the draft Biodivenery Clines Strangy to the document's field on a like/biolia basis and at a minimum ratio of 4.1 from take vegetation (induing stat different Assessment Guide (Commonwalth of Michelmen is the greater). (1) the objective and common part of the Strangest and Biodiventry Commonwalt of Australia 2012, and Clines Assessment Guide (Commonwalth of Michelmen is the greater). (1) the objective and common part of the Strangest and Biodiventry Commonwalt of Michelmen E and the common and an advancement basis and the components for the tase and the strace of finish trequent of the strates). (1) the objective and common part of the strates and biodiventry for the strates and distract advancements of the Action and the strace of finish trequest of the strate of the strate (1) the objective and common strates that the option and the strace of finish trequest (in heatral). (1) changes the SSI loopment strates that the option and the strace of finish trequest (in heatral). (1) the distribution of addivent part of an exploration and the strace of distribution and the strate of the strate of the strates. (1) the distribution of addivent part of an existent and was as a neuter of dashed of more task of the strate of addivent task and the strate of the addivent of the strate of t	R	R	An overarching Biodivershy Offiest Strategy will be prepared for the project and will be updated as required	Ż	2	F	Biodiversity Offset Strategy Approved (DPE 6 January 2016 and DoE 7 January 2016).
Prior to the commencement of construction work that would retard in the disturt be undertained in the commencement of construction work that would retard in the Socie to undertained in constructions with the OEH-EE/O. FOI (Frahmer) and DDE Suit () details of distructions that the OEH-EE/O. FOI (Frahmer) and DDE Suit () should product the commencement in the Societarian and Woomhahlful () should product conservation the function of the Socie- tation of the Societarian of the Societarian and Woomhahlful () should product conservation to the Societarian and Woomhahlful () should produce the Conservation of the Societarian and Woomhahlful () Societarian Conservation and the Societarian and the Societarian and Conservation and C	Prof to the commenoment of construction work that would returt in the disturtance of the relevant existing ecological communities, threathing denotes, or their habbit, unless otherwise be undertaken in comstantians with the GEH/EEA. (Del) (Fahriera) and DGE Submission of the offset sites for approval shall be accompanied by: The selection of the offset sites aboud be undertaken in comstantians with the GEH/EEA. (Del) (Fahriera) and DGE Submission of the offset sites for approval shall be accompanied by: () Youals population in comstantians that the distribution. () Youals population in Comparison (Dansea of Monthahilluka. () Youals population in Comparison (Dansea of Monthahilluka. () Youals population in Comparison polycophone cheal). () Youals population frame (Dansea of Monthahilluka. () Youals population (Dansea of Montha) and DGE Submission of the offset sites for approval shall be accompanied by: () Youals population (Dansea of Montha). () Youale Dansea (Dansea of Montha). () Yanghahim frattion (Periodica) and () Yanghahim frattion (Periodica) and () Yanghahim frattion (Periodica) and () Yanghahim frattion (Periodica) and () Yanghahim (Periodica) and () Yanghahim (Periodica) and () Amore Dansea (Dansea of Austria). () Yanghahim (Periodica) and () Amore Dansea (Dansea of Austria). () Yanghahim (Periodica) and () Amore Dansea (Dansea of Austria). () Yanghahim (Periodica) and () Amore Dansea (Periodica)	IV	NA	Soft soil anny vords do not impact on the subject species identified in D.4.	3.4.6.9.10. 11	¥	र इ	Threatmed Biodiversity Offsat Status Report (DPE Approval 6 January 2016 and DE Approval 7 January 2016) - Nore har this TBOSR 2016 Science January 2016 (Status Science and T. An update Threatmed Biodisersity Offsat Status Report vers submitted for approval the Am June 2016 (which addresses the Kolai Population Codigarde & Broadwater as well as Utbrian Rainforest.
Set PAIRALESY The Applicant shall proper and implement (plowing approval) a Biodiversity Offset Package, with the Opel-EAA. DPI (Fibrins) and DDE. For the approval of Biodiversity Offset Package, and the Opel-EAA. DPI (Fibrins) and DDE. For the approval of the Secretary stores as a read of the objective and biodiversity object inhabit and the Secretary and shall fund (a) the objective and biodiversity object inhabit and the Secretary and the objective (a) the objective and biodiversity object inhabit and the Secretary and the objective (b) he objective and biodiversity object inhabit and the Secretary and the objective (c) and the objective and biodiversity object inhabit and the secretary (b) an assessment and monitoring requirements for compressing yields the secretary (c) an assessment and monitoring programs (c) DG. (c) the monitoring of the original program (c) DG. (c) the monitoring and reporting program (c) modeling the while a device (c) the monitoring and reporting program (c) DG. (c) the monitoring and reporting program (c) modeling the while the objective (c) the monitoring and reporting program (c) modeling the while the second (c) the monitoring and reporting program (c) the antiset interactive and (c) the monitoring and reporting program (c) the antiset and recological (c) the monitoring and reporting program (c) the antiset interactive (c) (c) the monitoring and reporting program (c) the antiset interactive (c) (c) the monitoring program (c) the antiset interactive (c) the basis (c) the monitoring program (c) the antiset interactive (c) the basis (c) the exact of basis of the current (pairly (provide to antiset interactive) of the extert (c) the exact of basis of the current (pairly (provide to antiset interactive (c) a description of the current quality (provide to antiset interactive) of the exact of the provident of the exact of the provident of the current quality (provide to antiset interactive) of the exact of the provident of the current quality (provide to antist provident) (c) (c) the	The statistics of the properties of the provided provided of the product processing within hearly duar months of approval of the Biodenergh Offest Stategy. <i>Ca</i> as ofteneries of approval of the Biodenergh Offest Stategy. <i>Ca</i> as ofteneries of the Stategy of the Stategy of the Stategy <i>Ca</i> as ofteneries of the Stategy <i>Ca</i> and the state of the Stategy of the Stategy of the Stategy <i>Ca</i> as ofteneries with the GHE <sup>T</sup> . All PI (February The actual and the state of the Stategy of the sta	ν	ν	A project wide Blodwenity Offieit Package will be prepared	АІ	ЯІ	R	A Biodiversity Offiet Package will be propared. Program currently being prepared
(1) bugged management actons, regeneration and/or revealed in local performance objectives for management actors that violate activity and activity of the second performance (1) performance objectives for management actors that violation (1) performance objectives for management actors that violation (1) performance and competion relies in event that performan- tible performance and competion relies. The performance and competion relies in the performance and competion relies. (1) obtective performance and competion relies (1) obtective performance and competion relies. (1) obtective performance and competion relies. (1) obtective performance and competion relies (1) obtective performance and competion relies a many or consistent with the Principies for the use of the resolution of these sections of a and offse an improved or manitaned bolowershy outcome for the orgon Where monitoring required marks or operements induce there are environments of the Elocivershy Ottors (1) the anguest threaders are strated by the Societary. Nets. (Nets. (1) and the relieven as a performance as a performance and the strate objective of the Biodowershy Ottors (1) and ottors a performance as a performance (1) detains to the Elocivershy Ottors (1) the Biodowershy Ottors (1) and (1) an	(i) biggred management actors, regeneration and/or revegation catalogues to be undertaken on the offest areals) to improve the ecological quality of these areas for the relevant of class performance objectives for management actions that vall enable maintenance and enhancement of habitat within the offest area, as well as contribute to the better protection of or class performance objectives for management of the offest area, including contributent within the offest area, as well as contribute to the performance and competion criteria for evaluation the maintenance and enhancement of habitat within the offest area, as well as contribute to the performance and competion criteria for evaluation the manuaccomposition to magement of the optical performance of these actions in the event that performance objectives are not trunk a program. Dia monitor and report on the effectiveness of three actions and a commitment to the performance and competion criteria for evaluation. The provision and the insport on the effectiveness of three areas, and progress against the performance and completion criteria. The provision and the biodiversity Offset Picalgas and activering performance objectives: (i) details of two would be insportation; neivening and insportance and ecological performance objectives: (ii) details of two would be insportation; neivening and insportance and ecological performance objectives: and offeres atal her consistent with the Principies for the use of Biodiversity Childs Picalgas and activering and the insport and offeres atal her consistent with the Principies for the use of Biodiversity Childs Picalgas and activering and the standard offeres aparted and the insported or maniferent conders of the ender tests approved under condence of a constraint which there maniferent to intervant with the principies for the use of Biodiversity Childs Picalgas and activering actured by a conservation mechanism with the constraint with the Pincipies for the use of Biodiversity Childs Picalgas and actine for the offe	R	₹	A project wide Biodiversity Offieit Package will be prepared.	₹	IF	₹	A Biodiversity Offiet Pachage will be prepared. Program currently being prepared.

Comment	Nest Box Plan approved (DPE approval 17 February 2015)	Tanalocation Stratling Update 3 (er Section 3-11) Approved by DPE on 2 February 2016. DeE twee confirmed no comment Translocation Stratling Update 2 (Waves 1, 2 and 3) Approval by DPE on 11 June 2015.	The following Threathened Species Management Plans have been prepared and approved: Threathened Flora Management Plan, Update 1, Disc Physics 1, Service 1, 2 and 10 DFC Approxal 21 August 20 April 2015, Disc Physics 3 (Service varia) and a providenced Flora Management Plan Approxal 4 Service 10 DFC Approxal 11 August 2015, Disc Approxal 4 Service 10 DFC Approxal 11 August 2015, Disc Approxal 4 Service 10 DFC Approxal 11 August 2015, Disc Approxal 4 Service 10 DFC Approxal 11 August 2015, Disc Approxal 4 Service 10 DFC Approxal 11 DFC Approxal 12 Service 11 DFC Approxal 4 Service 10 DFC Approxal 11 DFC Approxal 25 DFC Approxal 2015, Threathened Flora Management Plan, DFC Approxal 2014, 2015, Threathened Flora Management Plan, (Jodna 2) Flora Approxal 2014, 2015, Threathened Flora Management Plan, (Jodna 2) Flora Approxal 2014, 2015, Threathened Flora Management Plan, (Jodna 2) Flora Approxal 2014, 2015, Threathened Flora Management Plan, (Jodna 2) Flora Approxal 2014, 2015, Mana Management Plan, (Jodna 2) Flora Approxal 2014, 2015, Threathened Flora Management Plan, (Jodna 2) Flora Approxal 2014, 2015, Threathened Flora Management Plan, 2010, E Approxal 201	As above. Approved Threatened Species Management Plans for part of the approved Pacific Complete CENP (e. Construction Flora and Table Table Table Pacific Complete will pace Construction Flora and EMPs, EVMSs and ESCP-to rensure completion with the relevant requirements of the various Threatened Species Management Plans.	Kotak Management Plan (update 2) for Sectores 3-6 (ecoloring liuka population), Section 11 and Moroto Cut KMP (update 2) DPE approval Remarkation (Section 11 and Moroto Cut KMP (update 2) DPE approval Management Plan (update 3) for liuka population. Biocadvater (proth den prima dia Costata (Section VI) was submitted to DDE for approach in Fehrung 2016. PerfoC complete will approve Contracter EMPs. EVMISs and ESCP4 to ensure completion will approve Contracter fedurements of the Koata Management Plans.
Wave 5a, 5b & 5c	AI N	Pierre	2 2	R OF R	38. 38. 7. 97. 4. 4. 4. 4. 4. 4. 4. 4. 4. 4. 4. 4. 4.
Soft soils (Wave 1, 2, 3 & 4)	Ы	AI	Ę	АІ	И
Section 3 to 11	<b>SI</b>	Ai	₹	All	6.9,10
Comment		A project wide statingy will be prepared that is progressively updated.	Refer to the table in Section 7 of the Stage 1 Staging Roport which identifies which plans apply to each section.	Refer to the table in Section 7 of the Stage 1 Staging Report Which Identifies which plans apply to each section.	
Soft soils (Wave 1, 2 & 3)	ЧI	AII	ĨČ	All	N
Section1 and [Wave 1, 2 & 3]	ч	All	र	ЧІ	И
Requirement	Prior to the commencement of construction of the relevant stage that vould reaul in the disturbance of mains vogetation (or as otherwise agreed by the Secretary), the Applicant shall prepare and implemental after Box Plan to provide registerment hollows for displaced that an Tab Plan shall be prepared in consultation with the EPA off-th and to the satetaction of the prepare and implemental after Box Plan to provide registerment hollows for displaced that an Tab Plan shall be prepared in consultation with the EPA off-th and to the statemary. The Plan shall be prepared that and support of the optime and the antimeter and type of main the support of the number and type of hollows removed table of an exterimonda to the meet bores in the main displace main and the administry of adjacent food resources. The Plan shall also provide deals of maintenance protocols for the meet bores intended in a disport areas.	ID DIVERSITY INTERVISION STRATESY To Applicant ball representable representable from Translocation Strategy to determine the finalelity and potential efficacy of translocation measures (as identified in the threatmend provide management plans required under condition (b) prior to the commonisment of construction work tax would meat the threatmend from application to the provide management plans required under condition (b) prior to the commonisment of construction work tax would meat the threatmend provide management plans required under condition (b) prior to the threatmend of construction work tax would meat the threatmend from application of the provide management of thinkment of the provide management of construction with the OEH-EPA and DoE, and to the statisticity of the provide management of thinkment of the provide management of the provide management of the statistic plans application of the (c) a framework for the translocation measures potentiate in the Biodiversity Offstic Packagement and intervident appropriate compensation (c) the translocation is not reasonable of framework for the translocation of the plans appropriate compensate plans application for the plans appropriate compensatery plans in the Biodiversity Offstic Package required under condition DS where translocation is not reasonable or feasible (c) consideration of appropriate compensatery habitat in the Biodiversity Offstic Package required under condition DS where translocation is not reasonable or feasible.	In the process of the process of the process of the process of the SS will be minimated and managed specifically for each process of the SS will be minimated and managed specifically for each process of the set proces of the set process of the set process of the set proces of	<ol> <li>details of confingency measures that would be implemented in the event of changes to habitat usage patterns, entities, distribution, and movement patterns attributable to the construction or operation of the SSI, based on adequate baseline d.a.</li> <li>Demonstruction for organg monitoring during operation of the SSI (by a posterior) of the SSI based on adequate baseline d.a.</li> <li>Demonstruction for organg monitoring during operation of the SSI (by a posterior) of the SSI based on adequate baseline d.a.</li> <li>Demonstruction for organg monitoring during operation of the SSI (by a posterior) of the SSI based on adequate baseline d.a.</li> <li>Demonstruction for organg monitoring during operation of the SSI (by a posterior) of the sector of the SSI (by a posterior) of the sector of the SSI (by a posterior) of the sector of the SSI (by a posterior) of the sector of the sector of the SSI (by a beneficient of the SSI based on the SSI (by a beneficient of the SSI based) or undes of the sector of the SSI (by a beneficient of the SSI based).</li> <li>Demonstrated over a minimum of three successive monitoring periods, unless of the sector of the sector of the sector of the SSI (by a beneficient of the Sector of the SSI (by a beneficient of any other autometations and approved by the Sector of the Sector of the Sector of the sector of the dometation and the dometation of the dometation of the other admetal admetation of the sector of the sector of the dometation of any variance from the recommendations for the commencement of drift plan in the dometation of the dometation of the Sector of the secto</li></ol>	As part of the Threatened Species Management Plans required under concision D8, the Applicant shall prepare and myolement a Koala Management Plan to demonstrate the organing survival of the Voala populations at Coelignadiagoville, Erotandenet and Woombaltula. The Plan shall be prepared by a suitably qualified and experienced species expert and shall (a) results of detailed surveys to demonst. (a) Read-Management Plans to demonstrate the organing turnival of the propared but not necessary be integrated approved surveys to demonst. (b) Read-Management and Woombaltula Kall Plans the detailed surveys to demonst. (b) Read-Management and Voombaltula Kall Plans to propared by a suitably qualified and experienced species expert and shall (b) Read-Management and the Read-Management and targo tracking the necessary of anneys and targo tracking the necessary to an independent under condison (b) Nabat areas subtract the Cologation which are alravely properties that and a subtract and targo tracking the necessary of anneys and targo tracking the necessary and targo tracking the necessary of anneys and targo tracking the necessary of anneys and targo tracking the necessary targot target and targotoget and targotogets the Applicant may vary the required and the necessary target and and targotoget and be an every present and targotogets the undependent under condison (b) to the fragmented and to target as a substruction of the SSI. (c) advestive target tracking the total and as a substruction state and tracking the location data target to target as a tarvey tracking the organical and target tar
ory Part	8	D7 (3 5 5 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		D8 0+0 0+0 0+0 0+0 0+0 0+0 0+0 0 0 0 0 0	D3 (c)
Category		NICOIR	NICOR		

Comment	Koala Management Plan (update 2) for Sections 3-8 (excluding Ilidia Admiston, Section 11 and Monoto Cut, KMP (update) 2) PE approval 4 February 2016. Dec approval on 28 February 2016. Koala Management Plan (update 3) for Mala population. Readwater (prith of Lang Hill and Coopgarde (Section 10) was submitted to Def for ortang Hill and Coopgarde (Section 10) was submitted to Def for Def Def Mala and EXOPT to instruct compliance with the relevant requirements of the Koala Management Plans.	Koala Management Plan (update 2) kr Sectores 34 (excluding liuka population), Sector 11 and Morero Cut. KNP (update) DPE approval Hanagement Plan (update 2) kr More (not the constraint of the constraint of the constraint sector) by an subtainon. Biocadament (north Ananagement Plan (update) 3) kr Mida population. Biocadament (north approval frequent 2016; Pradice Compate Mid approve Constration approval frequenty 2016; Pradice Compate Mid approve Constration approval frequents of the Kotal Management Plans.	Koala Management Plan (update 2) for Sections 3-8 (excluding liuka potoidany). Sector 1 and Monoto CA KNP (option 2) DF approval 4 February 2016. Delis approval en 29 February 2016. Koala <i>Amagement</i> Plan (Papeter 9) in Kuba poulitato Ensodwisti (north of Lang Hi) and Cocigardie (Sector 10) was submitted to Deli En of Lang Hi) and Cocigardie (Sector 10) was submitted to Deli En group with reflexing 2016. Pacific Complete will approve Contractor EMPs. LWMSs and ESO-Fs onstare compliance with the relevant requirements of the Koala Management Plans.	Pacific Complete (Deliverty Partner of Roads and Maritime Services) has an approved Construction Environmental Managament Plan (EURP) overvieth Stachens 3 br. 1. The land use arrow was incorporated than the Construction Naese and Wartiston Managament processor plane of the plane construction Naese and Wartiston Con- necessor and the plane construction Noise and Wartiston Managament Complete with construction noise requirements (CoAs and mfightion measures).	To be addressed during detailed design. Each design Portion (a. A. B. and D) which corres Section 2 through 10 sectors of 11 will be required to propare an Operational Noise Rowew in accordance with the requirements of this coA. Pacific Compiete will review detailed design deliverables to ensure compliance with the relevant CoAs.
Wave 5a, 5b & 5c	ઝ ફ	ů đ	95 . 95	R	A N
(Wave 1, 2, 3 & 4)	NA N	S.	Y	ч	¥.
Section 3 to 11	ى 10 10	0 1 6	6.9 10	F	Я
Comment					Wave 12 and 3 soft soil vorts do not include operational noise migation measures
(Wave 1, 2 & 3)	W	¥	¥ N	Al	٩
Section1 and 2	ž	ž	W	АІ	Ы
Requirement	(i) justification that the location and design of milgation measures. (i) have been designed with the objective of no doull not the commencement of construction of the SSI. In the event that a Koala is injured or killed during construction or agreed by fiscation. (ii) have been designed with the objective of no doull and the momencement of construction of the SSI. In the event that a Koala is injured or killed during construction or agreed by Rescritury. (ii) have been designed with the objective of the occurring, and the record stall means available for a provide of a reported on the opplicants weekee within 24 hours of this occurring, and the record stall means available is postable to a provide of a reported on the opplicant set ways are the resolution of the cospituational providence and Woomshills apputations and thermal share and Woomshills apputations and thermal start (ways with the comption. State areas and a means and allocation the comption. State areas are a Woomshills apputation to the cospitational approximation of the cospitational approximation. However, the state area of Woomshills apputation to the cospitation and approximation that provide paratice areas and another the state of the source of the sou	(i) If the migation measures discussed in condition (Dio() cannot be directive to be artistaction of the Secretary, in consultation with EPA dEH and DEE, provision for the Plan is to invivant the invivant and computation (or the installation with EPA deH and DEE, provision for the hind with the invibution of the Secretary in consultation with EPA deH and DEE, provision for the installation measures discussed in condition (Dio() cannot tag dimensional plane or an information of the hind with the Alexan of with or the installation many organisation plane (if anno vorgen) of the more more stand. (i) provision for the installation many organisation plane) of faust connectentian. (ii) provision for the installation and vogation plane) of faust connectentian and vogation planting on land budges, to use and with a following static organisation planting on land budges. It is the addition of the second poly and commutation of the vogation planting on land budges, to the construction of the provision of vogation planting on land budges, to induoting static differentiants and dimensional plan to motion or planting on land budges, to the construction of the planting and budges, to the construction of the second construction of the second planting on land budges, to the construction of the planting and off-the measures are reflective including data cupication and the construction of the planting and off-the planting and budges and the construction of the planting plant	(i) if the measures in condision DB(i) cannot be demonstrated to be successful within one year of thair implementation, procedure for the submission of further offsets in accordance with condisions DB and DB(i), bue provided within one year of thair implementation, procedure for the submission of further offsets in accordance with the pipel pi	ON LOND USE SURVEY Prior to the commencement of construction, the Applicant shall undertake a land use survey to identify areas that are sensitive to construction vibration and construction ground-borne noise impacts. The results of the survey shall be incorporated into the Construction Noise and Vibration Management Plan.	ON OCERATIONAL MOISE REVIEW. The Applicant shall prepare a review of the operational noise miligation measures proposed to be implemented for the SSI, within six months of commencing construction, unless staged construction of the SSI and shall. The information of the SSI and shall. The information of the SSI and shall. (b) review the subplexitonin losis predictions of the SSI advances and another include a statistication of the SSI and shall. (b) review the subplexitonin losis predictions of the SSI advances advances taked in constant in the same advances of an appropriately calibrated notes model (which has incorronated additional noise motibring. Where necessary for calibrated at the odocuments lead in nondino AZ. The nerview shall take important the detailed design of the SSI (b) review the subplexit and the spectational noise mitigation measures used in the subplexit of mediated additional noise motibring, where necessary, refine the propriated noise model (which has (c) where necessary investigates addrive and there necessary is reflexed on the sole of the operational noise motibring where necessary is reflexed on the sole of the operational noise motibring where necessary is reflexed on the sole of the sole of the operation of the sole of the operational noise motibring and the necessary is reflexed on the necessary investigates addrive and reasonable and reasonable noise motigation measures to active the ordined in the NSW fraud Moles Policy (DECCW, 2011).
y Part	(b) PC (c) PC (c) P		(k) (k) (k) (k) (k) (k)	D10	D11
Category				NOISE AND	NOISE AND

Category	Part	Requirement	Section1 and 2	Soft soils (Wave 1, 2 & 3)	Comment	Section 3 to 11	Soft soils (Wave 1, 2, 3 & 4)	Wave 5a, 5b & 5c	Comment
	D12	The Applicant shall prepare and implement a Water Quality Montebing Program. Ito monitor the construction and operation impacts of the SSI on surface and groundwater quality and resources and water. The Program shall be prepared in construction and operation inspace to SSI on surface and groundwater quality and resources and water. The Program shall be prepared in construction to this Science of the Science and Spiral Include but not meeting to make the mind to the construction of surfaces and groundwater quality and statices and groundwater quality discrete them the science and sciences and sciences and science and sciences and sciences and science and science and sciences and sciences and science and sciences and sciences. Assimilated and the sciences and sci	А	T	A project wide water quality monitoring program is being	АІ	Я	P	Pactic Highway Upgade - Woolgoogla to Balina Sectors 3 to 11 Water Cualry Montoning Program (such issue: 21 August 2015) was proved on 22 August 2015. The Marc Cualry Montoning Program forms part of the approved Pacific Complete CEW (Appendes 84. Complete will manage the procurement of required suctions water and operational and manage the procurement of requirements of the Water Cualry Montoring Program.
HYDROLO	D13 CICAL MT	Trachion REEORI The Applicant shall prepare and implement a Hydrological Mitigation Report for properties where flooding and/or Hydrological impacts are predicted to exceed the relevant flood investigation with the analyment objection with the analyment of potentially floored analyment of potential with the analyment objection with the analyment of potential with the analyment of analyment of the SI and cause bote analyment of the the the analyment objection of the the the the analyment or angle of analyment of analyment objection with the relevant courcel (SI) with Extension and predicting the analyment of the SI and SI and SI.	-	М	Although soft soft works are located in the Clarence and Rchmodr five floodpains, flood modelling conducted monty the detailed design indicated and the relevant impacts due to the construction of embaniments in these areas are not predicted to screed the relevant flood management objective.	ч	W	W	To be addressed during detailed denign. Hydrological Mitgation To be addressed during detailed denign is expanded to its properties will be propertied units detailed denign is expanded to its properties where flooding address hydrological impacts are predicted to bendon (i.e. A. B., c. and D) which covers Section 3.b. Section 1.1. Pediatic Complete with relevant CoAs. Sett solar sorthe net relevant CoAs. Sett solar sorthe net relevant CoAs. Sett solar sorthe net relevant flood management Repecte Repectes are not predicted to exceed the clarance and Richmond Revers are of predicted to exceed the relevant flood management Repectes.
	D14	Based on the miggaten measures identified in condition D13, the Applicant shall propare and implement a final schedule of feasible and reasonable flood miggaten measures proposed and of the applicant shall propare and implement a final schedule of feasible and reasonable flood miggaten measures proposed works, unless of fensivity and proposed and and owner. The schedule of the function of the intervention of the integration measures on the property.	-	NA		AII	VN	NA	To be addressed during detailed design if identified by the requirements for AD TS1 years in the single proton (A, B, C, and D) who covers Sections 10: Section 11: Parallic Compiles will review detailed design detiverables to ensure compliance with the relevant CoA.
1	D15	The Applicant shall employ a suitbly qualified and experienced independent hydrological expert, whose appointment has been endorsed by the Secretary, to deal with all hydrological measures in magnetic and exercise the secretary and exercise and exercise the secretary and exercise the secret	All	AII	An individual is proposed to be engaged on a project- wide basis before construction commences.	AII	AI	AI	RMS has engaged a suitably qualified and experienced independent hydrological expert (Mark Babister) for the project.
8	D16	The Applicant shall provide feasible and reasonable assistance to the relevant council and/or NSW State Emergency Strivice. In prepare any new or necessary update(s) to the relevant and documents in relation to flooding. In reflect changes in flooding levels, flows and characteristics as a read to the SSI.	AI	ЧI		AII	AII	AI	Noted
	(	weeks by the set of the set and implement a Signage Policy to addresses the impact of boxes (South Grafton, Umarra, Tyndale, Woodburn, Broadwater and Wordel) which are by asserted by the SG, at least aximotins prior to operation, unless otherwise agreed by the Secretary. The Policy shall be propared in comultation with the relevant council and to the bysteaded or the Secretary. The Policy stall be corrected with the Guide. Signposting (RTA, July 2007), Tournt Signposting guide (RMS and Destruation NSW 2012) and provide for agreed and the the Policy stall be corrected with the Guide. Signposting the bysteade guide (RMS and Destruation NSW 2012) and provide for agreed and The Policy stall be corrected and the bystead bown of Scuth Signposting guide (RMS and Destruation NSW 2012) and provide for agreed and the provide information on the range of services available within the bysteaded bown of Scuth Ciration. Unleane, The Policy may be submitted in stages to such the staged construction of the SGI. The Policy may be submitted in stages to such the staged construction of the SGI.	NA	МА		3, 8, 9 and 10	¥N.	YN	Noted
	D18	The Applicant shall prepare and implement a Business Access Strategy to address changes to access to businesses along the highway, at least six months prior to operation. The Strategy shall be prepared in consultation with the relevant council, businesse and the New Tay Museum and to the stattaction of the Secretary. Note - The Applicant may incorporate the requirements of this condition into the Signage Policy for the SSI under condition D17.	Ы	NA	Vave 1.2 and 3 soft solis works do not involve the construction of an operational section of highway.	Ч	٩	NA	Noted
ä	D19 D19 Not 10 SIGN AND	<ul> <li>Upon determining the haudge route(s) for construction vehicles associated with the SSI, and prior to construction, an independent and qualified expert shall prepare a float Ollapidation</li> <li>Report The Report shall assess the current condition of the role and describe mechanisment to rectione any damage that may investigate as the current condition of the role and describe mechanisment to rection any damage that may investigate and transport related to the role and describe mechanisment to rection any damage that may investigate to be role of the role and describe mechanisment to rection any damage that may invent relaxing to the role and describe mechanisment to relating to the role and the role of the role and describe mechanisment to relating to the role of the Applicant.</li> <li>D19 Measures undertaken to restance or reinclate roads affected by the SSI shall be undertaken in a timely manner. In accordance with the reasonable requirements of the rolevant council. Note: Role of the Applicant.</li> <li>D19 Measures undertaken restance reinclate roads affected by the SSI shall be undertaken in a timely manner. In accordance with the reasonable requirements of the rolevant council. Note: Role of the Applicant.</li> <li>D19 Measures undertaken restance reinclate roads affected by the SSI shall be undertaken in a timely manner. In accordance with the reasonable requirements of the rolevant council. Note: Role of the Applicant.</li> <li>D19 Measures and the Applicant commercing adjustments and minor upgades to the existing road relation retakence methation of the Applicant.</li> <li>D19 Measures and Measures and Measures and minor upgades to the existing road relation relation of the Applicant.</li> <li>D19 Measures and AMEAN DAMASE-DENDER</li> </ul>	ч	АЛ		Ч	R	₹	Pacific Complete will procure road displation services to address the requirements of this CoA.

7/4/2016

5b & Comment	To be a addressed during detailed design. Each design Portion (i.e. A. B. C. and D) which covers Section 3 strough to scale of the transformer of the required to prepare an Urban Design and Landscape Plan in required to prepare an Urban Design and Landscape Plan in a recount covers section a transformer of the Cov. Plactic Complete will review detailed design deliverables to ensure compliance with the netwart CoA. Soft soils works will not require urban design or landscapting. The nature of the early enabling controlled more with the review detailed resign and set is the same as that for the and real works currently being underlanding and works (i.g. permanent bridge and landscapting, there early enabling controlled more of the order and elements of permanent works (g. permanent bridge and problem parsement. can durate action is and can are any elements any elements of permanent works (g. permanent bridge and problem parsement. and therate of a permanent bridge and problem and the advection of the order part that the development of the Urban Design and that the development of the Urban Design and the Design de Design (SDD) to Final Design.	To be a addressed during detailed design. Each design Portion (i.e. A. B. C. and D) wheth course Section 3 Strough to Sacrough	Pacific Complete has an approved Ancillary Facilities Management Plan (Appondix B) of the Pacific Complete DELIPD The AFRP was approved by the Pacific Complete and Representation on 10 February 2016. The purpose of the AFRP is the detailed how Pacific Complete will a the purpose of the AFRP is the detailed how Pacific Complete will be proported by the relief Complete in accordance with the requirements of Approvid SD Ancillary Facifices Management Plan (ER approved 10 February 2016).	Padic Complete will propare als specific Borrow Site Management Plans as required by the project. This requirement will apply to all borrow site management plans prepared by Padic Complete.
olls Wave 5a, 5b &	ž	ž	ž 	¥2
n 3 to Soft solls (Wave 1, 2, 3		۲ ۲	र  र	3.8, 10 NA
Section 3 to 11	sees trailed All	sees sees will not		
Comment	An Urban Design and Landscape Plan that addresses this condition is to be prepared for each relevant detailed design padage. Ware 1,2 and 3 soft sols vorks will not include landscaping.	An Urban Design and Landscape Plan that addresses this condition is to be prepared for ach rejevent detailed design pactage. Wave Jand's sch sols works will no include landscaping.	An Ancillary Facilities Management Plan that addresses the condition is to be prepared for each defailed design package	No borrow sites are currently proposed for Stage 1.
Soft soils (Wave 1, 2 &	r 8	¥N.	2	¥2
Section1 and Nave 1, 2 &	Γ	Γ	2	NA
Requirement	The Applicant shall prepare and implement an Urban Design and Landscape Plan prior to the commencement of permanent built works and/or landscaping, unless ofhrense agreed by the Sacreary, to present an integrated landscape principies outper landscape principies outper constraints and present an integrated landscape principies outper the reveal constraints or principies outper principies outper the reveal and organized principies outper landscape principies outper constraints with the melvant constraints and standards based on: (i) local monomental volues. (i) Interlay events with the melvant constraints based on: (i) Interlay events with the melvant constraints based on: (ii) them design principies and standards based on: (ii) them design context. (ii) them design context. (ii) them design context. (ii) them design context. (iii) the under and programment with the melvant constraints of the EIS Working Pager – Untranter and Varial Program design and minimenter. (ii) them design context. (ii) the under and programment and programments and the melvant constraints of the text of water possible). Detain on the standard design context of the EIS Working Pager – Untranter and Varial Properties and goodinese. and (ii) the under and programments of the standard gave of infigerous and endomic spaces where possible). Detain of spaces to be reglanded revealed the provide regional design and minimenters. (iii) the under and programments of the standard gaves of the SIS (iii) the total on and of the standard design context of the standard design context of the standard gaves of the context of the standard gaves with the objective of promotety and visual integrites the and visual integrites the program and visual integrites the standard standard for the standard gaves of the context of the standard gaves of the context of the standard gaves of the context of the standard gaves.	(e) a description of distubed areas (including borrow sites) and details of the strategies to progressively rehabilitate, ingenerate and/or revegetate has a reas, including clear objectives a domain set or mabilitation and comercises are should regeneration or revegetation nor conform. To the and denain relation and comercises are should regeneration or revegetation nor conform. To the reveal of the main resonance is the strategies and sense. The reveal denain of the relation and comercises are should be reference with SK 2202-1997 Control of the contains main denain research and denain research and denain and the remaints, and doms' relation and comercises are also and relation and comercises and denain and the remaints and sense. The resonance lifet of the vision and community resonance with the sense with the interaction and denains are also with the interaction and denains are reacted to short the vision and the remain the photon distribution and community of the vision and sense. The resonance and the vision and sense with the interaction and community of the resonance and the vision and sense with the interaction and community and the resonance and the vision and sense with the interaction and community and the relation and common and the resonance and the vision and sense and the vision and the resonance and the vision and the relation of the text. The relation and the relation and the relation of the text. The relation and the relation and the relation and the relation and the relati	T4S The properties the properties thangement Plan to detail the management of ancillary facilities seasorated with the SSI. The Plan shall be prepared in the EPA CU PI (Fibheria). DCE, and the orientation with the EPA CU PI (Fibheria). DCE, and the orientation with the EPA CU PI (Fibheria). DCE, and the orientation with the EPA CU PI (Fibheria). DCE, and the orientation with the EPA CU PI (Fibheria). DCE, and the orientation with the EPA CU PI (Fibheria). DCE, and the orientation more than the violation of the statistication of the anticipation of th	The Applicant shall prepare and implement a Borrow Sites Management Plan, Ib manage the construction, operation and rehabilitation of the borrow sites used to source construction material for the SSI, prior to the commencement of construction states borrow sites, but not a construction with the EPA. The and OPI (Televis) and to the commencement of construction states borrow sites, but not a construction with the EPA (3) debine (Construction/etarelon methods and a chirdles curran transmission with the EPA (3) management and mitigation measures to be used to minimise surface and groundwater impacts, Aborignal and non-Aborignal heritage, air quality, noise and vibration, but with state and mission measures to be used to minimise surface and groundwater impacts, Aborignal and non-Aborignal heritage, air quality, noise and vibration, but was visual impacts. (c) consultation with sensitive necessaries
ry Part	D20(a)-	D20 (e) (k)	D21	DV SITES
Category			ANCILLAR	BORR

Part	Requirement	Section1 and 2	Soft soils (Wave 1, 2 & 3)	Comment	Section 3 to 11	Soft soils (Wave 1, 2, 3 & 4)	Wave 5a, 5b & 5c	Comment
T 0 2 0 2 2 0 2 0 0 1 0 0 0 1 1 0 0 0 1 1 0 0 0 0	For to the commenonmail of construction of the SSL or as otherwise agreed by the Secretury, the Applicant shall employ the Secretury a unably qualified and conservemental Representative(s) that is independent where agreed by the Secretury, the Applicant shall employ the Emriconmental Representative(s) for the secreture of constructions can express agreed by the Secretury. The Emriconment Representative(s) shall (s) the the principal point of advice in relation to the emriconment Representative(s) shall. (s) the the principal point of advice in relation to the emriconment Representative(s) shall. (s) the principal point of advice in the emriconmental management Representative(s) shall. (s) the principal point of advice in relation to the emriconment Representative(s) shall. (s) the principal point of advice in the emriconmental management Representative(s) shall. (s) the principal point of advice in the emriconmental management Representative(s) shall. (s) the principal point of advice in the emriconmental management Representation is and advice the Applicant upon the achievemental principal point of advice and advice and annual the principal point of the emriconmental (s) the given the authority to approvaling the Applicant Service Management Rest. What constitutes a 'minor' amendment shall be built (s) the given the authority to approvaling the report and and an emricipal point what and the principal point while a sub- point to active and implicible approvaling the report and and an emricipant structures the authority to approval and advice advices and approval and advice advices and approval and advice advices and approval and advice the approval (s) be given the authority to approvaling the more activation secretures of the SSI where the resolution of the activate advices and and (t) the constitutes a authority to approval and advices advices and advice the advice the advice advices and advice advices and advice the advices and advice the advice advice advices and advice advices and advice advi	R	PA	Environmental Representatives may be appointed for the second second second second second second second second for the Secondary's approval will be provided prori to har commencement of construction of the relevant works.	Γ	ч	R	The Environmental Representative for the Woolgoolga to Bailina Pacific Highway Upgrade Project Murray Curtis of ERM.
D24	The Environmental Representative shall prepare and submit to the Secretary a monthly report on the Environmental Representative's actions and decision on matters specified in condition D23 for the preceding month. The reports shall be submitted for the duration of construction of the SSI, unless otherwise agreed by the Secretary.	AI	All		AII	All	AI	Noted.
D25 (a)-	The Applicant shall prepare and implement (following approval) a Construction Environmental Management Plan for the SSI, prior to the commencement of construction, or as otherwise agreed by the Societary. The Plan shall be propared in consultation with the EPA, OEFL OPI (Fahrines), NOV and DoE and outfine the SSI, prior to the commencement of construction, or as otherwise agreed by the Societary. The Phan shall be propared in consultation with the relevant the intervention and the propared in consultation with the intervention. The Phan shall be propared in consultation with the intervention and the advectore start and the propared in consultation with the intervention and and the propared in consultation with the intervention and and the propared in consultation with the intervention and a provident or the SSI. (advectore and intervention and agreement Plan the propared in consultation with the intervention and agreement agreements that the Application and propared in consultation with the advectore and intervention and agreement agreements that the Application and the SSI. Including provide SSI. Including provide and other environments that requires the intervention of the SSI. Including provide SSI. Including provide and other environments that requires the revention of the SSI. Including provide stores and induction provisions for revealing the stores and advectores and advectores and advectores and advectores and induction of the SSI. Including provide stores of approval.	Я	P	Separah Construction Environmental Management Plans are proposed for each component of Stage 1.	R	R	N	Pacific Complete (Delivery Parther of Roads and Marithme Services) has an approved Contertuction Environmental Management Plan (CEMP) covering Sections 3 b 11. The Pacific Completen CEMP was proved by DFC and 20 doublew 2015. Pacific Completen will happone Contractor EMP, EUWYStar and ESCPs to entra compliantee with the Contractor EMP, eloward INSTO Environmental Septicitions and Excernise Local Section 2015. A Septanta and approved CEMP and the requirements of this CoA. Septanta and approved CEMP documentation is in place for soft sol works (Wave 1 and Wave 2).
D25 (d)	(1) an onivormental instandyna is biendy he kay environmental performance isuana salociaed with the construction phase and details of how environmental performance would be managed and monitored to ment acceptable outcomental performance would be managed and monitored to ment acceptable outcomental performance would be managed and monitored to ment acceptable outcomental performance would be managed and monitored to ment acceptable outcomental performance would be managed and monitored to ment acceptable outcomental performance would be managed and monitored to ment acceptable outcomental performance would be managed and construction pate to the construction table out emission including any impacts. The pate acceptable outcomental performance would be managed to mental and management of construction states and tables durationated to management of construction metals and management and mana	¥I.	হ	Separate Construction Environmental Management Plans are proposed for each component of Sage 1.	হ	R.	R	Padits Complete (Dakivary Partner of Rauds and Maritime Services) Padits Complete (Dakivary Partner of Rauds and Maritime Services) (CEMP) towing Genetizations 31 to 11. The Padids Complete CBMP was converted to PEr 20. Scober 50. Tachtic Complete will approve Contractor EMP, EWNSs and ECPs to enter complement Approve Complete CEMP, relevant RMSPC environmental specifications and the requirements of this CAL. Separata and approved CEMP documentation is in place for and soft works (Wave 1, and Wave 2).

	endix crific c the	bendix byte	te will te will nnce s and stks.	t by t by ckage ckage a s ckage d Ps, s coA, s coA, ted
Comment	This requirement is addressed in the Parclic Complete CEMP (Appendid B3 Construction Noise and Vitarion Management Plant). The Parafic Complete Controlent Noise and Vitarion Management Plant, and approved by DPE on 3. December 2015. Parafic Complete will approve constract PLE. EMMS are and Vitarion Management Plant and December 2018. EMMS and ECPE to team complement with the PC CEMP, relevant RISPC environmental spectrations and the requirements of this CAA. Separate and approved CEMP documentation is in place for soft sol works (Wave 1; and Wave 2).	This requirement is addressed in the Paulic Complete CEMP (Appendix B1 Computes Traffic and Access Management Plan) which was proved by DF and Corr 32 obtained 2015. Facility Complete will approve Contractive EUPS, EVMISs and ESCPs to manue completences with the CECEMP relevant RMSPC environmental sector factors and the requirements of this CoA. Stoparate and approved CEMP documentation is in place for soft soil works (Wave 1 and Wave 2).	This requirement is a addressed in the Pacific Complete CEMP (Appendix 84 Construction Sol and Water Clashy Management Plan) (Appendix Nas approved Sol Pacific Complete with approve Contracter EMNs; and ESCP-bit or environmental approve Contracter EMNs; and ESCP-bit or environmental the PC CEMP, relevant RMS/PC environmental specificitations and the requirements of the are the approved CEMP documents associated with off solis works (Wave 1 and Wave 2) procured by RMS vit) Relevant to sections 6, 7, 8 and 9, not relevant to soft soli wave works.	This requirement is addressed in the Pacific Complete CEMP (Appendic BC Constitution Herifaga Managament Plan) which was approved by BC constitution Herifaga Managament Plan) which was approved by Aborginal and Non-Moniginal Herifaga and Education Taiming Pacific Aborginal and Non-Moniginal Herifaga and Education Taiming Pacific Aborginal and Non-Moniginal Herifaga and Education Taiming Pacific February 2015 (Solowing the completion of the consultation prainid in February 2015) Pacific Completion with the PC CEMP, Noivent EMMSs and ESCPs to ensure completion of the consultation prainid as EMMSs and ESCPs to ensure completion and the requirements of this CoA Reparate and approved CEMP documentation is in place for ont soil works (Wave 1 and Wave 2). The exception to this are the approved CEMP documents are with adt soils works (Wave 1 and Wave 2) procured by RMS.
Wave 5a, 5b & 5c	र	IF	R	₹
Soft solls (Wave 1, 2, 3 & 4)	īZ	AI	N	₹
Section 3 to 11	IV.	Ы	12	₹
Comment	It is proposed to include plans where they are inlevant to a particular an individual CEMP. For example, an Outspan Prevent habitat waterway management framework is not relevant to Stage 1 activation be included in any of the .Stage 1 CEMPs,	It is proposed to include plans where they are relevant to a particular provided to the the second control Outpart Provided CMUP. For example, and the second second to the second and not be included in any of the .Stage 1 CEMPs.	It is proposed to include plans where they are relevant to a parkular an individual CET for comprise, an O keryan Pitory Perch halak wateroay management framework is not relevant to Stage 1 and vould not be mound in any of the Stage 1 CEMPs.	It is proposed to include plans where they are relevant to a parbular an inclinical ICENP. For example, an Outpart Dynry Perch halart wateway managereent fermework is not relevant to Sage 1 act foruid not be mended in any of the Sage 1 CENP's.
Soft soils (Wave 1, 2 & 3)	₹	AII	ч	र
Section1 and 2	P	IV	Γ	र
Requirement	As part of the Conduction Environmental Management Plan for the SSI, the Applicant shall pregare and implement. As part of the Conduction Environmental Management Plan for the SSI, the Applicant shall be developed in consultable with the EA and shall be consistent with the guidelines construction noise and with the main the developed in consultable with the EA and shall be consistent with the guidelines construction noise and with the EA and shall be consistent with the EA (1) shall do the Construction of ensuitive exceedures and vieration gais applicable to the SSI stylution that noise (1) shall do the Construction science, in cluding at andicarly backets by taking the manual of this approval. (1) shall do the Construction science, including at andicarly backets by that we have pertendent to the solution maped to the approximation (1) shall do the Construction science, including at andicarly backets by that we have pertendent to the matches the construction recentures. Including at andicarly backets by that we have perturbed to the proses and/or vibration maped to the construction science. The construction science is the construction negative and vibration maped to the specification of the construction science. The construction negative and managed to the specification of the construction for the specification of the construction negative and management and the construction negative and vibration may and vibration markets. (1) shall do construction science, is and with the text of the monthing and structures including and vibration market (and vibration market) is and the specification of the approxal of works cubick and the period of the construction negative and the construction negative and management and approval of works cubick and and vibration market of construction negative and the construction active is and the construction negative and the construction negative and the construction negative and the construction active is and the construction negative and the construction of the approxal of t	<ol> <li>Construction Traffic and Access Management Plan to manage construction taffic and access impacts of the SSI. The Plan shall be developed in consultation with the relevant of construction Traffic and Access Management Plan to manage construction taffic and access impacts of the SSI. The Plan shall be developed in consultation with the relevant (i) details of violation. In which construction taffic volumes (including planky) volucies point large and access more and agrees points.</li> <li>(ii) details of violation relevant construction management and access including planky decidered vulues fund areas and agrees points.</li> <li>(iii) details of violation manack start construction starts ending parking of decidered vulues fund areas and ingrees points.</li> <li>(iii) details of violation manack start construction take and access producting planky of the access. Topeling parking areas and agrees points.</li> <li>(iii) details of violation manack start construction of the start of violation planky and access. Topeling parking areas and management (iii) details of interaction manack start and and access including termporary road work taffic control measures.</li> <li>(iii) details of management measures to mixer staffic mpacts, including termporary road work taffic control measures.</li> <li>(ii) details of management measures to mixer staffic mpacts, including termporary road work taffic control measures.</li> <li>(ii) details of management measures to mixer staffic mpacts, including at mixer and a access.</li> <li>(ii) details of management area propord response to any taffic construction or other modeling and other access.</li> <li>(ii) a response to the modeling at modeling at ancling violation and tage access.</li> <li>(ii) a response to the propord response to any taffic construction or other modeling at work work.</li> </ol>	In a Construction Sai and Water Charky Management Plan to manage writes and groundwater impacts during construction of the SSI. The Plan shall be developed in consultation with the EPA 2DP (Fraineres). NOW, Rouse Water (in relation to the Work Monagement Central and Four Councel and Four Councel (AVEEC) gradienes. (In Construction achieves and period bare to service counces, and the construction achieves and period water impacts during construction of the SSI. The Plan shall be developed in consultation with these set presents in the set of councel (AVEEC) gradienes or relevant set of councel (AVEEC) gradienes or relevant set of councel (AVEEC) gradienes or relevant set of construction achieves and the consultation with the AVEEC) gradienes or relevant set of construction achieves and the construction achieves and the councel (AVEEC) gradienes or relevant set of the construction achieves and the councel (AVEEC) gradienes or relevant set of construction achieves and second set of councel (AVEEC) gradienes or relevant set of construction achieves and second set of the set of councel (AVEEC) gradienes or relevant set of construction achieves and second set of the set of councel (AVEEC) gradienes or relevant set of construction achieves and second set of the set of councel (AVEEC) gradienes or relevant set of construction achieves and second set of the set of councel (AVEEC) gradienes or relevant set of construction achieves and second set of councel (AVEEC) gradienes or relevant set of construction achieves and second set of construction achieves and second set of the second set of councel (AVEEC) gradienes or relevant set of councel (AVEEC) gradienes or relevant set of construction achieves and second set of construction achieves and s	<ul> <li>(a) a Construction Hintinge Management Plan to defail how construction impact, on Aborginal hardingo will be minimized and managed. The Plan shall be developed in consultation with the EAA GH, the NSV Hering Council for non-Aborginal hardingo will be minimized and managed. The Plan shall be developed in consultation with the EAA GH, the NSV Hering Council for non-Aborginal hardingo.</li> <li>(a) a Construction that for the membrane shall be developed in charal heringo.</li> <li>(b) a nation to Aborginal herings.</li> <li>(c) a desite of Harthen inversigation and developed indication that Aborginal herings. Full-first 3 detailed membranes be production, monitoring, suitage. and constants with a first and membrane masures to be carried out in halon to Aborginal herings. Full-first 3 detailed membranes are and membraned and provider measures to the significance of (c) proceedures (or data) with the SS.</li> <li>(c) procedures (or data) with the soft of the data) of the SS.</li> <li>(c) procedures (or data) with the soft.</li> <li>(c) procedures (or data) with the soft of the data).</li> <li>(c) procedures (or data) with the SS.</li> <li>(d) on redator to monitoring and induction processition of the SS.</li> <li>(d) on redator to monitoring and construction with the SS.</li> <li>(e) data) or inhibiting the monitoring data and construction with the SS.</li> <li>(f) considers to robaginal with the monitoring genesistion of the soft of the data of the d</li></ul>
ory Part		D26 (b)	D 26 (c)	(c) 820
Category				

Category	Part Requirement S	Section1 and 2	(Wave 1, 2 & 3)	Comment	section 3 to 11	(Wave 1, 2, 3 & 4)	wave 34, 30 % 5c	Comment
		र	₹	It is proposed to include plans where they are relevant to a particular an artifordual CET or complete, an Outgran Pyrenth National Valency antalgarent framework is not relevant to Sage 1 and would not be included in any of the Sage 1 CEMPs.	হ	হ	2	This requirement is addressed in the Pacific Complete CEMP (Appendix This requirement is addressed in the Pacific Complete CEMP (Appendix Complete CEMP was approved by DPE and 20 Coben 2015) Facility Complete with the PCO Contract MS, RVMSC environment compliance with the PCO Contract MS, RVMSC environment add Wave 2).
2	<ul> <li>EXAMIN FORMATION CONTRACTORS</li> <li>EXAMIN FORMATION CONTRACTORS</li> <li>The Applicant shall prepare and implement a Compliance Tracking Program. It back compliance with the requirements of this approval, prior to the commencement of combuction and provide in approval. For the the commencement of combuction and approval of the Secretary and muchanism part following.</li> <li>The Applicant shall prepare and implement a Compliance Tracking Program. It back compliance with the requirements of the approval of the Secretary and muchanism part of the technology for the commencement of construction and approval prior to the commencement of operation of the SS (including prior to each stage. Where were are being stage.)</li> <li>Distribution of the Secretary prior to the commencement of the commencement of operation of the SS (including prior to each stage. Where were are being stage.)</li> <li>Distribution of priorical for provision of the SS (including prior to each stage. Where the state compliance states of the SS (including prior to each stage. Where the state compliance states of the SS (including prior to each stage. Where the state compliance states of the SS (including prior to each stage. Where the state compliance states of the SS (including prior to each stage. Where the state compliance states of the SS (including prior to each stage. Where the state compliance states of the state of the state compliance states of the state occurs and state state states and the state occurs and state state state state occurs and state state states and the state compliance state state states and the state occurs and state state states and the state occurs and states states and the state occurs and states state state states and the state occurs and states state states and the state occurs and states state s</li></ul>	Γ	Ч	Compliance tracking is proposed at project-wide, individual stage, and individual construction package levels.	AI	τ	Ţ	Roads and Maritime Services / Pacific Complete submitted its Report – Wonghone Tracity Program and Pro-Completion Complexeo Report – Wonghonghi to Billinn – Section 3 in 11 (January 2016) for Pacific State (PPC Section 3 in 11 (January 2016) for Program was oblinized on 16 March 2016. The Department housed that Program was oblinized on 16 March 2016. The Department housed that accordances with D27(c). The Department had no comments regarding this matter.
	<ul> <li>An observed with the contraction of the Still against noise performance performan</li></ul>	2	¥	Vlave 1.2 and 3 soft soil works do not involve the completion of an operational section of highway.	м	¥	¥	The requirements of this CoA milate to the operational phase of the project. Soft solt works do not revolve the completion of an operational section of highway.
		л	NA	Viave 1. 2 and 3 soft soli works do not involve the completion of an operational section of highway	AI,	M	NA	Noted. Soft soil works do not involve the completion of an operational section of highway. Wave Sa, Sb, and Sc do not involve the completion of an operational section of highway.
	<ul> <li>In the Maximum International and the standard of the secretary, the Applicant shall commission and pay the full cost of an independent Environmental Audit the SSI. This audit shall</li> <li>Weith the SSI. This substrate and shall be second and independent team of expents whose appointment has been ondorsed by the Stearebry.</li> <li>Weith the stease the environmental performance of the SSI and assess whether it is complying with the requirements in this approval. and any other relevant approvals.</li> <li>Weith the rest of any approval of the SSI. andor any stategy, plan or program required up the SSI. andor any stategy, plan or program required up the secretary.</li> <li>Reasonment, plan or regroups to any approval to andor the SSI. andor any stategy, plan or program required under these approvals.</li> <li>Reasonment and any other fuelds a stategy, plan or program required under the SSI. andor any stategy, plan or program required under the subscience.</li> </ul>	Y.	W	Wave 1.2 and 3 soft sold works do not involve the completion of an operational section of highway	ν	¥.	¥N.	Noted. Set faul works do not involve the completion of an operational section of highway.
	D31 Within 60 days of commissioning this sudit, or as obtenties agreed by the Secretary, the Applicant shall submit a copy of the audit report to the Secretary and relevant public authorities, loggether with the response to any recommendations contained in the audit report.	AII	NA	Wave 1, 2 and 3 soft soil works do not involve the completion of an operational section of highway	Ail	NA	NA	Noted. Soft soil works do not involve the completion of an operational section of highway.

# Appendix B Application of Commonwealth Conditions of Approval

Wool	Woolgoolga to Ballina EPBC 2012/6394					Note only includes wave	MSW	Transport Roads & Maritime
		Reproc	duced from W2	Reproduced from W2B Staging Report, March 2015.		1,2,384	OVERNMENT	Services
Category	Requirement	Section1 and Soft soils (Wave 1, 2 & 3)	ti, 2 &	Stage 1 Comment	Section 3 to 11	Soft soils (Wave 1, 2, 3 & 4)	Wave 5a, 5b & 5c	Stage Z Comment
STAGING O	<b>H</b> -	AII AII			АІ	лі	М	This document is a revised Staging Report for this Pacific Complete activities
AVGIDANCE	AND MITIGATION OF IMMACIS In order to minimum simplex by the approval holder must are the approval holder must by there to the element or must outment in the NSW approval condition B3 by there is the element or averyarian accordance with NSW approval condition B3 c) there is the element of the adversariant measures in accordance with NSW approval condition B3 c) to begin and construct any additional anchiny facilities in accordance with the requirements of NSW approval condition B3 c) begins and construct any additional anchiny facilities in accordance with the requirements of NSW approval condition B13 to element that no mpacts occur to threatened species and communities, and migratory species or their habitit.	IV			лі	VI.	АІ	A RMS/Pacific Complete will ensure compliance (measuing, monitoring, reviewing, reporting) with the approved clasming limits specified by the NSW Project Approval during the detailed phase and construction phase of the project. These inclusions and the to minimume the most to clasming unput that and the clasming species. These inclusions are approved of any experiment of clasming limits will be clasming species of EEs where reasonable and lassible Clasming limits will be clasming species of EEs where reasonable and lassible clasming limits will be clasming species of EEs where reasonable and lassible clasming limits will be clasming species of EEs where reasonable and lassible clasming limits will be clasming species of EEs where reasonable and lassible and the approved Charle MSNC environmental species limits to ensure compliance with this requirement. Separate and approved CEMP documental species limits or environment and and and Waws (2). This requirement is advisered in the advisor compliance with this requirement. Separate and ESCMS is neuron than Paralic Completes with the structurent scale and Waws (2). This requirement is advisered in Paralic Completes with constructions call and Waws (2). This requirement is advisered in Paralic Completes and Waws 2). This requirement is advisered in Paralic Completes with this constructions call and Waws (2). This requirement is advisered in Paralic Completes and Waws 2). This requires and first event that where the adviser and the second classifier of the ArMP was approved by the ER on 10 featurary 2016. The purpose of the ArMP is to detailed how Pacific Crampter with this requirement approved table and the adviser of the project. Site specific and and year of the purpose of the ArMP is a proster of the adviser of and Way is project. Site specific and and year of the purpose of the ArMP is an and the project. Site specific and and adviser of the purpose of the ArMP is an prostered project. The project is the requirements of the ArMI site of t
	<sup>3</sup> In order to minimuse impacts to the Oxleyan Prypriny Perch, the approval holder must undertake the action in accordance with NSW approvel conditions B7, B8, B9, B13, B40, B41 and B42.	NA			6, 7, 8, 9	¥2	5b, 5c	Requirements relating to the detailed design phase - to be addressed during detailed design Detailed design folls are required to detail how the design complies with the redevant mentomental redespin criterian Pacific Complete will review to alreated design to reprote to sume compliance with redespin retirements relating to the construction phase - These requirements are addressed in the Pacific Complete Kull Pervice Montaclor EMPs. FWMSS and ESUs addressed must provide CEMP (Approve Commactor EMPs, PWMSS and ESUs and apply RMSFIC environmental specifications to ensure compliance with relevant CoAs. Separate and approved CEMP documentation is in place, for adit soft works (Wave 1 and Wave 2). Wave 5a, 5b and 5c early enabling works will only have temporary crossings.
	4 In order to minimise impacts to the Giant Barred Frog, the approval holder must undertake the action in accordance with the Inequirements of NSW approval condition B39	All NA			NA	NA	NA	This is not applicable to sections 3-11. Habitat for the Grant Barred Frog only occurs in sections 1 and 2 $$
	In order to ensure the long-term vability of the Balima Koala population, the approval holder must engage a subbly qualified expert to understee population vability modeling of the Balima Koala population over a time period of no less them 50 years, taking into account the impacts resulting from the Luggrade in Section 10. This modeling should consider the current proposed route and any proposed avoidance or milgation measures as appropriate.	NA		The Wave 2 project area is close to the eastern boundary of the Ballina Koala population however this condition does not directly apply to the Soft soil Wave 2 works.	10, 11	2	NA	RMS engaged Neche Environment and Hierlage (Dr Rod Kavanagh) to complete the PVA and Be Blank scola Plan. The Ballank Scola Plan was schmitted to DeE for approval in February 2016. The Starker 2 project area is close to the eastern boundary of the Ballina Koala population, however this condition does not directly apply to the soft scill wave 2 works.
	6 The approval holder must have the modelling required by Condition 5 peer reviewed by a second suitably qualified expert.	NA		The Wave 2 project area is close to the asstern boundary of the Ballina Koala population however this condition does not directly apply to the Soft soil Wave 2 works	10, 11	2	NA	Dr Jonathan Rhodes is the Independent Reviewer.
	In addition to the Koala Management Plan(s) required by NSW approval conditions 0B and D9, to ensure that an unacceptible impact will not occur to the Ballina Koala population. The approval infoldor must submit for the Minister's approval. Is Ballina Koala Plan on loss shan 3 months provide commencement of Section 10. The Minister will not y approve the plan and the commencement of Section 10 of the action. If the impacts to the Baltima Koala population are domenstrated to be acceptiable within the Ballina Koala Plan. The Ballina Koala Panasi mucho. Plan. The Ballina Koala Population are domenstrated to be acceptiable within the Ballina Koala Plan. The Ballina Koala Population are domenstrated to be acceptiable within the Ballina Koala Plan. The Ballina Koala Population are domenstrated to be acceptiable within the Ballina Koala plan. The Ballina Koala Population are domenstrated to be acceptiable within the Ballina Koala plan. The Ballina Koala Population are domenstrated to be acceptiable with the Ballina Koala plan. The Ballina Koala population of the acceuter of relevant environmental scoral are commence byourd the acceuter for and the pradiation. The approval forlewant environmental scoral are commence consideration, and byourd the comes of relevant environmental scoral are commence expressions on a relevant environmental scoral byourd the modeling required in Condino.	¥ V	0	The Ware 2 project area is close to the eastern boundary of the Balina Kolal population however this contition does not directly apply toths Soft soll Wave 2 works.	10, 11	N	۲. ۲	RMS engaged Niche Environment and Heritage (Dr Rod Kavanaph) to complete the PVA and Baltha Koala Pfan. The Balma Koala Plan was submitted to DieE for approval in retrourary 2016. The Wave 2 project areas is called to the and non-thoracian the Baltha Koala Management Plan. The Wave 2 project areas is called to the and non-two 2 works. Koala Management Plan. (Update 2) for sections 36 for excitant like an evolution. Software Monta Management Plan. (Update 2) for Excitors 36 for approval on 25 rehunary 2016. Koala Management Plan. (Update 2) for Excitors 36 for approval 27 for Koala Management Plan. (Update 2) for Iluka population. Toroakwater (north of Lang Hal) and Conglardie (Section 10) will be submitted are approved longour Contractor EMPs. TWISs and ESCFs to ensure compliance with the relevant for approved longour Contractor EMPs. The Management Plan.

Category	Part	Requirement	Section1 and 0	Soft soils (Wave 1, 2 & 3)	Comment	Section 3 to 11	Soft soils (Wave 1, 2, 3 & 4)	Wave 5a, 5b & 5c	Comment
	ω	The approval holder must develop a Koala Management Plan(s) pursuant to the requirements of NSW approval conditions D8 and D8 for each relevant stagets. The Koala Management Plan must minimise impacts to the Koala to the satisfaction of the Minister and must be submitted to the Minister for approval. The relevant stage(s) cannot commence until the Koala Management Plan for that stage is approved Plan(s) must be implemented.	IF	NA	Only applicable to condition D8	AI	IJ	¥.	Kosta Management Plan (update 2) for Sections 3.8 (excluding Iluka population). Section 11 and More Oct. MrW (pudate 2) for Sections 3.8 (excluding Iluka population). Section 11 and 2016. Cod. MrW (pudate 2) for linka population. Broakwate (porth of Lang Hill) and Cologizate (Section 10) full he submitted for approval foromy reserved to DE approval for the Ballina Koala Plan. The Ballina Koal Plan is expected to be submitted for approval for the Ballina Koala Plan. The Ballina Koal Plan is expected to be submitted for approval for the Ballina Koala Plan. The Ballina Koal Plan is expected to be submitted for approval for approval in February 2016. Pacific Complete will approve Contractor EMPs, EWMSs and ESCPs and apply RMSPC environmental specifications to ensue compliance with the requirements of the relevant Koala Management Plans.
	თ	The Koala Management Plan, relevant to Section 10, must be consistent with the approved Ballina Koala Plan and can only be submitted to the Minister for approval after the Ballina Koala Plan has been approved by the Minister.	AN	NA		10	NA	NA	Noted Koala Management Plan (update 3) for livia population, Broadwater (north of Lang Hill) and Codgardia (Section 10) will be submitted for approval foliowing receipt of DEE approval for the Ballina Koala Plan to ensure compliance with this condition of approval.
	10	Should further offsets be required in accordance with NSW approval condition 09(d) or be proposed as part of the Ballina Koala Plan, these must be in accordance with the EPBC Offsets Policy.	NA	NA	(NB: NSW CoA "D9(d)" does not exist – incorrect reference). [Correct reference is D9 ]]	6, 7, 10	NA	NA	Noted. To be addresse during detailed design and construction phases of the project (NB: NSW CoA' 'D9(d)f' does not oxist - momont reference). [Commit reference is D9 j]
	7	The approval holder must develop a Threatened Mammal Management Plan(s) pursuant to the requirements of NSW approval condition 10 for each stage musching on the Single and al could and the Long-need Potrono. The threatened Mammal Management Plan must minimise instable to the Single Ala Could and Long-need Potrono to the satisfaction of the Ministic and must to submitted to the Ministic rior approval. The relevant stage(s) cannot commonic with the Threatened Mammal Management Plan for that stage is approved by the Ministic. The approved Plan(s) must be implemented.	₹	ž	Spotted Tailed Qualis relevant to sections 1 and 2 and Wave 3. Long Naped Potsoon is not relevant to any component of Staget (refet to Table 4-1)	6, 7, 10	¥	5 5	The following Threatened Species Management Pans have been prepared and approved. Threatened The Amagement Pan Judice T Carchen 1, Steam 2, Maren 2, and 2, Dich Approval 20, Dich Pan
	12	The approval holder must develop a Threatened Flora Management Plan(s) pursuant to the requi rements of NSW approval condition DB for each stage impacting on EPBC Actitisted flora species. The Threatened Flora Management Plan must minnise impacts to DB for each stage impacting on EPBC Actitisted flora species. The Threatened Flora Management Plan must minnise impacts to DB for each stage impacting on EPBC Actitisted flora species. The Threatened Flora Management Plan must minnise EPBC Actitisted flora species to the satisfaction of the Minister and be submitted to the Minister for approved The relevant stage(s) cannot continence until the Threatened Flora Management Plan for that stage is approved by the Minister. The approved Plan(s) must be implemented.	AI	AI	Refer to Table 4.1 for relevance of particular flora species.	AII	AI	ş	Treatened Flora Management Plan Update 1 (Section 1, Section 2, Waves 1, 2 and 3) DPE Approved 30 April 2015, DeE Approval 5 May 2015, Threatened Flora Management Plan Update 2 (Sections 3 to 11) DPE Approval 21 August 2015, DeE Approval 4 September 2015.
	<del>,</del>	The approval holder must develop a Connectivity Strategy(ies) pursuant to the requirements of NSW approval conditions D2 for each stage impacting on Threatened species and ecological communities. The Connectivity Strategy must minimise impacts to The Ammendation and the intervent space and ecological communities to the statistication of the Minister and must be submitted to the Minister for approval Commencement of the invest space and ecological communities. The Ammendation and must be submitted to the Minister for approval commencement of the invest stage is approved by the Minister. The Approved strategy(res) must be implemented	ī	ž	A project-wide connectivity strategy will be provided and will be updated as required.	ন	ž	¥ Z	To be addressed during detailed design Teach design Portion (i.e. A, B, C and D which cover Sections 51 or 11) will be required to prepare a Connectivity Statesy: in accordance with the equatisments of this CaA. Pacific Complete will review detailed design deliverations with the compliance with the relevant CoAs. The nature of the early enabling construction activities associated with Wave 53, 50 and 5c is the same as that for a storal osi out works currently program durations. Which correctly and with DB relevant CoAs. The nature of the early enabling construction works will not prevent connectivity storators with DB FT shores and if 5 device) proving mode and the other activity design and with DB FT shores and EPA on connectivity design and how the early enabling construction works will be built. Bridge and current forcing will be with than exclusions (protection durations works will be built. Bridge and current locations will remain open and where eraily enabling construction works will be built. Bridge and current locations will remain open and where required temporary works will be noted that the devictorient of the Connectivity Strategies for Portions A. B. C and D are will be noted that the devictorient frame. The strugt of grifter poles much land actamocid with the trogression frem Substantion Boardied Design (TSD) to Final Detailed Design. The Connectivity structures as part of the Stage 2 works. underess otherwise agreed by DF&E/D/GE.

Image: intermediate i	Category	/ Part Requirement	Section1 and 2	Soft soils (Wave 1, 2 & 3)	Comment	Section 3 to 11	Soft soils (Wave 1, 2, 3 & 4)	Wave 5a, 5b & 5c	Comment
		In order to mrimite impacts to threatened species and communities, and migratory species, the approval holder must develop a implement all Frameworks. Strategies, Plans or Programs, in accordance with the requirements of the following NSW approval and the migratory species and communities, and migratory species, the approval holder must develop a complement. Strategies regulated by NSW approval condition D1 a The Mingatory Strategy regulated by NSW approval condition D1 a D1 the Construction Flora and Flans evaluated by NSW approval condition D2 and the requirements of NSW approval condition D2 and the construction Flora and Flans evaluated previated by NSW approval condition D26(s) D1 the Construction Flora and Flans evaluated parted by NSW approval condition D26(s) D1 the Borrow Strategies Management Plan required by NSW approval condition D26(s) D1 the Walanse Construction Plans and Flans Management Plan required by NSW approval condition D26(s) D1 the Walanse Construction Plans and Flans Management Plan required by NSW approval condition D26(s) D1 the Walanse Management Plan required by NSW approval condition D26(s) D1 the Walanse Management Plan required by NSW approval condition D26(s) D1 the Walanse Management Plan required by NSW approval condition D26(s) D1 the Walanse Management Plan required by NSW approval condition D26(s) D1 the Ancillary Facilities Management Plan required by NSW approval condition D21.		R.		হ	হ	হ	An NSW Cox 01: Magatine Framewick approval to DEC on a May 2015. B) NSW Coxe D2 and B12. To be addressed along dealined design. Each design Portion (e. A. B. C and D witch cover Sciences 10: 11) will be required by peapre a Correctivity Strategy. In accordinate with the requirements of the Coxe. Faulter Min Interveri datalial design divergent frames complanate with CoxA requirements. C) of the required Threatened Species Management Planary the following are in the processe of garring approval. Billink Volab Management Planary submediation. Rouwaster (control 10: apprint) approval provide for to DicE for approval in February 2016. Koala Management Planary (brade: 3) for like addressed in the Processe of the planary match and proveal following are in the processe of ERM Aggreenext Blank Volab (and Management Planary addressed in the Pracesse of ERM Aggreenext Blank Notabine (ERM Aggreenext Planary (brade: 3) for like addressed in the Pracess of ERM Aggreenext Blank Notabine Sland (brade: 3) for like addressed in the Pacific Complete KM Management Plana (D) This requirement is Management Plana y which was approved by DFE on 23 October 2015. E) This requirement is addressed in the Pacific Complete KM Aggreenext Planar (D) This requirement is addressed in the Pacific Complete KM Insue. 21 Adgrees 2015. E) This requirement is addressed in the Pacific Complete KM Insue. 21 Adgrees 2015. F) The Adam Angust 2015 and October 2015 gard to construction Advise 2 control Flana and Chana was approved by Provise Camplete KM Insue. 21 Adgrees 2015 and Camplete Science 2015 F) Pacific Complete will present element to construction complete and obtain the addressed in the Pacific Complete will assess, constrict gain approval and management faith to gain of desile Management Plan (Appress Camplete Science 2015) was approved by DFE on 24 Acrillary 12 calities for administration construction contract Camplete and approved propered Pracetic Complete in accordance with the requirement plane to the Mary 12 Pacific Complete in accordance
0         0	DEFSETTIN	NG OF RESIDUAL INFACTS The approval holder must prepare and implement a Biodversity Offset Strategy and Biodversity Offset Package that compensat for any residual significant immactive antheratered species and communities. The Biodversity Offset Strategy and Biodversity Off Package must meet the requirements of the EPBC Offsets Policy and must be submitted to the Minister for approval.		AI		AI	AII	AI	Biodversity Offset Strategy approved by DPE 6 January 2016 and DeE 7 January 2016. A Biodversity Offset Package will be prepared (Program currently being prepared).
1         2		-	AI	AI	A project wide Biodiversity Offset Package will be prepared and updated as required.	AI	MI	AII	
The Backersby Order Package regreed by Condens 5 must be spaceed by the Mander and the Mander and the Mander and the Spaceed by the Mander and the M			AI	AI	A project wide Blodversity Offset Package will be pepared and updated as required Note reference (presumably in error) to "strategy" here.	AI	AII	All	Biodiversity Offset Strategy approval by DPE 6 January 2016 and DE 7 January 2016. A Biodiversity Offset Rackage will be prepared (Program current) being prepared). Note - Note that this TBOSR exclude a Part 10. An updated Threatened Biodiversity Offset Status Report was submitted for approval in mid June 2016 (which addresses the Koala Population Coolgarde & Biodiovater as well as Littoral Rainforest.
An vertice         And work		18	AI	AI	A project wide Biodiversity Offset Package will be prepared and updated as required.	AII	AI	AI	A Blodweisly. Offset Package will be prepared noting is is required to be submitted within 24 months of 7 January 2016.
2b       Min 14 days that the commencent of the action, the approal holder must adviae the Department in witing of the action date of the action. The approal holder must adviae the Department in witing of the action if approal       Min       <		19		Ы		PI	АІ	AI	Neted
21       Within free months of every 12 month anriversary of the continue of the approval including implementation of any Frameworks.       All       All       All       All       All         21       Use subjects addressing compliance with each of the conditions of the approval including implementation of any Frameworks.       All				Ы		Ы	AI	AII	Proponent submitted its Staging Report (for Stage 1 - Section 1 , Section 2 and Soft Soils Waves 1 and 2) on 24 March 2015 which included indicative start dates for works. Proponent submitted an updated Staging Report for Stage 2 to the Department on 5 April 2016.
2       Upon the direction of the Minister, the approval holder must ensure that an independent auditor must be approved by the Minister. The independent auditor must be approved by the Minister. The independent auditor must be approved by the Minister and the audit report must address the criteria to the low statistic content of the audit. The independent auditor must be approved by the Minister. The independent auditor must be approved by the Minister and the audit report must address the criteria to the low statistic content of the audit. The independent auditor must be approved by the Minister and the audit report must address the criteria to the low statistic content of the audit. The independent auditor must be approved by the Minister and the audit report must address the criteria to the low statistic content of the audit. The independent auditor must be approved by the Minister and the audit report must address the criteria to the low statistic content and and any constituence. All is not 11. 22. 43. 51. 51. and 77. The approval holder must submit to the Department for the audit report of Package required by Constitions 7. 81. 01. 12. 21. 45. 15. and 77. The approval holder must submit to the Department for the approval holder must submit to the Department for the approval holder must submit to the Department for the approval holder must submit to tholder must submit to the approval holder must submit to the approv				АІ	A project widersport will beprepared andupdated as required.	Ā	AI	Ali	Noted. The stage 2 start date is 1 April 2016.
If the approval holder wishes to carry out any activity otherwise than in accordance with Frameworks. Strategies, Plans, Report of Pediagere equired by Constitions 7, 8, 10, 11, 12, 14, 15, 16 and 17, the approval holder must submit to the Department for the Pediagere equired by Constitions 7, 8, 10, 11, 12, 14, 15, 16 and 17, the approval holder must submit to the Department for the Pediagere equired by Constitions 7, 8, 10, 11, 12, 14, 15, 16 and 17, the approval holder must submit to the Department for the 23 commence until the Minister has approved hereined in a equivalent or improved environmental outcome. If the Minister approves the revised plan or agreement would result in an equivalent or improved environmental outcome. If the Minister approved.	SNOISIO	22		Ы		A	AI	AI	Noted
		23		AI		AI	AII	AI	Poed

Category		Part	Section1 and 0	Soft soils (Wave 1, 2 & 3)	Comment	Section 3 to 11	Soft soils Wave 5a, 5b & (Wave 1, 2, 3 & 4)	Wave 5a, 5b & 5c	Comment
	5	If the Minister believes that it is necessary or converient for the better protection of listed threatened species or communities to do so, the Minister may request that the approval holder submit for the Minister approval, or make revieworks approved protection of the conditionant of the reviework (approximate) approved to the revieworks approximate revieworks, Strategies, Flans, Package, Strategies, Tans, Package, or Porgam specification the conditionant and submit the reviework (approved or revised approved frameworks, Strategies, Plans, Package, or Program must be implemented. Unless the Minister has approved the revised approved frameworks, Strategies, Plans, Package, or Program must be implemented. Unless the Minister has approved has revised the conditions.	AI	AII		AI	Ы	AI	Noted
	2	25 If, at any lime after 5 years from the date of this approval, the approval holder has not substantially commenced the action, then the approval holder must not substantially commence the action without the written agreement of the Minister.	AII	AI		AI	AI	All	Noted. Action has been substantially commenced.
PUBLIC	ATION 6	PUBLICATION OF PLANS						and a second second	
n <del>di</del> ki		The approval holder must maintain accurate records substantiating all activities associated with or relevant to the conditions of approval. Including measures takin to mitchine with the second substantiating all activities associated with or relevant to the conditions of approval. The available measures takin to mitchine the Department. Such records may be subject to audit by the Department or an independent. 36 make them available on request takin the Department. Such records may be subject to audit by the Department or an independent 38 make them available on request takin the Department. Such records may be subject to audit by the Department or an independent 39 auditor in accordance with section 458 of the EPBC Act, or used to verify compliance with the conditions of approval. Summarises of audits will be posted on the Department's website. The results of audits may also be publicised though the general media.	Я	Ы		АІ	ы	All	Noted
	~	Unters otherwise agreed to in writing by the Minister, the approval holder must publish all Frameworks. Strategree, Plans, or Package referred to in these conditions of approval on their website. Each management plan must be published on the website within 1 month of being approved.	AI	AI		AII	AI	AI	Noted