



Transport
Roads & Maritime
Services

COMPLIANCE TRACKING PROGRAM

Foxground and Berry bypass

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Glossary / Abbreviations

Ancillary facility	Defined by the Project Approval as a 'temporary facility for construction, including for example an office and amenities compound, construction compound, batch plant (concrete or bitumen), materials storage compound, maintenance workshop or testing laboratory.
CCS	Community Communication Strategy
CEMP	Construction Environmental Management Plan
CAQMP	Construction Air Quality Management Sub-plan
CFFMP	Construction Flora and Fauna Management Sub-plan
CHMP	Construction Heritage Management Sub-plan
CNVMP	Construction Noise and Vibration Management Sub-plan
CSWQMP	Construction Soil and Water Quality Management Sub-plan
CTMP	Construction Traffic Management Sub-plan
CWEMP	Construction Waste and Energy Management Sub-plan
CoA	Condition of Approval
CTP	Compliance Tracking Program
Director General	Director General of the NSW Department of Planning and Infrastructure (or delegate). Now the Secretary of the Department of Planning & Environment.
DP&E	Department of Planning and Environment
DP&I	Department of Planning and Infrastructure
EA	Environmental Assessment
EPA	NSW Environment Protection Authority
EMS	Environmental Management System
Environmental incident	An unexpected event that has, or has the potential to, cause harm to the environment and requires some action to minimise the impact or restore the environment.
Environmental Representative (ER)	A suitably qualified and experienced person independent of project design and construction personnel employed for the duration of construction. The principal point of advice in relation to all questions and complaints concerning environmental performance.
EP&A Act	<i>Environmental Planning and Assessment Act 1979</i>
EPL	Environment Protection Licence
FBB	Foxground and Berry Bypass
Minister, the	Minister for Planning and Environment (formerly Minister for Planning and Infrastructure)
NA	Not applicable
Non-compliance	Failure to comply with the requirements of the Project approval or

	any applicable license, permit or legal requirements.
Non-conformance	Failure to conform to the requirements of Project system documentation including this CEMP or supporting documentation.
NOW	NSW Office of Water
OEH	Office of Environment and Heritage
Project, the	Stage 2 of the Foxground and Berry Bypass (FBB) Project where the Princes Highway Upgrade -, Foxground and Berry Bypass Project is defined as “ <i>The construction and operation of approximately 11.6 kilometres of two lane divided carriageways (with the exception of the cutting through Toolijooa Ridge which comprises two lanes plus a climbing lane in each direction), with provisions for the possible future widening to three lanes within the road corridor (if required in the future).</i> ”
Project Approval, the	The written approval under <i>Section 75J of the Environmental Planning & Assessment Act 1979</i> from the Minister for Planning and Infrastructure for the project dated 22 July 2013
RMS	Roads and Maritime Services
Secretary	Secretary of the Department of Planning and Environment
SoC	Statement of Commitments
UDLP	Urban Design and Landscape Plan

1 Introduction

1.1 Background

The Roads and Maritime Services (RMS) is upgrading the Princes Highway to provide a four lane divided highway between Waterfall and Jervis Bay Road, Falls Creek.

In September 2010 the Foxground and Berry bypass project (the Project) was declared by the Minister for Planning to be a project to which Part 3A of the *Environmental Planning and Assessment Act 1979* applies. An Environmental Assessment was prepared and placed on public exhibition in November – December 2012. The Submissions Report, which included changes to the proposal made following consideration of submissions made during the exhibition period, was submitted to the Minister for Planning and Infrastructure in May 2013. Approval of the FBB Project was granted by the Minister on 22 July 2013.

The Project comprises an upgrade of 11.6 kilometres of the Princes Highway between Toolijooa Road north of Foxground and Schofields Lane south of Berry to achieve a four lane divided road (two lanes in each direction) with median separation. It includes bypasses of the towns of Foxground and Berry. The Project will be delivered under a design and construct (D&C) contract. An overview of the Project is provided in Chapter 2 of the Construction Environmental Management Plan (CEMP).

The Project is comprised of two stages:

- Stage 1 - Toolijooa Road Fill Works (TRFW); and
- Stage 2 - remainder of the FBB Project works.

Stage 1 (TRFW) was constructed under a CEMP approved by the Director General of the DP&I on 31 January 2014 as a separate package of works from Stage 2 and is scheduled to be completed in June 2014. Stage 1 involved filling works to support the realignment of the Princes Highway at the extreme eastern end of the Project, between Mount Pleasant and Toolijooa Road. Stage 2 will involve the remainder of the Project's construction works, including building on the engineered fill established during Stage 1, to bring the new road platform to its ultimate design height.

This Compliance tracking program (CTP) addresses Stage 2 of the Project.

1.2 Purpose of this CTP

This CTP has been prepared to address the requirements of Condition of Approval (CoA) B29 for the Project. The CTP describes the approach to be adopted to track compliance with the requirements of the Project Approval (Appendix A) and the Statement of Commitments (SoC) (Appendix B) during the design, construction and operation of the Project.

Fulton Hogan and RMS are jointly responsible for compliance with the CoA and SoC. However, Fulton Hogan will be responsible for maintaining the CTP for the Project and for the preparation of the periodic compliance tracking reports.

1.3 Environmental management system overview

The CEMP is the primary system to manage and control the environmental aspects of the Project during pre-construction and construction. It provides the overall framework for the system and procedures to ensure environmental impacts are minimised and legislative and other requirements are fulfilled.

The strategies defined in the CEMP have been developed with consideration of the Project approval requirement, safeguards and mitigation measures presented in the environmental

assessment and approval documents. The CEMP establishes the system for implementation, monitoring and continuous improvement to minimise impacts from the Project on the environment.

This CTP is separate to the CEMP, but is part of the suite of environmental management documents prepared for the Project.

1.1 Project Approval Documentation

Documentation relevant to the CTP includes:

- *Princes Highway upgrade – Foxground and Berry bypass – Environmental assessment* (AECOM, November 2012)
- *Princes Highway upgrade – Foxground and Berry bypass – Environmental assessment submissions report* (AECOM, May 2013)
- The Project Approval (MP10_0240) (approved by the Minister for Planning and Infrastructure on 22 July 2013).

2 Compliance Tracking Program requirements

The requirements of CoA B29 are listed in Table 1 below, together with the cross-reference to where the requirement is addressed in this CTP.

Table 1: CoA B29 Compliance Tracking

Requirement	Reference
The Proponent shall develop and implement a Compliance Tracking Program to track compliance with the requirements of this approval. The Program shall be submitted to the Director General for approval prior to the commencement of construction and relate to both the construction and operational phases of the project, and include, but not necessarily be limited to:	This CTP
a) Provisions for the notification of the Director General of the commencement of works prior to the commencement of construction and prior to the commencement of operation of the project (including prior to each stage, where works are being staged).	Section 2.1
b) Provisions for periodic review of project compliance with the requirements of this approval and the documents listed under condition A1, including the Statement of Commitments.	Section 2.2
c) Provisions for periodic reporting of compliance status against the requirements of this approval and the documents listed under condition A1, including the Statement of Commitments, to the Director General including at least one month prior to the commencement of construction and operation of the project and at other intervals during the construction and operation, as identified in the Program.	Section 2.3
d) A program for independent environmental auditing in accordance with <i>ISO 19011:2003 - Guidelines for Quality and/ or Environmental Management Systems Auditing</i> .	Section 2.4
e) Mechanisms for reporting and recording incidents and actions taken in response to those incidents.	Section 2.5
f) Provisions for reporting environmental incidents to the Director General during construction and operation.	Section 2.6
g) Procedures for rectifying any non-compliance identified during environmental auditing, review of compliance or incident management.	Section 2.7

2.1 CoA B29(a) Notification of the Director General

Provisions for the notification of the Director General of the commencement of works prior to the commencement of construction and prior to the commencement of operation of the project (including prior to each stage, where works are being staged).”

Construction on the Project will not commence until the written approval by the Secretary of the CEMP, associated environmental plans and other relevant documentation required by the Project Approval has been received.

RMS will advise the Secretary in writing prior to the commencement of construction and operation.

2.2 CoA B29(b) Periodic compliance review

Provisions for periodic review of project compliance with the requirements of this approval and the documents listed under condition A1, including the Statement of Commitments.

RMS will review the status of compliance and submit periodic construction compliance reports to the Secretary for each stage of construction at intervals including:

- Prior to the commencement of construction.
- Six months after the commencement of construction and then at six monthly intervals thereafter.
- Prior to the commencement of operation.

The compliance tracking tables (Appendices A and B) form an integral part of the Compliance Tracking Report. These tables establish a format for recording compliance and include:

- Description of the environmental requirement.
- The phase of the project to which it relates.
- A reference as to where each requirement is addressed
- Compliance status.

2.3 CoA B29(c) Periodic compliance reporting

Provisions for periodic reporting of compliance status against the requirements of this approval and the documents listed under condition A1, including the Statement of Commitments, to the Director General including at least one month prior to the commencement of construction and operation of the project and at other intervals during the construction and operation, as identified in the Program.

At intervals prescribed in Section 2.2, the status of compliance will be reviewed and reported to the Secretary in the form of compliance tracking reports. Fulton Hogan will prepare these reports for the duration of the Project. Compliance tracking reports will typically include:

- Scope of the activities undertaken during the reporting period.
- Performance of environmental controls that have been implemented.
- Compliance with CoA, revised SoCs as recorded in the compliance tracking tables.
- Non-compliances during the reporting period.
- Detail of all incidents recorded and action taken during the reporting period.

- Outcomes of monitoring undertaken over the reporting period and review of compliance against relevant criteria.
- Significant outcomes of audits and inspections undertaken during the reporting period.
- Detail of all complaints (environmental and others) received, responses taken and current status (ie open or closed).

Appendices A and B of this CTP provide standard compliance tables to be used in each Compliance Tracking Report.

Appendices A and B have been completed for the Project, to document the pre-construction review of compliance status.

2.4 CoA B29(d) Independent environmental auditing

A program for independent environmental auditing in accordance with *ISO 19011:2003 - Guidelines for Quality and/ or Environmental Management Systems Auditing*.

Independent environmental audits are undertaken in accordance with *ISO 19011:2003 - Guidelines for Quality and/or Environmental Management Systems Auditing* annually during construction. The audits will assess compliance against the CoA and SoCs.

The initial independent environmental audit will be undertaken within three months of the commencement of construction of the Project.

2.5 CoA B29(e) Incident reporting and response

Mechanisms for reporting and recording incidents and actions taken in response to those incidents.

All incidents and emergencies will be managed in accordance with the *Emergency Preparedness and Response Plan*. Fulton Hogan's Case and Action Management system (CAMs) software will be used to record all environment incidents.

RMS's *Environmental Incident Classification and Reporting Procedure* will be implemented in the event of an environmental incident. The Procedure is provided in Appendix A7 of the CEMP.

The RMS Representative and the Environmental Representative will be notified verbally immediately of an incident. Incident reports will be provided to the RMS Representative and the Environmental Representative within 24 hours of Fulton Hogan becoming aware of the incident, including lessons learnt from each environmental incident and proposed measures to prevent the occurrence of a similar incident. All efforts will be undertaken immediately to avoid and reduce impacts of incidents and suitable controls put in place. Incidents will be close out as quickly as possible, taking all required action to resolve each environmental incident.

The EPA will be notified of any environmental incidents or pollution incidents on or around the Project via the EPA Environment Line (telephone 131 555) in accordance with Part 5.7 of the *Protection of the Environment Operations Act 1997* (NSW) (POEO Act). Other relevant authorities, defined by Section 148 of the POEO Act, will also be notified immediately. The circumstances where this will take place include:

- if the actual or potential harm to the health or safety of human beings or ecosystems is not trivial; or
- if actual or potential loss or property damage (including clean-up costs) associated with an environmental incident exceeds \$10,000.

The RMS Environment Branch and Project team will maintain all records relating to environmental incidents.

2.6 CoA B29(f) Incident reporting to the Director General

Provisions for reporting environmental incidents to the Director General during construction and operation.

The Secretary will be notified of environmental incidents that involve biodiversity and heritage matters in writing in circumstances where:

- the actual or potential harm to the health or safety of human beings or ecosystems is not trivial; or
- the actual or potential loss or property damage (including clean-up costs) associated with an environmental incident exceeds \$10,000.

An initial notification to the Secretary will be made verbally as soon as practicable and within 24 hours after the occurrence of the incident. The written notification will be made within seven working days of the date on which the incident occurred.

Where incidents are considered to be minor, i.e. do not meet the criteria above, they will be reported to the Secretary in the following Compliance Tracking Report.

2.7 CoA B29(g) Rectification of non-compliance

Procedures for rectifying any non-compliance identified during environmental auditing, review of compliance or incident management.

A non-conformance is the failure or refusal to comply with the requirements of this CEMP and supporting documentation. Where a non-compliance has been identified, a corrective / preventative action (or actions) will be implemented.

Any member of the Project team may raise a non-conformance or improvement opportunity. The Fulton Hogan Quality Management Plan describes the process for managing non-conforming work practises and initiating corrective/preventative actions or system improvements. The Environmental Representative, RMS Representative or public authority may also raise a non-conformance or improvement opportunity using the same process.

For each non-conformance identified a corrective/preventative action (or actions) must be implemented. In addition any environmental management improvement opportunities can be initiated as a result of incidents or emergencies, monitoring and measurement, audit findings or other reviews. Improvement opportunities may also result in the implementation of corrective/preventative actions.

Corrective/preventative actions and improvement opportunities will be entered into Fulton Hogan's quality system database and include detail of the issue, action required and timing and responsibilities. The record will be updated with date of close out and any necessary notes. The database will be reviewed regularly to ensure actions are closed out as required.

Non-conforming activities may be stopped, if necessary, by the Environmental Manager, Environmental Officers or Project / Site Engineer following consultation with the Construction Manager or delegate. The works will not commence until a corrective / preventative action has been closed out. The Environmental Representative may also stop works in these circumstances. In such circumstances a non-conformance report must be prepared in accordance with the Quality Management Plan.

The close-out of required actions will be reviewed during Environmental Representative inspections, and the Environmental Representative will be actively involved in the review and resolution of non-compliances.

Section 8.5 of the CEMP also provides information on non-conformity, corrective and preventative actions.

Appendix A

Project Approval Compliance Table

Table 2: Minister for Planning and Infrastructure's Conditions of Approval (22 July 2013)

CoA ref.	Requirement	Phase	Applicability / reference	Compliance status
PART A ADMINISTRATIVE CONDITIONS				
TERMS OF APPROVAL				
A1	<p>The Proponent shall carry out the project generally in accordance with the:</p> <ul style="list-style-type: none"> (a) Major Project Application MP10_0240; (b) Princes Highway upgrade – Foxground and Berry bypass - Environmental Assessment (Volumes 1-2), prepared by AECOM Australia Pty Ltd for Roads and Maritime Services and dated November 2012; (c) Princes Highway upgrade – Foxground and Berry bypass – Submissions Report, prepared by AECOM Australia Pty Ltd for Roads and Maritime Services and dated May 2013, including the revised Statement of Commitments contained therein; and (d) conditions of this approval. 	Pre-construction, construction, and operation	CEMP Section 1.2 Compliance Tracking Reports	Compliant
A2	<p>In the event of an inconsistency between:</p> <ul style="list-style-type: none"> (a) the conditions of this approval and any document listed from condition A1(a) to A1(c) inclusive, the conditions of this approval shall prevail to the extent of the inconsistency; and (b) any document listed from condition A1(a) to A1(c) inclusive, and any other document listed from condition A1(a) to A1(c) inclusive, the most recent document shall prevail to the extent of the inconsistency. 	Pre-construction, construction, and operation	CEMP Section 1.2	Compliant
A3	<p>The Proponent shall comply with any reasonable requirement(s) of the Director General arising from the Department's assessment of:</p> <ul style="list-style-type: none"> (a) any reports, plans or correspondence that are submitted in accordance with this approval; and (b) the implementation of any actions or measures contained within these reports, plans or correspondence. 	Pre-construction, construction, and operation	CEMP Section 1.2	Compliant

CoA ref.	Requirement	Phase	Applicability / reference	Compliance status
A4	Subject to confidentiality, the Proponent shall make all documents required under this approval available for public inspection on request.	Pre-construction, construction, and operation	CCS Section 7.2	Compliant
A5	The Proponent shall notify the Director General and other relevant government agencies of any incident with actual or potential significant off-site environmental impacts on people or the biophysical environment as soon as practicable and within 24 hours after the occurrence of the incident. The Proponent shall provide full written details of the incident to the Director General within seven days of the date on which the incident occurred. Note: Where an incident also requires reporting to the OEH and/or EPA the incident report prepared for the purposes of notifying the OEH and/or EPA would meet this requirement	Pre-construction, construction, and operation	CEMP Section 6.2	Compliant
A6	The Proponent shall meet the requirements of the Director General or relevant government agency (as determined by the Director General) to address the cause or impact of any incident, as it relates to this approval, reported in accordance with condition A5, within such period as the Director General may require.	Pre-construction, construction, and operation	CEMP Section 6.2	Compliant
A7	This approval shall lapse ten years after the date on which it is granted, unless construction works the subject of this project approval are physically commenced on or before that date.	Pre-construction, construction	CEMP Section 1.2	Compliant
STATUTORY REQUIREMENTS				
A8	The Proponent shall ensure that all necessary licences, permits and approvals required for the development of the project are obtained and maintained as required throughout the life of the project. No condition of this approval removes the obligation for the Proponent to obtain, renew or comply with such necessary licences, permits or approvals except as provided under section 75U of the Act. This shall include relevant certification requirements in accordance with section 109R of the Act.	Pre-construction, construction, and operation	CEMP Section 3.3 CEMP Appendix A1	Compliant
STAGING				

CoA ref.	Requirement	Phase	Applicability / reference	Compliance status
A9	<p>The Proponent may elect to construct and/ or operate the project in stages. Where staging is proposed, the Proponent shall submit a Staging Report to the Director General prior to the commencement of the first proposed stage. The Staging Report shall provide details of:</p> <ul style="list-style-type: none"> (a) how the project 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 project. (c) Where staging of the project 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). <p>The Proponent shall ensure that an updated Staging Report (or advice that no changes to staging are proposed) is submitted to the Director General prior to the commencement of each stage, identifying any changes to the proposed staging or applicable conditions.</p> <p>The Proponent shall ensure that all plans, sub-plans and other management documents required by the conditions of this approval and relevant to each stage (as identified in the Staging Report) are submitted to the Director General no later than one month prior to the commencement of the relevant stages, unless an alternative timeframe is agreed to by the Director General.</p>	Pre-construction, construction	<p>NA.</p> <p>No changes to staging are proposed from that already approved by DP&E as part of the <i>Toolijooa Road Fill Works Stage of the Foxground and Berry bypass Project: Staging Report</i> dated 31 January 2014.</p>	Compliant
PART B PRIOR TO CONSTRUCTION				
DESIGN				
B1	<p>The proponent shall, in consultation with the relevant council/s, investigate the need for:</p> <ul style="list-style-type: none"> (a) potential future on and off ramps at Woodhill Mountain Road; and (b) a potential future left turn lane onto the new highway from Toolijooa Road. <p>The investigation shall be undertaken to the satisfaction of Director General,</p>	Pre-construction	By RMS	In progress - Consultation being undertaken with Kiama Municipal Council and Shoalhaven City Council.

CoA ref.	Requirement	Phase	Applicability / reference	Compliance status
	and include consideration of the relevant environmental impacts (noise, flooding, heritage, biodiversity, traffic etc.) and consider any alternative options.			
B2	The bridge piers at the Connollys Creek / Bundewallah Creek / Broughton Mill Creek crossing shall be located and designed in such a way to minimise visual impacts to Berry and the bridge piers at Broughton Creek crossing 3 are located and designed in such a way to minimise visual impacts to RMB 353 Princes Highway, Broughton Village. Evidence of how visual impacts have been minimised shall be provided to the Director General prior to the commencement of works that would influence the design of the bridge in this location.	Pre-construction	Detailed Design UDLP	Compliant
BIODIVERSITY				
<i>Mitigation Measures – Fauna and Waterway Crossings</i>				
B3	The Proponent shall design (and implement) the fauna crossings identified in Table 5.1 of Volume 2 Appendix F of the document listed under condition A1(b), at the locations and in accordance with the minimum design principles identified in Table 5.1, unless otherwise agreed by the Director-General.	Pre-construction	Fauna Crossing Report (CoA B5). To be provided separately to the CEMP, prior to the commencement of construction of the relevant crossing.	In progress
B4	Investigations into the design of fauna crossings identified in Table 5.1 of Appendix F of the document listed under condition A1(b) during detailed design shall be undertaken with the input of a suitably qualified and experienced ecologist and in consultation with OEH and DPI (Fishing and Aquaculture).	Pre-construction	Fauna Crossing Report (CoA B5). To be provided separately to the CEMP, prior to the commencement of construction of the relevant crossing Meeting Minutes dated 20/06/14: meeting with OEH (Biodiversity) to	In progress

CoA ref.	Requirement	Phase	Applicability / reference	Compliance status
			review the fauna crossing strategy	
B5	<p>The Proponent shall prepare a report on the final design of fauna and/or waterway crossings identified in Table 5.1 of Appendix F of the document listed under condition A1(b), where the location of the crossing has changed and/or the crossing does not meet the minimum design principles identified in Table 5.1. The report shall be submitted to the Director General prior to the commencement of construction of the relevant crossing, and shall demonstrate how the new location and/ or design would result in acceptable biodiversity outcomes. The report shall clearly identify how the fauna and/or waterway crossing will work in conjunction with complementary fauna exclusion fencing measures to be implemented for the project. The report shall be accompanied by evidence of consultation with OEH and DPI (Fishing and Aquaculture) in relation to the suitability of any changes to the location and/or crossing design.</p>	Pre-construction	Fauna Crossing Report (CoA B5). To be provided separately to the CEMP, prior to the commencement of construction of the relevant crossing.	In progress
B6	<p>The Proponent shall, in consultation with OEH and DPI (Fishing and Aquaculture), ensure that all waterway crossings are designed and constructed consistent with the principles of the Guidelines for Controlled Activities Watercourse Crossings (Department of Water and Energy, February 2008), Policy and Guidelines for Fish Friendly Waterway Crossings (NSW Fisheries, February 2004) and Policy and Guidelines for Design and Construction of Bridges, Roads, Causeways, Culverts and Similar Structures (NSW Fisheries 1999). Where multiple cell culverts are proposed for creek crossings, at least one cell shall be provided for fish passage, with an invert or bed level that mimics creek flows.</p>	Pre-construction	CFFMP Meeting Minutes dated 11/06/14: Site Meeting with Department of Primary Industries (Fishing and Aquaculture) and NSW Office of Water to see the proposed locations of the temporary bridges at Broughton Creek No. 1, 2 and 3, and Broughton Mill Creek.	Compliant

CoA ref.	Requirement	Phase	Applicability / reference	Compliance status
Biodiversity Offsets				
B7	<p>The Proponent shall, in consultation with the OEH and DPI (Fishing and Aquaculture), develop a Biodiversity Offset Strategy that identifies the available options for offsetting the biodiversity impacts of the project in perpetuity, with consideration to the Principles for the use of biodiversity offsets in NSW (OEH website http://www.environment.nsw.gov.au/biocertification/offsets.htm dated 17 June 2011). Unless otherwise agreed to by the OEH and DPI (Fishing and Aquaculture), offsets shall be provided on a like-for-like basis and at a minimum ratio of 4:1 for areas of high conservation value (including EEC, salt marsh, and poorly conserved vegetation communities identified as being more than 75% cleared in the catchment management area) and 2:1 for the remainder of native vegetation areas (including threatened species habitat, mangroves, seagrass, and non-EEC riparian vegetation). The Strategy shall include, but not necessarily be limited to:</p> <ul style="list-style-type: none"> (a) the aims and objectives of the biodiversity offset strategy; (b) confirmation of the vegetation type/ habitat (in hectares) to be cleared and their condition, and the size of offsets required (in hectares); (c) details of the type of available offset measures that have been identified to compensate for the loss of threatened species and vulnerable and endangered ecological communities and/ or their habitats, and native vegetation (including mangroves, seagrasses, salt marsh and riparian vegetation). The measures shall achieve a neutral or net beneficial outcome for all the biodiversity values likely to be impacted directly or indirectly during both the construction and operation of the project; (d) the decision-making framework that would be used to select the final suite of offset measures to achieve the aims and objectives of the Strategy, including the ranking of offset measures; (e) a process for addressing and incorporating offset measures arising from changes in biodiversity impacts (where these changes are generally consistent with the biodiversity impacts identified for the 	Pre-construction	Biodiversity Offset Strategy (by RMS)	In progress - draft Biodiversity Offset Strategy prepared by Parsons Brinckerhoff. Bat Management Report and Nest Box Management Report also in process of being prepared by Parsons Brinckerhoff.

CoA ref.	Requirement	Phase	Applicability / reference	Compliance status
	<p>project in the documents listed under condition A1), including:</p> <ul style="list-style-type: none"> (i) changes to the footprint due to detailed design; (ii) (changes to predicted impacts as a result of changes to mitigation measures; (iii) the identification of additional species/ habitat through pre-clearance surveys and construction; (iv) addressing outcomes of the ecological monitoring program; and (v) additional impacts associated with the establishment of ancillary facilities; and (f) options for the securing and management of biodiversity offsets in perpetuity. <p>The Biodiversity Offset Strategy shall be submitted to the Director General for approval no later than 6 weeks prior to the commencement of construction that would result in the disturbance of native vegetation, unless otherwise agreed by the Director General.</p>			
B8	<p>Within two years of the date of approval of the Biodiversity Offset Strategy, unless otherwise agreed by the Director General, the Proponent shall prepare and submit a Biodiversity Offset Package for the approval of the Director General. The Package shall be developed in consultation with the OEH and DPI (Fishing and Aquaculture), and shall include, but not necessarily be limited to:</p> <ul style="list-style-type: none"> (a) details of the final suite of the biodiversity offset measures to be implemented for the project demonstrating how it achieves the requirements of the Biodiversity Offset Strategy (including specified offset ratios); (b) the final selected means of securing the biodiversity values of the Package in perpetuity, including ongoing management, maintenance and monitoring requirements; and (c) timing and responsibilities for the implementation of the provisions of the Package over time. 	Construction and operation	Biodiversity Offset Strategy (by RMS).	NA at this stage – relates to operation.

CoA ref.	Requirement	Phase	Applicability / reference	Compliance status
	The requirements of the Package shall be implemented by the responsible parties according to the timeframes set out in the Package, unless otherwise agreed by the Director General.			
Ecological Monitoring				
B9	<p>The Proponent shall develop an Ecological Monitoring Program to monitor the effectiveness of the biodiversity mitigation measures implemented as part of the project. The program shall be developed by a suitably qualified and experienced ecologist in consultation with the OEH and DPI (Fishing and Aquaculture) and shall include but not necessarily be limited to:</p> <ul style="list-style-type: none"> (a) an adaptive monitoring program to assess the effectiveness of the mitigation measures identified in conditions B3 and B36(b) and allow amendment to the measures if necessary. The monitoring program shall nominate performance parameters and criteria against which effectiveness will be measured and include operational road kill surveys to assess the effectiveness of fauna crossings and exclusion fencing implemented as part of the project; (b) mechanisms for developing additional monitoring protocols to assess the effectiveness of any additional mitigation measures implemented to address additional impacts in the case of design amendments or unexpected threatened species finds during construction (where these additional impacts are generally consistent with the biodiversity impacts identified for the project in the documents listed under condition A1); (c) monitoring shall be undertaken during construction (for construction-related impacts) and from opening of the project to traffic (for operation/ ongoing impacts) until such time as the effectiveness of mitigation measures can be demonstrated to have been achieved over a minimum of three successive monitoring periods after opening of the project to traffic, unless otherwise agreed by the Director General. The monitoring period may be reduced with the agreement of the Director General in consultation with the OEH and DPI (Fishing 	Pre-construction	Ecological Monitoring Program (by RMS). Provided separately to the CEMP.	In progress – sent to DP&E

CoA ref.	Requirement	Phase	Applicability / reference	Compliance status
	<p>and Aquaculture), depending on the outcomes of the monitoring;</p> <p>(d) provision for the assessment of the data to identify changes to habitat usage and whether this can be directly attributed to the project;</p> <p>(e) details of contingency measures that would be implemented in the event of changes to habitat usage patterns directly attributable to the construction or operation of the project; and</p> <p>(f) provision for annual reporting of monitoring results to the Director General and the OEH and DPI (Fishing and Aquaculture), or as otherwise agreed by those agencies.</p> <p>The Program shall be submitted to the Director General for approval no later than 6 weeks prior to the commencement of construction that would result in the disturbance of native vegetation (unless otherwise agreed by the Director General).</p>			
HYDROLOGY AND FLOODING				
B10	<p>The Proponent shall ensure, where feasible and reasonable, that the project is designed to not exceed the afflux and other flooding criteria within the vicinity of the project as identified or predicted in the documents listed under condition A1. New or duplicated drainage structures shall be designed to minimise changes to afflux and flooding to waterways that traverse the project alignment to the greatest extent practicable.</p>	Pre-construction	Detailed Design - Flooding Report	In progress
B11	<p>The Proponent shall develop a Hydrological Mitigation Report for properties in the Broughton Creek, Town Creek, Bundewallah Creek and Shoalhaven floodplain areas where flood impacts are predicted to increase as a result of the project. The Report shall be based on detailed floor level survey and associated assessment of potentially flood affected properties in those areas. The Report shall:</p> <p>(a) identify properties in those areas likely to have an increased flooding impact and detail the predicted increased flooding impact;</p> <p>(b) identify mitigation measures to be implemented where increased flooding is predicted to adversely affect access, property or</p>	Pre-construction	Hydrological Mitigation Report (by RMS) Detailed Design - Flooding Report	<p>In progress - Draft Hydrological Mitigation Report prepared by WMA.</p> <p>Detailed Design ongoing.</p>

CoA ref.	Requirement	Phase	Applicability / reference	Compliance status
	<p>infrastructure;</p> <p>(c) identify measures to be implemented to minimise scour and dissipate energy at locations where flood velocities are predicted to increase as a result of the project and cause localised soil erosion and/or pasture damage;</p> <p>(d) be developed in consultation with the relevant council, NSW State Emergency Service and directly-affected property owners; and</p> <p>(e) identify operational and maintenance responsibilities for items (a) to (c) inclusive.</p> <p>The Proponent shall not commence construction of the project on or within those areas likely to alter flood conditions until such time as works identified in the hydrological mitigation report have been completed, unless otherwise agreed by the Director General.</p>			
B12	<p>Based on the mitigation measures identified in condition B11, the Proponent shall prepare a final schedule of feasible and reasonable flood mitigation measures proposed at each directly-affected property in consultation with the property owner. The schedule shall be provided to the relevant property owner(s) prior to the implementation/ construction of the mitigation works, unless otherwise agreed by the Director General. A copy of each schedule of flood mitigation measures shall be provided to the Department and the relevant council prior to the implementation/ construction of the mitigation measures on the property.</p>	Pre-construction	By RMS	In progress - Draft Hydrological Mitigation Report prepared by WMA.
B13	<p>In the event that the Proponent and the relevant property owner cannot agree on feasible and reasonable flood mitigation measures to be applied to a property within one month of the first consultation on the measures (as required under condition B10), the Proponent shall employ a suitably qualified and experienced independent hydrological engineer, who has been approved by the Director General, for the purposes of this condition prior to the commencement of construction in the Broughton Creek, Town Creek, Bundewallah Creek and Shoalhaven floodplain areas affected by increased afflux from the project to advise and assist affected property owners in negotiating feasible and reasonable mitigation measures.</p>	Pre-construction	By RMS	Compliant - Mark Babister of WMA engaged and approved by Director General.

CoA ref.	Requirement	Phase	Applicability / reference	Compliance status
B14	The Proponent shall provide assistance to the relevant council and/ or NSW State Emergency Service, to assist in the preparation of any new or necessary update(s) to the relevant plans and documents in relation to flooding, to reflect changes in flooding levels, flows and characteristics as a result of the project.	Pre-construction	By RMS	In progress
SEDIMENTATION, EROSION AND WATER				
B15	Prior to the commencement of construction, unless otherwise agreed by the Director General, the Proponent shall in consultation with the EPA and NOW, undertake groundwater modeling on the concept design for the project, subject to the modelling being revised should the detailed design have a significantly different impact on groundwater than the concept design. The modeling shall be undertaken by a suitably qualified and experienced groundwater expert and assess the construction and operational impacts of the proposal on the groundwater resources, groundwater quality, groundwater hydrology and groundwater dependent ecosystems and provide details of contingency and management measures in the groundwater management strategy required under condition B36(d).	Pre-construction	Detailed Design - Geotechnical Design & Interpretative Report	In progress

CoA ref.	Requirement	Phase	Applicability / reference	Compliance status
B16	<p>The Proponent shall prepare and implement a Water Quality Monitoring Program to monitor the impacts of the project on surface and groundwater quality and resources and wetlands, during construction and operation. The Program shall be developed in consultation with the OEH, EPA, DPI (Fishing and Aquaculture) and NOW and shall include but not necessarily be limited to:</p> <ul style="list-style-type: none"> (a) identification of surface and groundwater quality monitoring locations (including watercourses, waterbodies and SEPP14 wetlands) which are representative of the potential extent of impacts from the project; (b) the results of the groundwater modelling undertaken under condition B15; (c) identification of works and activities during construction and operation of the project, including emergencies and spill events, that have the potential to impact on surface water quality of potentially affected waterways; (d) development and presentation of parameters and standards against which any changes to water quality will be assessed, having regard to the Australian and New Zealand Guidelines for Fresh and Marine Water Quality 2000 (Australian and New Zealand Environment Conservation Council, 2000); (e) representative background monitoring of surface and groundwater quality parameters for a minimum of twelve months (considering seasonality) prior to the commencement of construction, to establish baseline water conditions, unless otherwise agreed by the Director General; (f) a minimum monitoring period of three years following the completion of construction or until the affected waterways and/ or groundwater resources are certified by an independent expert as being rehabilitated to an acceptable condition. The monitoring shall also confirm the establishment of operational water control measures (such as sedimentation basins and vegetation swales); (g) contingency and ameliorative measures in the event that adverse impacts to water quality are identified; and (h) reporting of the monitoring results to the Department, OEH, EPA and NOW. <p>The Program shall be submitted to the Director-General for approval 6 months prior to the commencement of construction of the project, or as otherwise</p>	Pre-construction	CSWQMP Appendix B	In progress.
Compliance Monitoring Program	<p>agreed by the Director General. A copy of the Program shall be submitted to the OEH, EPA, DPI (Fishing and Aquaculture) and NOW prior to its implementation.</p>			Page 20

CoA ref.	Requirement	Phase	Applicability / reference	Compliance status
HERITAGE IMPACTS				
<i>Built and Landscape Heritage</i>				
B17	<p>Prior to pre-construction and construction impacts affecting 'Glen Devon' Federation Cottage (H11) and skid mounted work-site shed (H60), the Proponent shall carry out further historical research and investigate the options for relocation of these heritage items, in consultation with the department and the Heritage Council of NSW, to the satisfaction of the Director General.</p> <p>Additionally, for H11, the proponent shall:</p> <ul style="list-style-type: none"> (a) undertake archaeological investigations in accordance with condition B20; and (b) provide for the preparation and implementation of a heritage interpretation plan. 	Prior to Pre-construction	By RMS	In progress - H11 historical research report sent to DP&E. Biosis currently completing (a) and (b).
B18	<p>Prior to the commencement of preconstruction and construction works in proximity to the following items G2B H11, H13, H15, H16, H17, H19, H21, H22, H23, H30, H45, H47, H53, H54, H55, H56, H62, H63, and the Southern Illawarra Coastal Plain and Hinterland Cultural Landscape (SICPH CL), and G2B A13, A14, A39, TRACL and MFT12 the Proponent shall complete all archival recordings, including photographic recording. In addition detailed historical research shall be undertaken for the following items G2B H60 H61, H63, the SICPH CL and G2B A39.</p> <p>This work shall be undertaken by an experienced heritage consultant, in accordance with the guidelines issued by the Heritage Council of NSW. The areas containing these items shall be clearly identified and/or fenced until the completion of the archival recordings. Within 6 months of completing the above work, the Proponent shall submit a report containing the archival recordings and the historical research, where required, to the Director General, the Heritage Council of NSW, the local Council and the local Historical Society.</p>	Prior to Pre-construction	By RMS	In progress - Aboriginal Archival reporting completed by AHMS. Historical research currently being completed by Biosis (Non-Aboriginal heritage) and Kelleher Nightingale (Aboriginal Heritage).

CoA ref.	Requirement	Phase	Applicability / reference	Compliance status
B19	<p>Prior to pre-construction and construction impacts affecting G2B H15, H19, H21, H22, H23, H30 and H55 the Proponent shall carry out further historical and physical archaeological investigations in relation to these road alignments , in consultation with the department and the Heritage Council of NSW, to the satisfaction of the Director-General. These investigations must:</p> <ul style="list-style-type: none"> (a) undertake archaeological investigations in accordance with condition B22; (b) provide for the detailed analysis of any heritage items discovered during the investigations; (c) include management options for these heritage items (including options for relocation and display); and (d) if the findings of the investigations are significant, provide for the preparation and implementation of a heritage interpretation plan. 	Prior to Pre-construction	By RMS	In progress – submitted to DP&E.
Archaeology (Aboriginal and non-Aboriginal)				
B20	<p>Prior to the commencement of pre-construction and construction activities affecting Aboriginal site G2B PAD 1 the Proponent shall:</p> <ul style="list-style-type: none"> (a) undertake archaeological investigation of this site using a methodology generally consistent with testing undertaken for the Environmental Assessment, and prepared in consultation with the OEH (Aboriginal heritage) and the Aboriginal stakeholders; and (b) report on the results of the archaeological investigation, including recommendations (such as for further archaeological work), in consultation with the OEH and to the satisfaction of the Director General, and shall include, but not necessarily be limited to: <ul style="list-style-type: none"> (i) consideration of measures to avoid or minimise disturbance to Aboriginal objects where objects of moderate to high significance are found to be present; (ii) where impacts cannot be avoided, recommendations for any further investigations under condition B21; and (iii) management and mitigation measures to ensure there are no 	Prior to Pre-construction	By RMS	In progress – Kelleher Nightingale.

CoA ref.	Requirement	Phase	Applicability / reference	Compliance status
	additional impacts due to pre-construction and construction activities.			
B21	<p>Prior to the commencement of pre-construction and construction activities affecting sites G2B A16, A18, A24, A29, A30, A31, A32, A33, A36, and G2B PAD1 the proponent shall:</p> <ul style="list-style-type: none"> (a) develop a detailed salvage strategy, prepared in consultation with the OEH (Aboriginal heritage) and the Aboriginal stakeholders. The investigation program shall be prepared to the satisfaction of the Director General; and (b) undertake any further archaeological excavation works recommended by the results of the Aboriginal archaeological investigation program. <p>Within twelve months of completing the above work, unless otherwise agreed by the Director General, the Proponent shall submit a report containing the findings of the excavations, including artefact analysis and Aboriginal Site Impacts Recording Forms (ASIR), and the identification of final storage location for all Aboriginal objects recovered (testing and salvage), prepared in consultation with the Aboriginal stakeholders, the OEH (Aboriginal heritage) and to the satisfaction of the Director General.</p> <p>Note: where archaeological testing has occurred as part of the Environmental Assessment and the results are included in the documents listed in condition A1(b) the sites tested must still form part of the final report prepared under condition B21(b).</p>	Prior to Pre-construction	By RMS	In progress - Kelleher Nightingale methodology submitted to DP&E.
B22	<p>Prior to the commencement of pre-construction and construction activities affecting non-Aboriginal sites H11, H14, H19, H23, H28, H30, H48, H49, H53, and H55, the Proponent shall:</p> <ul style="list-style-type: none"> (a) Undertake an Historic archaeological investigation program in accordance with the Heritage Council's Archaeological Assessments Guideline (1996) using a methodology prepared, in consultation with the OEH (Heritage Branch), and to the satisfaction of the Director-General. This work should be undertaken by an archaeological heritage consultant approved by the Director-General. The nomination for the Excavation Director shall demonstrate ability to comply with 	Prior to Pre-construction	By RMS	In progress - Biosis methodology and excavation director approved by DP&E.

CoA ref.	Requirement	Phase	Applicability / reference	Compliance status
	<p>the Heritage Council's Criteria for the Assessment of Excavation Directors (July 2011).</p> <p>(b) Report on the results of the non-Aboriginal archaeological investigation program, including recommendations (such as for further archaeological work), in consultation with the Heritage Branch, OEH and to the satisfaction of the Director General, and shall include, but not necessarily be limited to:</p> <ul style="list-style-type: none"> (i) consideration of measures to avoid or minimise disturbance to archaeology, where archaeology of non-Aboriginal archaeological significance is found to be present; (ii) where impacts cannot be avoided, recommendations for any further investigations for archaeology of historical archaeological significance; and (iii) management and mitigation measures to ensure there are no additional impacts due to pre-construction and construction activities. <p>(c) Undertake any further archaeological excavation works recommended by the results of the non-Aboriginal archaeological investigation program.</p> <p>Within 12 months of completing the above work, unless otherwise agreed by the Director General, the Proponent shall submit a report containing the findings of the excavations, including artefact analysis, and the identification of a final repository for finds, prepared in consultation with the OEH (Heritage branch) and to the satisfaction of the Director General.</p> <p>Note: where archaeological testing has occurred as part of the environmental assessment and the results are included in the documents listed in condition A1(b) the sites tested must still form part of the methodology and final report prepared for the non-Aboriginal archaeological investigation program.</p>			
URBAN DESIGN AND LANDSCAPING				
B23	The Proponent shall prepare and implement an Urban Design and Landscape Plan for the project. The Plan shall be prepared in consultation	Pre-construction	UDLP	In progress

CoA ref.	Requirement	Phase	Applicability / reference	Compliance status
	<p>with the relevant council and shall present an integrated urban design for the project. The Plan shall include, but not necessarily be limited to:</p> <ul style="list-style-type: none"> (a) a principal goal of achieving the urban design objectives outlined in Section 2.2 Volume 2 Appendix I of the document referred to in Condition A1(b); (b) location of existing vegetation and proposed landscaping (including use of indigenous and endemic species where possible) and design features; (c) graphics such as sections, perspective views and sketches for key elements of the project (including, but not limited to built elements such as retaining walls, cuttings, embankments, bridges, and noise barriers); (d) a description of locations along the project corridor directly or indirectly impacted by the construction of the project (e.g. temporary ancillary facilities, access tracks, watercourse crossings, etc.) and details of the strategies to progressively rehabilitate regenerate and/or revegetate the locations with the objective of promoting biodiversity outcomes and visual integration. Details of species to be replanted/ revegetated shall be provided, including their appropriateness to the area and considering existing vegetation and habitat for threatened species; (e) an assessment of the visual screening affects of existing vegetation and the proposed landscaping. Where residences and businesses have been identified as likely to experience high visual impact as a result of the project and high residual impacts are likely to remain, the Proponent shall in consultation with affected receptors, identify opportunities for providing at-receptor landscaping to further screen views of the project. Where agreed to with the landowner, these measures shall be implemented during the construction of the project; (f) take into account appropriate roadside plantings and landscaping in the vicinity of heritage items and ensure no additional heritage impacts; 			

CoA ref.	Requirement	Phase	Applicability / reference	Compliance status
	<p>(g) specific details on the landscape treatments for the North Street corridor, Town Creek diversion and Town Park.</p> <p>(h) strategies for progressive landscaping of other environmental controls such as erosion and sedimentation controls, drainage and noise mitigation;</p> <p>(i) location and design treatments for any associated footpaths and cyclist elements, and other features such as seating, lighting (in accordance with AS 4282-1997 Control of the Obtrusive Effect of Outdoor Lighting), fencing, and signs;</p> <p>(j) evidence of consultation with the relevant council and community on the proposed urban design and landscape measures prior to its finalisation; and</p> <p>(k) monitoring and maintenance procedures for the vegetated built elements, rehabilitated vegetation and landscaping (including weed control) including performance indicators, responsibilities, timing and duration and contingencies where rehabilitation of vegetation and landscaping measures fail.</p> <p>The Plan shall be submitted for the approval of the Director General prior to the commencement of construction, unless otherwise agreed by the Director General. The Plan may be submitted in stages to suit the staged construction program of the project.</p>			
SIGNAGE POLICY				
B24	The Proponent shall prepare a signage policy which addresses the bypassed towns of Foxground and Berry, in consultation with the relevant council.	Operation	CTMP Sections 16.3.1 and 16.3.2	Compliant
B25	The signage policy shall be consistent with the Guide: Signposting (RTA July 2007), Tourist Signposting guide (RMS and Destination NSW 2012) and provide information on the range of services available within Berry including advice on any parks that could be used as a rest area (and directional signage to these parks) and that that the route through the towns may be taken as an	Operation	CTMP Section 16.3.4	Compliant

CoA ref.	Requirement	Phase	Applicability / reference	Compliance status
	alternative to the highway.			
PROPERTY AND LANDUSE				
B26	The Proponent shall ensure that the project is designed to minimise land take impacts to surrounding properties (including agricultural properties) as far as feasible and reasonable, in consultation with the affected landowners. Where the viability of existing agricultural operations are identified to be impacted by the land requirements of the project, the Proponent shall as part of detailed design employ a suitably qualified and experienced independent agricultural specialist (that is approved by the Director General for the purpose of this condition), to assist in identifying alternative farming opportunities for the relevant properties.	Pre-construction	NA	Compliant – no agricultural properties impacted by the project.
B27	The proponent shall discuss Crown Land transfer options with DPI (Crown Lands) and Shoalhaven Council, for Crown land located along the length of the project between Tannery Road and the northern interchange, with a view to reaching a mutually acceptable outcome for all parties. Evidence of consultation shall be provided to the Director General prior to the commencement of construction, with an agreed outcome to be reached, and submitted to the Director General, prior to the operation of the upgraded highway. In the event that a mutually acceptable agreement can not be reached, the Director General must be advised in writing, to determine whether mediation may be required.	Pre-construction and construction	By RMS	In progress - working with Council on this.
B28	The proponent shall, in consultation with Shoalhaven City Council, prepare a strategy for the use of the Council land adjacent the project at North Street (presently occupied by the Berry Riding Club) investigating options to minimise impacts on the riding club both during construction and operation of the project. The final option(s) shall be determined by the proponent prior to the commencement of construction of works in the vicinity of the riding club, in consultation with Shoalhaven City Council and to the satisfaction of the Director General.	Pre-construction	By RMS	In progress - working with Council on this.
COMPLIANCE TRACKING				

CoA ref.	Requirement	Phase	Applicability / reference	Compliance status
B29	<p>The Proponent shall develop and implement a Compliance Tracking Program to track compliance with the requirements of this approval. The Program shall be submitted to the Director General for approval prior to the commencement of construction and relate to both the construction and operational phases of the project, and include, but not necessarily be limited to:</p> <ul style="list-style-type: none"> (a) provisions for the notification of the Director General of the commencement of works prior to the commencement of construction and prior to the commencement of operation of the project (including prior to each stage, where works are being staged); (b) provisions for periodic review of project compliance with the requirements of this approval and the documents listed under condition A1, including the Statement of Commitments; (c) provisions for periodic reporting of compliance status against the requirements of this approval and the documents listed under condition A1, including the Statement of Commitments, to the Director General including at least one month prior to the commencement of construction and operation of the project and at other intervals during the construction and operation, as identified in the Program; (d) a program for independent environmental auditing in accordance with ISO 19011:2003 - Guidelines for Quality and/ or Environmental Management Systems Auditing; (e) mechanisms for reporting and recording incidents and actions taken in response to those incidents; (f) provisions for reporting environmental incidents to the Director General during construction and operation; and (g) procedures for rectifying any non-compliance identified during environmental auditing, review of compliance or incident management. 	Pre-construction, Construction, Operation	CEMP Section 8.3 This CTP	Compliant
COMMUNITY INFORMATION AND INVOLVEMENT				
<i>Provision of Electronic Information</i>				

CoA ref.	Requirement	Phase	Applicability / reference	Compliance status
B30	<p>Prior to the commencement of construction, the Proponent shall establish and maintain a new website, or dedicated pages within an existing website, for the provision of electronic information associated with the project. The Proponent shall, subject to confidentiality, publish and maintain up-to-date information on the website or dedicated pages including, but not necessarily limited to:</p> <ul style="list-style-type: none"> (a) information on the current implementation status of the project; (b) a copy of the documents referred to under condition A1 of this approval, and any documentation supporting modifications to this approval that may be granted from time to time; (c) a copy of this approval and any future modification to this approval; (d) a copy of each relevant environmental approval, licence or permit required and obtained in relation to the project; (e) a copy of each current strategy, plan, program or other document required under this approval; and (f) the outcomes of compliance tracking in accordance with the requirements of condition B29. 	Pre-construction	CSS Section 7.2	Compliant
Complaints and Enquiries Procedure				
B31	<p>Prior to the commencement of construction, the Proponent shall ensure that the following are available for community complaints and enquiries during the construction period:</p> <ul style="list-style-type: none"> (a) a telephone number on which complaints and enquiries about construction and operation activities may be registered; (b) a postal address to which written complaints and enquiries may be sent; and (c) an email address to which electronic complaints and enquiries may be transmitted. <p>The telephone number, the postal address and the email address shall be published in a newspaper circulating in the local area prior to the commencement of construction and prior to the commencement of project</p>	Construction	CCS Sections 7.2 and 8.2	Compliant

CoA ref.	Requirement	Phase	Applicability / reference	Compliance status
	operation. The above details shall also be provided on the website (or dedicated pages) required by this approval.			
B32	<p>The Proponent shall prepare and implement a Construction Complaints Management System consistent with AS 4269 Complaints Handling prior to the commencement of construction activities and must maintain the System for the duration of construction activities.</p> <p>Information on all complaints received, including the means by which they were addressed and whether resolution was reached and whether mediation was required or used, shall be maintained by the Proponent and included in a complaints register. The information contained within the System shall be made available to the Director General on request.</p>	Pre-construction, Construction	CCS Sections 8.1 and 8.2	Compliant
Community Involvement				
B33	<p>The Proponent shall prepare and implement a Community Communication Strategy for the project. This Strategy shall be designed to provide mechanisms to facilitate communication between the Proponent, the Contractor, the Environmental Representative, the relevant council and the local community (broader and local stakeholders) on the construction and environmental management of the project. The Strategy shall include, but not necessarily be limited to:</p> <ul style="list-style-type: none"> (a) identification of stakeholders to be consulted as part of the Strategy, including affected and adjoining landowners; (b) procedures and mechanisms for the regular distribution of information to stakeholders on the progress of the project and matters associated with environmental management; (c) procedures and mechanisms through which stakeholders can discuss or provide feedback to the Proponent and/ or Environmental Representative in relation to the environmental management and delivery of the project; (d) procedures and mechanisms through which the Proponent can respond to enquires or feedback from stakeholders in relation to the environmental management and delivery of the project; and 	Pre-construction	<ul style="list-style-type: none"> a) CCS Section 5.2 b) CCS Section 7.2 and Appendix E c) CCS Section 8.2 d) CCS Section 8.2 e) CCS Sections 4.1 and 8.2. 	Compliant

CoA ref.	Requirement	Phase	Applicability / reference	Compliance status
	<p>(e) procedures and mechanisms that would be implemented to resolve issues/ disputes that may arise between parties on the matters relating to environmental management and the delivery of the project. This may include the use of an appropriately qualified and experienced independent mediator.</p> <p>Key issues that should be addressed in the Community Communication Strategy should include (but not necessarily be limited to):</p> <ul style="list-style-type: none"> (i) traffic management (including property access, pedestrian access); (ii) landscaping/urban design matters; (iii) construction activities; and (iv) noise and vibration mitigation and management. <p>The Proponent shall maintain and implement the Strategy throughout construction of the project. The Strategy shall be approved by the Director General prior to the commencement of construction, or as otherwise agreed by the Director General.</p>		<p>CCS Appendix C</p> <ul style="list-style-type: none"> i) CCS Sections 4.1, 7.2 and 13. ii) CCS Sections 3.4, 7.2 and 7.5. iii) CCS Sections 3.4, 7.2 and 7.5. iv) CCS Sections 3.4, 7.2 and 7.5. 	
ENVIRONMENTAL MANAGEMENT				
<i>Environmental Representative</i>				
B34	<p>Prior to the commencement of construction of the project, or as otherwise agreed by the Director General, the Proponent shall nominate for the approval of the Director General a suitably qualified and experienced Environment Representative(s) that is independent of the design (including preparation of documentation referred to in condition A1), and construction personnel. The Proponent shall employ the Environmental Representative(s) for the duration of construction, or as otherwise agreed by the Director General. The Environment Representative(s) shall:</p> <ul style="list-style-type: none"> (a) be the principal point of advice in relation to the environmental performance of the project; (b) be consulted in responding to the community concerning the environmental performance of the project where the resolution of 	Pre-construction, construction	By RMS	Compliant - Nominated ER Toby Hobbs from Vantage Environmental Management Pty Ltd. Approved by the DG

CoA ref.	Requirement	Phase	Applicability / reference	Compliance status
	<p>points of conflict between the Proponent and the community is required;</p> <p>(c) monitor the implementation of environmental management plans and monitoring programs required under this approval;</p> <p>(d) monitor the outcome of environmental management plans and advise the Proponent upon the achievement of project environmental outcomes;</p> <p>(e) have responsibility for considering and advising the Proponent on matters specified in the conditions of this approval, and other licences and approvals related to the environmental performance and impacts of the project;</p> <p>(f) ensure that environmental auditing is undertaken in accordance with the requirements of condition B29 and the project's Environmental Management System(s);</p> <p>(g) be given the authority to approve/ reject minor amendments to the Construction Environment Management Plan. What constitutes a "minor" amendment shall be clearly explained in the Construction Environment Management Plan required under condition B35; and</p> <p>(h) be given the authority and independence to require reasonable steps be taken to avoid or minimise unintended or adverse environmental impacts, and failing the effectiveness of such steps, to direct that relevant actions be ceased immediately should an adverse impact on the environment be likely to occur.</p>			
Construction Environmental Management Plan				
B35	<p>The Proponent shall prepare and (following approval) implement a Construction Environmental Management Plan for the project. The Plan shall outline the environmental management practices and procedures that are to be followed during construction, and shall be prepared in consultation with the relevant agencies and in accordance with the Guideline for the Preparation of Environmental Management Plans (Department of Infrastructure, Planning and Natural Resources, 2004). The Plan shall</p>	Preconstruction	CEMP, Appendices and Sub Plans	Compliant

CoA ref.	Requirement	Phase	Applicability / reference	Compliance status
	<p>include, but not necessarily be limited to:</p> <ul style="list-style-type: none"> (a) a description of activities to be undertaken during construction of the project or stages of construction, as relevant; (b) statutory and other obligations that the Proponent is required to fulfil during construction including approvals, consultations and agreements required from agencies and key legislation and policies. Evidence of consultation with relevant agencies shall be included identifying how issues raised by these agencies have been addressed in the Plan; (c) a description of the roles and responsibilities for relevant employees involved in the construction of the project including relevant training and induction provisions for ensuring that employees, including contractors and sub-contractors are aware of their environmental and compliance obligations under these conditions of approval; (d) identification of ancillary facility site locations, including an assessment against the location criteria outlined in condition C32; (e) an environmental risk analysis to identify the key environmental performance issues associated with the construction phase and details of how environmental performance would be monitored and managed to meet acceptable outcomes including what actions will be taken to address identified potential adverse environmental impacts (including any impacts arising from the staging of the construction of the project and/ or concurrent construction works with adjacent Princes Highway Upgrade projects, as relevant). In particular, the following environmental performance issues shall be addressed in the Plan: <ul style="list-style-type: none"> (i) measures to monitor and manage dust emissions including dust from stockpiles, blasting, traffic on unsealed public roads and materials tracking from construction sites onto public roads; (ii) measures to minimise hydrology impacts, including measures to stabilise bed and bank structures as required, 			

CoA ref.	Requirement	Phase	Applicability / reference	Compliance status
	<ul style="list-style-type: none"> (iii) measures to monitor and manage impacts associated with the construction and operation of ancillary facilities, (iv) measures for the handling, treatment and management of contaminated materials, (v) measures to monitor and manage waste generated during construction including but not necessarily limited to: general procedures for waste classification, handling, reuse, and disposal; use of secondary waste material in construction wherever feasible and reasonable; procedures for dealing with green waste including timber and mulch from clearing activities; and measures for reducing demand on water resources (including the potential for reuse of treated water from sediment control basins); (vi) measures to monitor and manage spoil, fill and materials stockpile sites including details of how spoil, fill or material would be handled, stockpiled, reused and disposed and a stockpile management protocol detailing locational criteria that would guide the placement of stockpiles and management measures that would be implemented to avoid/ minimise amenity impacts to surrounding residents and environmental risks (including to surrounding water courses). Stockpile sites that affect heritage, threatened species, populations or endangered ecological communities require the approval of the Director General, in consultation with the OEH; (vii) measures to monitor and manage hazard and risks including emergency management; and (viii) the issues identified in condition B36; (f) details of community involvement and complaints handling procedures during construction, consistent with the requirements of conditions B30 to B33; (g) details of compliance and incident management consistent with the 			

CoA ref.	Requirement	Phase	Applicability / reference	Compliance status
	<p>requirements of condition B29; and</p> <p>(h) procedures for the periodic review and update of the Construction Environmental Management Plan and sub-plans required under condition B35 and B36 respectively, as necessary (including where minor changes can be approved by the Environmental Representative).</p> <p>The Plan shall be submitted for the approval of the Director General no later than one month prior to the commencement of construction, or within such period otherwise agreed by the Director General. Construction works shall not commence until written approval has been received from the Director General.</p>			
B36	<p>As part of the Construction Environment Management Plan for the project required under condition B35, the Proponent shall prepare and implement the following sub plan(s):</p> <p>(a) a Construction Traffic Management Sub-plan, prepared in accordance with the Roads and Maritime Service's QA Specification G10 – Control of Traffic and Traffic Control at Work Sites Manual (2003) to manage disruptions to traffic movements as a result of construction traffic associated with the project. The sub-plan shall be developed in consultation with the relevant council and shall include, but not necessarily be limited to:</p> <ul style="list-style-type: none"> (i) identification of construction traffic routes and quantification of construction traffic volumes (including heavy vehicle/ spoil haulage) on these routes; (ii) details of vehicle movements for construction sites and site compounds including parking, dedicated vehicle turning areas, and ingress and egress points; (iii) details of potential impacts to traffic on the existing highway, the 'Sandtrack', and associated local roads, including, intersection level of service and potential disruptions to pedestrians, public transport, parking, cyclists and property access 	Preconstruction	<ul style="list-style-type: none"> a) CTMP and Appendices b) CFFMP and Appendices c) CNVMP and Appendices d) CSWQMP and Appendices e) CHMP and Appendices 	Compliant

CoA ref.	Requirement	Phase	Applicability / reference	Compliance status
	<ul style="list-style-type: none"> (iv) details of temporary and interim traffic arrangements to address potential impacts; (v) details of evidence based mitigation measures to address potential impacts on the 'Sandtrack'; (vi) a response procedure for dealing with traffic incidents; and (vii) mechanism for the monitoring, review and amendment of this sub-plan. <p>(b) a Construction Flora and Fauna Management Sub-plan to detail how construction impacts on ecology will be minimised and managed. The sub-plan shall be developed in consultation with the OEH and DPI (Fishing and Aquaculture) and shall include, but not necessarily be limited to:</p> <ul style="list-style-type: none"> (i) details of pre-construction surveys undertaken by a suitably qualified and experienced ecologist to verify the construction boundaries/ footprint of the project based on detailed design and to confirm the vegetation to be cleared as part of the project (including tree hollows, threatened flora and fauna species and riparian vegetation); (ii) updated sensitive area/ vegetation maps based on (i) above and previous survey work; (iii) details of general work practices and mitigation measures to be implemented during construction to minimise impacts on native fauna and native vegetation (particularly threatened species and EECs) not proposed to be cleared as part of the project, including, but not necessarily limited to: fencing of sensitive areas, a protocol for the removal and relocation of fauna during clearing, engagement of a suitably qualified and experienced ecologist to identify locations where they would be present and to oversee clearing activities and facilitate fauna rescues and re-location, clearing timing with consideration to breeding periods, measures for maintaining 			

CoA ref.	Requirement	Phase	Applicability / reference	Compliance status
	<p>existing habitat features (such as bush rock and tree branches etc), seed harvesting and appropriate topsoil management, construction worker education, weed management (including controls to prevent the introduction or spread of <i>Phytophthora cinnamomi</i>), erosion and sediment control and progressive re-vegetation;</p> <p>(iv) specific procedures to deal with EEC/ threatened species anticipated to be encountered within the project corridor including re-location, translocation and/or management and protection measures;</p> <p>(v) a procedure for dealing with unexpected EEC/threatened species identified during construction including cessation of work and notification of the OEH, determination of appropriate mitigation measures in consultation with the OEH (including relevant re-location measures) and update of ecological monitoring and/ or biodiversity offset requirements consistent with conditions B7 and B8; and</p> <p>(vi) mechanism for the monitoring, review and amendment of this sub-plan;</p> <p>(c) a Construction Noise and Vibration Management Sub-plan to detail how construction noise and vibration impacts will be minimised and managed. The sub-plan shall be developed in consultation with the EPA and include, but not necessarily be limited to:</p> <p>(i) identification of nearest sensitive receptors and relevant construction noise and vibration goals applicable to the project;</p> <p>(ii) identification of key noise and/or vibration generating construction activities (based on representative construction scenarios, including at ancillary facilities) that have the potential to impact on surrounding sensitive receivers including expected noise/ vibration levels;</p>			

CoA ref.	Requirement	Phase	Applicability / reference	Compliance status
	<p>(iii) identification of feasible and reasonable measures proposed to be implemented to minimise construction noise and vibration impacts (including construction traffic noise impacts);</p> <p>(iv) procedures for dealing with out-of-hour works in accordance with condition C4 and C6, including procedures for notifying the Director General concerning complaints received in relation to the extended hours approved under condition C4(e);</p> <p>(v) procedures and mitigation measures to ensure relevant vibration and blasting criteria are achieved, including a suitable blast program, applicable buffer distances for vibration intensive works, use of low-vibration generating equipment/ vibration dampeners or alternative construction methodology, and pre- and post- construction dilapidation surveys of sensitive structures where blasting and/ or vibration is likely to result in damage to buildings and structures (including surveys being undertaken immediately following a monitored exceedance of the criteria);</p> <p>(vi) procedures for notifying sensitive receivers of construction activities that are likely to affect their noise and vibration amenity, as well as procedures for dealing with and responding to noise complaints; and</p> <p>(vii) a program for construction noise and vibration monitoring clearly indicating monitoring frequency, location, how the results of this monitoring would be recorded and, procedures to be followed where significant exceedances of relevant noise and vibration goals are detected;</p> <p>(d) a Construction Soil and Water Quality Management Sub-plan to manage surface and groundwater impacts during construction of the project. The sub-plan shall be developed in consultation with the</p>			

CoA ref.	Requirement	Phase	Applicability / reference	Compliance status
	<p>OEH, EPA, DPI (Fishing and Aquaculture) and NOW and include, but not necessarily be limited to:</p> <ul style="list-style-type: none"> (i) identification of potential sources of erosion and sedimentation, and water pollution (including those resulting from maintenance activities); (ii) details of how construction activities would be managed and mitigated to minimise erosion and sedimentation consistent with condition C20; (iii) where construction activities have the potential to impact on waterways or wetlands (through direct disturbance such as construction of waterway crossings or works in close proximity to waterways or wetlands), site specific mitigation measures to be implemented to minimise water quality, riparian and stream hydrology impacts as far as practicable, including measures to stabilise bed and/ or bank structures where feasible and reasonable, and to rehabilitate affected riparian vegetation to existing or better condition. The timing of rehabilitation of the waterways shall be identified in the sub-plan; (iv) a contingency plan, consistent with the Acid Sulfate Soils Manual, to deal with the unexpected discovery of actual or potential acid sulfate soils, including procedures for the investigation, handling, treatment and management of such soils and water seepage; (v) a tannin leachate management protocol to manage the stockpiling of mulch and use of cleared vegetation and mulch filters for erosion and sediment control; (vi) construction water quality monitoring requirements consistent with condition B16; and (vii) a groundwater management strategy, including (but not necessarily limited to): <ul style="list-style-type: none"> i. description and identification of groundwater 			

CoA ref.	Requirement	Phase	Applicability / reference	Compliance status
	<p>resources (including depths of the water table and water quality) potentially affected by the project based on baseline groundwater monitoring undertaken in accordance with condition B15;</p> <ul style="list-style-type: none"> ii. identification of surrounding licensed bores, dams or other water supplies and groundwater dependant ecosystems and potential groundwater risks associated with the construction of the project on these groundwater users and ecosystems; iii. measures to manage identified impacts on water table, flow regimes and quality and to groundwater users and ecosystems; iv. groundwater inflow control, handling, treatment and disposal methods; and v. a detailed monitoring plan to identify monitoring methods, locations, frequency, duration and analysis requirements; and <p>(e) a Construction Heritage Management Sub-plan to detail how construction impacts on Aboriginal and non-Aboriginal heritage will be avoided, minimised and managed. The sub-plan shall be prepared by an appropriately qualified heritage consultant(s) and be developed in consultation with the Heritage Council of NSW, the OEH (Aboriginal heritage), and registered Aboriginal stakeholders (for Aboriginal heritage), and include, but not necessarily be limited to:</p> <ul style="list-style-type: none"> (i) In relation to Aboriginal Heritage: <ul style="list-style-type: none"> i. details of management measures and strategies for protection, salvage, and/or conservation of sites and items that will be directly or indirectly impacted during construction (including further archaeological investigations, salvage measures and/ or measures to protect unaffected sites during construction works 			

CoA ref.	Requirement	Phase	Applicability / reference	Compliance status
	<p>in the vicinity);</p> <ul style="list-style-type: none"> ii. procedures for dealing with previously unidentified Aboriginal objects (excluding human remains) including cessation of works in the vicinity, assessment of the significance of the item(s) and determination of appropriate mitigation measures including when works can re-commence by a suitably qualified archaeologist in consultation with the department, OEH and registered Aboriginal stakeholders and assessment of the consistency of any new Aboriginal heritage impacts against the approved impacts of the project, and notification to the OEH, in accordance with section 89A of the National Parks and Wildlife Act 1974, and the department; iii. procedures for dealing with human remains, including cessation of works in the vicinity and notification of the department, NSW Police Force, OEH and registered Aboriginal stakeholders and not recommencing any works in the area unless authorised by the department and/ or the NSW Police Force); and iv. induction processes (identification, protection) for construction personnel (including procedures for keeping records of inductions) and procedures for ongoing Aboriginal consultation and involvement; and <p>(ii) In relation to non-Aboriginal Heritage:</p> <ul style="list-style-type: none"> i. details of management measures and strategies for protection, excavation, archival recording and/or conservation of heritage items that will be directly or indirectly impacted during construction (including measures to protect unaffected items during 			

CoA ref.	Requirement	Phase	Applicability / reference	Compliance status
	<p>construction works in the vicinity);</p> <p>ii. procedures for dealing with previously unidentified items of heritage significance, including cessation of works in the vicinity, assessment of the significance of the item(s) and determination of appropriate mitigation measures including when works can recommence by a suitably qualified and experienced archaeologist in consultation with the department and the Heritage Council of NSW and assessment of the consistency of any new non-Aboriginal heritage impacts against the approved impacts of the project and notification of the Heritage Council of NSW, in accordance with Section 146 of the NSW Heritage Act 1977, and the department;</p> <p>iii. procedures for dealing with human remains, including cessation of works in the vicinity and notification of the department, NSW Police Force, the Heritage Council of NSW and not recommending any works in the area unless authorised by the department, and/ or the NSW Police Force); and</p> <p>iv. heritage induction processes (identification, protection) for construction personnel (including procedures for keeping records of inductions).</p>			
PART C DURING CONSTRUCTION				
BIODIVERSITY				
C1	The Proponent shall employ feasible and reasonable measures to minimise the clearing of native vegetation during the construction of the project.	Construction	CFFMP Section 3.1.2, Chapter 5 and Appendix A - Clearing and Grubbing EWMS. UDLP	Compliant

CoA ref.	Requirement	Phase	Applicability / reference	Compliance status
AIR QUALITY IMPACTS				
C2	The Proponent shall employ feasible and reasonable measures (including cessation of relevant works, as appropriate) to ensure that the project is constructed in a manner that minimises dust generation, including wind-blown dust, traffic-generated dust, dust from stockpiles and material tracking from construction and ancillary facility sites onto public roads.	Construction	CAQMP Chapter 5	Compliant
NOISE AND VIBRATION IMPACTS				
Construction Hours				
C3	The Proponent shall only undertake construction activities associated with the project during the following standard construction hours: (a) For the area south of Tindalls Lane (including Berry township) (i) 7:00am to 6:00pm Mondays to Fridays, inclusive; and (ii) 8:00am to 1:00pm Saturdays; and (iii) at no time on Sundays or public holidays.	Construction	CNVMP Chapter 7	Compliant
C4	Works outside of the standard construction hours identified in condition C3 may be undertaken in the following circumstances: (a) works that generate noise that is: (i) no more than 5 dB(A) above rating background level at any residence; or (ii) (no more than the noise management levels specified in Table 3 of the Interim Construction Noise Guideline (Department of Environment and Climate Change, 2009) at other sensitive land uses; or (b) for delivery of materials required outside these hours by the NSW Police Force or other authorities for safety reasons; or (c) where it is required in an emergency to avoid the loss of lives, property and/or to prevent environmental harm; or	Construction	CNVMP Appendix E	Compliant

CoA ref.	Requirement	Phase	Applicability / reference	Compliance status
	<p>(d) For the area between Toolijooa Road and Tindalls Lane, encompassing Toolijooa cut, Broughton Creek floodplain and major bridge works (outside of Berry township):</p> <ul style="list-style-type: none"> (i) between 6:00am and 7:00am Monday to Friday; and (ii) between 6:00pm and 7:00pm Monday to Friday; and (iii) 1:00pm and 5:00pm on Saturdays; and (iv) at no time after 6pm on a day preceding a public holiday long weekend;. <p>(e) with the approval of the Director General in accordance with condition C6.</p>			
C5	<p>Except as expressly permitted by an Environment Protection Licence issued for the project, high noise impact activities and works shall only be undertaken:</p> <ul style="list-style-type: none"> (a) between the hours of 8:00am to 6:00pm Mondays to Fridays; (b) between the hours of 8:00am to 1:00pm Saturdays; and (c) in continuous blocks not exceeding three hours each with a minimum respite from those activities and works of not less than one hour between each block. <p>For the purposes of this condition 'continuous' includes any period during which there is less than a one hour respite between ceasing and recommencing any of the work the subject of this condition.</p>	Construction	CNVMP Chapter 7	Compliant
C6	<p>Construction activities (Out of Hours work) may be allowed to occur outside the construction hours specified in condition C3 with the prior written approval of the Director General. Requests for Out of Hours approval will be considered for construction activities which cannot be undertaken during the construction hours specified in condition C3 for technical or other justifiable reasons and will be considered on a case by case or activity-specific basis. Request for Out of Hours work must be accompanied by:</p> <ul style="list-style-type: none"> (a) details of the nature and need for activities to be conducted during the varied construction hours; 	Construction	CNVMP Appendix E	Compliant

CoA ref.	Requirement	Phase	Applicability / reference	Compliance status
	<p>(b) written evidence to the EPA and the Director General that activities undertaken during the varied construction hours are justified, appropriate consultation with potentially affected receivers and notification of the relevant Council has been undertaken, issues raised have been addressed, and all feasible and reasonable mitigation measures have been put in place; and</p> <p>(c) evidence of consultation with the EPA on the proposed variation in standard construction hours.</p> <p>Despite the above, Out of Hours work may also occur in accordance with an approved Construction Environment Management Plan or Construction Noise and Vibration Management Sub-plan for this project, where that plan provides a process for considering the above on a case by case or activity specific basis by the Proponent, including factors (a) to (c) above.</p>			
C7	<p>Blasting associated with the project shall only be undertaken during the following hours:</p> <p>(a) 9:00am to 5:00pm, Mondays to Fridays, inclusive;</p> <p>(b) 9:00am to 1:00pm on Saturdays; and</p> <p>(c) at no time on Sundays or public holidays.</p> <p>This condition does not apply in the event of a direction from the NSW Police Force or other relevant authority for safety or emergency reasons to avoid loss of life, property loss and/or to prevent environmental harm.</p>	Construction	CNVMP Appendix D	Compliant
Construction Noise and Vibration Goals				
C8	<p>The Proponent shall implement feasible and reasonable noise mitigation measures with the aim of achieving the construction noise management levels detailed in the Interim Construction Noise Guideline (Department of Environment and Climate Change, 2009) during construction activities. Any activities that could exceed the construction noise management levels shall be identified and managed in accordance with the Construction Noise and Vibration Management Sub-plan required under condition B36.</p>	Construction	CNVMP Section 4.1 and Chapter 7	Compliant
C9	<p>The Proponent shall implement all feasible and reasonable mitigation</p>	Construction	CNVMP Section 4.2	Compliant

CoA ref.	Requirement	Phase	Applicability / reference	Compliance status						
	<p>measures with the aim of achieving the following construction vibration goals:</p> <ul style="list-style-type: none"> (a) for structural damage to heritage structures, the vibration limits set out in the German Standard DIN 4150-3: Structural Vibration - effects of vibration on structures; (b) for damage to other buildings and/or structures, the vibration limits set out in the British Standard BS 7385-1:1990 – Evaluation and measurement for vibration in buildings. Guide for measurement of vibration and evaluation of their effects on buildings; and (c) for human exposure, the acceptable vibration values set out in the Environmental Noise Management Assessing Vibration: A Technical Guideline (Department of Environment and Conservation, 2006). 		and Chapter 7							
C10	<p>The Proponent shall ensure that airblast overpressure generated by blasting associated with the project does not exceed the criteria specified in Table 1 when measured at the most affected residence or other sensitive receiver.</p> <p>Table 1 - Airblast overpressure criteria:</p> <table border="1"> <thead> <tr> <th>Airblast overpressure (dB(Lin Peak))</th> <th>Allowable exceedance</th> </tr> </thead> <tbody> <tr> <td>115</td> <td>5% of total number of blasts over a 12 month period</td> </tr> <tr> <td>120</td> <td>0%</td> </tr> </tbody> </table>	Airblast overpressure (dB(Lin Peak))	Allowable exceedance	115	5% of total number of blasts over a 12 month period	120	0%	Construction	CNVMP Section 4.2, Chapter 7 and Appendix D	Compliant
Airblast overpressure (dB(Lin Peak))	Allowable exceedance									
115	5% of total number of blasts over a 12 month period									
120	0%									
C11	<p>The Proponent shall ensure that ground vibration generated by blasting associated with the project does not exceed the criteria specified in Table 2 when measured at the most affected residence or other sensitive receiver.</p> <p>Table 2 – Peak particle velocity criteria</p> <table border="1"> <thead> <tr> <th>Receiver</th> <th>Peak particle velocity (mm/s)</th> <th>Allowable exceedance</th> </tr> </thead> <tbody> <tr> <td></td> <td></td> <td></td> </tr> </tbody> </table>	Receiver	Peak particle velocity (mm/s)	Allowable exceedance				Construction	CNVMP Section 4.3, Chapter 7 and Appendix D	Compliant
Receiver	Peak particle velocity (mm/s)	Allowable exceedance								

CoA ref.	Requirement	Phase	Applicability / reference	Compliance status															
	<table border="1"> <tr> <td>Residence on privately owned land</td> <td>5</td> <td>5% of total number of blasts over a 12 month period</td> <td></td> <td></td> </tr> <tr> <td></td> <td>10</td> <td>0%</td> <td></td> <td></td> </tr> <tr> <td>Non- Aboriginal Heritage Item</td> <td>3</td> <td>0%</td> <td></td> <td></td> </tr> </table>	Residence on privately owned land	5	5% of total number of blasts over a 12 month period				10	0%			Non- Aboriginal Heritage Item	3	0%					
Residence on privately owned land	5	5% of total number of blasts over a 12 month period																	
	10	0%																	
Non- Aboriginal Heritage Item	3	0%																	
C12	To ensure that the criteria specified in conditions C10 and C11 are satisfied at the most affected residence or other sensitive receiver, blasting trials shall be undertaken prior to the commencement of the project's blasting program, with results from the trial blasts used to determine site specific blast design to satisfy the relevant criteria.	Construction	CNVMP Section 4.3, Chapter 7 and Appendix D	Compliant															
C13	<p>The blasting criteria identified in conditions C10 and/or C11 may be exceeded where the Proponent has written approval from the Director General. In obtaining the Director General approval for any such exceedance the Proponent shall submit to the Director General:</p> <ul style="list-style-type: none"> (a) a written agreement from the EPA and the relevant landowner to exceed the criteria; (b) details of the proposed blasting program and justification for the proposed increase to blasting criteria including alternatives considered (where relevant); (c) an assessment of the environmental impacts of the increased blast limits on the surrounding environment and most affected residences or other sensitive receivers including, but not limited to noise, vibration and air quality and any risk to surrounding utilities, services or other structures; (d) details of the blast management, mitigation and monitoring procedures to be implemented; and (e) details of consultation undertaken (including clear identification of proposed blast limits and potential property impacts) and agreement 	Construction	CNVMP Section 4.3, Chapter 7 and Appendix D	Compliant															

CoA ref.	Requirement	Phase	Applicability / reference	Compliance status
	<p>reached with the relevant landowners and EPA (including a copy of the agreement in relation to increased blasting limits).</p> <p>Unless otherwise agreed by the Director General, the following exclusions apply to the application of this condition:</p> <ul style="list-style-type: none"> (a) any agreements reached may be terminated by the landowner at any time should concerns about the increased blasting limits be unresolved; and (b) the blasting limit agreed to under any agreement can at no time exceed a maximum Peak Particle Velocity vibration level of 25 mm/s or maximum Airblast Overpressure level of 125 dBL. <p>The provisions under condition C13 (to increase applicable blast criteria in agreement with the relevant landowners) do not apply where the property is a non-Aboriginal heritage item.</p>			
Operational Noise Mitigation Review				
C14	<p>Unless otherwise agreed by the Director General, within 6 months of commencing construction, the Proponent shall, in consultation with the EPA, prepare and submit for the approval of the Director General, a review of the operational noise mitigation measures proposed to be implemented for the project. The review shall:</p> <ul style="list-style-type: none"> (a) confirm the operational noise predictions of the project based on detailed design. This operational noise assessment shall be based on an appropriately calibrated noise model (which has incorporated additional noise monitoring, where necessary for calibration purposes); (b) review the suitability of the operational noise mitigation measures identified in the documents listed under condition A1 to achieve the criteria outlined in the <i>Road Noise Policy</i> (DECCW, 2011), based on the operational noise performance of the project predicted under (a) above; and (c) where necessary, investigate additional feasible and reasonable noise mitigation measures to achieve the criteria outlined in the Road Noise 	Construction	Detailed Design - Operational Noise Management Report	In progress – report issued for 85% detailed design.

CoA ref.	Requirement	Phase	Applicability / reference	Compliance status
	Policy (DECCW, 2011).			
Heritage Impacts				
C15	This approval does not allow the Proponent to destroy, modify or otherwise physically affect human remains as part of the project.	Construction	CHMP Chapter 5 and Appendix A	Compliant
C16	The Proponent shall not destroy, modify or otherwise physically affect Aboriginal sites A3, A20, A37 – A39, and MFT 13-23 and non-Aboriginal sites H25, H26, H51, H52, H58, and H59.	Construction	CHMP Chapter 5	Compliant
C17	Identified impacts to heritage (both Aboriginal and non-Aboriginal), shall be minimised to the greatest extent practicable through both detailed design and construction, particularly with regard to Aboriginal sites A13, A14, A18 and TRACL, and historic sites H13, H20, H54, H62, H63 and the Southern Illawarra Coastal Plain and Hinterland Cultural Landscape. Where impacts are unavoidable, works shall be undertaken in accordance with the actions to manage heritage construction impacts required by condition B36(e) and under the guidance of an appropriately qualified heritage specialist.	Construction	CHMP Chapter 5 Detailed Design UDLP	Compliant
C18	The proponent shall not destroy, modify or otherwise physically affect any heritage items outside the approved project footprint, unless otherwise agreed by the Director General in accordance with Condition C32 of this project approval.	Construction	CEMP Section 3.7 and Appendix A5 CHMP Chapter 5	Compliant
C19	The measures to protect Aboriginal or historic heritage sites near or adjacent to the project during construction shall be detailed in the Heritage Management Sub-plan required under condition B36(e).	Construction	CHMP Chapter 5	Compliant
SEDIMENTATION, EROSION AND WATER				
C20	Soil and water management measures consistent with <i>Managing Urban Stormwater - Soils and Construction Vols 1 and 2, 4th Edition</i> (Landcom, 2004) and <i>Managing Urban Stormwater Soils And Construction Vols 2A and 2D Main Road Construction</i> (Department of Environment and Climate Change, 2008) shall be employed during the construction of the project for erosion and sediment control.	Construction	CSWQMP Section 2.2 and Chapter 5	Compliant

CoA ref.	Requirement	Phase	Applicability / reference	Compliance status
C21	Where available, and of appropriate chemical and biological quality, the Proponent shall use stormwater, recycled water or other water sources in preference to potable water for construction activities, including concrete mixing and dust control.	Construction	CSWQMP Chapter 5	Compliant
C22	All surface water and groundwater must be adequately treated prior to entering the stormwater system to protect the receiving water source quality.	Construction	CSWQMP Chapter 5	Compliant
PROPERTY AND LANDUSE				
C23	The Proponent shall construct the project in a manner that minimises impacts to private properties and other public or private structures (such as dams, fences, utilities, services etc) along the project corridor. In the event that construction of the project results in direct or indirect damage to such property or structure, the Proponent shall arrange and fund repair of the damage to a standard comparable to that in existence prior to the damage occurring, unless otherwise agreed by the relevant property or utility owner.	Construction	CCS Appendices C and E. CNVMP Chapter 7 Dilapidation Reports	Compliant
C24	Access to private property shall be maintained during construction unless otherwise agreed with the property owner in advance. A landowner's access that is physically affected by the Project shall be reinstated to meet at least equivalent standard and/or relevant road safety standards, in consultation with the property owner.	Construction	CCS Sections 3.4 and 7.2	Compliant
C25	Any damage caused to property as a result of the project shall be rectified or the property owner compensated, within a reasonable timeframe, with the costs borne by the Proponent. This condition is not intended to limit any claims that the property owner may have against the Proponent.	Construction	CCS Section 7.2	Compliant
C26	The Proponent shall, in consultation with relevant property owners, construct the project in a manner that minimises intrusion and disruption to agricultural operations/ activities in surrounding properties (e.g. stock access, access to farm dams etc), unless otherwise agreed by the relevant property owner.	Construction	CCS Section 7.2	Compliant
TRAFFIC IMPACTS				

CoA ref.	Requirement	Phase	Applicability / reference	Compliance status
C27	<p>The roads likely to be used by the project's heavy construction vehicles shall be identified in the Construction Traffic Management Sub-plan required under condition B36(a).</p> <p>(a) Road dilapidation reports shall be prepared for local roads likely to be used by the project's construction traffic, and a copy of the report(s) shall be provided to the relevant council, prior to use by the project's heavy construction vehicles. Any damage resulting from the use of the identified local roads by the project's heavy construction vehicles, aside from that resulting from normal wear and tear, shall be repaired at the cost of the Proponent, unless otherwise agreed by the relevant council.</p> <p>(b) A road dilapidation report shall be prepared for the 'Sandtrack' and a copy of the report shall be provided to the relevant council, prior to commencement of construction. Should monitoring in accordance with Condition B36(a) reveal higher than anticipated volumes of traffic (as defined in the document referred to in Condition A1(b)) resulting in a higher rate of deterioration in the condition of local road infrastructure, consultation with the relevant Council shall be undertaken to determine mitigation measures in accordance with condition B36(a). A report shall be prepared and submitted to the Director General at 12 months and 24 months after commencement of construction, and prior to operation, unless otherwise agreed by the Director General.</p>	Pre-construction	a) CTMP Section 2 b) CTMP Section 2	In progress
C28	The Proponent shall not cause, permit or allow waste generated outside the site to be received at the site for storage, treatment, processing, reprocessing, or disposal on the site, except as expressly permitted by a licence under the Protection of the Environment Operations Act 1997, if such a licence is required in relation to that waste.	Construction	CWEMP Chapters 4 and 5	Compliant
WASTE MANAGEMENT				
C29	The Proponent shall maximise the reuse and/or recycling of waste materials generated on site as far as practicable, to minimise the need for treatment or	Construction	CWEMP Chapters 4 and 5	Compliant

CoA ref.	Requirement	Phase	Applicability / reference	Compliance status
	disposal of those materials off site.			
C30	The Proponent shall ensure that liquid and/or non-liquid waste generated on the site is assessed and classified in accordance with Waste Classification Guidelines (Department of Environment and Climate Change, 2008) and where removed from the site is directed to a waste management facility lawfully permitted to accept the materials.	Construction	CWEMP Chapters 4 and 5	Compliant
HAZARDS AND RISKS				
C31	<p>The Proponent shall store and handle dangerous goods, as defined by the Australian Dangerous Goods Code, strictly in accordance with:</p> <ul style="list-style-type: none"> (a) relevant Australian Standards; (b) for liquids, a minimum bund volume requirement of 110% of the volume of the largest single stored volume within the bund; and (c) the Environment Protection Manual for Authorised Officers: Bunding and Spill Management, Technical Bulletin (Environment Protection Authority, 1997). <p>In 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.</p>	Pre-construction, Construction	Project Management Section 8.4 WHS Plan CSWQMP Section 5.11	Compliant
ANCILLARY FACILITIES				
C32	<p>Unless otherwise approved by the Director General in accordance with this condition, the sites for ancillary facilities (except stockpiles) associated with the construction of the project shall:</p> <ul style="list-style-type: none"> (a) be located more than 50 metres from a waterway; (b) have ready access to the road network or direct access to the construction corridor; (c) not require native vegetation clearing beyond that already required by the project; (d) be sited on relatively level land; (e) be separated from the nearest residences by at least 200 metres (or 	Pre-construction and Construction	CEMP Section 2.4 and Appendix A5	Compliant

CoA ref.	Requirement	Phase	Applicability / reference	Compliance status
	<p>at least 300 metres for a temporary batching plant);</p> <p>(f) not unreasonably affect the land use of adjacent properties;</p> <p>(g) be above the 20 ARI flood level unless a contingency plan to manage flooding is prepared and implemented;</p> <p>(h) provide sufficient area for the storage of raw materials to minimise, to the greatest extent practical, the number of deliveries required outside standard construction hours; and</p> <p>(i) not impact on heritage items beyond those already impacted by project (including identified Aboriginal cultural value and archaeological sensitivity).</p>			
C33	<p>Ancillary sites that do not meet the criteria set out under condition C32 of this approval shall be approved by the Director General prior to establishment. In obtaining this approval, the Proponent shall assess the ancillary facility against the criteria set out under condition C32 of this approval to demonstrate how the potential environmental impacts can be mitigated and managed to acceptable standards. Such assessment(s) can be submitted separately or as part of the Construction Environmental Management Plan required under B35 of this approval. The assessment shall include, but not necessarily be limited to:</p> <p>(a) a description of the ancillary facility, its components and the surrounding environment;</p> <p>(b) details on the activities to be carried out at the facility, including the hours of use and the storage of dangerous and hazardous goods;</p> <p>(c) an assessment of the environmental impacts on the site and the surrounding environment, including, but not limited to noise, vibration, air quality, traffic access, flora and fauna, heritage and light spill;</p> <p>(d) details on the mitigation, monitoring and management procedures specific to the ancillary facility that would be implemented to minimise the environmental impacts or, where this is not possible, feasible and reasonable measures to offset these impacts and an assessment of the adequacy of the mitigation or offsetting measures. This shall</p>	Pre-construction and Construction	CEMP Section 2.4 and Appendix A5	Compliant

CoA ref.	Requirement	Phase	Applicability / reference	Compliance status
	<p>include consideration of restrictions on the hours of use or exclusion of certain activities;</p> <p>(e) details on the timing for the completion of activities at the ancillary facility and how the site will be decommissioned (including any necessary rehabilitation); and</p> <p>(f) demonstrated overall consistency with the approved project.</p> <p>The Proponent shall demonstrate to the satisfaction of the Director General that there will be no significant adverse impact from that facility's construction or operation.</p>			
C34	<p>The Director General's approval is not required for minor ancillary facilities (e.g. lunch sheds, office sheds, and portable toilet facilities, etc.) that do not comply with the criteria set out in condition C32 of this approval and which:</p> <p>(a) are located within an active construction zone within the approved project footprint; and</p> <p>(b) have been assessed by the Environmental Representative to have:</p> <p>(i) minimal amenity impacts to surrounding residences, with consideration to matters such as noise and vibration impacts, traffic and access impacts, dust and odour impacts, and visual (including light spill) impacts, and</p> <p>(ii) (minimal environmental impact in respect to waste management, and no impacts on flora and fauna, soil and water, and heritage beyond those approved for the project; and</p> <p>(c) have environmental and amenity impacts that can be managed through the implementation of environmental measures detailed in a Construction Environment Management Plan for the project.</p>	Construction	CEMP Section 2.4 and Appendix A5	Compliant
PART D PRIOR TO OPERATIONS				
OPERATIONAL ENVIRONMENT MANAGEMENT SYSTEM				
D1	Prior to the commencement of operation, the Proponent shall incorporate the	Construction	By RMS	NA at this stage –

CoA ref.	Requirement	Phase	Applicability / reference	Compliance status
	project into its existing environmental management systems.			relates to operation.
PART E DURING OPERATIONS				
OPERATIONAL NOISE				
E1	<p>Within 12 months of the commencement of operation of the project, or as otherwise agreed by the Director General, the Proponent shall undertake operational noise monitoring to compare actual noise performance of the project against noise performance predicted in the review of noise mitigation measures required by condition C14, and prepare an Operational Noise Report to document this monitoring. The Report shall include, but not necessarily be limited to:</p> <ul style="list-style-type: none"> (a) noise monitoring to assess compliance with the operational noise levels predicted in the review of operational noise mitigation measures required under condition C14 and documents specified under condition A1 of this approval; (b) a review of the operational noise levels in terms of criteria and noise goals established in the Environmental Criteria for Road Traffic Noise (EPA, 1999); (c) methodology, location and frequency of noise monitoring undertaken, including monitoring sites at which project noise levels are ascertained, with specific reference to locations indicative of impacts on sensitive receivers; (d) details of any complaints and enquiries received in relation to operational noise generated by the project between the date of commencement of operation and the date the report was prepared; (e) any required recalibrations of the noise model taking into consideration factors such as actual traffic numbers and proportions; (f) an assessment of the performance and effectiveness of applied noise mitigation measures together with a review and if necessary, reassessment of all feasible and reasonable mitigation measures; and (g) identification of additional feasible and reasonable measures to those 	Operation	By RMS	NA at this stage – relates to operation.

CoA ref.	Requirement	Phase	Applicability / reference	Compliance status
	<p>identified in the review of noise mitigation measures required by condition C14, that would be implemented with the objective of meeting the criteria outlined in the Environmental Criteria for Road Traffic Noise (EPA, 1999), when these measures would be implemented and how their effectiveness would be measured and reported to the Director General and the EPA.</p> <p>The Proponent shall provide the Director General and the EPA with a copy of the Operational Noise Report within 60 days of completing the operational noise monitoring referred to in (a) above or as otherwise agreed by the Director General.</p>			

Appendix B

Statement of Commitments Compliance Table

Table 3 Revised statement of commitments (May 2013)

SoC no.	Requirement	Phase	Applicability reference	Compliance status
Environmental management				
EM1	The head contractor for the project will have an Environmental Management System (EMS).	Pre-construction and construction	CEMP and Sub-plans	Compliant
EM2	Environmental management plans will be developed and implemented by suitably qualified and experienced personnel and will incorporate as a minimum the mitigation and management measures in the environmental assessment.	Pre-construction and construction	CEMP and Sub-plans	Compliant
EM3	Environmentally sensitive areas (such as native vegetation, river flat eucalypt forest and cultural heritage) within the construction site boundary will be marked on sensitive area maps, demarcated and signposted where necessary. Maps will be made available during all on-site inductions to construction personnel.	Pre-construction and construction	CEMP Appendix A6 CFFMP CHMP	Compliant
EM4	All construction personnel will receive training regarding environmental management.	Pre-construction and construction	CEMP Chapter 5	Compliant
Community consultation				
CC1	<p>The community will be kept informed with measures such as:</p> <ul style="list-style-type: none"> • Letter box drops, media releases and community updates. • An internet site established and maintained for the duration of the project. • Variable message signs. • The project office. • Email to registered stakeholders. • Targeted consultation with affected individuals or groups. <p>Information to be provided will include:</p>	Pre-construction and construction	CCS Section 7.2	Compliant

SoC no.	Requirement	Phase	Applicability reference	/ Compliance status
	<ul style="list-style-type: none"> • Changes to access and traffic conditions. • A detail of future works programs. • General construction progress. 			
CC2	<p>Communication management will include:</p> <ul style="list-style-type: none"> • A 24 hour toll-free contact telephone number. • Directions on how to register a complaint or make an inquiry. • Acknowledgement of complaints within 24 hours. • A complaint recording and tracking system. 	Pre-construction and construction	CCS Sections 8.1 and 8.2	Compliant
Traffic and transport				
TT1	Construction vehicle movements and works programs will incorporate traffic control measures to minimise traffic and transport impacts on local roads and the existing highway.	Pre-construction and construction	CTMP Chapter 3	Compliant
TT2	Road safety on 'the Sandtrack' will be monitored during construction. Should additional road safety issues be identified appropriate road safety measures will be implemented where reasonable and feasible, in consultation with Kiama Municipal Council and Shoalhaven City Council.	Construction	CTMP Chapter 2	Compliant
TT3	Traffic levels and operational performance will be monitored during peak periods, at approximately 6 and 12 months following completion of the project.	Operation	BY RMS	NA at this stage – relates to operation.
Noise and vibration				
NV1	Mitigation and management measures, such as noise barriers, pre-dilapidation surveys and monitoring, will be used to minimise construction noise and vibration at sensitive receivers.	Construction	CNVMP Chapter 7 and Section 8.3	Compliant
NV2	If required due to ground conditions, impact piling ('driven piles') will be conducted during standard working hours.	Construction	CNVMP Chapter 7	Compliant
NV3	Reasonable and feasible mitigation measures, such as noise barriers in the vicinity of North Street and Huntingdale Park Road and architectural treatments, will be developed and implemented to meet the noise criteria	Pre-construction	Detailed Design - Signage, Linemarking & Road Furniture	Compliant

SoC no.	Requirement	Phase	Applicability reference	Compliance status
	applicable to the project in consultation with the sensitive receiver.		Report	
NV4	Operational noise monitoring will be undertaken approximately one year after project opening, in accordance with RMS' Environmental Noise Management Manual (RTA, 2001). If monitoring indicates a clear trend that traffic noise levels exceed those predicted, further feasible and reasonable measures will be investigated in consultation with a qualified and experienced acoustic specialist and affected property owners.	Construction and Operation	Detailed Design - Operational Noise Management Design Report	In progress – report issued for 85% detailed design.
NV5	The feasibility of constructing noise protection on the western side of Mark Radium Park will be investigated.	Pre-construction and construction	Tender Submission Documents	Compliant
Biodiversity				
BD1	Areas of vegetation identified to be retained will be managed as environmentally sensitive areas.	Pre-construction	CFFMP Chapter 5	Compliant
BD2	Pre-clearing fauna surveys, clearing procedures, including staged clearing where there are hollow trees, and methods to control noxious and environmental weeds and pests will be developed and implemented prior to clearing activities, in consultation with a suitably qualified and experienced ecologist.	Pre-construction and construction	CFFMP Chapter 5 and Appendices A & F	Compliant
BD3	Natural and artificial habitat features, such as bat roost and nest boxes, will be installed to replace hollow-bearing trees that are removed.	Pre-construction and construction	CFFMP Chapter 5 and Appendix A	Compliant
BD4	A fauna monitoring program will be developed in consultation with OEH. This program will allow the assessment of the effectiveness of fauna mitigation measures including nest boxes, bat roost boxes, fauna underpasses, rope bridges and fauna fencing.	Pre-construction, construction and operation	Ecological Monitoring Program (by RMS). Provided separately to the CEMP.	In progress – sent to DP&E
BD5	Soil that has been stripped, stockpiled and/or reinstated as part of the construction works will be appropriately managed to maintain available seed bank.	Pre-construction and construction	CFFMP Chapter 5, Appendix A CSWQMP Appendix F	Compliant
BD6	Fauna mitigation structures, such as fauna underpasses, fauna overpasses and fauna fencing will be provided where reasonable and feasible. These structures will be designed to assist the safe passage of fauna underneath	Pre-construction, construction and operation	Fauna Crossing Report (CoA B5). To be provided separately	In progress

SoC no.	Requirement	Phase	Applicability reference	/ Compliance status
	or over the highway.		to the CEMP, prior to the commencement of construction of the relevant crossing.	
BD7	Vegetation will be retained, where practicable, under bridges, at temporary creek crossing sites, adjacent to ancillary sites and in the vicinity of rope bridges.	Pre-construction, construction and operation	CFFMP Chapter 5 and Appendix A. UDLP Drawings	Compliant
BD8	Permanent and temporary waterway crossings will be designed and constructed in accordance with the fish classification of each waterway.	Pre-construction and construction	CFFMP Chapter 5	Compliant
BD9	A biodiversity offset package will be developed in consultation with the biodiversity offset strategy and in consultation with OEH and DTIRIS. The area of restoration or offsetting would be guided by a simulated assessment of the project impacts and potential offsets using the BioBanking Assessment Methodology with a minimum of 2:1 for riparian vegetation.	Pre-construction and construction	Biodiversity Offset Strategy (by RMS)	In progress - draft Biodiversity Offset Strategy prepared by Parsons Brinckerhoff.
Surface water and groundwater				
SG1	Water quality measures such as water quality basins, swales or bioretention systems at sensitive receiving environments will be designed and installed to respond to the project water quality design criteria.	Pre-construction and construction	CSWQMP Chapter 5 Detailed Design – Drainage Report	Compliant
SG2	A design and revegetation strategy for the Town Creek diversion will be developed during detailed design and will include measures to: <ul style="list-style-type: none"> Maintain flushing efficiency. Mitigate erosion risk at the connection with Bundewallah Creek. The design of the diversion will be finalised in consultation with directly affected landowners. The Town Creek diversion will be stabilised to mitigate erosion risk prior to operation.	Pre-construction and construction	Detailed Design – Drainage Report UDLP	Compliant
SG3	Permanent losses to farm dam catchments and inflows will be identified during detailed design. Mitigation strategies will be developed in consultation with affected landowners and implemented where reasonable and feasible.	Pre-construction	Detailed Design – Drainage Report	Compliant

SoC no.	Requirement	Phase	Applicability reference	/ Compliance status
SG4	Drinking water drawn from Broughton Creek will be maintained through measures identified in commitment AQ1. In the event that water drawn from Broughton Creek does not meet existing drinking water quality standards, an appropriate source of potable water will be made available to affected residents, following consultation.	Construction	CAQMP Chapter 5	Compliant
SG5	RMS will consult with landholders along the existing Town Creek alignment, below the proposed diversion, to confirm that there are no Basic Landholder Rights (under the Water Management Act 2000) to access water for domestic or stock purposes.	Pre-construction	By RMS	In progress – RMS consulting with NOW.
SG6	Waterway structures will be designed to maintain existing flow regimes, where practicable.	Pre-construction	Detailed Design Drainage Report	– Compliant
SG7	Detailed design will seek to minimise increases in peak flood levels in the 1 in 100 year flood event.	Pre-construction	Detailed Design Drainage Report	– Compliant
SG8	Changes to flood impacts on property will be identified as part of detailed design. Where increased flood impacts to structures, such as residences, are identified, mitigation measures will be proposed and implemented where reasonable and feasible.	Pre-construction and construction	Hydrological Mitigation Report (by RMS) Detailed Design Drainage Report	In progress - Draft Hydrological Mitigation Report prepared by WMA. – Detailed Design ongoing.
SG9	Impacts on stream channel structure diversion will be minimised during detailed design. Measures to be considered may include culvert sizing, energy dissipation measures, scour protection and other design features to control flow intensity and direction.	Pre-construction	Detailed Design Drainage Report	– Compliant
SG10	Groundwater monitoring of water levels and water quality will be undertaken. Where levels and/or quality indicate that the project is potentially having an adverse impact, mitigation measures will be considered and implemented where reasonable and feasible.	Construction	CSWQMP Appendix B	Compliant
SG11	Water efficient work practices, such as water reuse and recycling for road construction and revegetation irrigation will be implemented, where feasible. In the event that surface water from watercourses or groundwater is required to supply water to the project, a site specific impact assessment will	Construction	CSWQMP Chapter 5	Compliant

SoC no.	Requirement	Phase	Applicability reference	Compliance status
	be carried out in consultation with the NSW Office of Water and potentially affected stakeholders.			
Landscape character and visual amenity				
VL1	<p>The detailed design will be developed with reference to the minimum reference design requirements and the findings of the CM+ Urban Design Study for the following project components:</p> <ul style="list-style-type: none"> All bridges within the project, with consideration of the Bridge Aesthetics Design Guidelines (RTA 2003). Embankments across Broughton Creek west of Toolijooa Ridge. Noise attenuation measures barriers along the length of the project. 	Pre-construction	UDLP Detailed Design - Structures Report	Compliant
VL2	Councils and the local community will be engaged during detailed design to receive feedback on an urban and landscape design strategy for the project and the integration of existing pedestrian access and mobility plans for Berry.	Pre-construction	Community Display Session Sat 26/07/2014. Detailed Design - Roads Report	Compliant
VL3	To respect the rural and historic character of Foxground and Berry, noise barriers and bridges will be designed using forms, materials, colour and texture that are sensitive to the area, that complement the existing rural character and, where possible and desirable, that recede into the landscape. Planting and revegetation will be used to help blend the project into its setting and screen and visually soften built elements.	Pre-construction	UDLP	Compliant
VL4	Landscaping treatments will include native plant species endemic to the local area and where practicable, locally sourced seed and propagated plant stock will be used to supplement the plant materials required for the project.	Pre-construction and construction	UDLP	Compliant
VL5	A lighting strategy and design will be undertaken during detailed design to minimise the impacts of light spill. Detailed design will address mechanisms for reducing the impacts of headlight glare from vehicles travelling on the bridges at Berry and Broughton Creek	Pre-construction	Detailed Design - Signage, Linemarking & Road Furniture Report	Compliant
Aboriginal heritage				

SoC no.	Requirement	Phase	Applicability reference	/ Compliance status
AH1	Aboriginal sites identified to be conserved will be managed as environmentally sensitive areas.	Pre-construction and construction	CHMP Chapter 5 CEMP Appendix A6	Compliant
AH2	Disturbance to the natural soil profile of G2B A13 and G2B A14 will be avoided, where practicable.	Pre-construction and construction	CHMP Chapter 5 Alignment Report	Compliant
AH3	Conduct a program of archaeological salvage at sites G2B A16, G2B A18, G2B A24, G2B A29, G2B A30, G2B A31, G2B A32, G2B A32, G2B A33, G2B A36, and G2B PAD1.	Construction	By RMS	In progress - Kelleher Nightingale methodology submitted to DP&E.
AH4	If any skeletal remains or unknown Aboriginal objects or places are encountered, works that would potentially impact the find will stop immediately. Works will not re-commence until appropriate clearance has been received.	Pre-construction and construction	CHMP Chapter 5 and Appendix A	Compliant
AH5	All construction personnel will receive training in the management of Aboriginal cultural materials, including legal obligations, the application of protocols and the recognition of Aboriginal cultural materials.	Pre-construction and construction	CHMP Section 6.2	Compliant
Non-Aboriginal heritage				
NA1	Mitigation (archival record, test/salvage excavation) will be completed for impacted heritage items.	Pre-construction and construction	By RMS	In progress - Historical research currently being completed by Biosis (Non-Aboriginal heritage).
NA2	An archival recording of Glen Devon (G2B H11) and its grounds will be conducted prior to the commencement of construction	Pre-construction and construction	By RMS	In progress - H11 historical research report sent to DP&E.
NA3	Non-Aboriginal sites identified to be conserved will be managed as environmentally sensitive areas.	Pre-construction and construction	CHMP Chapter 5	Compliant
NA4	If any unknown non-Aboriginal heritage items are encountered, all works that would potentially impact the find will stop immediately. Works will not	Pre-construction and construction	CHMP Chapter 5 and Appendix A	Compliant

SoC no.	Requirement	Phase	Applicability reference	/ Compliance status
	recommence until appropriate clearance has been received.			
NA5	An archival record will be prepared for any directly impacted heritage item. Copies will be kept in RMS' library and distributed to the Kiama library and Shoalhaven library (Nowra branch).	Pre-construction and construction (as relevant)	By RMS	In progress - Historical research currently being completed by Biosis (Non-Aboriginal heritage).
Land use and property				
P1	Negotiation for all property acquisitions will be in accordance with RMS' Land Acquisition Information Guide (RTA, 2011). Compensation assessment will be in accordance with the Land Acquisition (Just Terms Compensation) Act 1991.	Pre-construction	By RMS	In progress
P2	Property access will be maintained during construction. If temporary or alternative access is required, it will be provided in consultation with the affected landowner/s.	Construction.	CCS Section 7.2	Compliant
P3	Affected property owners will be consulted during detailed design regarding long term access requirements via underpasses.	Pre-construction and construction	CCS Section 7.2	Compliant
Socio-economic				
SE1	Negotiations for property acquisition will include consideration of property adjustments, where required, to maintain farm management practices.	Pre-construction	By RMS	In progress
SE2	Stock refuge will be maintained at Broughton Creek bridge 2 and will be determined during detailed design in consultation with landowners.	Pre-construction	CCS Section 7.2 Detailed Design – Alignment Report	Compliant
SE3	Appropriate destination signage will be provided near to interchanges.	Operation	CTMP Sections 16.3.1 & 16.3.2 Detailed Design - Signage, Linemarking & Road Furniture	Compliant

SoC no.	Requirement	Phase	Applicability reference	/ Compliance status
			Report	
SE4	Consultation with Shoalhaven City Council will continue through detailed design and construction regarding assistance towards the development of strategies to address the continued economic viability of Berry.	Pre-construction and construction	By RMS	In progress - ongoing
SE5	Access to recreational facilities will be maintained during construction and operation of the project, where practicable, including consideration of assistance to the relocation of the Berry equestrian centre during construction.	Pre-construction, construction and operation	CCS Section 7.2	Compliant
SE6	Access to local creeks, including access to the existing Broughton Creek bridge will be maintained during construction and operation to provide access for recreational fishers, where safe and practicable.	Pre-construction, construction and operation	CSS Section 7.2 Detailed Design - Drainage Report	Compliant
Soil and water quality				
SW1	Management measures will be designed, installed and maintained to minimise erosion and sedimentation from construction activities.	Pre-construction, construction and operation	CSWQMP Chapter 5	Compliant
SW2	A soil conservation specialist will be engaged to provide advice on erosion and sedimentation control.	Pre-construction, construction and operation	CSWQMP Chapter 5	Compliant
SW3	Stabilisation of exposed areas will be undertaken progressively.	Pre-construction, construction and operation	CSWQMP Chapter 5	Compliant
SW4	Monitoring of water quality upstream and downstream of the project site will be undertaken before and during construction.	Pre-construction, construction and operation	CSWQMP Appendix B	Compliant
SW5	Areas of ASS to be avoided will be fenced and signposted as exclusion zones before and during any works in the vicinity.	Pre-construction, construction and operation	CSWQMP Appendix E	Compliant

SoC no.	Requirement	Phase	Applicability reference	Compliance status
SW6	Exposed ASS will be neutralised and surface run-on will be minimised. Any acid runoff or acid material will be contained and treated.	Pre-construction, construction and operation	CSWQMP Appendix E	Compliant
SW7	Targeted soil contamination investigations will be undertaken during detailed design, if required. A remedial action plan will be developed if contamination is found to pose unacceptable risks to the environment and human health.	Pre-construction, construction and operation	CSWQMP Appendix C Detailed Design - Geotechnical Report	Compliant
Air quality				
AQ1	Standard dust and emission control measures will be implemented to manage construction air quality impacts at sensitive receivers.	Construction	CAQMP Chapter 5	Compliant
AQ2	Monitoring will be undertaken to assess the effectiveness of the air quality environmental management measures. Where required, additional feasible and reasonable environmental management measures will be used.	Construction	CAQMP Section 6.3	Compliant
Hazards and risks				
HR1	Spills will be contained immediately. Bunded areas within the construction site and ancillary facilities, or other areas where suitable containment measures are in place to prevent discharge into watercourses, will be used for storage of potentially hazardous and/or contaminating materials and activities.	Pre-construction and construction	CSWQMP Chapter 5	Compliant
HR2	Not used.		NA	
HR3	Protection measures for the eastern gas pipeline and suitable construction methods when working in the vicinity of the pipeline will be implemented in consultation with Jemena (Eastern Gas Pipeline).	Pre-construction and construction	Detailed Design - Signage, Linemarking & Road Furniture Report	Compliant
HR4	Permanent water quality basins, swales or other appropriate controls will be designed during the detailed design phase to protect waterways from spills.	Pre-construction and operation	Detailed Design - Drainage Report	Compliant
Waste and management				
SM1	Not used.		NA	

SoC no.	Requirement	Phase	Applicability reference	/	Compliance status
SM2	The waste minimisation hierarchy principles of avoid, reduce, reuse, recycle or dispose will apply to all aspects of the project.	Construction	CWEMP Chapters 4 and 5	4	Compliant
Greenhouse gas emissions					
GG1	Energy efficient work practices will be implemented, including consideration of: <ul style="list-style-type: none"> • Energy efficient design of site buildings. • Design of site compounds and the batch plant to minimise unnecessary vehicle movement. • Regular servicing of site plant and equipment. • Training of construction personnel in energy efficient plant operation. • The use of accredited GreenPower. • Use of locally sourced materials where available and of suitable quality. 	Pre-construction and construction	CWEMP Chapters 4 and 5	4	Compliant
Ancillary facilities					
AF1	Ancillary facilities (excluding temporary stockpiles) not identified in the environmental assessment will be located in areas: <ul style="list-style-type: none"> • More than 50 metres from waterways for the active area of the ancillary facility. • Where there is no significant clearing of native vegetation beyond that already required for the project. • That minimise impact on amenity of the closest sensitive receiver (unless a negotiated agreement is in place). • On relatively level ground. 	Pre-construction and construction	CEMP Section 2.4 and Appendix A5		Compliant
AF2	Ancillary chemical storage facilities will be located above the 1 in 100 year flood level unless otherwise identified the construction environmental management plan.	Pre-construction and construction	CEMP Section 2.4 and Appendix A5		Compliant
AF3	Temporary stockpiles will be located in areas: <ul style="list-style-type: none"> • Of low ecological and heritage conservation significance. • At least 50 metres from waterways. 	Pre-construction and construction	CSWQMP Appendix F		Compliant

SoC no.	Requirement	Phase	Applicability reference	/ Compliance status
	<ul style="list-style-type: none"> • Outside the 10 year ARI floodplain. • On relatively level ground. 			